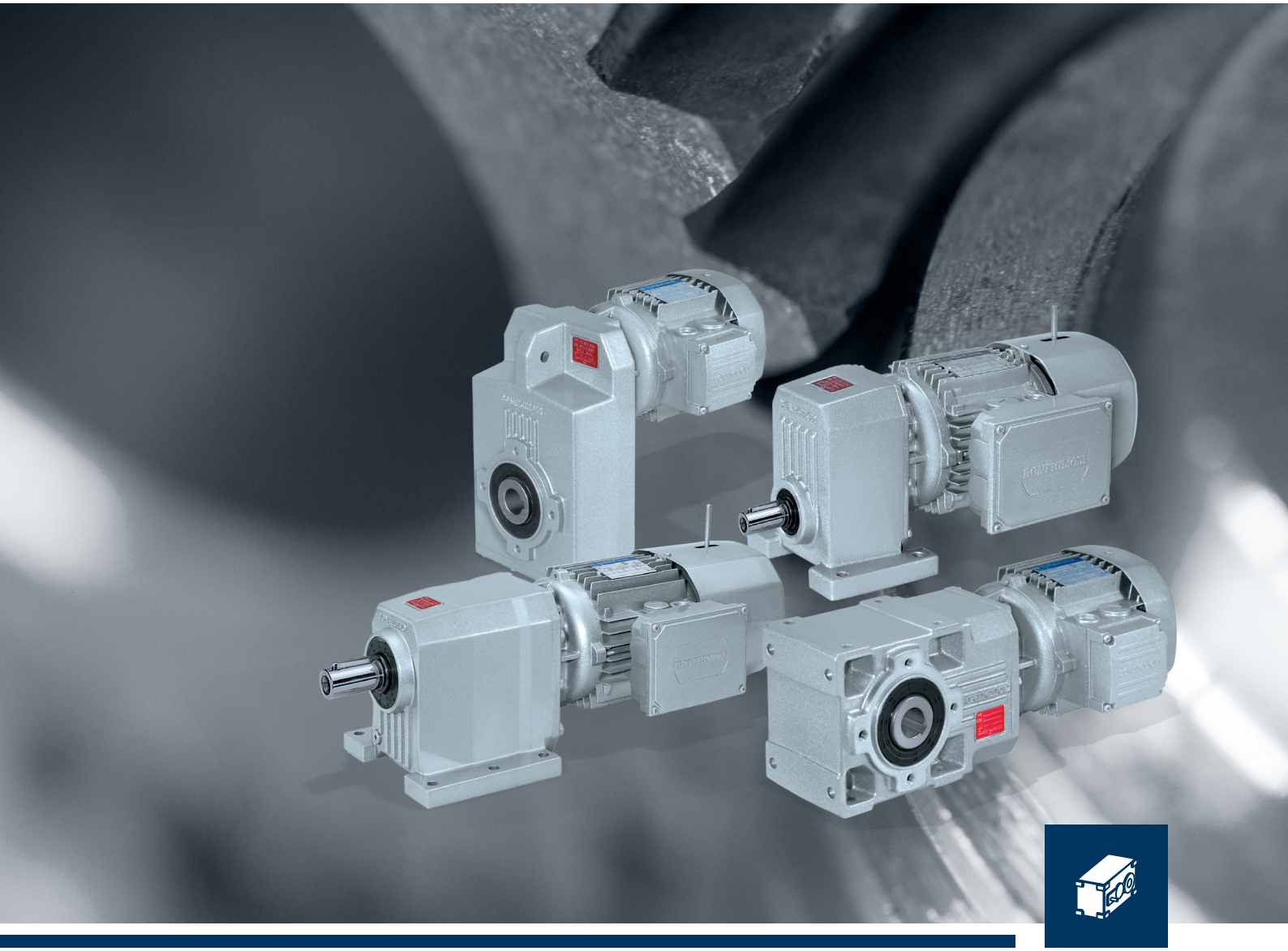
Bonfiglioli

Riduttori

série C-A-F-S

Redutores helicoidais série C
Redutores ortogonais série A
Redutores pendulares série F
Redutores monoestágio série S



PRODUCT

Bonfiglioli
Forever Forward

NORTH AMERICA EDITION

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Revisões

O índice de revisões do catálogo encontra-se na pág. 712 No site www.bonfiglioli.com estão disponíveis os catálogos nas suas versões mais atualizadas.

INFORMAÇÕES GERAIS

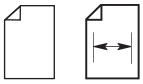
1 SÍMBOLOS E UNIDADES DE MEDIDA

Simbologia	Unidades de Medida	Descrição
$A_{N\ 1,\ 2}$	[N]	Força axial permitida
f_s	–	Fator de serviço
f_T	–	Fator térmico
f_{TP}	–	Fator de temperatura
i	–	Relação de transmissão
I	–	Fator de duração de ciclo
J_C	[Kgm^2]	Momento de inércia de massa a ser movida
J_M	[Kgm^2]	Momento de inércia de massa do motor
J_R	[Kgm^2]	Momento de inércia de massa do redutor
K	–	Fator de aceleração da massa
K_r	–	Fator do elemento de transmissão
$T_{1,\ 2}$ $M_{1,\ 2}$	[lb•in] [Nm]	Torque
$T_{c\ 1,\ 2}$ $M_{c\ 1,\ 2}$	[lb•in] [Nm]	Torque calculado
$T_{n\ 1,\ 2}$ $M_{n\ 1,\ 2}$	[lb•in] [Nm]	Torque nominal
$T_{r\ 1,\ 2}$ $M_{r\ 1,\ 2}$	[lb•in] [Nm]	Demanda de torque

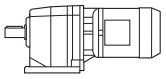
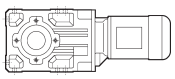
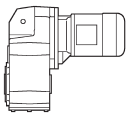
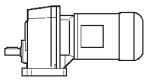
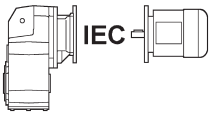
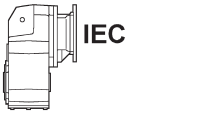
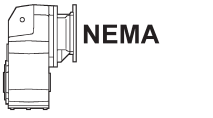
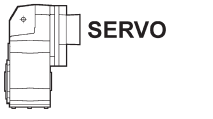
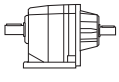
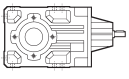
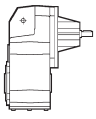
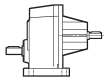
Simbologia	Unidades de Medida	Descrição
$n_{1,\ 2}$	[rpm]	Velocidade
$P_{1,\ 2}$	[kW]	Potência
$P_{N\ 1,\ 2}$	[kW]	Potência nominal
$P_{R\ 1,\ 2}$	[kW]	Demanda de potência
$R_{C\ 1,\ 2}$	[N]	Força radial calculada
$R_{N\ 1,\ 2}$	[N]	Força radial permissível
S	–	Fator de segurança
t_a	[°C]	Temperatura ambiente
t_f	[min]	Tempo de trabalho sob carga constante
t_r	[min]	Tempo de descanso
η_d	–	Eficiência dinâmica
η_s	–	Eficiência estática
φ	[']	Folga angular do eixo de saída (com eixo de entrada travado)

$_1$ valor aplicável ao eixo de entrada

$_2$ valor aplicável ao eixo de saída

	O símbolo mostra a página a partir da qual as informações podem ser classificadas.
	Este símbolo refere-se ao ângulo que a força radial é aplicado (visto da ponta do eixo da unidade).
	IMPORTANTE Este símbolo indica informações técnicas importantes.

	Este símbolo refere-se ao peso dos motorredutores e redutores. Dados de motorredutores incorporam o peso do motor de 4 polos e os dados de unidades com lubrificação permanecente, quando aplicáveis, incorporam o peso do óleo.

Series C	Series A	Series F	Serie S	
				Motorredutor com motor compacto.
				Motorredutor com motor IEC.
				Redutor com interface de motor IEC.
				Redutor com interface de motor NEMA
				Redutor com adaptador de entrada de servomotor.
				Redutor de velocidade com eixo de entrada sólido.

2 TORQUE

2.1 Torque nominal M_{n2} [Nm]

O torque que pode ser transmitido continuamente através do eixo de saída, com o redutor operado sob um fator de serviço $f_s = 1$.
A classificação é sensível à velocidade.

2.2 Torque exigido M_{r2} [Nm]

A demanda de torque baseia-se na exigência da aplicação.
Deve ser sempre igual ou menor que o torque M_{n2} em que o redutor em estudo esteja classificado.

2.3 Torque calculado M_{c2} [Nm]

Valor do torque computacional a ser usado ao escolher o redutor. Ele é calculado considerando o torque exigido M_{r2} e o fator de serviço fs, de acordo com a equação abaixo:

$$M_{c2} = M_{r2} \cdot f_s < M_{n2} \quad (1)$$

3 POTÊNCIA

3.1 Potência nominal P_{n1} [kW]

Nas tabelas de seleção de redutor, esta é a potência aplicável ao eixo de entrada, com base na velocidade de entrada n_1 e correspondente ao fator de serviço $f_s = 1$.

4 CAPACIDADE TÉRMICA P_t [kW]

P_t é a potência que pode ser transmitida pelo redutor, sob um ciclo contínuo e uma temperatura ambiente de 20 °C, sem resultar em danos das partes internas ou degradação das propriedades lubrificantes. Consulte a tabela (A1) para classificações de kW específicas.
No caso de ciclo intermitente, ou temperatura ambiente operacional diferente da nominal de 20°C, o valor P_t deve ser ajustado pelo fator f_t, obtido na tabela (A2), de acordo com a seguinte equação: $P_t' = P_t \times f_t$

Redutores com mais de 2 reduções e/ou relação de transmissão maior que i = 45 geralmente não necessitam a verificação do limite térmico já que nesses casos a classificação térmica geralmente excede a classificação mecânica.

(A 1)

P_t [kW] 20 °C		
	n_1 = 1200 rpm	n_1 = 1800 rpm
C 05 2	—	—
C 12 2	—	—
C 22 2	—	—
C 32 2	—	5.1
C 36 2	6.5	6.0
C 41 2	8.0	7.4
C 51 2	11.0	10.1
C 61 2	14.0	12.9
C 70 2	21	19.4
C 80 2	32	30
C 90 2	43	40
C 100 2	59	54

P_t [kW] 20 °C		
	n_1 = 1200 rpm	n_1 = 1800 rpm
A 05 2	2.0	1.9
A 10 2	2.1	1.9
A 20 2	6.0	5.8
A 30 2	8.0	7.6
A 35 2	9.5	9.1
A 41 2	11.5	11.0
A 50 2	20	19.4
A 55 2	21	20
A 60 2	27	26
A 70 3	31	29
A 80 3	44	41
A 90 3	64	60

P_t [kW] 20 °C		
	n_1 = 1200 rpm	n_1 = 1800 rpm
F 10 2	3.8	3.5
F 20 2	9.1	8.4
F 25 2	10.2	9.4
F 31 2	11.7	10.8
F 41 2	14.3	13.2
F 51 2	21.6	19.4
F 60 3	26.1	24
F 70 3	36.5	34
F 80 3	52	48
F 90 3	75	69

P_t [kW] 20 °C		
	n_1 = 1200 rpm	n_1 = 1800 rpm
S 10 1	5.5	5.3
S 20 1	7.8	7.6
S 30 1	10.0	9.7
S 40 1	15.6	15.2
S 50 1	21.0	20.4

(A 2)

f_t					
t_a °C	Ciclo contínuo	Ciclo intermitente			
		Grau de intermitência [I]			
		80%	**60%**	**40%**	**20%**
40	0.80	1.1	1.3	1.5	1.6
30	0.85	1.3	1.5	1.6	1.8
20	1.0	1.5	1.6	1.8	2.0
10	1.15	1.6	1.8	2.0	2.3

Onde o fator de duração cíclica (I)% é a relação entre o tempo de operação sob carga t_f e o tempo total ($t_f + t_r$) expresso como porcentagem.

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \qquad (2)$$

A condição a ser verificada é:

$$P_{r1} \leq P_t \times f_t \qquad (3)$$

5 EFICIÊNCIA

5.1 Eficiência dinâmica η_d

Obtida da relação entre a potência gerada P_2 e a potência de entrada P_1, de acordo com a seguinte equação:

$$\eta_d = \frac{P_2}{P_1} \cdot 100 \qquad [\%] \qquad (4)$$

(A 3)

	**2 x** 	**3 x** 	**4 x** 
η_d	95%	93%	90%

	**2 x** 	**3 x** 	**4 x** 
η_d	94%	91%	89%

	**2 x** 	**3 x** 	**4 x** 
η_d	95%	93%	90%

	**1 x** 
η_d	98%

6 RELAÇÃO DE TRANSMISSÃO i

O valor da relação de transmissão é mencionado com a letra [i] e calculado através da relação entre a velocidade de entrada n_1 e a velocidade de saída n_2:

$$i = \frac{n_1}{n_2} \quad (5)$$

A relação de transmissão é geralmente um número decimal que neste catálogo é truncado em um dígito após a vírgula (sem decimais para i > 1000).
Se houver interesse em saber o valor exato, favor consultar a Assistência Técnica Bonfiglioli.

7 VELOCIDADE ANGULAR

7.1 Velocidade de entrada n_1 [rpm]

A velocidade está associada ao motor primário selecionado. Os valores incluídos no catálogo referem-se à velocidade de motores de velocidade simples ou dupla comuns na indústria.
Se o redutor for movido por uma transmissão externa, recomenda-se operá-lo com uma velocidade de 1400 rpm, ou inferior, a fim de otimizar as condições de operação e a vida útil.
Velocidades de entrada mais altas são permitidas, mas neste caso deve-se considerar que a classificação de torque M_{n2} é prejudicada.
Favor consultar um representante Bonfiglioli.

7.2 Velocidade de saída n_2 [rpm]

O valor da velocidade de saída n_2 é calculado pela relação entre a velocidade de entrada n_1 e a relação de transmissão i, de acordo com a equação abaixo:

$$n_2 = \frac{n_1}{i} \quad (6)$$

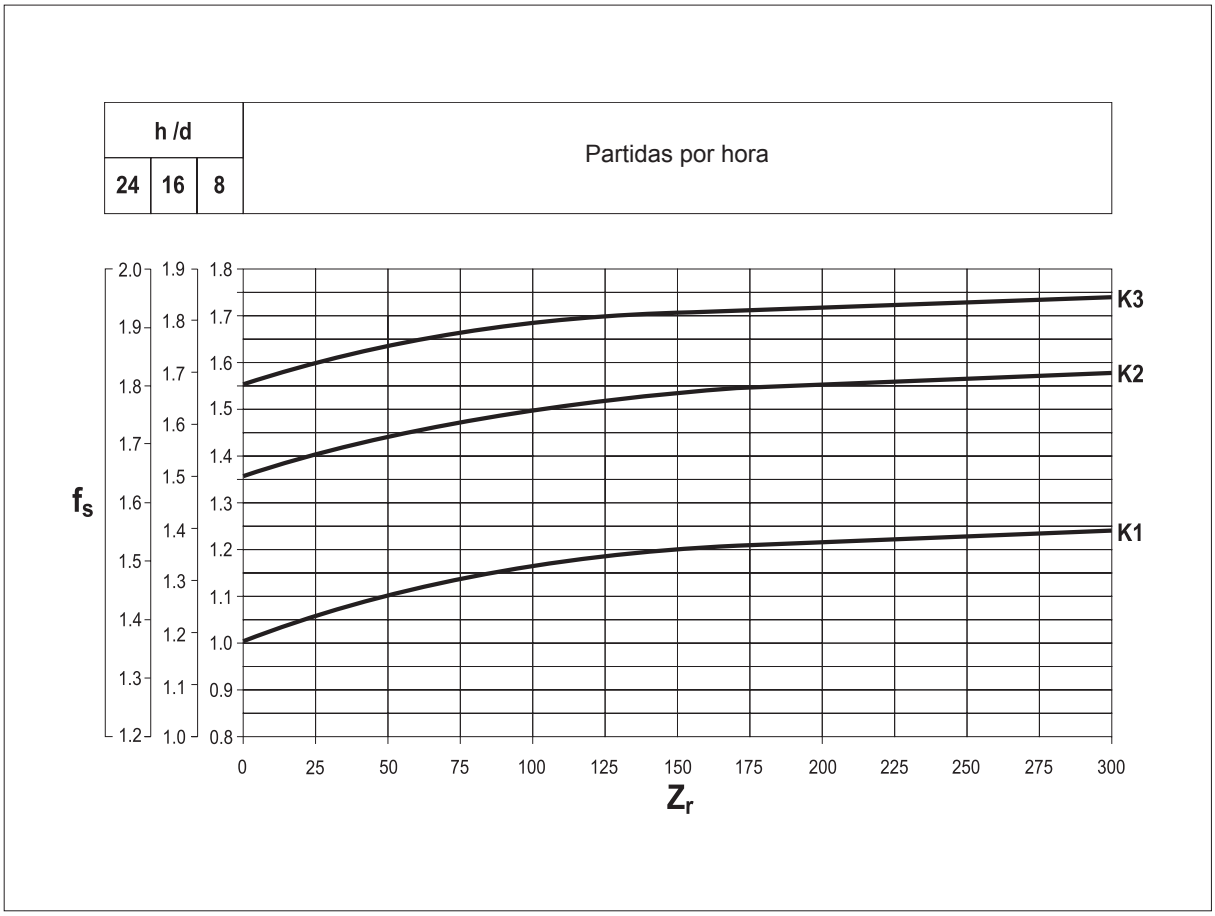
8 MOMENTO DE INÉRCIA J_r [Kgm^2]

Momentos de inércia especificados no catálogo referem-se ao eixo de entrada do redutor.
Portanto, referem-se à velocidade do motor, no caso de montagem direta no motor.

9 FATOR DE SERVIÇO f_s

Este fator é o valor numérico que descreve o ciclo de serviço de redução. Ele leva em consideração, com aproximação inevitável, as condições de operação diária, variações de carga e sobrecargas relacionadas à aplicação do redutor.
Na tabela (A4) abaixo, após selecionar a coluna “horas de operação diária” correta, o fator de serviço é obtido pela interseção do número de partidas por hora e uma das curvas K1, K2 ou K3.
Curvas K_ estão associadas à natureza do serviço (aproximadamente: uniforme, média e pesada) através do fator de aceleração de massas K, associado à relação entre os valores de massas movidas e de inércia do motor.
Independentemente do valor obtido para o fator de serviço, gostaríamos de lembrar que em algumas aplicações que, por exemplo, envolvem o içamento de peças, uma falha do redutor poderá expor os operadores ao risco de acidentes. Em caso de dúvidas, favor entrar em contato com o nosso Departamento de Assistência Técnica.

(A 4)



Os fatores de serviço listados a seguir são valores empíricos baseados especificações das normas ISO e AGMA e em nossa experiência como fabricantes em longos anos de atividade na indústria. Eles são aplicáveis a máquinas projetadas e fabricadas de acordo com a última tecnologia e operando em condições normais de funcionamento.

Aplicação	≤ 10 horário/dia	> 10 horário/dia
AGITADORES, MISTURADORES		
Líquidos de densidade constante	1.25	1.50
Líquidos com sólidos em suspensão	1.25	1.50
Líquidos com densidade variável	1.50	1.75
SOPRADORES		
Centrífugos	1.00	1.25
De lóbulo	1.25	1.50
De paleta	1.25	1.50
PURIFICADORES	1.00	1.25
MÁQUINAS PARA TRABALHAR COM ARGILA		
Prensas para tijolos	1.75	2.00
Prensas para modelar ladrilhos	1.75	2.00
Preparadores	1.25	1.50
COMPACTADORES	2.00	2.00
COMPRESSORES		
Centrífugos	1.25	1.50
De lóbulo	1.25	1.50
Alternativos, multicilíndricos	1.50	1.75
Alternativos, monocilíndricos	1.75	2.00
TRANSPORTADORES - USO GERAL		
Carga distribuída uniformemente	1.15	1.25
- Serviço pesado		
Carga distribuída de maneira não uniforme	1.25	1.50
- Alternativos ou por agitação	1.75	2.00
GRUAS (*)		
Doca seca		
Guindaste principal	2.50	2.50
Guindaste auxiliar	2.50	3.00
Guindaste com braço	2.50	3.00
Acionamento de rotação	2.50	3.00
Acionamento de translação	3.00	3.00

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Carro-ponte		
Translação de pórtico	3.00	3.00
Acionamento de translação	2.00	2.00
Uso industrial		
Guindaste principal	2.50	3.00
Guindaste auxiliar	2.50	3.00
Ponte e	3.00	3.00
translação do carro	3.00	3.00
TRITURADORES		
Pedras ou minerais	2.00	2.00
DRAGAS		
Transportadores	1.25	1.50
Acionamento das cabeças de corte	2.00	2.00
Peneiras	1.75	2.00
Empilhadeiras	1.25	1.50
Guindastes	1.25	1.50
ELEVADORES		
De caçamba	1.25	1.50
Descarga centrífuga	1.15	1.25
Escadas móveis	1.15	1.25
Carga	1.25	1.50
Descarga por gravidade	1.15	1.25
EXTRUSORAS		
Em geral	1.50	1.50
Plásticos		
Operação com velocidade variável	1.50	1.50
Operação com velocidade fixa	1.75	1.75
Borracha		
Operação de rosca contínua	1.75	1.75
Operação de rosca intermitente	1.75	1.75
VENTILADORES		
Centrífugos	1.00	1.25
Torres de refrigeração	2.00	2.00

(*) - A indicação do fator de serviço em função da classificação FEM está disponível a pedido. Consultar a Assistência Técnica da Bonfiglioli.

- Guincho para elevação de pessoas: os valores na tabela não são aplicáveis. Consultar a Assistência Técnica da Bonfiglioli.

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Ventilação forçada	1.25	1.25
Ventilação induzida	1.50	1.50
Industriais e de uso em mineração	1.50	1.50
ALIMENTADORES		
Esteiras	1.25	1.50
Correia	1.15	1.50
Disco	1.00	1.25
Alternativos	1.75	2.00
Rosca	1.25	1.50
INDÚSTRIA ALIMENTÍCIA		
Misturadores	1.25	1.50
Moedores de carne	1.25	1.50
Máquinas de fatiar	1.25	1.50
GERADORES DE CORRENTE ELÉTRICA	1.00	1.25
MOINHOS DE MARTELO	1.75	2.00
GUINCHOS (*)		
Serviço pesado	1.75	2.00
Serviço médio	1.25	1.50
Guincho de caçamba	1.25	1.50
INDÚSTRIA MADEIREIRA		
Máquinas descascadoras – avanço do mandril	1.25	1.50
Acionamento principal	1.75	1.75
Transportadores – queimadores	1.25	1.50
Serviço principal ou pesado	1.50	1.50
Tronco principal	1.75	2.00
Serra circular	1.25	1.50
Transportadores		
Chapa	1.75	2.00
Transferência	1.25	1.50
Correntes		
Piso	1.50	1.50
Movimento contínuo	1.50	1.75
Serras manuais		
Corrente	1.50	1.75
Tração	1.50	1.75
Cilindros de descascamento	1.75	2.00
Alimentação		
Cortadora longitudinal	1.25	1.50
Lâminas múltiplas	1.75	1.75
Cortadora	1.25	1.50
Empilhadeira de troncos	1.75	1.75

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Transportadores de troncos – inclinados – sobre rodas	1.75	1.75
Dispositivos de virar troncos	1.75	1.75
Alimentação da plaina	1.25	1.50
Elevadores para virar troncos	1.50	1.50
De rolos	1.75	1.75
Mesa de seleção	1.25	1.50
Elevador com piso basculante	1.25	1.50
Transbordadores		
Corrente	1.50	1.75
Pistas	1.50	1.75
Acionamento de bandejas	1.25	1.50
Acionamento de tornos de folheados	1.25	1.50
METALÚRGICAS		
Empurradores de chapas	1.50	1.50
Tesouras	2.00	2.00
Trefiladoras	1.25	1.50
Bobinadoras	1.50	1.50
MOINHOS ROTATIVOS		
Bola e barra	2.00	2.00
Coroa dentada cilíndrica	2.00	2.00
Coroa dentada helicoidal	1.50	1.50
Conexão direta	2.00	2.00
Fornos de cimento	1.50	1.50
Secadores e refrigeradores	1.50	1.50
MISTURADORES		
Concreto	1.50	1.75
FÁBRICAS DE PAPEL		
Agitadores (misturadores)	1.50	1.50
Agitadores para lixívia pura	1.25	1.25
Cilindros de descascamento	2.00	2.00
Descascadores – mecânicos	2.00	2.00
Purificador	1.50	1.50
Esfarrapadeira	1.25	1.25
Calandra	1.25	1.25
Triturador	2.00	2.00
Alimentador de cavacos	1.50	1.50
Cilindros de revestimento	1.25	1.25
Transportadores		
Cavacos, cascas, substâncias químicas	1.25	1.25
Tronco (mesa incluída)	2.00	2.00

(*) - A indicação do fator de serviço em função da classificação FEM está disponível a pedido. Consultar a Assistência Técnica da Bonfiglioli.

- Guincho para elevação de pessoas: os valores na tabela não são aplicáveis. Consultar a Assistência Técnica da Bonfiglioli.

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Prensa de sucção	1.25	1.25
Fresa	2.00	2.00
Impressoras cilíndricas	1.25	1.25
Secadoras		
Máquina contínua	1.25	1.25
Tipo transportadora	1.25	1.25
Gofradoras	1.25	1.25
Extrusoras	1.50	1.50
Máquina para refinar a polpa	1.50	1.50
Acionamento de forno	1.50	1.50
Bobinas de papel	1.25	1.25
Prato	1.50	1.50
Prensas – feltro e sucção	1.25	1.25
Desagregadores (Pulpers)	2.00	2.00
Bombas – a vácuo	1.50	1.50
Bobina (tipo superficial)	1.25	1.25
Peneiras		
Cavacos	1.50	1.50
Rotativas	1.50	1.50
Vibradoras	2.00	2.00
Prensa de colagem	1.25	1.25
Supercalandra	1.25	1.25
Adensador (motor de CA)	1.50	1.50
Adensador (motor de CC)	1.25	1.25
Lavadora (motor de CA)	1.50	1.50
Lavadora (motor de CC)	1.25	1.25
Suporte de bobinagem e desbobinagem	1.25	1.50
Bobina (tipo superficial)	1.25	1.25
Secadoras Yankee	1.25	1.25
INDÚSTRIA DE PLÁSTICOS		
Misturadores de lote	1.75	1.75
Misturadores contínuos	1.50	1.50
Equipamento de mistura	1.25	1.25
Calandras	1.50	1.50
Processamento secundário		
Equipamento de moldagem por sopro	1.50	1.50
Revestimento	1.25	1.25
Película	1.25	1.25
Pré-mastigadores	1.50	1.50
Barras	1.25	1.25

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Chapa	1.25	1.25
Tubos	1.25	1.50
BOMBAS		
Centrífugas	1.15	1.25
Alternativas		
De ação simples, três ou mais cilindros	1.25	1.50
De ação dupla, dois ou mais cilindros	1.25	1.50
Rotativas		
Tipo de engrenagem	1.15	1.25
De lóbulo	1.15	1.25
De palheta	1.15	1.25
INDÚSTRIA DA BORRACHA		
Misturadores internos intensivos		
Misturadores de lote	1.75	1.75
Misturadores contínuos	1.50	1.50
Refinador – dois cilindros	1.50	1.50
Calandras	1.50	1.50
MOINHO PARA AREIA	1.25	1.50
DISPOSITIVOS PARA TRATAMENTO DE ESGOTOS		
Aeradores	2.00	2.00
Alimentadores de substâncias químicas	1.25	1.25
Telas de desidratação	1.50	1.50
Escumador	1.50	1.50
Misturador lento ou rápido	1.50	1.50
Coletor de escuma	1.25	1.25
Adensadores	1.50	1.50
Filtros a vácuo	1.50	1.50
PENEIRAS		
Lavagem a ar	1.00	1.25
Rotativos – pedra ou cascalho	1.25	1.50
Entrada de água móvel	1.00	1.25
INDÚSTRIA AÇUCAREIRA		
Cortadores de beterraba	2.00	2.00
Lâminas para cana	1.50	1.50
Esmagadores	1.50	1.50
Moinhos (extremidade de baixa velocidade)	1.75	1.75
MÁQUINAS TÊXTEIS	1.25	1.50

9.1 Fator de aceleração de massas K

Este parâmetro serve para selecionar a curva correta para o tipo de carga.
O valor é obtido pela seguinte relação:

(A 5)

$$K = \frac{J_c}{J_m}$$

→

J_c = Momento de inércia de massas movidas referidas ao eixo de transmissão do motor

J_m = Momento de inércia do motor

K ≤ 0.25	→ **K1**	Carga uniforme
0.25 < K ≤ 3	→ **K2**	Força de impacto moderada
3 < K ≤ 10	→ **K3**	Força de impacto pesada
K > 10	→	Favor consultar o Serviço de Assistência Técnica da Bonfiglioli

10 MANUTENÇÃO

Redutores com lubrificação permanente não exigem trocas de óleo periódicas.
Para outros tipos de redutores, a primeira troca de óleo deverá ser feita após aproximadamente 300 horas de operação, limpando cuidadosamente o redutor com detergentes adequados.
Não misture óleos minerais com óleos sintéticos.
Verifique o nível de óleo regularmente e troque o óleo nos intervalos indicados na tabela (A6).

(A 6)

Temperatura do óleo °C	Intervalo de troca de óleo [h]	
	Óleo mineral	Óleo sintético
< 65	8000	25000
65 - 80	4000	15000
80 - 95	2000	12500

11 SELEÇÃO

Alguns dados básicos são necessários para auxiliar na seleção correta de um redutor ou motoredutor. A tabela abaixo (A7) apresenta um breve resumo destas informações.
Para simplificar a seleção, preencha a tabela e envie uma cópia para a nossa Assistência Técnica que selecionará o redutor mais adequado à sua aplicação.

(A 7)

	Tipo de aplicação	
P_{r2}	Potência de saída a n_2 máx	.....kW
P_{r2}'	Potência de saída a n_2 min	.....kW
M_{r2}	Torque de saída a n_2 máx	.....Nm
n_2	Velocidade máxima de saída	.....rpm
n_2'	Velocidade mínima de saída	.....rpm
n_1	Velocidade máxima de entrada	.....rpm
n_1'	Velocidade mínima de entrada	.....rpm
R_{c2}	Força radial no eixo de saída	.....N
x_2	Distância de aplicação da carga (*)	.....mm
	Orientação da carga na saída	..... 
	Sentido de rotação do eixo de saída (CW-CCW) (**)	.....
R_{c1}	Força radial no eixo de entrada	.....N
x_1	Distância de aplicação da carga (*)	.....mm
	Orientação da carga na entrada	..... 
	Sentido de rotação do eixo de entrada (CW-CCW) (**)	.....
A_{c2}	Carga axial no eixo de saída (+/–)(***)	.....N

A_{c1}	Carga axial no eixo de entrada (+/–)(***)	.....N
J_c	Momento de inércia da carga	.....Kgm^2
t_a	Temperatura ambiente	.....C°
	Altitude acima do nível do mar	.....m
	Tipo de ciclo de acordo com as normas IEC	S...../.....%
Z	Frequência de partidas	.....1/h
	Tensão do motor	V
	Tensão do freio	V
	Frequência	.....Hz
M_b	Torque de freio	.....Nm
	Grau de proteção do motor	IP.....
	Classe de isolamento	.....

(*) A distância x1-2 é entre o ponto de aplicação de força e batente mecânico do eixo (caso não seja indicada, a força atuante no ponto médio da extensão do eixo será considerada).

(**) CW = sentido horário;
CCW = sentido anti-horário

(***) + = compressão
– = tração

11.1 Seleção de redutor

a) Determine o fator de serviço f_s de acordo com o tipo de ciclo (fator K), número de partidas por hora Z_r e horas de operação.

b) Com os valores de torque M_{r2}, velocidade n_2 e eficiência η_d, a potência de entrada necessária pode ser calculada através da equação:

$$P_{r1} = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta_d} \text{ [kW]} \quad (7)$$

O valor de η_d para o redutor em epígrafe pode ser classificado a partir do parágrafo 5.

c) Consulte as tabelas de seleção de redutor e localize a tabela correspondente à potência normalizada P_n:

$$P_n \geq P_{r1} \quad (8)$$

Salvo especificado de outro modo, a potência P_n dos motores indicados no catálogo refere-se ao ciclo contínuo S1. Para motores usados em condições diferentes de S1, o tipo de ciclo exigido por referência às Normas CEI 2-3/IEC 34-1 deve ser mencionado.
Para ciclo de S2 até S8 especificamente e para quadros de motor 132 ou menores, potência extra pode ser obtida em relação ao ciclo contínuo.
Por conseguinte, a seguinte condição deve ser satisfeita:

$$P_n \geq \frac{P_{r1}}{f_m} \quad (9)$$

O fator de ajuste f_m pode ser obtido na tabela (A8).

11.2 Relação de intermitência

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (10)$$

t_f = tempo de operação a carga constante
t_r = tempo de descanso

(A 8)

	CICLO						
	S2			**S3***			**S4 - S8**
	Duração do ciclo [min]			Fator de duração de ciclo (l)			Favor entrar em contato conosco
	10	**30**	**60**	**25%**	**40%**	**60%**	
f_m	1.35	1.15	1.05	1.25	1.15	1.1	

* A duração do ciclo, em qualquer caso, deve ser de 10 minutos ou menos. Se for maior, favor entrar em contato com a nossa Assistência Técnica.

A seguir, consulte a seção $\mathbf{P_n}$ adequada dentro das tabelas de seleção de redutor e localize a unidade com a velocidade de saída desejada $\mathbf{n_2}$, ou o mais perto disso, juntamente com um fator de segurança **S** que atenda ou exceda o fator de serviço aplicável $\mathbf{f_s}$.

O fator de segurança é assim definido:

$$S = \frac{M_{n2}}{M_2} = \frac{P_{n1}}{P_1} \quad (11)$$

Por padrão, as combinações de redutor e motor são implantadas com motores de 2, 4 e 6 polos, fornecidos com 60 Hz.
Caso a velocidade de transmissão seja diferente de 3600, 1800 ou 1200 rpm^{-1}, baseie a seleção na classificação nominal do redutor.

11.3 Seleção de redutor de velocidade e redutor com adaptador para motor

a) Determine o fator de serviço f_s.

b) Supondo que o torque de saída exigido para a aplicação M_{r2} é conhecido, o cálculo do torque pode ser então definido como:

$$M_{c2} = M_{r2} \cdot f_s \quad (12)$$

c) A relação de transmissão é calculada de acordo com a velocidade de saída solicitada n_2 e a velocidade de transmissão n_1:

$$i = \frac{n_1}{n_2} \quad (13)$$

Quando os valores M_{c2} e [i] forem conhecidos, consulte as tabelas de classificação para a velocidade de entrada n_1 adequada e localize o redutor com a relação de transmissão mais próxima de [i] e que também ofereça um valor de torque nominal M_{n2} de modo que:

$$M_{n2} \geq M_{c2} \quad (14)$$

Se um motor IEC normalizado tiver de ser equipado, a compatibilidade geométrica com o redutor referida no parágrafo “DISPONIBILIDADE DO MOTOR” seja verificada.

12 VERIFICAÇÃO

Depois de selecionar o redutor de velocidade, ou redutor, recomenda-se fazer as seguintes verificações:

a) Capacidade térmica
Verifique se a capacidade térmica do redutor é igual ou maior que a potência exigida pela aplicação de acordo com a equação (3) contida na página 6.
Se esta condição não for verificada, selecione um redutor maior ou aplique um sistema de refrigeração forçada.

b) Torque máximo
O torque máximo (previsto como carga de pico instantâneo) aplicável ao redutor não deve, de modo geral, exceder 200% do torque nominal M_{n2}. Portanto, verifique se este limite não foi excedido, usando dispositivos adequados de limitação de toque, se necessário.
Para motores trifásicos com velocidade dupla, é importante prestar atenção ao torque de comutação gerado ao comutar a velocidade de alta para baixa, porque poderia ser significativamente maior do que o torque máximo.
Uma forma simples e econômica de minimizar a sobrecarga é alimentar somente duas fases do motor durante a comutação (o tempo de partida em duas fases pode ser controlado com um relé de tempo):

$M_{g2} = 0{,}5 \cdot M_{g3}$
M_{g2} = Torque de comutação com partida em duas fases
M_{g3} = Torque de comutação com partida em três fases

Em qualquer caso, recomendamos contatar nossa Assistência Técnica.

c) Cargas radiais
Verifique se as cargas radiais aplicadas sobre o eixo de entrada e/ou saída estão dentro dos valores permitidos no catálogo.
Se forem maiores, considere projetar um arranjo de rolamentos diferente antes de mudar para um redutor maior.
Os valores do catálogo para cargas radiais nominais referem-se ao ponto médio do eixo em estudo.
Se o ponto de aplicação da carga radial estiver localizado além disso, a capacidade de carga revisada deve ser ajustada conforme as instruções fornecidas neste manual.
Consulte os parágrafos relativos a cargas radiais.

d) Cargas axiais
A carga axial real deve ficar dentro de 20% da respectiva capacidade de carga radial.
Se uma carga axial extremamente alta, ou uma combinação de carga radial e carga axial for aplicável, consulte a Assistência Técnica Bonfiglioli.

e) Partidas por hora
Para ciclos com alto número de comutações, a capacidade real de partidas na condição carregado [Z] deve ser calculada.
O número real de partidas por hora deve ser menor que o valor desse modo calculado.

13 INSTALAÇÃO

As instruções de instalação abaixo devem ser observadas:

a) Verifique se o redutor foi corretamente fixado para evitar vibrações.
Caso possa haver choques ou sobrecargas, instale acoplamentos hidráulicos, embreagens, limitadores de torque, etc.

b) Antes do revestimento com tinta, as superfícies usinadas e a face exterior dos retentores de óleo deverão ser protegidas a fim de evitar a secagem da tinta fora da borracha e o comprometimento da função de retenção.

c) Peças instaladas no eixo de saída do redutor devem ser usinadas com a tolerância ISO H7 para evitar ajustes forçados que poderiam danificar o próprio redutor.
Além disso, para montar ou remover essas peças, use puxadores ou extratores adequados usando o furo roscado localizado na parte superior da extensão do eixo.

d) As superfícies de contato devem ser limpas e tratadas com produtos de proteção adequados antes da montagem para evitar a oxidação e, consequentemente, a gripagem das peças.

e) Antes de colocar o redutor em operação, verifique se o equipamento que incorpora o redutor está em conformidade com a atual revisão da Diretiva de Máquinas 2006/42/EC.

f) Antes de iniciar a máquina, verifique se o nível de óleo está em conformidade com a posição de montagem especificada para o redutor e se a viscosidade é adequada (consulte o Manual do Usuário disponível no site: www.bonfiglioli.com).

g) Para instalação ao ar livre, forneça proteções adequadas para proteger a unidade de chuvas e da radiação solar direta.

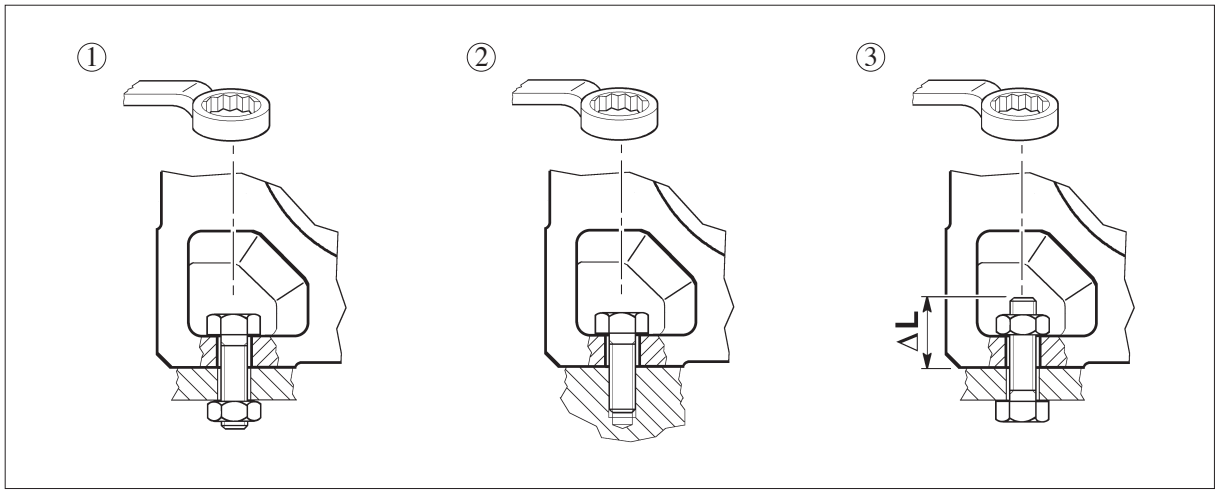
13.1 Instalação de servomotores em redutores com um dispositivo de fixação (adaptador tipo SC)

Gire o dispositivo de fixação até que seu encaixe fique alinhado a aqueles frisados no eixo de entrada do redutor. Se o eixo do motor tiver uma chave, ela deverá ser removida e a chaveta pertinente também deverá ser alinhada aos encaixes do dispositivo de fixação e ao eixo de entrada do redutor antes da colocação do servomotor no lugar. A chaveta deverá ficar do mesmo lado do parafuso de travamento. Aperte os parafusos que fixam o servomotor no redutor, insira um torquímetro no furo na lateral do flange e aperte o parafuso de travamento do dispositivo de fixação de acordo com o torque especificado na seção de desenho do referido adaptador.

14 INSTRUÇÕES DE INSTALAÇÃO

Os esquemas contidos na tabela (A9) mostram os 3 padrões de instalação possíveis para redutores A no quadro da máquina.
Para cada uma destas circunstâncias, a tabela (A10) indica os tamanhos de parafusos de cabeça hexagonal que devem ser utilizados. Além disso, para facilitar a instalação, sugerimos o uso de uma chave do tipo mostrado na tabela (A9).

(A 9)



(A 10)

	Tipo de parafuso			
	①	②	③	**ΔL** [*mm* / in]
A 05	*M8x22*	*M8x20*	*M8x ...*	*22* / 0.866
A 10	*M8x25*	*M8x20*	*M8x …*	*20* / 0.787
A 20	*M8x25*	*M8x20*	*M8x …*	*20* / 0.787
A 30	*M10x30*	*M10x25*	*M10x …*	*25* / 0.984
A 35	*M10x30*	*M10x25*	*M10x ...*	*25* / 0.984
A 41	*M12x35*	*M12x30*	*M12x …*	*30* / 1.181

	Tipo de parafuso			
	①	②	③	**ΔL** [*mm* / in]
A 50	*M14x45*	*M14x40*	*M14x …*	*35* / 1.378
A 55	*M14x40*	*M14x40*	*M14x ...*	*35* / 1.378
A 60	*M16x50*	*M16x45*	*M16x …*	*40* / 1.575
A 70	*M20x60*	*M20x55*	*M20x …*	*45* / 1.772
A 80	*M24x70*	*M24x65*	*M24x …*	*55* / 2.165
A 90	*M24x90*	*M24x80*	*M24x …*	*65* / 2.559

15 ARMAZENAMENTO

Observe as instruções abaixo para garantir o armazenamento correto dos produtos:

a) Não armazene ao ar livre, em áreas expostas ao tempo ou com umidade excessiva.

b) Sempre coloque placas, madeira ou outro material entre os produtos e o chão.
Os redutores não devem ter contato direto com o chão.

c) No caso de armazenamento a longo prazo, todas as superfícies usinadas, tais como flanges, eixos e acoplamentos devem ser revestidos com um produto antiferrugem adequado (Mobilarma 248 ou equivalente).

Além disso, os redutores devem ser colocados com o bujão de abastecimento na posição mais alta e enchidos de óleo. Antes de colocar as unidades em operação, a quantidade e o tipo adequados de óleo deverão ser restaurados.

16 CONDIÇÕES DE FORNECIMENTO

Os redutores são fornecidos da seguinte forma:

a) configurados para instalação na posição de montagem especificada no pedido;

b) testados de acordo com as especificações do fabricante;

c) combinando com as superfícies usinadas - sem pintura;

d) porcas e parafusos são fornecidos para montagem dos motores;

e) os eixos são protegidos durante o transporte por tampas de plástico;

f) fornecidos com alça de suspensão (quando aplicável).

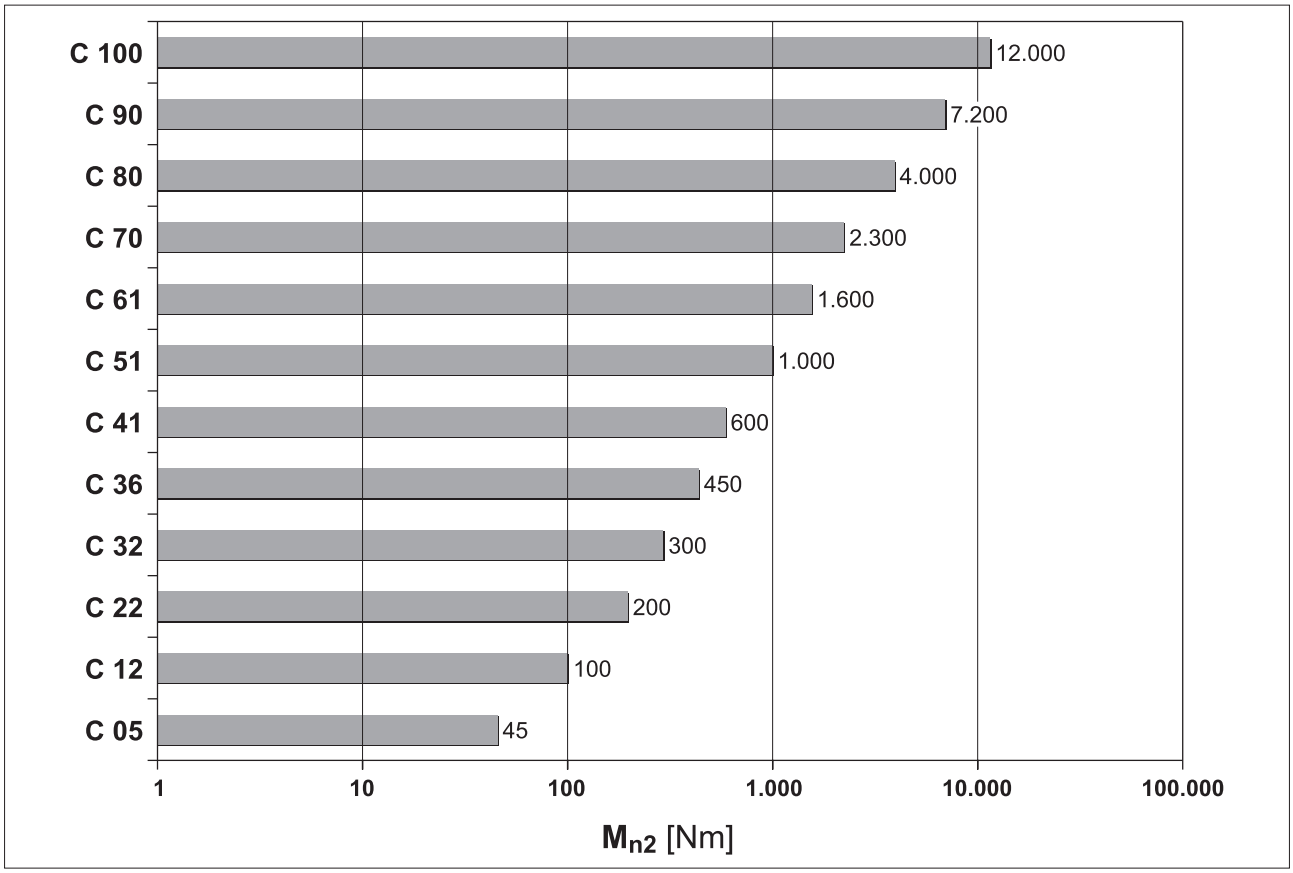
17 ESPECIFICAÇÕES DE PINTURA

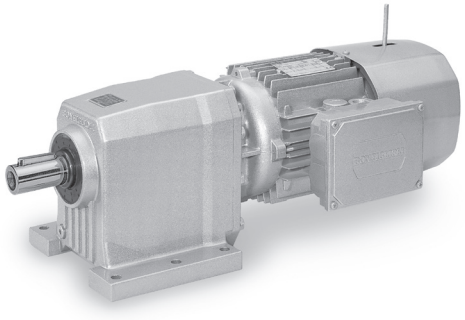
Especificações de pintura aplicadas aos redutores (quando aplicável) poderão ser obtidas junto às filiais ou revendedores que forneceram as unidades.

18 CARACTERÍSTICAS DE PROJETO

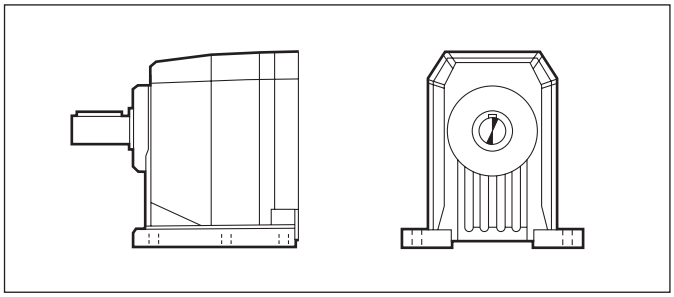
As principais características de projeto são:
- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 05, 12, 22 e 32.
- Tamanhos de quadro maiores vêm em caixas de ferro fundido de alta resistência
- eixos de entrada e saída feitos com aço de alta qualidade.

(B 11)





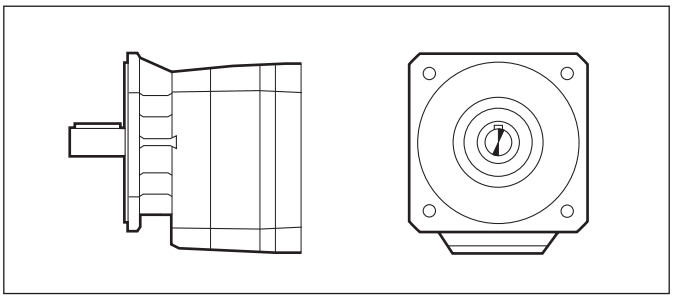
19 VERSÕES



P - NP

Montagem com pés

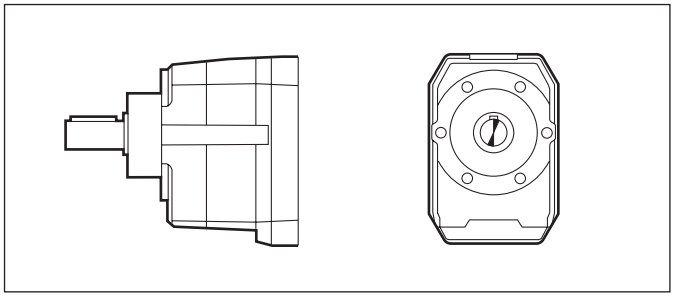
C 05 ... C 100



F - NF

Montagem com flange

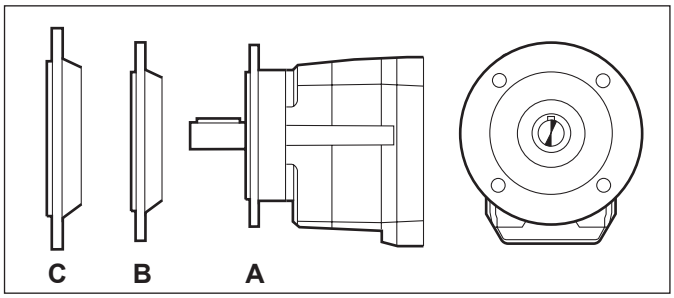
C 05 ... C 32
C 70 ... C 100



U - NU

UNIBOX- caixa universal

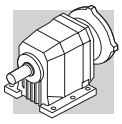
C 12 ... C 61



UF - NUF

UNIBOX flange parafusado

C 12 ... C 61



20 DESIGNAÇÃO

REDUTORES

C 32 2 F 52.4 S1 B5 .....

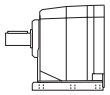
OPÇÕES

POSIÇÃO DE MONTAGEM

C...P: **B3** (Padrão), B6, B7, B8, V5, V6

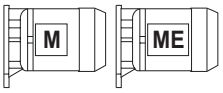
C...F/U/UF: **B5** (Padrão), B51, B53, B52, V1, V3

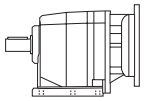
CONFIGURAÇÃO DE ENTRADA



(C05...C100)

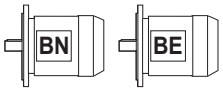
S05 ... S5

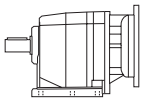




(C12...C100)

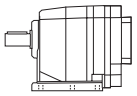
IEC_ **P63 ... P180**





(C12...C100)

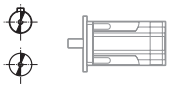
NEMA_ **N56C ... N320TC**

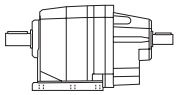


(C12...C61)

SK_

SC_



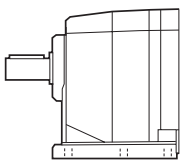


(C12...C100)

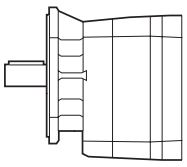
HS **NHS**

RELAÇÃO DE TRANSMISSÃO

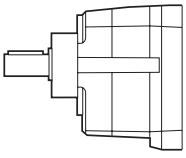
VERSÃO



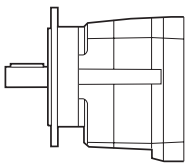
P - NP
(C05...C100)



F - NF
(C05...C32)
(C70...C100)



U - NU
(C12...C61)

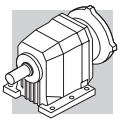


UFA - NUFA
UFB - NUFB
UFC - NUFC
(C12...C61)

REDUÇÕES
2, **3**, **4**

TAMANHO DO QUADRO DE ENGRENAGEM
05, **12**, **22**, **32**, **36**, **41**, **51**, **61**, **70**, **80**, **90**, **100**

TIPO: **C** = helicoidal coaxial



MOTOR | FREIO

M 1LA 4 230/400-60 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPÇÕES

ALIMENTAÇÃO DO FREIO

TIPO DE RETIFICADOR AC/DC
NB, **SB**, **NBR**, **SBR**

LIBERAÇÃO MANUAL DO FREIO
R, **RM**

TORQUE DE FRENAGEM

TIPO DE FREIO
FD (freio d.c.)
FA (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS
W (padrão), **N**, **E**, **S**

MONTAGEM DO MOTOR
— (motor compacto)
B5 (motor - IEC)

CLASSE DE ISOLAMENTO
CL F padrão
CL H opção

GRAU DE PROTEÇÃO
IP55 padrão (**IP56** opção)
IP54, **IP55** freio motor

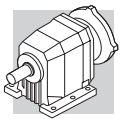
TENSÃO - FREQUÊNCIA

NÚMERO DE POLOS
2, **4**, **6**

TAMANHO DO MOTOR
0B ... 5LA (motor compacto)
63A ... 280M (motor IEC)

TIPO DE MOTOR
ME = trifásico compacto, classe IE2 **M** = trifásico compacto
BE = IEC trifásico, classe IE2 **BN** = trifásico IEC

NEMA = Trifásico a ser especificado conforme ordem



20.1 Opções de redutor

SO
Os redutores C05, C12, C22, C32, C36, C41, geralmente preenchidos com óleo pela fábrica, são fornecidos sem lubrificação.

LO
Os redutores C51, C61, C70, C80, C90, C100, geralmente fornecidos sem óleo, devem ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI REDUTORES de acordo com a posição de montagem especificada.

DL
O eixo de saída possui um retentor de óleo duplo.

DV
Retentores de óleo duplos no eixo de entrada. (Disponível apenas para motorredutores integrais).

VV
Retentor de óleo em fluorelastômero no eixo de entrada.

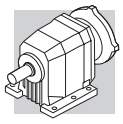
PV
Os eixos de entrada e saída possuem retentores de óleo em Fluoroelastômero.

RB
Os redutores C12, C22, C32, C36, C41, C51 e C61, geralmente fornecidos com valores padrão de folga angular, são, neste caso, fornecidos com valores reduzidos de folga angular.
A tabela a abaixo especifica os respectivos valores de folga angular.

(B 12)

		standard			RB	
C 05	i =	5.5 ; 9.3 ; 15.6 ; 27.1	6.7 ; 7.4 ; 11.2 ; 12.5 ; 18.9 ; 21.0 ; 32.8_44.7		—	
	φ [']	**34**	**29**			
C 12	i =	2.8_6.2	7.6_66.2		2.8_6.2	7.6_66.2
	φ [']	**55**	**29**		**—**	**13**
C 22	i =	2.7_6.1	7.1_261.0		2.7_6.1	7.1_261.0
	φ [']	**47**	**25**		**—**	**12**
C 32	i =	2.9_6.3	7.2_274.7		2.9_6.3	7.2_274.7
	φ [']	**39**	**21**		**—**	**11**
C 36	i =	2.7_5.8	6.8_19.0	22.1_848.5	2.7_5.8	6.8_848.5
	φ [']	**37**	**20**	**17**	**—**	**10**
C 41 2	i =	2.7_6.0	6.4_44.8	—	2.7_6.0	6.4_44.8
	φ [']	**34**	**17**		**—**	**9**
C 41 3/4	i =	**—**	**—**	28.5_855.5	**—**	28.5_855.5
	φ [']			**15**		**9**
C 51 2	i =	2.6_5.6	7.0_57.0	—	2.6_5.6	7.0_57.0
	φ [']	**32**	**15**		**—**	**8**
C 51 3/4	i =	**—**	**—**	21.8_884.9	**—**	21.8_884.9
	φ [']			**13**		**8**
C 61 2	i =	2.8_6.0	6.7_38.0	—	2.8_6.0	6.7_38.0
	φ [']	**27**	**13**		**12**	**7**
C 61 3/4	i =	**—**	**—**	26.8_796.1	**—**	26.8_796.1
	φ [']			**11**		**7**
C 70	i =	4.6_34.7	41.3_1476		—	
	φ [']	**18**	**20**			
C 80	i =	5.6_39.1	43.5_1481		—	
	φ [']	**16**	**18**			
C 90	i =	5.2_35.1	39.4_1240		—	
	φ [']	**16**	**18**			
C 100	i =	4.9_29.6	34.3_1081		—	
	φ [']	**14**	**16**			

Para informações sobre o prazo de entrega, entre em contato com a rede de vendas Bonfiglioli.



PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(B 13)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
C3	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
C4	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores.
Se nenhuma cor específica for solicitada (ver a opção “PINTURA”), os redutores serão acabados na cor RAL 7042.
Os redutores também podem ser fornecidos com proteção de superfície para corrosividade classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.

PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(B 14)

PINTURA	Cor	número RAL
RAL7042*	Cinza Tráfego A	7042
RAL5010	Azul Genciano	5010
RAL9005	Preto de Jato	9005
RAL9006	Alumínio Branco	9006
RAL9010	Branco Puro	9010

* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

CERTIFICADOS

AC - Certificado de Conformidade
O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

CC - Certificado de Inspeção
O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

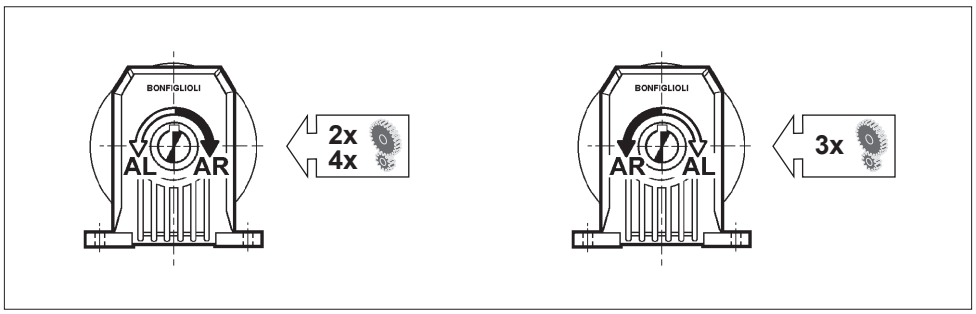
20.2 Opções de motor

AA, AC, AD
Posição mútua da alavanca de liberação do freio e caixa de terminais. Visualização pelo lado da ventoinha. Posição padrão = 90° no sentido horário. AA = 0°, AC = 180°, AD = 90° no sentido anti-horário.

AL, AR
Um dispositivo contrarrecuo instalado no próprio motor, conforme descrição na seção “Motores Elétricos” deste catálogo, está disponível para redutores com motores integrais Série M ou ME. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

CF
Filtro capacitivo.

(B 15)



D3
3 sensores bimetálicos de temperatura bobinagem, calibrados a 150°C.

E3
3 termistores de temperatura de bobinagem, calibrados a 150°C.

F1
Volante de inércia para partida e parada suaves.

H1
Aquecedores anticondensação. Tensão padrão: 1~ 230V ±10%.

PN
60 Hz de potência correspondente à potência normalizada de 50 Hz.

PS
Extensão de eixo duplo (exceto opções RC e U1).

RC
Tampa de gotejamento (exceto opção PS).

RV
Balanceamento do rotor em vibração classe B.

TC
A opção TC é uma variante de cobertura contra chuva para ambientes da indústria têxtil.
Esta opção não é compatível com as variantes EN_ .

TP
Tropicalização.

U1
Refrigeração forçada (exceto opções PS e CUS).

U2
Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

21 LUBRIFICAÇÃO

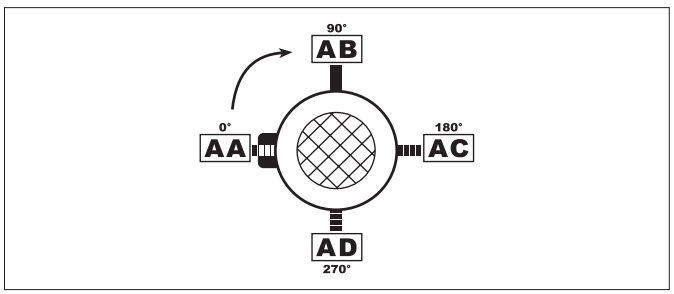
As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrifo. Quadros tamanhos C05, C12, C22, C32, C36 e C41 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo. Salvo especificado de outro modo, unidades tamanho C51 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto. Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: www.bonfiglioli.com). O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor. A operação dos redutores é permitida a temperaturas ambiente entre -20°C e +40°C. Entretanto, para temperaturas entre -20°C e -10°C, a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga. A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de -10°C, ou superior.

22 POSIÇÃO DE MONTAGEM E ORIENTAÇÃO DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

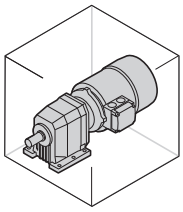
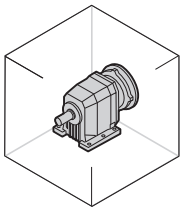
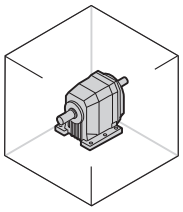
Posição angular da alavanca de liberação do freio.
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de 90° da caixa de terminais. Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.

(B 16)

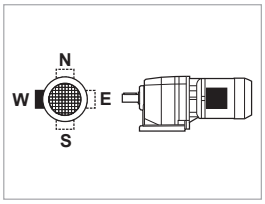


C ... P - NP

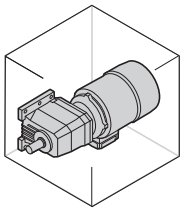
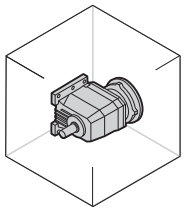
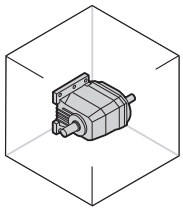
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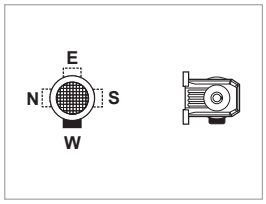
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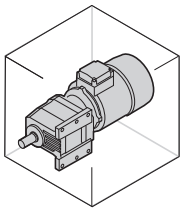
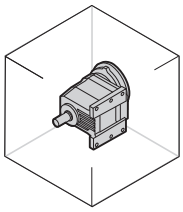
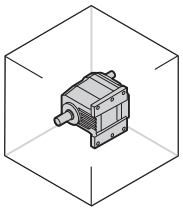
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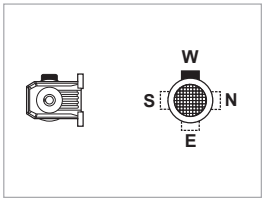
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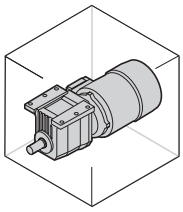
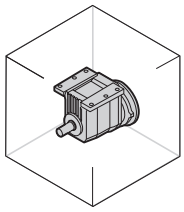
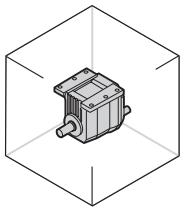
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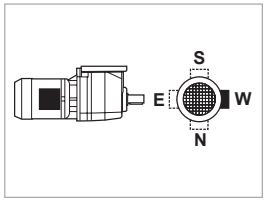
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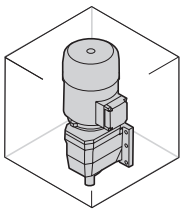
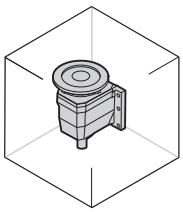
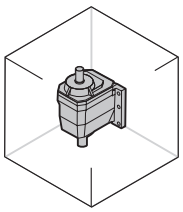
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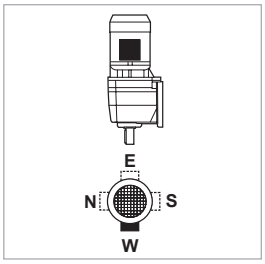
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



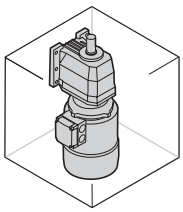
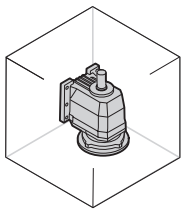
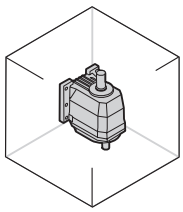
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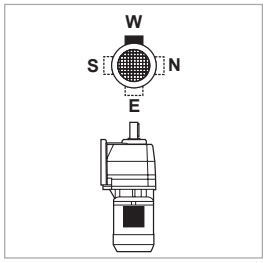
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V6

_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS

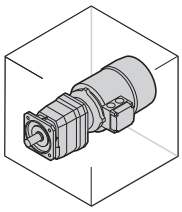
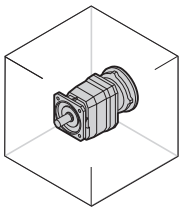
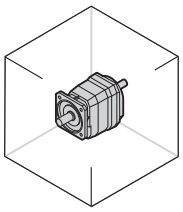


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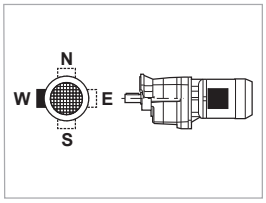
Bonfiglioli Riduttori

C ... F - NF C ... U - NU C ... UF - NUF

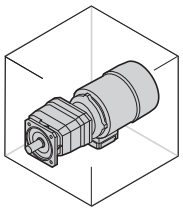
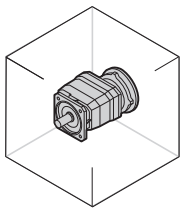
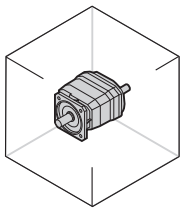
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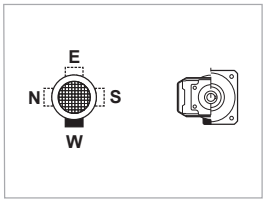
_S | _P(IEC) | _N(NEMA) | _SK / _SC | _HS | _NHS



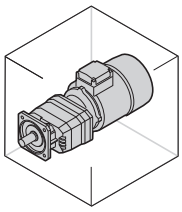
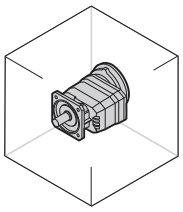
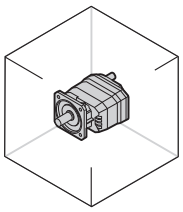
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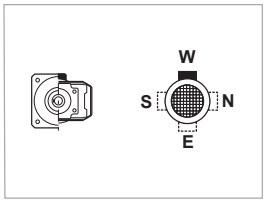
_S | _P(IEC) | _N(NEMA) | _SK / _SC | _HS | _NHS



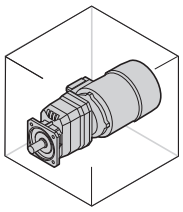
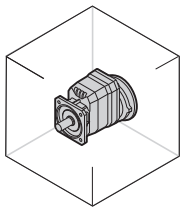
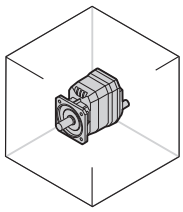
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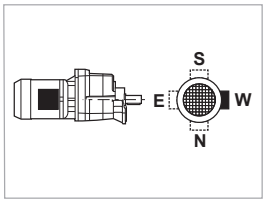
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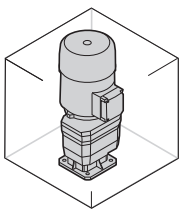
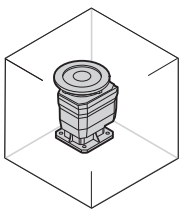
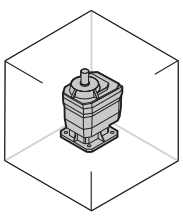
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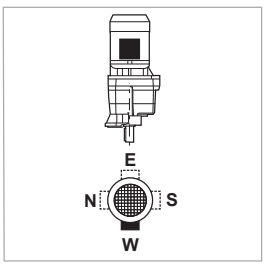
_S | _P(IEC) | _N(NEMA) | _SK / _SC | _HS | _NHS



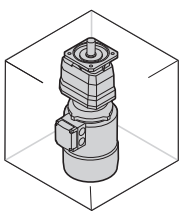
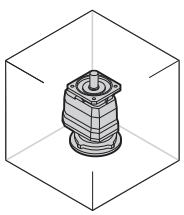
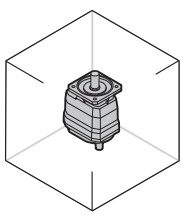
V1

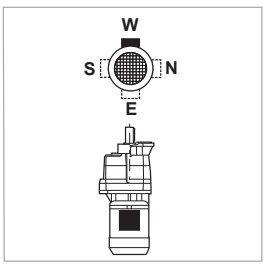
_S | _P(IEC) | _N(NEMA) | _SK / _SC | _HS | _NHS



V3

_S | _P(IEC) | _N(NEMA) | _SK / _SC | _HS | _NHS



W = Default

23 CARGAS RADIAIS

Transmissões externas chavetadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo. A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo (R_{c1} para o eixo de entrada, R_{c2} para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo (R_{n1} para o eixo de entrada, R_{n2} para o eixo de saída). Capacidade OHL informada na tabela de classificação. Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.
A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

$$R_{c1}\,[N] = \frac{2000 \cdot M_1[Nm] \cdot K_r}{d\,[mm]} \quad ; \quad R_{c2}\,[N] = \frac{2000 \cdot M_2[Nm] \cdot K_r}{d\,[mm]} \qquad (15)$$

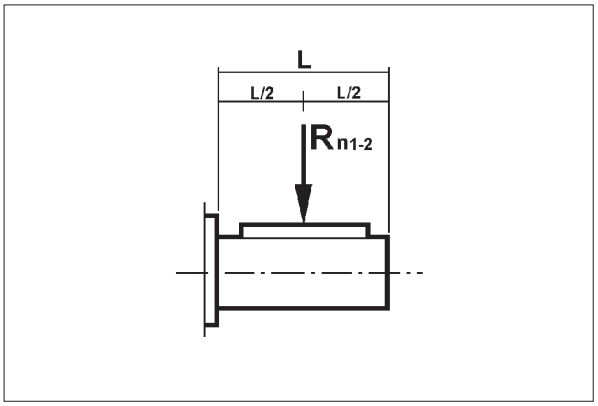
(B 17)

M_1 [Nm]	Torque aplicado ao eixo de entrada
M_2 [Nm]	Torque produzido no eixo de saída
d [in]	Diâmetro primitivo do elemento chavetado no eixo
K_r = 1	Transmissão por corrente

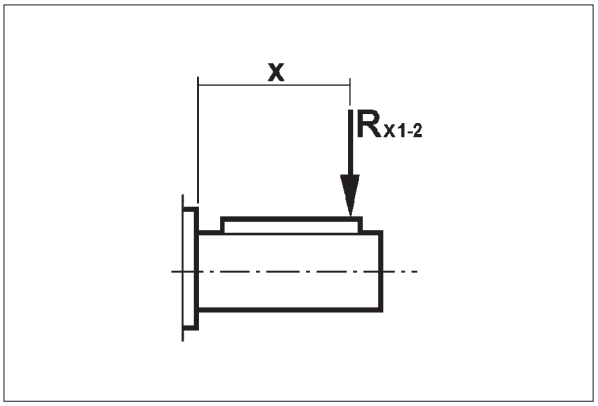
K_r = 1.25	Transmissão por engrenagem
K_r = 1.5	Transmissão por correia tipo V
K_r = 2.0	Transmissão por correia plana

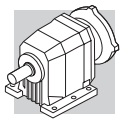
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(B 18)



(B 19)





a) Carga aplicada no ponto médio do eixo, guia. (B18)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$R_{c1} \leq R_{n1}$ [eixo de entrada]

ou

$R_{c2} \leq R_{n2}$ [eixo de saída]

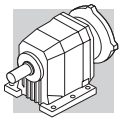
b) Carga fora da guia de ponto médio. (B19)

Quando a carga é deslocada a uma distância “x” do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância. Cargas radiais permitidas revisadas R_{x1} (entrada) e R_{x2} (saída) são calculadas respectivamente a partir dos valores nominais originais R_{n1} e R_{n2} com o fator:

$$\frac{a}{b+x} \qquad (16)$$

(B 20)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	**b**	**c**	**a**	**b**	**c**
C 05 2	38	18	250	—	—	—
C 12 2	46	26	450	21	1	300
C 22 2	53	28	550	40	20	350
C 22 3	53	28	550	21	1	300
C 32 2	60.5	30.5	750	41.5	21.5	350
C 32 3	60.5	30.5	750	21	1	300
C 36 2 - C 36 3	69.5	34.5	800	51.5	26.5	450
C 36 4	69.5	34.5	800	21	1	300
C 41 2 - C 41 3	69.5	34.5	850	51.5	26.5	450
C 41 4	69.5	34.5	850	40	20	350
C 51 2 - C 51 3	76.5	36.5	900	51.5	26.5	450
C 51 4	76.5	36.5	900	41.5	21.5	350
C 61 2 - C 61 3	95.5	45.5	1000	57.5	27.5	450
C 61 4	95.5	45.5	1000	51.5	26.5	450
C 70 2 - C 70 3	114	54	1200	86	31	1000
C 70 4	114	54	1200	49.5	24.5	450
C 80 2 - C 80 3	131	61	1500	86	31	1000
C 80 4	131	61	1500	49.5	24.5	450
C 90 2 - C 90 3	161	76	2000	116	46	1400
C 90 4	161	76	2000	49.5	24.5	450
C 100 2 - C 100 3	163.5	58.5	2500	116	46	1400
C 100 4	163.5	58.5	2500	49.5	24.5	450



O procedimento de verificação é descrito abaixo.

EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \quad (17)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (18)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (19)$$

EIXO DE SAÍDA

1. Calcular:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (20)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (21)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (22)$$

24 CARGAS AXIAIS, A_{n1}, A_{n2}

As cargas axiais permitidas nos eixos de entrada [A_{n1}] e de saída [A_{n2}] são obtidas a partir da carga radial do eixo em consideração [R_{n1}] e [R_{n2}] por meio da seguinte equação:

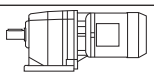
$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \quad (23)$$

As cargas axiais calculadas com estas fórmulas aplicam-se às forças axiais ocorridas ao mesmo tempo que as cargas radiais nominais. No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [A_n] equivale a 50% de OHL nominal [R_n] sobre o mesmo eixo. Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.

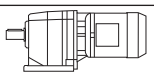
25 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

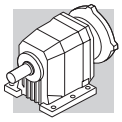
A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos. Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.

0.09 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
37	22	2.1	44.7	1066	**C052_44.7 S0 M0B4**	118		
41	20	2.3	40.3	902	**C052_40.3 S0 M0B4**	118		
46	18	2.6	36.4	893	**C052_36.4 S0 M0B4**	118		
51	16	2.8	32.8	875	**C052_32.8 S0 M0B4**	118		

0.12 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
1.1	903	2.5	1475.8	23175			**C704_1476 P63 BN63A4**	176
1.2	834	2.8	1362.3	23175			**C704_1362 P63 BN63A4**	176
1.9	542	1.8	884.9	9120			**C514_884.9 P63 BN63A4**	160
2.0	524	1.1	855.5	6370	**C414_855.5 S05 M05A4**	154	**C414_855.5 P63 BN63A4**	152
2.1	494	2.0	796.1	14624			**C614_796.1 P63 BN63A4**	168
2.2	478	1.3	780.4	6370	**C414_780.4 S05 M05A4**	154	**C414_780.4 P63 BN63A4**	152
2.2	462	1.0	754.2	5941	**C364_754.2 S05 M05A4**	146	**C364_754.2 P63 BN63A4**	144
2.3	450	1.3	735.9	6370	**C414_735.9 S05 M05A4**	154	**C414_735.9 P63 BN63A4**	152
2.4	439	2.3	717.7	9120			**C514_717.7 P63 BN63A4**	160
2.5	411	1.5	671.3	6370	**C414_671.3 S05 M05A4**	154	**C414_671.3 P63 BN63A4**	152
2.5	408	1.1	665.9	5941	**C364_665.9 S05 M05A4**	146	**C364_665.9 P63 BN63A4**	144
2.6	401	2.5	655.4	9120			**C514_655.4 P63 BN63A4**	160
2.8	368	2.7	602.0	9120			**C514_602.0 P63 BN63A4**	160
2.8	365	1.6	595.8	6370	**C414_595.8 S05 M05A4**	154	**C414_595.8 P63 BN63A4**	152
2.9	352	1.3	574.7	5941	**C364_574.7 S05 M05A4**	146	**C364_574.7 P63 BN63A4**	144
3.1	336	3.0	549.7	9120			**C514_549.7 P63 BN63A4**	160
3.1	333	1.8	543.5	6370	**C414_543.5 S05 M05A4**	154	**C414_543.5 P63 BN63A4**	152
3.3	317	1.4	517.2	5941	**C364_517.2 S05 M05A4**	146	**C364_517.2 P63 BN63A4**	144
3.4	302	2.0	493.5	6370	**C414_493.5 S05 M05A4**	154	**C414_493.5 P63 BN63A4**	152
3.7	281	1.6	458.4	5941	**C364_458.4 S05 M05A4**	146	**C364_458.4 P63 BN63A4**	144
3.8	276	2.2	450.2	6370	**C414_450.2 S05 M05A4**	154	**C414_450.2 P63 BN63A4**	152
4.0	257	1.7	420.2	5941	**C364_420.2 S05 M05A4**	146	**C364_420.2 P63 BN63A4**	144

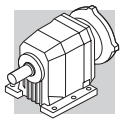


0.12 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
4.0	256	2.3	418.5	6370	**C414_418.5 S05 M05A4**	154	**C414_418.5 P63 BN63A4**	152
4.4	234	2.6	381.8	6370	**C414_381.8 S05 M05A4**	154	**C414_381.8 P63 BN63A4**	152
4.5	231	1.9	377.9	5941	**C364_377.9 S05 M05A4**	146	**C364_377.9 P63 BN63A4**	144
4.9	209	2.2	341.7	5941	**C364_341.7 S05 M05A4**	146	**C364_341.7 P63 BN63A4**	144
5.1	204	2.9	333.4	6370	**C414_333.4 S05 M05A4**	154	**C414_333.4 P63 BN63A4**	152
5.3	195	2.3	318.9	5941	**C364_318.9 S05 M05A4**	146	**C364_318.9 P63 BN63A4**	144
5.8	178	2.5	290.9	5941	**C364_290.9 S05 M05A4**	146	**C364_290.9 P63 BN63A4**	144
6.2	174	1.4	274.7	5044	**C323_274.7 S05 M05A4**	138	**C323_274.7 P63 BN63A4**	136
6.6	156	2.9	255.0	5941	**C364_255.0 S05 M05A4**	146	**C364_255.0 P63 BN63A4**	144
6.9	154	1.6	244.2	5044	**C323_244.2 S05 M05A4**	138	**C323_244.2 P63 BN63A4**	136
7.5	143	1.2	225.8	4570	**C223_225.8 S05 M05A4**	130	**C223_225.8 P63 BN63A4**	128
7.8	136	2.2	215.6	5044	**C323_215.6 S05 M05A4**	138	**C323_215.6 P63 BN63A4**	136
8.4	127	1.4	200.7	4570	**C223_200.7 S05 M05A4**	130	**C223_200.7 P63 BN63A4**	128
9.1	118	2.5	186.0	5044	**C323_186.0 S05 M05A4**	138	**C323_186.0 P63 BN63A4**	136
9.5	113	1.8	178.5	4570	**C223_178.5 S05 M05A4**	130	**C223_178.5 P63 BN63A4**	128
10.1	106	2.8	167.4	5044	**C323_167.4 S05 M05A4**	138	**C323_167.4 P63 BN63A4**	136
11.1	96	2.1	151.7	4570	**C223_151.7 S05 M05A4**	130	**C223_151.7 P63 BN63A4**	128
12.4	86	2.3	136.5	4570	**C223_136.5 S05 M05A4**	130	**C223_136.5 P63 BN63A4**	128
13.8	77	2.6	122.2	4570	**C223_122.2 S05 M05A4**	130	**C223_122.2 P63 BN63A4**	128
15.1	71	2.8	112.0	4570	**C223_112.0 S05 M05A4**	130	**C223_112.0 P63 BN63A4**	128
25.5	43	2.0	66.2	1822	**C122_66.2 S05 M05A4**	122	**C122_66.2 P63 BN63A4**	120
26.7	41	2.9	63.3	4570	**C222_63.3 S05 M05A4**	130	**C222_63.3 P63 BN63A4**	128
31	36	2.5	55.2	1822	**C122_55.2 S05 M05A4**	122	**C122_55.2 P63 BN63A4**	120
36	31	2.8	47.6	1822	**C122_47.6 S05 M05A4**	122	**C122_47.6 P63 BN63A4**	120
38	29	1.6	44.7	920	**C052_44.7 S05 M05A4**	118		
42	26	1.7	40.3	902	**C052_40.3 S05 M05A4**	118		
46	23	1.9	36.4	893	**C052_36.4 S05 M05A4**	118		
52	21	2.1	32.8	875	**C052_32.8 S05 M05A4**	118		
62	18	2.6	27.1	847	**C052_27.1 S05 M05A4**	118		

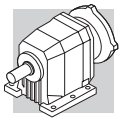
0.18 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.1	1413	2.8	1481.3	32410			**C804_1481 P63 BN63B4**	182
1.1	1408	1.6	1475.8	23175			**C704_1476 P63 BN63B4**	176
1.2	1300	1.8	1362.3	23175			**C704_1362 P63 BN63B4**	176
1.4	1105	2.1	1158.1	23175			**C704_1158 P63 BN63B4**	176
1.6	1020	2.3	1069.1	23175			**C704_1069 P63 BN63B4**	176
1.7	953	2.4	999.5	23175			**C704_999.5 P63 BN63B4**	176
1.8	880	2.6	922.6	23175			**C704_922.6 P63 BN63B4**	176
1.9	844	1.2	884.9	9120			**C514_884.9 P63 BN63B4**	160
2.1	771	1.3	808.0	9120			**C514_808.0 P63 BN63B4**	160
2.1	759	2.1	796.1	14624			**C614_796.1 P63 BN63B4**	168



0.18 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.3	693	2.3	726.3	14624			**C614_726.3 P63 BN63B4**	168
2.3	685	1.5	717.7	9120			**C514_717.7 P63 BN63B4**	160
2.5	640	0.9	671.3	6370	**C414_671.3 S05 M05B4**	154	**C414_671.3 P63 BN63B4**	152
2.5	638	2.5	668.8	14624			**C614_668.8 P63 BN63B4**	168
2.5	625	1.6	655.4	9120			**C514_655.4 P63 BN63B4**	160
2.7	582	2.7	610.1	14624			**C614_610.1 P63 BN63B4**	168
2.8	574	1.7	602.0	9120			**C514_602.0 P63 BN63B4**	160
2.8	568	1.1	595.8	6370	**C414_595.8 S05 M05B4**	154	**C414_595.8 P63 BN63B4**	152
2.9	545	2.9	571.2	14624			**C614_571.2 P63 BN63B4**	168
3.0	524	1.9	549.7	9120			**C514_549.7 P63 BN63B4**	160
3.1	519	1.2	543.5	6370	**C414_543.5 S05 M05B4**	154	**C414_543.5 P63 BN63B4**	152
3.2	493	0.9	517.2	5941	**C364_517.2 S05 M05B4**	146	**C364_517.2 P63 BN63B4**	144
3.3	485	2.1	508.0	9120			**C514_508.0 P63 BN63B4**	160
3.4	471	1.3	493.5	6370	**C414_493.5 S05 M05B4**	154	**C414_493.5 P63 BN63B4**	152
3.6	443	2.3	463.9	9120			**C514_463.9 P63 BN63B4**	160
3.6	437	1.0	458.4	5941	**C364_458.4 S05 M05B4**	146	**C364_458.4 P63 BN63B4**	144
3.7	430	1.4	450.2	6370	**C414_450.2 S05 M05B4**	154	**C414_450.2 P63 BN63B4**	152
4.0	401	1.1	420.2	5941	**C364_420.2 S05 M05B4**	146	**C364_420.2 P63 BN63B4**	144
4.0	399	1.5	418.5	6370	**C414_418.5 S05 M05B4**	154	**C414_418.5 P63 BN63B4**	152
4.0	397	2.5	415.7	9120			**C514_415.7 P63 BN63B4**	160
4.4	364	1.6	381.8	6370	**C414_381.8 S05 M05B4**	154	**C414_381.8 P63 BN63B4**	152
4.4	362	2.8	379.6	9120			**C514_379.6 P63 BN63B4**	160
4.4	361	1.2	377.9	5941	**C364_377.9 S05 M05B4**	146	**C364_377.9 P63 BN63B4**	144
4.9	326	1.4	341.7	5941	**C364_341.7 S05 M05B4**	146	**C364_341.7 P63 BN63B4**	144
5.0	318	1.9	333.4	6370	**C414_333.4 S05 M05B4**	154	**C414_333.4 P63 BN63B4**	152
5.2	304	1.5	318.9	5941	**C364_318.9 S05 M05B4**	146	**C364_318.9 P63 BN63B4**	144
5.5	290	2.1	304.2	6370	**C414_304.2 S05 M05B4**	154	**C414_304.2 P63 BN63B4**	152
5.7	278	1.6	290.9	5941	**C364_290.9 S05 M05B4**	146	**C364_290.9 P63 BN63B4**	144
6.3	251	2.4	263.0	6370	**C414_263.0 S05 M05B4**	154	**C414_263.0 P63 BN63B4**	152
6.5	243	1.8	255.0	5941	**C364_255.0 S05 M05B4**	146	**C364_255.0 P63 BN63B4**	144
6.8	241	1.0	244.2	5044	**C323_244.2 S05 M05B4**	138	**C323_244.2 P63 BN63B4**	136
7.0	229	2.6	239.9	6370	**C414_239.9 S05 M05B4**	154	**C414_239.9 P63 BN63B4**	152
7.2	220	2.0	230.9	5941	**C364_230.9 S05 M05B4**	146	**C364_230.9 P63 BN63B4**	144
7.7	213	1.4	215.6	5044	**C323_215.6 S05 M05B4**	138	**C323_215.6 P63 BN63B4**	136
8.0	206	2.9	209.1	6370			**C413_209.1 P63 BN63B4**	152
8.1	203	2.2	206.4	5941	**C363_206.4 S05 M05B4**	146	**C363_206.4 P63 BN63B4**	144
9.0	183	1.6	186.0	5044	**C323_186.0 S05 M05B4**	138	**C323_186.0 P63 BN63B4**	136
9.1	181	2.5	183.5	5941	**C363_183.5 S05 M05B4**	146	**C363_183.5 P63 BN63B4**	144
9.4	176	1.1	178.5	4570	**C223_178.5 S05 M05B4**	130	**C223_178.5 P63 BN63B4**	128
10.0	165	1.8	167.4	5044	**C323_167.4 S05 M05B4**	138	**C323_167.4 P63 BN63B4**	136
10.3	160	2.8	162.0	5941	**C363_162.0 S05 M05B4**	146	**C363_162.0 P63 BN63B4**	144
11.0	150	1.3	151.7	4570	**C223_151.7 S05 M05B4**	130	**C223_151.7 P63 BN63B4**	128
11.3	146	2.1	148.4	5044	**C323_148.4 S05 M05B4**	138	**C323_148.4 P63 BN63B4**	136
12.2	135	1.5	136.5	4570	**C223_136.5 S05 M05B4**	130	**C223_136.5 P63 BN63B4**	128
12.3	134	2.2	136.0	5044	**C323_136.0 S05 M05B4**	138	**C323_136.0 P63 BN63B4**	136

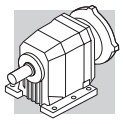


0.18 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
13.6	121	2.5	122.4	5044	**C323_122.4 S05 M05B4**	138	**C323_122.4 P63 BN63B4**	136
13.7	120	1.7	122.2	4570	**C223_122.2 S05 M05B4**	130	**C223_122.2 P63 BN63B4**	128
14.9	110	1.8	112.0	4570	**C223_112.0 S05 M05B4**	130	**C223_112.0 P63 BN63B4**	128
15.1	109	2.8	110.6	5044	**C323_110.6 S05 M05B4**	138	**C323_110.6 P63 BN63B4**	136
16.2	102	2.9	103.3	5044	**C323_103.3 S05 M05B4**	138	**C323_103.3 P63 BN63B4**	136
16.7	99	2.0	100.2	4570	**C223_100.2 S05 M05B4**	130	**C223_100.2 P63 BN63B4**	128
18.9	87	2.3	88.5	4570	**C223_88.5 S05 M05B4**	130	**C223_88.5 P63 BN63B4**	128
20.2	81	2.5	82.6	4570	**C223_82.6 S05 M05B4**	130	**C223_82.6 P63 BN63B4**	128
22.3	74	2.7	74.8	4570	**C223_74.8 S05 M05B4**	130	**C223_74.8 P63 BN63B4**	128
25.2	67	1.3	66.2	1822	**C122_66.2 S05 M05B4**	122	**C122_66.2 P63 BN63B4**	120
26.4	64	1.9	63.3	4570	**C222_63.3 S05 M05B4**	130	**C222_63.3 P63 BN63B4**	128
30	56	1.6	55.2	1822	**C122_55.2 S05 M05B4**	122	**C122_55.2 P63 BN63B4**	120
31	55	2.6	54.7	4570	**C222_54.7 S05 M05B4**	130	**C222_54.7 P63 BN63B4**	128
34	49	2.9	48.6	4570	**C222_48.6 S05 M05B4**	130	**C222_48.6 P63 BN63B4**	128
35	48	1.8	47.6	1822	**C122_47.6 S05 M05B4**	122	**C122_47.6 P63 BN63B4**	120
37	45	1.0	44.7	774	**C052_44.7 S05 M05B4**	118		
39	43	1.9	42.3	1822	**C122_42.3 S05 M05B4**	122	**C122_42.3 P63 BN63B4**	120
41	41	1.1	40.3	774	**C052_40.3 S05 M05B4**	118		
45	37	2.2	37.0	1822	**C122_37.0 S05 M05B4**	122	**C122_37.0 P63 BN63B4**	120
46	37	1.2	36.4	774	**C052_36.4 S05 M05B4**	118		
51	33	1.4	32.8	765	**C052_32.8 S05 M05B4**	118		
51	33	2.5	32.8	1822	**C122_32.8 S05 M05B4**	122	**C122_32.8 P63 BN63B4**	120
57	30	2.8	29.5	1822	**C122_29.5 S05 M05B4**	122	**C122_29.5 P63 BN63B4**	120
62	27	1.6	27.1	747	**C052_27.1 S05 M05B4**	118		
80	21	2.1	21.0	738	**C052_21.0 S05 M05B4**	118		
88	19	1.9	18.9	720	**C052_18.9 S05 M05B4**	118		
107	16	2.3	15.6	692	**C052_15.6 S05 M05B4**	118		
134	13	2.9	12.5	674	**C052_12.5 S05 M05B4**	118		
179	9	2.9	9.3	629	**C052_9.3 S05 M05B4**	118		

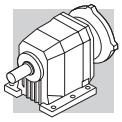
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.1	1866	2.1	1481.3	32410			**C804_1481 P71 BN71A4**	182
1.1	1859	1.2	1475.8	23175			**C704_1476 P71 BN71A4**	176
1.2	1716	1.3	1362.3	23175			**C704_1362 P71 BN71A4**	176
1.2	1711	2.3	1357.8	32410			**C804_1358 P71 BN71A4**	182
1.3	1606	2.5	1274.2	32410			**C804_1274 P71 BN71A4**	182
1.4	1472	2.7	1168.0	32410			**C804_1168 P71 BN71A4**	182
1.4	1459	1.6	1158.1	23175			**C704_1158 P71 BN71A4**	176
1.6	1347	1.7	1069.1	23175			**C704_1069 P71 BN71A4**	176
1.7	1259	1.8	999.5	23175			**C704_999.5 P71 BN71A4**	176
1.8	1162	2.0	922.6	23175			**C704_922.6 P71 BN71A4**	176
2.1	1018	1.0	808.0	9120			**C514_808.0 P71 BN71A4**	160



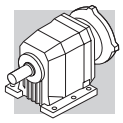
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.1	1005	2.3	797.3	23175			**C704_797.3 P71 BN71A4**	176
2.1	1003	1.6	796.1	14624			**C614_796.1 P71 BN71A4**	168
2.3	927	2.5	736.0	23175			**C704_736.0 P71 BN71A4**	176
2.3	915	1.7	726.3	14624			**C614_726.3 P71 BN71A4**	168
2.3	904	1.1	717.7	9120			**C514_717.7 P71 BN71A4**	160
2.5	843	1.9	668.8	14624			**C614_668.8 P71 BN71A4**	168
2.5	828	2.8	657.3	23175			**C704_657.3 P71 BN71A4**	176
2.5	826	1.2	655.4	9120			**C514_655.4 P71 BN71A4**	160
2.7	769	2.1	610.1	14624			**C614_610.1 P71 BN71A4**	168
2.8	759	1.3	602.0	9120			**C514_602.0 P71 BN71A4**	160
2.9	720	2.2	571.2	14624			**C614_571.2 P71 BN71A4**	168
3.0	693	1.4	549.7	9120			**C514_549.7 P71 BN71A4**	160
3.2	657	2.4	521.1	14624			**C614_521.1 P71 BN71A4**	168
3.3	640	1.6	508.0	9120			**C514_508.0 P71 BN71A4**	160
3.4	622	1.0	493.5	6370	**C414_493.5 S05 M05C4**	154	**C414_493.5 P71 BN71A4**	152
3.6	584	1.7	463.9	9120			**C514_463.9 P71 BN71A4**	160
3.6	582	2.7	462.0	14624			**C614_462.0 P71 BN71A4**	168
3.7	567	1.1	450.2	6370	**C414_450.2 S05 M05C4**	154	**C414_450.2 P71 BN71A4**	152
4.0	527	1.1	418.5	6370	**C414_418.5 S05 M05C4**	154	**C414_418.5 P71 BN71A4**	152
4.0	524	1.9	415.7	9120			**C514_415.7 P71 BN71A4**	160
4.4	481	1.2	381.8	6370	**C414_381.8 S05 M05C4**	154	**C414_381.8 P71 BN71A4**	152
4.4	478	2.1	379.6	9120			**C514_379.6 P71 BN71A4**	160
4.4	476	0.9	377.9	5941	**C364_377.9 S05 M05C4**	146	**C364_377.9 P71 BN71A4**	144
4.9	431	1.0	341.7	5941	**C364_341.7 S05 M05C4**	146	**C364_341.7 P71 BN71A4**	144
5.0	420	1.4	333.4	6370	**C414_333.4 S05 M05C4**	154	**C414_333.4 P71 BN71A4**	152
5.1	411	2.4	326.1	9120			**C514_326.1 P71 BN71A4**	160
5.2	402	1.1	318.9	5941	**C364_318.9 S05 M05C4**	146	**C364_318.9 P71 BN71A4**	144
5.5	383	1.6	304.2	6370	**C414_304.2 S05 M05C4**	154	**C414_304.2 P71 BN71A4**	152
5.6	375	2.7	297.8	9120			**C514_297.8 P71 BN71A4**	160
5.7	367	1.2	290.9	5941	**C364_290.9 S05 M05C4**	146	**C364_290.9 P71 BN71A4**	144
6.3	331	1.8	263.0	6370	**C414_263.0 S05 M05C4**	154	**C414_263.0 P71 BN71A4**	152
6.5	321	1.4	255.0	5941	**C364_255.0 S05 M05C4**	146	**C364_255.0 P71 BN71A4**	144
7.0	302	2.0	239.9	6370	**C414_239.9 S05 M05C4**	154	**C414_239.9 P71 BN71A4**	152
7.2	291	1.5	230.9	5941	**C364_230.9 S05 M05C4**	146	**C364_230.9 P71 BN71A4**	144
7.7	281	1.1	215.6	5044	**C323_215.6 S05 M05C4**	138	**C323_215.6 P71 BN71A4**	136
8.0	272	2.2	209.1	6370			**C413_209.1 P71 BN71A4**	152
8.1	269	1.7	206.4	5941			**C363_206.4 P71 BN71A4**	144
8.8	248	2.4	190.8	6370			**C413_190.8 P71 BN71A4**	152
9.0	242	1.2	186.0	5044	**C323_186.0 S05 M05C4**	138	**C323_186.0 P71 BN71A4**	136
9.1	239	1.9	183.5	5941			**C363_183.5 P71 BN71A4**	144
9.3	234	2.6	179.9	6370			**C413_179.9 P71 BN71A4**	152
10.0	218	1.4	167.4	5044	**C323_167.4 S05 M05C4**	138	**C323_167.4 P71 BN71A4**	136
10.2	214	2.8	164.1	6370			**C413_164.1 P71 BN71A4**	152
10.3	211	2.1	162.0	5941			**C363_162.0 P71 BN71A4**	144
11.0	197	1.0	151.7	4570	**C223_151.7 S05 M05C4**	130	**C223_151.7 P71 BN71A4**	128



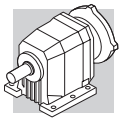
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
11.3	193	1.6	148.4	5044	**C323_148.4 S05 M05C4**	138	**C323_148.4 P71 BN71A4**	136
11.9	182	2.5	139.8	5941			**C363_139.8 P71 BN71A4**	144
12.2	178	1.1	136.5	4570	**C223_136.5 S05 M05C4**	130	**C223_136.5 P71 BN71A4**	128
12.3	177	1.7	136.0	5044	**C323_136.0 S05 M05C4**	138	**C323_136.0 P71 BN71A4**	136
13.3	164	2.7	125.8	5941			**C363_125.8 P71 BN71A4**	144
13.6	159	1.9	122.4	5044	**C323_122.4 S05 M05C4**	138	**C323_122.4 P71 BN71A4**	136
13.7	159	1.3	122.2	4570	**C223_122.2 S05 M05C4**	130	**C223_122.2 P71 BN71A4**	128
14.9	146	1.4	112.0	4570	**C223_112.0 S05 M05C4**	130	**C223_112.0 P71 BN71A4**	128
15.1	144	2.1	110.6	5044	**C323_110.6 S05 M05C4**	138	**C323_110.6 P71 BN71A4**	136
16.2	134	2.2	103.3	5044	**C323_103.3 S05 M05C4**	138	**C323_103.3 P71 BN71A4**	136
16.7	130	1.5	100.2	4570	**C223_100.2 S05 M05C4**	130	**C223_100.2 P71 BN71A4**	128
17.7	123	2.4	94.2	5044	**C323_94.2 S05 M05C4**	138	**C323_94.2 P71 BN71A4**	136
18.9	115	1.7	88.5	4570	**C223_88.5 S05 M05C4**	130	**C223_88.5 P71 BN71A4**	128
20.2	108	1.9	82.6	4570	**C223_82.6 S05 M05C4**	130	**C223_82.6 P71 BN71A4**	128
20.2	107	2.8	82.6	5044	**C323_82.6 S05 M05C4**	138	**C323_82.6 P71 BN71A4**	136
22.3	97	2.1	74.8	4570	**C223_74.8 S05 M05C4**	130	**C223_74.8 P71 BN71A4**	128
22.3	97	2.9	74.7	5044	**C323_74.7 S05 M05C4**	138	**C323_74.7 P71 BN71A4**	136
25.0	89	2.3	66.8	5044			**C322_66.8 P71 BN71A4**	136
25.2	88	1.0	66.2	1822	**C122_66.2 S05 M05C4**	122	**C122_66.2 P71 BN71A4**	120
25.6	85	2.4	65.3	4570	**C223_65.3 S05 M05C4**	130	**C223_65.3 P71 BN71A4**	128
26.4	84	1.4	63.3	4570	**C222_63.3 S05 M05C4**	130	**C222_63.3 P71 BN71A4**	128
27.8	78	2.3	60.0	4570	**C223_60.0 S05 M05C4**	130	**C223_60.0 P71 BN71A4**	128
28.1	79	2.6	59.4	5044			**C322_59.4 P71 BN71A4**	136
30	73	1.2	55.2	1822	**C122_55.2 S05 M05C4**	122	**C122_55.2 P71 BN71A4**	120
31	73	2.0	54.7	4570	**C222_54.7 S05 M05C4**	130	**C222_54.7 P71 BN71A4**	128
34	65	2.2	48.6	4570	**C222_48.6 S05 M05C4**	130	**C222_48.6 P71 BN71A4**	128
35	63	1.3	47.6	1822	**C122_47.6 S05 M05C4**	122	**C122_47.6 P71 BN71A4**	120
39	56	1.5	42.3	1822	**C122_42.3 S05 M05C4**	122	**C122_42.3 P71 BN71A4**	120
45	49	1.7	37.0	1822	**C122_37.0 S05 M05C4**	122	**C122_37.0 P71 BN71A4**	120
46	48	0.9	36.4	592	**C052_36.4 S05 M05C4**	118		
51	44	1.0	32.8	619	**C052_32.8 S05 M05C4**	118		
51	44	1.9	32.8	1822	**C122_32.8 S05 M05C4**	122	**C122_32.8 P71 BN71A4**	120
57	39	2.1	29.5	1822	**C122_29.5 S05 M05C4**	122	**C122_29.5 P71 BN71A4**	120
62	36	1.2	27.1	638	**C052_27.1 S05 M05C4**	118		
66	34	2.4	25.4	1822	**C122_25.4 S05 M05C4**	122	**C122_25.4 P71 BN71A4**	120
72	31	2.5	23.2	1822	**C122_23.2 S05 M05C4**	122	**C122_23.2 P71 BN71A4**	120
80	28	1.6	21.0	656	**C052_21.0 S05 M05C4**	118		
81	27	2.7	20.6	1822	**C122_20.6 S05 M05C4**	122	**C122_20.6 P71 BN71A4**	120
88	25	1.5	18.9	647	**C052_18.9 S05 M05C4**	118		
91	24	2.9	18.4	1822	**C122_18.4 S05 M05C4**	122	**C122_18.4 P71 BN71A4**	120
107	21	1.8	15.6	638	**C052_15.6 S05 M05C4**	118		
134	17	2.2	12.5	629	**C052_12.5 S05 M05C4**	118		
149	15	2.5	11.2	610	**C052_11.2 S05 M05C4**	118		
179	12	2.2	9.3	592	**C052_9.3 S05 M05C4**	118		
225	10	2.8	7.4	565	**C052_7.4 S05 M05C4**	118		

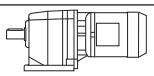


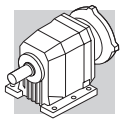
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.1	2786	1.4	1481.3	32410	**C804_1481 S1 M1SD4**	184	**C804_1481 P71 BN71B4**	182
1.3	2554	1.6	1357.8	32410	**C804_1358 S1 M1SD4**	184	**C804_1358 P71 BN71B4**	182
1.3	2397	1.7	1274.2	32410	**C804_1274 S1 M1SD4**	184	**C804_1274 P71 BN71B4**	182
1.5	2197	1.8	1168.0	32410	**C804_1168 S1 M1SD4**	184	**C804_1168 P71 BN71B4**	182
1.5	2178	1.1	1158.1	23175	**C704_1158 S1 M1SD4**	178	**C704_1158 P71 BN71B4**	176
1.6	2011	1.1	1069.1	23175	**C704_1069 S1 M1SD4**	178	**C704_1069 P71 BN71B4**	176
1.6	1941	2.1	1031.7	32410	**C804_1032 S1 M1SD4**	184	**C804_1032 P71 BN71B4**	182
1.7	1880	1.2	999.5	23175	**C704_999.5 S1 M1SD4**	178	**C704_999.5 P71 BN71B4**	176
1.8	1779	2.2	945.7	32410	**C804_945.7 S1 M1SD4**	184	**C804_945.7 P71 BN71B4**	182
1.8	1735	1.3	922.6	23175	**C704_922.6 S1 M1SD4**	178	**C704_922.6 P71 BN71B4**	176
2.0	1607	2.5	854.6	32410	**C804_854.6 S1 M1SD4**	184	**C804_854.6 P71 BN71B4**	182
2.1	1500	1.5	797.3	23175	**C704_797.3 S1 M1SD4**	178	**C704_797.3 P71 BN71B4**	176
2.1	1497	1.1	796.1	14624	**C614_796.1 S1 M1SD4**	170	**C614_796.1 P71 BN71B4**	168
2.2	1474	2.7	783.4	32410	**C804_783.4 S1 M1SD4**	184	**C804_783.4 P71 BN71B4**	182
2.3	1384	1.7	736.0	23175	**C704_736.0 S1 M1SD4**	178	**C704_736.0 P71 BN71B4**	176
2.3	1366	1.2	726.3	14624	**C614_726.3 S1 M1SD4**	170	**C614_726.3 P71 BN71B4**	168
2.3	1363	2.9	724.7	32410	**C804_724.7 S1 M1SD4**	184	**C804_724.7 P71 BN71B4**	182
2.5	1258	1.3	668.8	14624	**C614_668.8 S1 M1SD4**	170	**C614_668.8 P71 BN71B4**	168
2.6	1236	1.9	657.3	23175	**C704_657.3 S1 M1SD4**	178	**C704_657.3 P71 BN71B4**	176
2.8	1148	1.4	610.1	14624	**C614_610.1 S1 M1SD4**	170	**C614_610.1 P71 BN71B4**	168
2.8	1141	2.0	606.8	23175	**C704_606.8 S1 M1SD4**	178	**C704_606.8 P71 BN71B4**	176
3.0	1074	1.5	571.2	14624	**C614_571.2 S1 M1SD4**	170	**C614_571.2 P71 BN71B4**	168
3.1	1043	2.2	554.7	23175	**C704_554.7 S1 M1SD4**	178	**C704_554.7 P71 BN71B4**	176
3.1	1034	1.0	549.7	9120	**C514_549.7 S1 M1SD4**	162	**C514_549.7 P71 BN71B4**	160
3.3	980	1.6	521.1	14624	**C614_521.1 S1 M1SD4**	170	**C614_521.1 P71 BN71B4**	168
3.3	963	2.4	512.0	23175	**C704_512.0 S1 M1SD4**	178	**C704_512.0 P71 BN71B4**	176
3.3	956	1.0	508.0	9120	**C514_508.0 S1 M1SD4**	162	**C514_508.0 P71 BN71B4**	160
3.7	873	1.1	463.9	9120	**C514_463.9 S1 M1SD4**	162	**C514_463.9 P71 BN71B4**	160
3.7	869	1.8	462.0	14624	**C614_462.0 S1 M1SD4**	170	**C614_462.0 P71 BN71B4**	168
3.8	834	2.8	443.5	23175	**C704_443.5 S1 M1SD4**	178	**C704_443.5 P71 BN71B4**	176
4.0	793	2.0	421.5	14624	**C614_421.5 S1 M1SD4**	170	**C614_421.5 P71 BN71B4**	168
4.1	782	1.3	415.7	9120	**C514_415.7 S1 M1SD4**	162	**C514_415.7 P71 BN71B4**	160
4.2	770	3.0	409.4	23175	**C704_409.4 S1 M1SD4**	178	**C704_409.4 P71 BN71B4**	176
4.5	714	1.4	379.6	9120	**C514_379.6 S1 M1SD4**	162	**C514_379.6 P71 BN71B4**	160
4.6	696	2.3	370.1	14624	**C614_370.1 S1 M1SD4**	170	**C614_370.1 P71 BN71B4**	168
5.0	635	2.5	337.7	14624	**C614_337.7 S1 M1SD4**	170	**C614_337.7 P71 BN71B4**	168
5.1	627	1.0	333.4	6370	**C414_333.4 S1 M1SD4**	154	**C414_333.4 P71 BN71B4**	152
5.2	613	1.6	326.1	9120	**C514_326.1 S1 M1SD4**	162	**C514_326.1 P71 BN71B4**	160
5.6	572	1.0	304.2	6370	**C414_304.2 S1 M1SD4**	154	**C414_304.2 P71 BN71B4**	152
5.6	568	2.8	301.7	14624	**C614_301.7 S1 M1SD4**	170	**C614_301.7 P71 BN71B4**	168
5.7	560	1.8	297.8	9120	**C514_297.8 S1 M1SD4**	162	**C514_297.8 P71 BN71B4**	160
6.4	496	2.0	263.8	9120	**C514_263.8 S1 M1SD4**	162	**C514_263.8 P71 BN71B4**	160
6.5	495	1.2	263.0	6370	**C414_263.0 S1 M1SD4**	154	**C414_263.0 P71 BN71B4**	152
6.7	480	0.9	255.0	5575	**C364_255.0 S1 M1SD4**	146	**C364_255.0 P71 BN71B4**	144
7.1	453	2.2	240.9	9120	**C514_240.9 S1 M1SD4**	162	**C514_240.9 P71 BN71B4**	160
7.1	451	1.3	239.9	6370	**C414_239.9 S1 M1SD4**	154	**C414_239.9 P71 BN71B4**	152
7.4	434	1.0	230.9	5758	**C364_230.9 S1 M1SD4**	146	**C364_230.9 P71 BN71B4**	144
7.8	421	2.4	216.7	9120	**C513_216.7 S1 M1SD4**	162	**C513_216.7 P71 BN71B4**	160
8.1	406	1.5	209.1	6370	**C413_209.1 S1 M1SD4**	154	**C413_209.1 P71 BN71B4**	152
8.2	401	1.1	206.4	5941			**C363_206.4 P71 BN71B4**	144
8.6	385	2.6	197.9	9120	**C513_197.9 S1 M1SD4**	162	**C513_197.9 P71 BN71B4**	160
8.9	371	1.6	190.8	6370	**C413_190.8 S1 M1SD4**	154	**C413_190.8 P71 BN71B4**	152
9.3	357	1.3	183.5	5941			**C363_183.5 P71 BN71B4**	144
9.5	350	1.7	179.9	6370	**C413_179.9 S1 M1SD4**	154	**C413_179.9 P71 BN71B4**	152
9.7	342	2.9	175.8	9120	**C513_175.8 S1 M1SD4**	162	**C513_175.8 P71 BN71B4**	160
10.2	325	0.9	167.4	4860	**C323_167.4 S1 M1SD4**	138	**C323_167.4 P71 BN71B4**	136
10.4	319	1.9	164.1	6370	**C413_164.1 S1 M1SD4**	154	**C413_164.1 P71 BN71B4**	152
10.5	315	1.4	162.0	5941	**C363_162.0 S1 M1SD4**	146	**C363_162.0 P71 BN71B4**	144
11.5	288	1.0	148.4	5044	**C323_148.4 S1 M1SD4**	138	**C323_148.4 P71 BN71B4**	136
11.7	283	2.1	145.6	6370	**C413_145.6 S1 M1SD4**	154	**C413_145.6 P71 BN71B4**	152



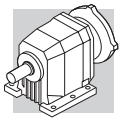
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12.5	264	1.1	136.0	5044	**C323_136.0 S1 M1SD4**	138	**C323_136.0 P71 BN71B4**	136
12.8	258	2.3	132.9	6370	**C413_132.9 S1 M1SD4**	154	**C413_132.9 P71 BN71B4**	152
13.5	245	1.8	125.8	5941	**C363_125.8 S1 M1SD4**	146	**C363_125.8 P71 BN71B4**	144
13.9	238	1.3	122.4	5044	**C323_122.4 S1 M1SD4**	138	**C323_122.4 P71 BN71B4**	136
14.1	234	2.6	120.6	6370	**C413_120.6 S1 M1SD4**	154	**C413_120.6 P71 BN71B4**	152
15.2	218	0.9	112.0	4067	**C223_112.0 S1 M1SD4**	130	**C223_112.0 P71 BN71B4**	128
15.2	217	2.1	111.5	5941	**C363_111.5 S1 M1SD4**	146	**C363_111.5 P71 BN71B4**	144
15.4	215	1.4	110.6	5044	**C323_110.6 S1 M1SD4**	138	**C323_110.6 P71 BN71B4**	136
15.4	214	2.8	110.1	6370	**C413_110.1 S1 M1SD4**	154	**C413_110.1 P71 BN71B4**	152
16.5	201	1.5	103.3	5044	**C323_103.3 S1 M1SD4**	138	**C323_103.3 P71 BN71B4**	136
16.6	199	2.3	102.2	5941	**C363_102.2 S1 M1SD4**	146	**C363_102.2 P71 BN71B4**	144
17.0	195	1.0	100.2	4250	**C223_100.2 S1 M1SD4**	130	**C223_100.2 P71 BN71B4**	128
18.1	183	1.6	94.2	5044	**C323_94.2 S1 M1SD4**	138	**C323_94.2 P71 BN71B4**	136
18.5	179	2.5	91.9	5941	**C363_91.9 S1 M1SD4**	146	**C363_91.9 P71 BN71B4**	144
19.2	172	1.2	88.5	4433	**C223_88.5 S1 M1SD4**	130	**C223_88.5 P71 BN71B4**	128
20.5	162	2.8	83.1	5941	**C363_83.1 S1 M1SD4**	146	**C363_83.1 P71 BN71B4**	144
20.6	161	1.2	82.6	4570	**C223_82.6 S1 M1SD4**	130	**C223_82.6 P71 BN71B4**	128
20.6	160	1.9	82.6	5044	**C323_82.6 S1 M1SD4**	138	**C323_82.6 P71 BN71B4**	136
21.9	151	3.0	77.6	5941	**C363_77.6 S1 M1SD4**	146	**C363_77.6 P71 BN71B4**	144
22.7	145	1.4	74.8	4570	**C223_74.8 S1 M1SD4**	130	**C223_74.8 P71 BN71B4**	128
22.7	145	1.9	74.7	5044	**C323_74.7 S1 M1SD4**	138	**C323_74.7 P71 BN71B4**	136
25.4	133	1.5	66.8	5044			**C322_66.8 P71 BN71B4**	136
26.0	127	1.6	65.3	4570	**C223_65.3 S1 M1SD4**	130	**C223_65.3 P71 BN71B4**	128
26.9	126	1.0	63.3	4433			**C222_63.3 P71 BN71B4**	128
28.3	117	1.5	60.0	4570	**C223_60.0 S1 M1SD4**	130	**C223_60.0 P71 BN71B4**	128
28.6	118	1.7	59.4	5044			**C322_59.4 P71 BN71B4**	136
31	109	1.3	54.7	4570			**C222_54.7 P71 BN71B4**	128
32	104	2.9	52.4	5044	**C322_52.4 S1 M1SD4**	138	**C322_52.4 P71 BN71B4**	136
35	97	1.5	48.6	4433			**C222_48.6 P71 BN71B4**	128
39	86	2.0	43.3	4140	**C222_43.3 S1 M1SD4**	130	**C222_43.3 P71 BN71B4**	128
40	84	1.0	42.3	1822			**C122_42.3 P71 BN71B4**	120
46	73	1.1	37.0	1822	**C122_37.0 S1 M1SD4**	122	**C122_37.0 P71 BN71B4**	120
46	73	2.5	36.8	3985	**C222_36.8 S1 M1SD4**	130	**C222_36.8 P71 BN71B4**	128
51	66	2.8	33.1	3875	**C222_33.1 S1 M1SD4**	130	**C222_33.1 P71 BN71B4**	128
52	65	1.3	32.8	1822	**C122_32.8 S1 M1SD4**	122	**C122_32.8 P71 BN71B4**	120
58	59	1.4	29.5	1822	**C122_29.5 S1 M1SD4**	122	**C122_29.5 P71 BN71B4**	120
67	50	1.6	25.4	1822	**C122_25.4 S1 M1SD4**	122	**C122_25.4 P71 BN71B4**	120
73	46	1.7	23.2	1822	**C122_23.2 S1 M1SD4**	122	**C122_23.2 P71 BN71B4**	120
81	42	1.1	21.0	510	**C052_21.0 S1 M1SD4**	118		
82	41	1.8	20.6	1822	**C122_20.6 S1 M1SD4**	122	**C122_20.6 P71 BN71B4**	120
90	38	1.0	18.9	510	**C052_18.9 S1 M1SD4**	118		
92	37	2.0	18.4	1822	**C122_18.4 S1 M1SD4**	122	**C122_18.4 P71 BN71B4**	120
99	34	2.0	17.2	1822	**C122_17.2 S1 M1SD4**	122	**C122_17.2 P71 BN71B4**	120
109	31	1.2	15.6	528	**C052_15.6 S1 M1SD4**	118		
110	31	2.2	15.4	1822	**C122_15.4 S1 M1SD4**	122	**C122_15.4 P71 BN71B4**	120
127	27	2.4	13.4	1822	**C122_13.4 S1 M1SD4**	122	**C122_13.4 P71 BN71B4**	120
136	25	1.5	12.5	547	**C052_12.5 S1 M1SD4**	118		
143	24	2.6	11.9	1822	**C122_11.9 S1 M1SD4**	122	**C122_11.9 P71 BN71B4**	120
151	22	1.6	11.2	537	**C052_11.2 S1 M1SD4**	118		
169	20	2.9	10.1	1758	**C122_10.1 S1 M1SD4**	122	**C122_10.1 P71 BN71B4**	120
183	18	1.5	9.3	528	**C052_9.3 S1 M1SD4**	118		
229	15	1.9	7.4	519	**C052_7.4 S1 M1SD4**	118		
254	13	2.1	6.7	510	**C052_6.7 S1 M1SD4**	118		
307	11	2.5	5.5	492	**C052_5.5 S1 M1SD4**	118		

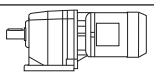


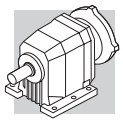
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.2	4159	1.0	1481.3	32410	**C804_1481 S1 M1LA4**	184	**C804_1481 P80 BN80A4**	182
1.3	3813	1.0	1357.8	32410	**C804_1358 S1 M1LA4**	184	**C804_1358 P80 BN80A4**	182
1.3	3578	1.1	1274.2	32410	**C804_1274 S1 M1LA4**	184	**C804_1274 P80 BN80A4**	182
1.4	3483	2.1	1240.4	55620	**C904_1240 S1 M1LA4**	190	**C904_1240 P80 BN80A4**	188
1.5	3280	1.2	1168.0	32410	**C804_1168 S1 M1LA4**	184	**C804_1168 P80 BN80A4**	182
1.5	3193	2.3	1137.1	55620	**C904_1137 S1 M1LA4**	190	**C904_1137 P80 BN80A4**	188
1.7	2897	1.4	1031.7	32410	**C804_1032 S1 M1LA4**	184	**C804_1032 P80 BN80A4**	182
1.7	2825	2.5	1006.1	55620	**C904_1006 S1 M1LA4**	190	**C904_1006 P80 BN80A4**	188
1.8	2656	1.5	945.7	32410	**C804_945.7 S1 M1LA4**	184	**C804_945.7 P80 BN80A4**	182
1.9	2590	2.8	922.3	55620	**C904_922.3 S1 M1LA4**	190	**C904_922.3 P80 BN80A4**	188
2.0	2400	1.7	854.6	32410	**C804_854.6 S1 M1LA4**	184	**C804_854.6 P80 BN80A4**	182
2.1	2239	1.0	797.3	23175	**C704_797.3 S1 M1LA4**	178	**C704_797.3 P80 BN80A4**	176
2.2	2200	1.8	783.4	32410	**C804_783.4 S1 M1LA4**	184	**C804_783.4 P80 BN80A4**	182
2.3	2067	1.1	736.0	23175	**C704_736.0 S1 M1LA4**	178	**C704_736.0 P80 BN80A4**	176
2.4	2035	2.0	724.7	32410	**C804_724.7 S1 M1LA4**	184	**C804_724.7 P80 BN80A4**	182
2.6	1865	2.1	664.3	32410	**C804_664.3 S1 M1LA4**	184	**C804_664.3 P80 BN80A4**	182
2.6	1846	1.2	657.3	23175	**C704_657.3 S1 M1LA4**	178	**C704_657.3 P80 BN80A4**	176
2.8	1713	0.9	610.1	14624	**C614_610.1 S1 M1LA4**	170	**C614_610.1 P80 BN80A4**	168
2.8	1704	1.3	606.8	23175	**C704_606.8 S1 M1LA4**	178	**C704_606.8 P80 BN80A4**	176
3.0	1621	2.5	577.4	32410	**C804_577.4 S1 M1LA4**	184	**C804_577.4 P80 BN80A4**	182
3.0	1604	1.0	571.2	14624	**C614_571.2 S1 M1LA4**	170	**C614_571.2 P80 BN80A4**	168
3.1	1558	1.5	554.7	23175	**C704_554.7 S1 M1LA4**	178	**C704_554.7 P80 BN80A4**	176
3.2	1486	2.7	529.3	32410	**C804_529.3 S1 M1LA4**	184	**C804_529.3 P80 BN80A4**	182
3.3	1463	1.1	521.1	14624	**C614_521.1 S1 M1LA4**	170	**C614_521.1 P80 BN80A4**	168
3.3	1438	1.6	512.0	23175	**C704_512.0 S1 M1LA4**	178	**C704_512.0 P80 BN80A4**	176
3.7	1297	1.2	462.0	14624	**C614_462.0 S1 M1LA4**	170	**C614_462.0 P80 BN80A4**	168
3.9	1245	1.8	443.5	23175	**C704_443.5 S1 M1LA4**	178	**C704_443.5 P80 BN80A4**	176
4.1	1184	1.4	421.5	14624	**C614_421.5 S1 M1LA4**	170	**C614_421.5 P80 BN80A4**	168
4.2	1150	2.0	409.4	23175	**C704_409.4 S1 M1LA4**	178	**C704_409.4 P80 BN80A4**	176
4.5	1066	0.9	379.6	9120	**C514_379.6 S1 M1LA4**	162	**C514_379.6 P80 BN80A4**	160
4.6	1039	1.5	370.1	14624	**C614_370.1 S1 M1LA4**	170	**C614_370.1 P80 BN80A4**	168
5.0	967	2.4	344.3	23175	**C704_344.3 S1 M1LA4**	178	**C704_344.3 P80 BN80A4**	176
5.1	948	1.7	337.7	14624	**C614_337.7 S1 M1LA4**	170	**C614_337.7 P80 BN80A4**	168
5.2	916	1.1	326.1	9120	**C514_326.1 S1 M1LA4**	162	**C514_326.1 P80 BN80A4**	160
5.4	893	2.6	317.9	23175	**C704_317.9 S1 M1LA4**	178	**C704_317.9 P80 BN80A4**	176
5.7	847	1.9	301.7	14624	**C614_301.7 S1 M1LA4**	170	**C614_301.7 P80 BN80A4**	168
5.7	836	1.2	297.8	9120	**C514_297.8 S1 M1LA4**	162	**C514_297.8 P80 BN80A4**	160
6.2	773	2.1	275.3	14624	**C614_275.3 S1 M1LA4**	170	**C614_275.3 P80 BN80A4**	168
6.5	741	1.4	263.8	9120	**C514_263.8 S1 M1LA4**	162	**C514_263.8 P80 BN80A4**	160
7.1	676	1.5	240.9	9120	**C514_240.9 S1 M1LA4**	162	**C514_240.9 P80 BN80A4**	160
7.2	669	2.4	238.3	14624	**C614_238.3 S1 M1LA4**	170	**C614_238.3 P80 BN80A4**	168
7.9	610	2.6	217.4	14624	**C614_217.4 S1 M1LA4**	170	**C614_217.4 P80 BN80A4**	168
7.9	629	1.6	216.7	9120	**C513_216.7 S1 M1LA4**	162	**C513_216.7 P80 BN80A4**	160
8.2	607	1.0	209.1	6370	**C413_209.1 S1 M1LA4**	154	**C413_209.1 P80 BN80A4**	152
8.6	574	1.7	197.9	9120	**C513_197.9 S1 M1LA4**	162	**C513_197.9 P80 BN80A4**	160
8.7	550	2.9	195.8	14624	**C613_195.8 S1 M1LA4**	170	**C613_195.8 P80 BN80A4**	168
9.0	554	1.1	190.8	6370	**C413_190.8 S1 M1LA4**	154	**C413_190.8 P80 BN80A4**	152
9.5	522	1.1	179.9	6370	**C413_179.9 S1 M1LA4**	154	**C413_179.9 P80 BN80A4**	152
9.7	510	2.0	175.8	9120	**C513_175.8 S1 M1LA4**	162	**C513_175.8 P80 BN80A4**	160
10.4	476	1.3	164.1	6370	**C413_164.1 S1 M1LA4**	154	**C413_164.1 P80 BN80A4**	152
10.6	470	1.0	162.0	5941	**C363_162.0 S1 M1LA4**	146	**C363_162.0 P80 BN80A4**	144
10.7	466	2.1	160.5	9120	**C513_160.5 S1 M1LA4**	162	**C513_160.5 P80 BN80A4**	160
11.6	428	2.3	147.4	9120	**C513_147.4 S1 M1LA4**	162	**C513_147.4 P80 BN80A4**	160
11.7	423	1.4	145.6	6370	**C413_145.6 S1 M1LA4**	154	**C413_145.6 P80 BN80A4**	152
12.2	406	1.1	139.8	5941	**C363_139.8 S1 M1LA4**	146	**C363_139.8 P80 BN80A4**	144
12.7	391	2.6	134.6	9120	**C513_134.6 S1 M1LA4**	162	**C513_134.6 P80 BN80A4**	160
12.9	386	1.6	132.9	6370	**C413_132.9 S1 M1LA4**	154	**C413_132.9 P80 BN80A4**	152
13.6	365	1.2	125.8	5941	**C363_125.8 S1 M1LA4**	146	**C363_125.8 P80 BN80A4**	144
13.7	361	2.8	124.4	9120	**C513_124.4 S1 M1LA4**	162	**C513_124.4 P80 BN80A4**	160
14.2	350	1.7	120.6	6370	**C413_120.6 S1 M1LA4**	154	**C413_120.6 P80 BN80A4**	152

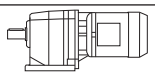


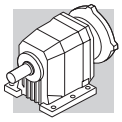
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
15.3	324	1.4	111.5	5941	**C363_111.5 S1 M1LA4**	146	**C363_111.5 P80 BN80A4**	144
15.5	321	0.9	110.6	5044	**C323_110.6 S1 M1LA4**	138	**C323_110.6 P80 BN80A4**	136
15.5	319	1.9	110.1	6370	**C413_110.1 S1 M1LA4**	154	**C413_110.1 P80 BN80A4**	152
16.6	300	1.0	103.3	5044	**C323_103.3 S1 M1LA4**	138	**C323_103.3 P80 BN80A4**	136
16.7	297	2.0	102.3	6370	**C413_102.3 S1 M1LA4**	154	**C413_102.3 P80 BN80A4**	152
16.7	297	1.5	102.2	5941	**C363_102.2 S1 M1LA4**	146	**C363_102.2 P80 BN80A4**	144
18.2	273	1.1	94.2	5044	**C323_94.2 S1 M1LA4**	138	**C323_94.2 P80 BN80A4**	136
18.3	271	2.2	93.3	6370	**C413_93.3 S1 M1LA4**	154	**C413_93.3 P80 BN80A4**	152
18.6	267	1.7	91.9	5941	**C363_91.9 S1 M1LA4**	146	**C363_91.9 P80 BN80A4**	144
20.6	241	1.9	83.1	5941	**C363_83.1 S1 M1LA4**	146	**C363_83.1 P80 BN80A4**	144
20.7	240	1.3	82.6	5044	**C323_82.6 S1 M1LA4**	138	**C323_82.6 P80 BN80A4**	136
21.0	237	2.5	81.5	6370	**C413_81.5 S1 M1LA4**	154	**C413_81.5 P80 BN80A4**	152
22.0	225	2.0	77.6	5941	**C363_77.6 S1 M1LA4**	146	**C363_77.6 P80 BN80A4**	144
22.9	217	0.9	74.8	3985	**C223_74.8 S1 M1LA4**	130	**C223_74.8 P80 BN80A4**	128
22.9	217	1.3	74.7	5044	**C323_74.7 S1 M1LA4**	138	**C323_74.7 P80 BN80A4**	136
23.0	216	2.7	74.4	6370	**C413_74.4 S1 M1LA4**	154	**C413_74.4 P80 BN80A4**	152
24.2	205	2.2	70.8	5941	**C363_70.8 S1 M1LA4**	146	**C363_70.8 P80 BN80A4**	144
25.6	198	1.0	66.8	5044			**C322_66.8 P80 BN80A4**	136
26.2	190	1.1	65.3	3948	**C223_65.3 S1 M1LA4**	130	**C223_65.3 P80 BN80A4**	128
27.6	180	2.5	62.0	5941	**C363_62.0 S1 M1LA4**	146	**C363_62.0 P80 BN80A4**	144
28.5	174	1.0	60.0	3912	**C223_60.0 S1 M1LA4**	130	**C223_60.0 P80 BN80A4**	128
28.8	176	1.2	59.4	5044	**C322_59.4 S1 M1LA4**	138	**C322_59.4 P80 BN80A4**	136
30	163	2.8	56.2	5941	**C363_56.2 S1 M1LA4**	146	**C363_56.2 P80 BN80A4**	144
33	155	1.9	52.4	5044	**C322_52.4 S1 M1LA4**	138	**C322_52.4 P80 BN80A4**	136
35	144	1.0	48.6	3656	**C222_48.6 S1 M1LA4**	130	**C222_48.6 P80 BN80A4**	128
38	134	2.2	45.3	5044	**C322_45.3 S1 M1LA4**	138	**C322_45.3 P80 BN80A4**	136
40	128	1.4	43.3	3830	**C222_43.3 S1 M1LA4**	130	**C222_43.3 P80 BN80A4**	128
42	121	2.4	40.7	5044	**C322_40.7 S1 M1LA4**	138	**C322_40.7 P80 BN80A4**	136
47	109	1.7	36.8	3720	**C222_36.8 S1 M1LA4**	130	**C222_36.8 P80 BN80A4**	128
47	107	2.6	36.1	5044	**C322_36.1 S1 M1LA4**	138	**C322_36.1 P80 BN80A4**	136
52	98	1.9	33.1	3629	**C222_33.1 S1 M1LA4**	130	**C222_33.1 P80 BN80A4**	128
52	98	2.8	33.1	5044	**C322_33.1 S1 M1LA4**	138	**C322_33.1 P80 BN80A4**	136
58	88	2.1	29.6	3555	**C222_29.6 S1 M1LA4**	130	**C222_29.6 P80 BN80A4**	128
58	87	0.9	29.5	1822	**C122_29.5 S1 M1LA4**	122	**C122_29.5 P80 BN80A4**	120
63	80	2.3	27.2	3528	**C222_27.2 S1 M1LA4**	130	**C222_27.2 P80 BN80A4**	128
67	75	1.1	25.4	1822	**C122_25.4 S1 M1LA4**	122	**C122_25.4 P80 BN80A4**	120
70	72	2.6	24.3	3400	**C222_24.3 S1 M1LA4**	130	**C222_24.3 P80 BN80A4**	128
74	69	1.1	23.2	1822	**C122_23.2 S1 M1LA4**	122	**C122_23.2 P80 BN80A4**	120
80	64	2.8	21.5	3382	**C222_21.5 S1 M1LA4**	130	**C222_21.5 P80 BN80A4**	128
83	61	1.2	20.6	1822	**C122_20.6 S1 M1LA4**	122	**C122_20.6 P80 BN80A4**	120
85	59	2.9	20.0	3254	**C222_20.0 S1 M1LA4**	130	**C222_20.0 P80 BN80A4**	128
93	55	1.3	18.4	1822	**C122_18.4 S1 M1LA4**	122	**C122_18.4 P80 BN80A4**	120
100	51	1.4	17.2	1822	**C122_17.2 S1 M1LA4**	122	**C122_17.2 P80 BN80A4**	120
111	46	1.5	15.4	1822	**C122_15.4 S1 M1LA4**	122	**C122_15.4 P80 BN80A4**	120
128	40	1.6	13.4	1813	**C122_13.4 S1 M1LA4**	122	**C122_13.4 P80 BN80A4**	120
137	37	1.0	12.5	410	**C052_12.5 S1 M1LA4**	118		
144	35	1.7	11.9	1749	**C122_11.9 S1 M1LA4**	122	**C122_11.9 P80 BN80A4**	120
152	33	1.1	11.2	437	**C052_11.2 S1 M1LA4**	118		
170	30	1.9	10.1	1685	**C122_10.1 S1 M1LA4**	122	**C122_10.1 P80 BN80A4**	120
184	28	1.0	9.3	410	**C052_9.3 S1 M1LA4**	118		
194	26	2.1	8.8	1622	**C122_8.8 S1 M1LA4**	122	**C122_8.8 P80 BN80A4**	120
224	23	2.3	7.6	1567	**C122_7.6 S1 M1LA4**	122	**C122_7.6 P80 BN80A4**	120
231	22	1.3	7.4	419	**C052_7.4 S1 M1LA4**	118		
256	20	1.4	6.7	410	**C052_6.7 S1 M1LA4**	118		
274	18	2.6	6.2	1448	**C122_6.2 S1 M1LA4**	122	**C122_6.2 P80 BN80A4**	120
305	17	2.8	5.6	1403	**C122_5.6 S1 M1LA4**	122	**C122_5.6 P80 BN80A4**	120
309	16	1.7	5.5	392	**C052_5.5 S1 M1LA4**	118		



0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
1.4	4577	1.6	1240.4	55620	**C904_1240 S2 ME2SB4**	190	**C904_1240 P80 BE80B4**	188
1.5	4310	0.9	1168.0	32410	**C804_1168 S2 ME2SB4**	184	**C804_1168 P80 BE80B4**	182
1.5	4196	1.7	1137.1	55620	**C904_1137 S2 ME2SB4**	190	**C904_1137 P80 BE80B4**	188
1.7	3807	1.1	1031.7	32410	**C804_1032 S2 ME2SB4**	184	**C804_1032 P80 BE80B4**	182
1.7	3713	1.9	1006.1	55620	**C904_1006 S2 ME2SB4**	190	**C904_1006 P80 BE80B4**	188
1.8	3490	1.1	945.7	32410	**C804_945.7 S2 ME2SB4**	184	**C804_945.7 P80 BE80B4**	182
1.9	3403	2.1	922.3	55620	**C904_922.3 S2 ME2SB4**	190	**C904_922.3 P80 BE80B4**	188
2.0	3153	1.3	854.6	32410	**C804_854.6 S2 ME2SB4**	184	**C804_854.6 P80 BE80B4**	182
2.1	3114	2.3	844.0	55620	**C904_844.0 S2 ME2SB4**	190	**C904_844.0 P80 BE80B4**	188
2.2	2891	1.4	783.4	32410	**C804_783.4 S2 ME2SB4**	184	**C804_783.4 P80 BE80B4**	182
2.3	2855	2.5	773.6	55620	**C904_773.6 S2 ME2SB4**	190	**C904_773.6 P80 BE80B4**	188
2.4	2674	1.5	724.7	32410	**C804_724.7 S2 ME2SB4**	184	**C804_724.7 P80 BE80B4**	182
2.5	2628	2.7	712.2	55620	**C904_712.2 S2 ME2SB4**	190	**C904_712.2 P80 BE80B4**	188
2.6	2451	1.6	664.3	32410	**C804_664.3 S2 ME2SB4**	184	**C804_664.3 P80 BE80B4**	182
2.7	2426	0.9	657.3	23175	**C704_657.3 S2 ME2SB4**	178	**C704_657.3 P80 BE80B4**	176
2.7	2409	3.0	652.8	55620	**C904_652.8 S2 ME2SB4**	190	**C904_652.8 P80 BE80B4**	188
2.9	2239	1.0	606.8	23175	**C704_606.8 S2 ME2SB4**	178	**C704_606.8 P80 BE80B4**	176
3.0	2131	1.9	577.4	32410	**C804_577.4 S2 ME2SB4**	184	**C804_577.4 P80 BE80B4**	182
3.1	2047	1.1	554.7	23175	**C704_554.7 S2 ME2SB4**	178	**C704_554.7 P80 BE80B4**	176
3.3	1953	2.0	529.3	32410	**C804_529.3 S2 ME2SB4**	184	**C804_529.3 P80 BE80B4**	182
3.4	1889	1.2	512.0	23175	**C704_512.0 S2 ME2SB4**	178	**C704_512.0 P80 BE80B4**	176
3.8	1705	0.9	462.0	14624	**C614_462.0 S2 ME2SB4**	170	**C614_462.0 P80 BE80B4**	168
3.8	1681	2.4	455.4	32410	**C804_455.4 S2 ME2SB4**	184	**C804_455.4 P80 BE80B4**	182
3.9	1637	1.4	443.5	23175	**C704_443.5 S2 ME2SB4**	178	**C704_443.5 P80 BE80B4**	176
4.1	1555	1.0	421.5	14624	**C614_421.5 S2 ME2SB4**	170	**C614_421.5 P80 BE80B4**	168
4.2	1541	2.6	417.5	32410	**C804_417.5 S2 ME2SB4**	184	**C804_417.5 P80 BE80B4**	182
4.3	1511	1.5	409.4	23175	**C704_409.4 S2 ME2SB4**	178	**C704_409.4 P80 BE80B4**	176
4.7	1366	1.2	370.1	14624	**C614_370.1 S2 ME2SB4**	170	**C614_370.1 P80 BE80B4**	168
4.8	1346	3.0	364.7	32410	**C804_364.7 S2 ME2SB4**	184	**C804_364.7 P80 BE80B4**	182
5.1	1271	1.8	344.3	23175	**C704_344.3 S2 ME2SB4**	178	**C704_344.3 P80 BE80B4**	176
5.2	1246	1.3	337.7	14624	**C614_337.7 S2 ME2SB4**	170	**C614_337.7 P80 BE80B4**	168
5.5	1173	2.0	317.9	23175	**C704_317.9 S2 ME2SB4**	178	**C704_317.9 P80 BE80B4**	176
5.8	1113	1.4	301.7	14624	**C614_301.7 S2 ME2SB4**	170	**C614_301.7 P80 BE80B4**	168
5.9	1099	0.9	297.8	9120	**C514_297.8 S2 ME2SB4**	162	**C514_297.8 P80 BE80B4**	160
6.3	1016	1.6	275.3	14624	**C614_275.3 S2 ME2SB4**	170	**C614_275.3 P80 BE80B4**	168
6.4	1005	2.3	272.2	23175	**C704_272.2 S2 ME2SB4**	178	**C704_272.2 P80 BE80B4**	176
6.6	973	1.0	263.8	9120	**C514_263.8 S2 ME2SB4**	162	**C514_263.8 P80 BE80B4**	160
6.9	927	2.5	251.3	23175	**C704_251.3 S2 ME2SB4**	178	**C704_251.3 P80 BE80B4**	176
7.2	889	1.1	240.9	9120	**C514_240.9 S2 ME2SB4**	162	**C514_240.9 P80 BE80B4**	160
7.3	913	2.5	239.3	23175	**C703_239.3 S2 ME2SB4**	178	**C703_239.3 P80 BE80B4**	176
7.3	879	1.8	238.3	14624	**C614_238.3 S2 ME2SB4**	170	**C614_238.3 P80 BE80B4**	168
7.9	842	2.7	220.9	23175	**C703_220.9 S2 ME2SB4**	178	**C703_220.9 P80 BE80B4**	176
8.0	802	2.0	217.4	14624	**C614_217.4 S2 ME2SB4**	170	**C614_217.4 P80 BE80B4**	168
8.1	826	1.2	216.7	9120	**C513_216.7 S2 ME2SB4**	162	**C513_216.7 P80 BE80B4**	160
8.8	754	1.3	197.9	9120	**C513_197.9 S2 ME2SB4**	162	**C513_197.9 P80 BE80B4**	160
8.9	722	2.2	195.8	14624	**C613_195.8 S2 ME2SB4**	170	**C613_195.8 P80 BE80B4**	168
9.8	659	2.4	178.6	14624	**C613_178.6 S2 ME2SB4**	170	**C613_178.6 P80 BE80B4**	168
9.9	670	1.5	175.8	9120	**C513_175.8 S2 ME2SB4**	162	**C513_175.8 P80 BE80B4**	160
10.6	607	2.6	164.5	14624	**C613_164.5 S2 ME2SB4**	170	**C613_164.5 P80 BE80B4**	168
10.6	626	1.0	164.1	6370	**C413_164.1 S2 ME2SB4**	154	**C413_164.1 P80 BE80B4**	152
10.9	612	1.6	160.5	9120	**C513_160.5 S2 ME2SB4**	162	**C513_160.5 P80 BE80B4**	160
11.6	554	2.9	150.0	14624	**C613_150.0 S2 ME2SB4**	170	**C613_150.0 P80 BE80B4**	168
11.8	562	1.8	147.4	9120	**C513_147.4 S2 ME2SB4**	162	**C513_147.4 P80 BE80B4**	160
12.0	555	1.1	145.6	6370	**C413_145.6 S2 ME2SB4**	154	**C413_145.6 P80 BE80B4**	152
13.0	513	1.9	134.6	9120	**C513_134.6 S2 ME2SB4**	162	**C513_134.6 P80 BE80B4**	160
13.1	507	1.2	132.9	6370	**C413_132.9 S2 ME2SB4**	154	**C413_132.9 P80 BE80B4**	152
13.9	480	0.9	125.8	5941	**C363_125.8 S2 ME2SB4**	146	**C363_125.8 P80 BE80B4**	144
14.0	474	2.1	124.4	9120	**C513_124.4 S2 ME2SB4**	162	**C513_124.4 P80 BE80B4**	160
14.5	460	1.3	120.6	6370	**C413_120.6 S2 ME2SB4**	154	**C413_120.6 P80 BE80B4**	152
15.4	433	2.3	113.6	9120	**C513_113.6 S2 ME2SB4**	162	**C513_113.6 P80 BE80B4**	160
15.6	425	1.1	111.5	5941	**C363_111.5 S2 ME2SB4**	146	**C363_111.5 P80 BE80B4**	144
15.9	420	1.4	110.1	6370	**C413_110.1 S2 ME2SB4**	154	**C413_110.1 P80 BE80B4**	152
17.1	390	1.5	102.3	6370	**C413_102.3 S2 ME2SB4**	154	**C413_102.3 P80 BE80B4**	152
17.1	390	1.2	102.2	5941	**C363_102.2 S2 ME2SB4**	146	**C363_102.2 P80 BE80B4**	144
17.1	388	2.6	101.8	9120	**C513_101.8 S2 ME2SB4**	162	**C513_101.8 P80 BE80B4**	160

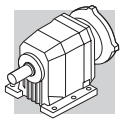


0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
18.7	356	1.7	93.3	6370	**C413_93.3 S2 ME2SB4**	154	**C413_93.3 P80 BE80B4**	152
18.8	354	2.8	93.0	9120	**C513_93.0 S2 ME2SB4**	162	**C513_93.0 P80 BE80B4**	160
19.0	351	1.3	91.9	5941	**C363_91.9 S2 ME2SB4**	146	**C363_91.9 P80 BE80B4**	144
21.0	317	1.4	83.1	5941	**C363_83.1 S2 ME2SB4**	146	**C363_83.1 P80 BE80B4**	144
21.1	315	1.0	82.6	5044	**C323_82.6 S2 ME2SB4**	138	**C323_82.6 P80 BE80B4**	136
21.4	311	1.9	81.5	6370	**C413_81.5 S2 ME2SB4**	154	**C413_81.5 P80 BE80B4**	152
22.5	296	1.5	77.6	5941	**C363_77.6 S2 ME2SB4**	146	**C363_77.6 P80 BE80B4**	144
23.3	285	1.0	74.7	5044	**C323_74.7 S2 ME2SB4**	138	**C323_74.7 P80 BE80B4**	136
23.5	284	2.1	74.4	6370	**C413_74.4 S2 ME2SB4**	154	**C413_74.4 P80 BE80B4**	152
24.7	270	1.7	70.8	5941	**C363_70.8 S2 ME2SB4**	146	**C363_70.8 P80 BE80B4**	144
27.1	245	2.3	64.3	6370	**C413_64.3 S2 ME2SB4**	154	**C413_64.3 P80 BE80B4**	152
28.1	237	1.9	62.0	5941	**C363_62.0 S2 ME2SB4**	146	**C363_62.0 P80 BE80B4**	144
29.8	224	2.5	58.7	6370	**C413_58.7 S2 ME2SB4**	154	**C413_58.7 P80 BE80B4**	152
31	214	2.1	56.2	5941	**C363_56.2 S2 ME2SB4**	146	**C363_56.2 P80 BE80B4**	144
33	204	1.5	52.4	5044	**C322_52.4 S2 ME2SB4**	138	**C322_52.4 P80 BE80B4**	136
34	196	2.8	51.5	6370	**C413_51.5 S2 ME2SB4**	154	**C413_51.5 P80 BE80B4**	152
36	184	2.5	48.2	5941	**C363_48.2 S2 ME2SB4**	146	**C363_48.2 P80 BE80B4**	144
39	176	1.7	45.3	5044	**C322_45.3 S2 ME2SB4**	138	**C322_45.3 P80 BE80B4**	136
39	174	2.9	44.8	6370	**C412_44.8 S2 ME2SB4**	154	**C412_44.8 P80 BE80B4**	152
40	166	2.7	43.5	5941	**C363_43.5 S2 ME2SB4**	146	**C363_43.5 P80 BE80B4**	144
40	169	1.0	43.3	3482	**C222_43.3 S2 ME2SB4**	130	**C222_43.3 P80 BE80B4**	128
43	159	1.8	40.7	5044	**C322_40.7 S2 ME2SB4**	138	**C322_40.7 P80 BE80B4**	136
46	145	3.0	38.1	5941	**C363_38.1 S2 ME2SB4**	146	**C363_38.1 P80 BE80B4**	144
47	143	1.3	36.8	3428	**C222_36.8 S2 ME2SB4**	130	**C222_36.8 P80 BE80B4**	128
48	141	2.0	36.1	5044	**C322_36.1 S2 ME2SB4**	138	**C322_36.1 P80 BE80B4**	136
53	129	1.4	33.1	3364	**C222_33.1 S2 ME2SB4**	130	**C222_33.1 P80 BE80B4**	128
53	129	2.1	33.1	5044	**C322_33.1 S2 ME2SB4**	138	**C322_33.1 P80 BE80B4**	136
59	116	2.4	29.8	5044	**C322_29.8 S2 ME2SB4**	138	**C322_29.8 P80 BE80B4**	136
59	115	1.6	29.6	3318	**C222_29.6 S2 ME2SB4**	130	**C222_29.6 P80 BE80B4**	128
64	106	1.7	27.2	3290	**C222_27.2 S2 ME2SB4**	130	**C222_27.2 P80 BE80B4**	128
65	105	2.6	26.9	5044	**C322_26.9 S2 ME2SB4**	138	**C322_26.9 P80 BE80B4**	136
69	98	2.8	25.1	5007	**C322_25.1 S2 ME2SB4**	138	**C322_25.1 P80 BE80B4**	136
72	95	1.9	24.3	3208	**C222_24.3 S2 ME2SB4**	130	**C222_24.3 P80 BE80B4**	128
81	84	2.1	21.5	3181	**C222_21.5 S2 ME2SB4**	130	**C222_21.5 P80 BE80B4**	128
85	80	0.9	20.6	1649	**C122_20.6 S2 ME2SB4**	122	**C122_20.6 P80 BE80B4**	120
87	78	2.2	20.0	3089	**C222_20.0 S2 ME2SB4**	130	**C222_20.0 P80 BE80B4**	128
95	72	1.0	18.4	1594	**C122_18.4 S2 ME2SB4**	122	**C122_18.4 P80 BE80B4**	120
96	71	2.4	18.1	3062	**C222_18.1 S2 ME2SB4**	130	**C222_18.1 P80 BE80B4**	128
102	67	1.0	17.2	1594	**C122_17.2 S2 ME2SB4**	122	**C122_17.2 P80 BE80B4**	120
110	62	2.6	15.8	2934	**C222_15.8 S2 ME2SB4**	130	**C222_15.8 P80 BE80B4**	128
113	60	1.1	15.4	1749	**C122_15.4 S2 ME2SB4**	122	**C122_15.4 P80 BE80B4**	120
120	57	2.7	14.5	2925	**C222_14.5 S2 ME2SB4**	130	**C222_14.5 P80 BE80B4**	128
130	52	1.2	13.4	1704	**C122_13.4 S2 ME2SB4**	122	**C122_13.4 P80 BE80B4**	120
147	46	1.3	11.9	1622	**C122_11.9 S2 ME2SB4**	122	**C122_11.9 P80 BE80B4**	120
174	39	1.5	10.1	1603	**C122_10.1 S2 ME2SB4**	122	**C122_10.1 P80 BE80B4**	120
198	34	1.6	8.8	1549	**C122_8.8 S2 ME2SB4**	122	**C122_8.8 P80 BE80B4**	120
229	30	1.7	7.6	1503	**C122_7.6 S2 ME2SB4**	122	**C122_7.6 P80 BE80B4**	120
280	24	2.0	6.2	1394	**C122_6.2 S2 ME2SB4**	122	**C122_6.2 P80 BE80B4**	120
312	22	2.1	5.6	1339	**C122_5.6 S2 ME2SB4**	122	**C122_5.6 P80 BE80B4**	120
358	19	2.3	4.9	1312	**C122_4.9 S2 ME2SB4**	122	**C122_4.9 P80 BE80B4**	120
405	17	2.5	4.3	1248	**C122_4.3 S2 ME2SB4**	122	**C122_4.3 P80 BE80B4**	120
478	14	2.7	3.7	1212	**C122_3.7 S2 ME2SB4**	122	**C122_3.7 P80 BE80B4**	120
544	12	2.9	3.2	1166	**C122_3.2 S2 ME2SB4**	122	**C122_3.2 P80 BE80B4**	120

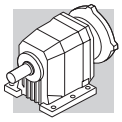
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.4	6698	1.1	1240.4	55620	**C904_1240 S3 ME3SA4**	190	**C904_1240 P90 BE90S4**	188
1.5	6140	1.2	1137.1	55620	**C904_1137 S3 ME3SA4**	190	**C904_1137 P90 BE90S4**	188
1.6	5838	2.1	1081.1	78795	**C1004_1081 S3 ME3SA4**	196	**C1004_1081 P90 BE90S4**	194
1.7	5433	1.3	1006.1	55620	**C904_1006 S3 ME3SA4**	190	**C904_1006 P90 BE90S4**	188



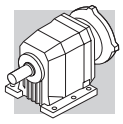
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.7	5421	2.2	1003.9	78795	**C1004_1004 S3 ME3SA4**	196	**C1004_1004 P90 BE90S4**	194
1.9	4980	1.4	922.3	55620	**C904_922.3 S3 ME3SA4**	190	**C904_922.3 P90 BE90S4**	188
1.9	4904	2.4	908.2	78795	**C1004_908.2 S3 ME3SA4**	196	**C1004_908.2 P90 BE90S4**	194
2.1	4557	1.6	844.0	55620	**C904_844.0 S3 ME3SA4**	190	**C904_844.0 P90 BE90S4**	188
2.1	4554	2.6	843.3	78795	**C1004_843.3 S3 ME3SA4**	196	**C1004_843.3 P90 BE90S4**	194
2.2	4230	0.9	783.4	32410	**C804_783.4 S3 ME3SA4**	184	**C804_783.4 P90 BE90S4**	182
2.2	4189	2.9	775.7	78795	**C1004_775.7 S3 ME3SA4**	196	**C1004_775.7 P90 BE90S4**	194
2.2	4178	1.7	773.6	55620	**C904_773.6 S3 ME3SA4**	190	**C904_773.6 P90 BE90S4**	188
2.4	3913	1.0	724.7	32410	**C804_724.7 S3 ME3SA4**	184	**C804_724.7 P90 BE90S4**	182
2.4	3846	1.9	712.2	55620	**C904_712.2 S3 ME3SA4**	190	**C904_712.2 P90 BE90S4**	188
2.6	3587	1.1	664.3	32410	**C804_664.3 S3 ME3SA4**	184	**C804_664.3 P90 BE90S4**	182
2.7	3525	2.0	652.8	55620	**C904_652.8 S3 ME3SA4**	190	**C904_652.8 P90 BE90S4**	188
3.0	3147	2.3	582.8	55620	**C904_582.8 S3 ME3SA4**	190	**C904_582.8 P90 BE90S4**	188
3.0	3118	1.3	577.4	32410	**C804_577.4 S3 ME3SA4**	184	**C804_577.4 P90 BE90S4**	182
3.3	2885	2.5	534.2	55620	**C904_534.2 S3 ME3SA4**	190	**C904_534.2 P90 BE90S4**	188
3.3	2858	1.4	529.3	32410	**C804_529.3 S3 ME3SA4**	184	**C804_529.3 P90 BE90S4**	182
3.8	2469	2.9	457.1	55620	**C904_457.1 S3 ME3SA4**	190	**C904_457.1 P90 BE90S4**	188
3.8	2459	1.6	455.4	32410	**C804_455.4 S3 ME3SA4**	184	**C804_455.4 P90 BE90S4**	182
3.9	2395	1.0	443.5	23175	**C704_443.5 S3 ME3SA4**	178	**C704_443.5 P90 BE90S4**	176
4.2	2254	1.8	417.5	32410	**C804_417.5 S3 ME3SA4**	184	**C804_417.5 P90 BE90S4**	182
4.3	2211	1.0	409.4	23175	**C704_409.4 S3 ME3SA4**	178	**C704_409.4 P90 BE90S4**	176
4.8	1969	2.0	364.7	32410	**C804_364.7 S3 ME3SA4**	184	**C804_364.7 P90 BE90S4**	182
5.1	1859	1.2	344.3	23175	**C704_344.3 S3 ME3SA4**	178	**C704_344.3 P90 BE90S4**	176
5.2	1805	2.2	334.3	32410	**C804_334.3 S3 ME3SA4**	184	**C804_334.3 P90 BE90S4**	182
5.5	1716	1.3	317.9	23175	**C704_317.9 S3 ME3SA4**	178	**C704_317.9 P90 BE90S4**	176
5.8	1629	1.0	301.7	14624	**C614_301.7 S3 ME3SA4**	170	**C614_301.7 P90 BE90S4**	168
6.1	1543	2.6	285.7	32410	**C804_285.7 S3 ME3SA4**	184	**C804_285.7 P90 BE90S4**	182
6.3	1486	1.1	275.3	14624	**C614_275.3 S3 ME3SA4**	170	**C614_275.3 P90 BE90S4**	168
6.4	1470	1.6	272.2	23175	**C704_272.2 S3 ME3SA4**	178	**C704_272.2 P90 BE90S4**	176
6.6	1414	2.8	261.9	32410	**C804_261.9 S3 ME3SA4**	184	**C804_261.9 P90 BE90S4**	182
6.9	1357	1.7	251.3	23175	**C704_251.3 S3 ME3SA4**	178	**C704_251.3 P90 BE90S4**	176
7.3	1335	1.7	239.3	23175	**C703_239.3 S3 ME3SA4**	178	**C703_239.3 P90 BE90S4**	176
7.3	1287	1.2	238.3	14624	**C614_238.3 S3 ME3SA4**	170	**C614_238.3 P90 BE90S4**	168
7.9	1233	1.8	220.9	23175	**C703_220.9 S3 ME3SA4**	178	**C703_220.9 P90 BE90S4**	176
8.0	1174	1.4	217.4	14624	**C614_217.4 S3 ME3SA4**	170	**C614_217.4 P90 BE90S4**	168
8.8	1104	0.9	197.9	9120	**C513_197.9 S3 ME3SA4**	162	**C513_197.9 P90 BE90S4**	160
8.9	1057	1.5	195.8	14624	**C613_195.8 S3 ME3SA4**	170	**C613_195.8 P90 BE90S4**	168
9.0	1083	2.1	194.1	23175	**C703_194.1 S3 ME3SA4**	178	**C703_194.1 P90 BE90S4**	176
9.7	1000	2.3	179.2	23175	**C703_179.2 S3 ME3SA4**	178	**C703_179.2 P90 BE90S4**	176
9.7	964	1.7	178.6	14624	**C613_178.6 S3 ME3SA4**	170	**C613_178.6 P90 BE90S4**	168
9.9	981	1.0	175.8	9120	**C513_175.8 S3 ME3SA4**	162	**C513_175.8 P90 BE90S4**	160
10.6	888	1.8	164.5	14624	**C613_164.5 S3 ME3SA4**	170	**C613_164.5 P90 BE90S4**	168
10.7	909	2.5	162.8	23175	**C703_162.8 S3 ME3SA4**	178	**C703_162.8 P90 BE90S4**	176
10.8	896	1.1	160.5	9120	**C513_160.5 S3 ME3SA4**	162	**C513_160.5 P90 BE90S4**	160
11.6	839	2.7	150.3	23175	**C703_150.3 S3 ME3SA4**	178	**C703_150.3 P90 BE90S4**	176
11.6	810	2.0	150.0	14624	**C613_150.0 S3 ME3SA4**	170	**C613_150.0 P90 BE90S4**	168
11.8	823	1.2	147.4	9120	**C513_147.4 S3 ME3SA4**	162	**C513_147.4 P90 BE90S4**	160
12.4	759	2.1	140.5	14624	**C613_140.5 S3 ME3SA4**	170	**C613_140.5 P90 BE90S4**	168
12.7	767	3.0	137.4	23175	**C703_137.4 S3 ME3SA4**	178	**C703_137.4 P90 BE90S4**	176
12.9	751	1.3	134.6	9120	**C513_134.6 S3 ME3SA4**	162	**C513_134.6 P90 BE90S4**	160
13.6	692	2.3	128.1	14624	**C613_128.1 S3 ME3SA4**	170	**C613_128.1 P90 BE90S4**	168
14.0	694	1.4	124.4	9120	**C513_124.4 S3 ME3SA4**	162	**C513_124.4 P90 BE90S4**	160
15.3	613	2.6	113.6	14624	**C613_113.6 S3 ME3SA4**	170	**C613_113.6 P90 BE90S4**	168
15.3	634	1.6	113.6	9120	**C513_113.6 S3 ME3SA4**	162	**C513_113.6 P90 BE90S4**	160
15.8	614	1.0	110.1	6370	**C413_110.1 S3 ME3SA4**	154	**C413_110.1 P90 BE90S4**	152
16.8	560	2.9	103.6	14624	**C613_103.6 S3 ME3SA4**	170	**C613_103.6 P90 BE90S4**	168
17.0	571	1.1	102.3	6370	**C413_102.3 S3 ME3SA4**	154	**C413_102.3 P90 BE90S4**	152
17.1	568	1.8	101.8	9120	**C513_101.8 S3 ME3SA4**	162	**C513_101.8 P90 BE90S4**	160
18.6	521	1.2	93.3	6370	**C413_93.3 S3 ME3SA4**	154	**C413_93.3 P90 BE90S4**	152
18.7	519	1.9	93.0	9120	**C513_93.0 S3 ME3SA4**	162	**C513_93.0 P90 BE90S4**	160
20.9	464	1.0	83.1	5713	**C363_83.1 S3 ME3SA4**	146	**C363_83.1 P90 BE90S4**	144
21.3	455	1.3	81.5	6370	**C413_81.5 S3 ME3SA4**	154	**C413_81.5 P90 BE90S4**	152
21.8	446	2.2	79.9	9120	**C513_79.9 S3 ME3SA4**	162	**C513_79.9 P90 BE90S4**	160
22.4	433	1.0	77.6	5941	**C363_77.6 S3 ME3SA4**	146	**C363_77.6 P90 BE90S4**	144
23.4	415	1.4	74.4	6370	**C413_74.4 S3 ME3SA4**	154	**C413_74.4 P90 BE90S4**	152
23.9	407	2.5	72.9	9120	**C513_72.9 S3 ME3SA4**	162	**C513_72.9 P90 BE90S4**	160

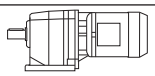


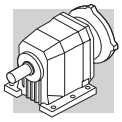
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
24.6	395	1.1	70.8	5941	**C363_70.8 S3 ME3SA4**	146	**C363_70.8 P90 BE90S4**	144
26.9	360	2.8	64.6	9120	**C513_64.6 S3 ME3SA4**	162	**C513_64.6 P90 BE90S4**	160
27.1	359	1.6	64.3	6370	**C413_64.3 S3 ME3SA4**	154	**C413_64.3 P90 BE90S4**	152
28.1	346	1.3	62.0	5941	**C363_62.0 S3 ME3SA4**	146	**C363_62.0 P90 BE90S4**	144
29.5	329	2.9	59.0	9120	**C513_59.0 S3 ME3SA4**	162	**C513_59.0 P90 BE90S4**	160
29.7	327	1.7	58.7	6370	**C413_58.7 S3 ME3SA4**	154	**C413_58.7 P90 BE90S4**	152
31	325	2.3	57.0	9120	**C512_57.0 S3 ME3SA4**	162	**C512_57.0 P90 BE90S4**	160
31	313	1.4	56.2	5941	**C363_56.2 S3 ME3SA4**	146	**C363_56.2 P90 BE90S4**	144
33	299	1.0	52.4	5044	**C322_52.4 S3 ME3SA4**	138	**C322_52.4 P90 BE90S4**	136
34	287	1.9	51.5	6370	**C413_51.5 S3 ME3SA4**	154	**C413_51.5 P90 BE90S4**	152
34	293	2.3	51.4	9120	**C512_51.4 S3 ME3SA4**	162	**C512_51.4 P90 BE90S4**	160
36	269	1.7	48.2	5941	**C363_48.2 S3 ME3SA4**	146	**C363_48.2 P90 BE90S4**	144
36	273	2.9	47.8	9120	**C512_47.8 S3 ME3SA4**	162	**C512_47.8 P90 BE90S4**	160
37	262	2.1	47.0	6370	**C413_47.0 S3 ME3SA4**	154	**C413_47.0 P90 BE90S4**	152
38	258	1.2	45.3	5044	**C322_45.3 S3 ME3SA4**	138	**C322_45.3 P90 BE90S4**	136
39	255	2.0	44.8	6370	**C412_44.8 S3 ME3SA4**	154	**C412_44.8 P90 BE90S4**	152
40	243	1.8	43.5	5941	**C363_43.5 S3 ME3SA4**	146	**C363_43.5 P90 BE90S4**	144
40	246	3.0	43.1	9120	**C512_43.1 S3 ME3SA4**	162	**C512_43.1 P90 BE90S4**	160
43	232	1.2	40.7	5044	**C322_40.7 S3 ME3SA4**	138	**C322_40.7 P90 BE90S4**	136
43	225	2.5	40.3	6370	**C413_40.3 S3 ME3SA4**	154	**C413_40.3 P90 BE90S4**	152
46	212	2.0	38.1	5941	**C363_38.1 S3 ME3SA4**	146	**C363_38.1 P90 BE90S4**	144
47	211	2.2	37.1	6370	**C412_37.1 S3 ME3SA4**	154	**C412_37.1 P90 BE90S4**	152
47	205	2.7	36.8	6370	**C413_36.8 S3 ME3SA4**	154	**C413_36.8 P90 BE90S4**	152
48	206	1.4	36.1	5044	**C322_36.1 S3 ME3SA4**	138	**C322_36.1 P90 BE90S4**	136
50	193	2.3	34.6	5758	**C363_34.6 S3 ME3SA4**	146	**C363_34.6 P90 BE90S4**	144
52	190	2.4	33.4	6370	**C412_33.4 S3 ME3SA4**	154	**C412_33.4 P90 BE90S4**	152
53	189	1.0	33.1	2797	**C222_33.1 S3 ME3SA4**	130	**C222_33.1 P90 BE90S4**	128
53	189	1.5	33.1	4970	**C322_33.1 S3 ME3SA4**	138	**C322_33.1 P90 BE90S4**	136
55	179	2.6	31.4	6370	**C412_31.4 S3 ME3SA4**	154	**C412_31.4 P90 BE90S4**	152
58	170	1.6	29.8	4915	**C322_29.8 S3 ME3SA4**	138	**C322_29.8 P90 BE90S4**	136
59	169	1.1	29.6	2916	**C222_29.6 S3 ME3SA4**	130	**C222_29.6 P90 BE90S4**	128
61	160	2.8	28.7	5658	**C363_28.7 S3 ME3SA4**	146	**C363_28.7 P90 BE90S4**	144
61	161	2.9	28.3	6370	**C412_28.3 S3 ME3SA4**	154	**C412_28.3 P90 BE90S4**	152
64	155	1.2	27.2	2888	**C222_27.2 S3 ME3SA4**	130	**C222_27.2 P90 BE90S4**	128
65	153	1.8	26.9	4787	**C322_26.9 S3 ME3SA4**	138	**C322_26.9 P90 BE90S4**	136
69	143	1.9	25.1	4750	**C322_25.1 S3 ME3SA4**	138	**C322_25.1 P90 BE90S4**	136
72	138	1.3	24.3	2879	**C222_24.3 S3 ME3SA4**	130	**C222_24.3 P90 BE90S4**	128
76	131	2.1	22.9	4631	**C322_22.9 S3 ME3SA4**	138	**C322_22.9 P90 BE90S4**	136
81	122	1.5	21.5	2852	**C222_21.5 S3 ME3SA4**	130	**C222_21.5 P90 BE90S4**	128
87	114	2.4	20.1	4512	**C322_20.1 S3 ME3SA4**	138	**C322_20.1 P90 BE90S4**	136
87	114	1.5	20.0	2815	**C222_20.0 S3 ME3SA4**	130	**C222_20.0 P90 BE90S4**	128
96	104	2.4	18.2	4365	**C322_18.2 S3 ME3SA4**	138	**C322_18.2 P90 BE90S4**	136
96	103	1.6	18.1	2760	**C222_18.1 S3 ME3SA4**	130	**C222_18.1 P90 BE90S4**	128
110	90	1.8	15.8	2715	**C222_15.8 S3 ME3SA4**	130	**C222_15.8 P90 BE90S4**	128
112	89	2.8	15.6	4246	**C322_15.6 S3 ME3SA4**	138	**C322_15.6 P90 BE90S4**	136
120	83	1.9	14.5	2687	**C222_14.5 S3 ME3SA4**	130	**C222_14.5 P90 BE90S4**	128
124	80	2.9	14.1	4108	**C322_14.1 S3 ME3SA4**	138	**C322_14.1 P90 BE90S4**	136
140	71	2.1	12.4	2596	**C222_12.4 S3 ME3SA4**	130	**C222_12.4 P90 BE90S4**	128
147	68	0.9	11.9	1458	**C122_11.9 S3 ME3SA4**	122	**C122_11.9 P90 BE90S4**	120
157	63	2.2	11.1	2559	**C222_11.1 S3 ME3SA4**	130	**C222_11.1 P90 BE90S4**	128
173	57	1.0	10.1	1275	**C122_10.1 S3 ME3SA4**	122	**C122_10.1 P90 BE90S4**	120
180	55	2.4	9.6	2468	**C222_9.6 S3 ME3SA4**	130	**C222_9.6 P90 BE90S4**	128
197	50	1.1	8.8	1421	**C122_8.8 S3 ME3SA4**	122	**C122_8.8 P90 BE90S4**	120
201	49	2.6	8.7	2404	**C222_8.7 S3 ME3SA4**	130	**C222_8.7 P90 BE90S4**	128
228	43	1.2	7.6	1412	**C122_7.6 S3 ME3SA4**	122	**C122_7.6 P90 BE90S4**	120
246	40	3.0	7.1	2294	**C222_7.1 S3 ME3SA4**	130	**C222_7.1 P90 BE90S4**	128
279	36	1.4	6.2	1111	**C122_6.2 S3 ME3SA4**	122	**C122_6.2 P90 BE90S4**	120
286	35	2.8	6.1	2175	**C222_6.1 S3 ME3SA4**	130	**C222_6.1 P90 BE90S4**	128
311	32	1.5	5.6	1157	**C122_5.6 S3 ME3SA4**	122	**C122_5.6 P90 BE90S4**	120
311	32	2.9	5.6	2148	**C222_5.6 S3 ME3SA4**	130	**C222_5.6 P90 BE90S4**	128
357	28	1.6	4.9	1248	**C122_4.9 S3 ME3SA4**	122	**C122_4.9 P90 BE90S4**	120
404	25	1.7	4.3	1203	**C122_4.3 S3 ME3SA4**	122	**C122_4.3 P90 BE90S4**	120
477	21	1.9	3.7	1166	**C122_3.7 S3 ME3SA4**	122	**C122_3.7 P90 BE90S4**	120
542	18	2.0	3.2	1121	**C122_3.2 S3 ME3SA4**	122	**C122_3.2 P90 BE90S4**	120
629	16	2.2	2.8	1084	**C122_2.8 S3 ME3SA4**	122	**C122_2.8 P90 BE90S4**	120



1.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
1.6	7979	1.5	1081.1	78795	**C1004_1081 S3 ME3SB4**	196	**C1004_1081 P90 BE90LA4**	194
1.7	7425	1.0	1006.1	55620	**C904_1006 S3 ME3SB4**	190	**C904_1006 P90 BE90LA4**	188
1.7	7409	1.6	1003.9	78795	**C1004_1004 S3 ME3SB4**	196	**C1004_1004 P90 BE90LA4**	194
1.9	6807	1.1	922.3	55620	**C904_922.3 S3 ME3SB4**	190	**C904_922.3 P90 BE90LA4**	188
1.9	6703	1.8	908.2	78795	**C1004_908.2 S3 ME3SB4**	196	**C1004_908.2 P90 BE90LA4**	194
2.1	6228	1.2	844.0	55620	**C904_844.0 S3 ME3SB4**	190	**C904_844.0 P90 BE90LA4**	188
2.1	6224	1.9	843.3	78795	**C1004_843.3 S3 ME3SB4**	196	**C1004_843.3 P90 BE90LA4**	194
2.2	5725	2.1	775.7	78795	**C1004_775.7 S3 ME3SB4**	196	**C1004_775.7 P90 BE90LA4**	194
2.2	5709	1.3	773.6	55620	**C904_773.6 S3 ME3SB4**	190	**C904_773.6 P90 BE90LA4**	188
2.4	5316	2.3	720.3	78795	**C1004_720.3 S3 ME3SB4**	196	**C1004_720.3 P90 BE90LA4**	194
2.4	5256	1.4	712.2	55620	**C904_712.2 S3 ME3SB4**	190	**C904_712.2 P90 BE90LA4**	188
2.7	4818	1.5	652.8	55620	**C904_652.8 S3 ME3SB4**	190	**C904_652.8 P90 BE90LA4**	188
2.8	4630	2.6	627.4	78795	**C1004_627.4 S3 ME3SB4**	196	**C1004_627.4 P90 BE90LA4**	194
3.0	4301	1.7	582.8	55620	**C904_582.8 S3 ME3SB4**	190	**C904_582.8 P90 BE90LA4**	188
3.0	4300	2.8	582.6	78795	**C1004_582.6 S3 ME3SB4**	196	**C1004_582.6 P90 BE90LA4**	194
3.0	4261	0.9	577.4	32410	**C804_577.4 S3 ME3SB4**	184	**C804_577.4 P90 BE90LA4**	182
3.3	3943	1.8	534.2	55620	**C904_534.2 S3 ME3SB4**	190	**C904_534.2 P90 BE90LA4**	188
3.3	3906	1.0	529.3	32410	**C804_529.3 S3 ME3SB4**	184	**C804_529.3 P90 BE90LA4**	182
3.8	3374	2.1	457.1	55620	**C904_457.1 S3 ME3SB4**	190	**C904_457.1 P90 BE90LA4**	188
3.8	3361	1.2	455.4	32410	**C804_455.4 S3 ME3SB4**	184	**C804_455.4 P90 BE90LA4**	182
4.2	3093	2.3	419.0	55620	**C904_419.0 S3 ME3SB4**	190	**C904_419.0 P90 BE90LA4**	188
4.2	3081	1.3	417.5	32410	**C804_417.5 S3 ME3SB4**	184	**C804_417.5 P90 BE90LA4**	182
4.7	2729	2.6	369.8	55620	**C904_369.8 S3 ME3SB4**	190	**C904_369.8 P90 BE90LA4**	188
4.8	2691	1.5	364.7	32410	**C804_364.7 S3 ME3SB4**	184	**C804_364.7 P90 BE90LA4**	182
5.1	2541	0.9	344.3	23175	**C704_344.3 S3 ME3SB4**	178	**C704_344.3 P90 BE90LA4**	176
5.1	2501	2.9	339.0	55620	**C904_339.0 S3 ME3SB4**	190	**C904_339.0 P90 BE90LA4**	188
5.2	2467	1.6	334.3	32410	**C804_334.3 S3 ME3SB4**	184	**C804_334.3 P90 BE90LA4**	182
5.5	2346	1.0	317.9	23175	**C704_317.9 S3 ME3SB4**	178	**C704_317.9 P90 BE90LA4**	176
6.1	2108	1.9	285.7	32410	**C804_285.7 S3 ME3SB4**	184	**C804_285.7 P90 BE90LA4**	182
6.4	2009	1.1	272.2	23175	**C704_272.2 S3 ME3SB4**	178	**C704_272.2 P90 BE90LA4**	176
6.6	1932	2.1	261.9	32410	**C804_261.9 S3 ME3SB4**	184	**C804_261.9 P90 BE90LA4**	182
6.9	1854	1.2	251.3	23175	**C704_251.3 S3 ME3SB4**	178	**C704_251.3 P90 BE90LA4**	176
7.3	1825	1.3	239.3	23175	**C703_239.3 S3 ME3SB4**	178	**C703_239.3 P90 BE90LA4**	176
7.3	1759	0.9	238.3	14624	**C614_238.3 S3 ME3SB4**	170	**C614_238.3 P90 BE90LA4**	168
7.9	1685	1.3	220.9	23175	**C703_220.9 S3 ME3SB4**	178	**C703_220.9 P90 BE90LA4**	176
8.0	1604	1.0	217.4	14624	**C614_217.4 S3 ME3SB4**	170	**C614_217.4 P90 BE90LA4**	168
8.1	1646	2.4	215.8	32410	**C803_215.8 S3 ME3SB4**	184	**C803_215.8 P90 BE90LA4**	182
8.8	1509	2.7	197.9	32410	**C803_197.9 S3 ME3SB4**	184	**C803_197.9 P90 BE90LA4**	182
8.9	1445	1.1	195.8	14624	**C613_195.8 S3 ME3SB4**	170	**C613_195.8 P90 BE90LA4**	168
9.0	1480	1.6	194.1	23175	**C703_194.1 S3 ME3SB4**	178	**C703_194.1 P90 BE90LA4**	176
9.4	1406	2.8	184.4	32410	**C803_184.4 S3 ME3SB4**	184	**C803_184.4 P90 BE90LA4**	182
9.7	1366	1.7	179.2	23175	**C703_179.2 S3 ME3SB4**	178	**C703_179.2 P90 BE90LA4**	176
9.7	1318	1.2	178.6	14624	**C613_178.6 S3 ME3SB4**	170	**C613_178.6 P90 BE90LA4**	168
10.6	1214	1.3	164.5	14624	**C613_164.5 S3 ME3SB4**	170	**C613_164.5 P90 BE90LA4**	168
10.7	1242	1.9	162.8	23175	**C703_162.8 S3 ME3SB4**	178	**C703_162.8 P90 BE90LA4**	176
11.6	1146	2.0	150.3	23175	**C703_150.3 S3 ME3SB4**	178	**C703_150.3 P90 BE90LA4**	176
11.6	1107	1.4	150.0	14624	**C613_150.0 S3 ME3SB4**	170	**C613_150.0 P90 BE90LA4**	168
12.4	1037	1.5	140.5	14624	**C613_140.5 S3 ME3SB4**	170	**C613_140.5 P90 BE90LA4**	168
12.7	1048	2.2	137.4	23175	**C703_137.4 S3 ME3SB4**	178	**C703_137.4 P90 BE90LA4**	176
12.9	1027	1.0	134.6	9120	**C513_134.6 S3 ME3SB4**	162	**C513_134.6 P90 BE90LA4**	160
13.6	946	1.7	128.1	14624	**C613_128.1 S3 ME3SB4**	170	**C613_128.1 P90 BE90LA4**	168
13.7	967	2.4	126.8	23175	**C703_126.8 S3 ME3SB4**	178	**C703_126.8 P90 BE90LA4**	176
14.0	949	1.1	124.4	9120	**C513_124.4 S3 ME3SB4**	162	**C513_124.4 P90 BE90LA4**	160
15.3	838	1.9	113.6	14624	**C613_113.6 S3 ME3SB4**	170	**C613_113.6 P90 BE90LA4**	168
15.3	866	1.2	113.6	9120	**C513_113.6 S3 ME3SB4**	162	**C513_113.6 P90 BE90LA4**	160
15.5	857	2.7	112.4	23175	**C703_112.4 S3 ME3SB4**	178	**C703_112.4 P90 BE90LA4**	176
16.8	792	2.9	103.8	23175	**C703_103.8 S3 ME3SB4**	178	**C703_103.8 P90 BE90LA4**	176
16.8	765	2.1	103.6	14624	**C613_103.6 S3 ME3SB4**	170	**C613_103.6 P90 BE90LA4**	168
17.1	776	1.3	101.8	9120	**C513_101.8 S3 ME3SB4**	162	**C513_101.8 P90 BE90LA4**	160
18.7	709	1.4	93.0	9120	**C513_93.0 S3 ME3SB4**	162	**C513_93.0 P90 BE90LA4**	160
19.1	672	2.4	91.0	14624	**C613_91.0 S3 ME3SB4**	170	**C613_91.0 P90 BE90LA4**	168
21.0	613	2.6	83.0	14624	**C613_83.0 S3 ME3SB4**	170	**C613_83.0 P90 BE90LA4**	168
21.3	622	1.0	81.5	6370	**C413_81.5 S3 ME3SB4**	154	**C413_81.5 P90 BE90LA4**	152
21.8	609	1.6	79.9	9120	**C513_79.9 S3 ME3SB4**	162	**C513_79.9 P90 BE90LA4**	160
23.4	567	1.0	74.4	6370	**C413_74.4 S3 ME3SB4**	154	**C413_74.4 P90 BE90LA4**	152
23.5	548	2.8	74.2	14624	**C613_74.2 S3 ME3SB4**	170	**C613_74.2 P90 BE90LA4**	168



1.5 kW

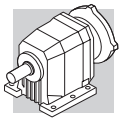
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
23.9	556	1.8	72.9	9120	**C513_72.9 S3 ME3SB4**	162	**C513_72.9 P90 BE90LA4**	160
25.7	500	3.0	67.7	14624	**C613_67.7 S3 ME3SB4**	170	**C613_67.7 P90 BE90LA4**	168
26.9	493	2.0	64.6	9120	**C513_64.6 S3 ME3SB4**	162	**C513_64.6 P90 BE90LA4**	160
27.1	490	1.1	64.3	6370	**C413_64.3 S3 ME3SB4**	154	**C413_64.3 P90 BE90LA4**	152
28.1	473	1.0	62.0	5484	**C363_62.0 S3 ME3SB4**	146	**C363_62.0 P90 BE90LA4**	144
29.5	450	2.2	59.0	9120	**C513_59.0 S3 ME3SB4**	162	**C513_59.0 P90 BE90LA4**	160
29.7	447	1.2	58.7	6370	**C413_58.7 S3 ME3SB4**	154	**C413_58.7 P90 BE90LA4**	152
31	444	1.7	57.0	9120	**C512_57.0 S3 ME3SB4**	162	**C512_57.0 P90 BE90LA4**	160
31	428	1.1	56.2	5804	**C363_56.2 S3 ME3SB4**	146	**C363_56.2 P90 BE90LA4**	144
34	393	1.4	51.5	6370	**C413_51.5 S3 ME3SB4**	154	**C413_51.5 P90 BE90LA4**	152
34	400	1.7	51.4	9120	**C512_51.4 S3 ME3SB4**	162	**C512_51.4 P90 BE90LA4**	160
34	390	2.4	51.2	9120	**C513_51.2 S3 ME3SB4**	162	**C513_51.2 P90 BE90LA4**	160
36	367	1.2	48.2	5749	**C363_48.2 S3 ME3SB4**	146	**C363_48.2 P90 BE90LA4**	144
36	373	2.1	47.8	9120	**C512_47.8 S3 ME3SB4**	162	**C512_47.8 P90 BE90LA4**	160
37	358	1.6	47.0	6370	**C413_47.0 S3 ME3SB4**	154	**C413_47.0 P90 BE90LA4**	152
37	356	2.6	46.7	9120	**C513_46.7 S3 ME3SB4**	162	**C513_46.7 P90 BE90LA4**	160
39	349	1.4	44.8	6370	**C412_44.8 S3 ME3SB4**	154	**C412_44.8 P90 BE90LA4**	152
40	332	1.3	43.5	5585	**C363_43.5 S3 ME3SB4**	146	**C363_43.5 P90 BE90LA4**	144
40	336	2.2	43.1	9120	**C512_43.1 S3 ME3SB4**	162	**C512_43.1 P90 BE90LA4**	160
43	317	0.9	40.7	4631	**C322_40.7 S3 ME3SB4**	138	**C322_40.7 P90 BE90LA4**	136
43	309	3.0	40.5	9120	**C513_40.5 S3 ME3SB4**	162	**C513_40.5 P90 BE90LA4**	160
43	314	2.5	40.4	9120	**C512_40.4 S3 ME3SB4**	162	**C512_40.4 P90 BE90LA4**	160
43	308	1.8	40.3	6370	**C413_40.3 S3 ME3SB4**	154	**C413_40.3 P90 BE90LA4**	152
46	290	1.5	38.1	5585	**C363_38.1 S3 ME3SB4**	146	**C363_38.1 P90 BE90LA4**	144
47	289	1.6	37.1	6370	**C412_37.1 S3 ME3SB4**	154	**C412_37.1 P90 BE90LA4**	152
47	281	2.0	36.8	6370	**C413_36.8 S3 ME3SB4**	154	**C413_36.8 P90 BE90LA4**	152
48	283	2.6	36.4	9120	**C512_36.4 S3 ME3SB4**	162	**C512_36.4 P90 BE90LA4**	160
48	281	1.0	36.1	4677	**C322_36.1 S3 ME3SB4**	138	**C322_36.1 P90 BE90LA4**	136
50	264	1.7	34.6	5438	**C363_34.6 S3 ME3SB4**	146	**C363_34.6 P90 BE90LA4**	144
52	260	1.8	33.4	6370	**C412_33.4 S3 ME3SB4**	154	**C412_33.4 P90 BE90LA4**	152
53	258	1.1	33.1	4631	**C322_33.1 S3 ME3SB4**	138	**C322_33.1 P90 BE90LA4**	136
55	245	1.9	31.4	6361	**C412_31.4 S3 ME3SB4**	154	**C412_31.4 P90 BE90LA4**	152
56	238	2.2	31.2	6188	**C413_31.2 S3 ME3SB4**	154	**C413_31.2 P90 BE90LA4**	152
58	232	1.2	29.8	4557	**C322_29.8 S3 ME3SB4**	138	**C322_29.8 P90 BE90LA4**	136
61	219	2.1	28.7	5329	**C363_28.7 S3 ME3SB4**	146	**C363_28.7 P90 BE90LA4**	144
61	217	2.4	28.5	5906	**C413_28.5 S3 ME3SB4**	154	**C413_28.5 P90 BE90LA4**	152
61	221	2.1	28.3	6215	**C412_28.3 S3 ME3SB4**	154	**C412_28.3 P90 BE90LA4**	152
65	210	1.3	26.9	4484	**C322_26.9 S3 ME3SB4**	138	**C322_26.9 P90 BE90LA4**	136
66	200	2.2	26.2	5219	**C363_26.2 S3 ME3SB4**	146	**C363_26.2 P90 BE90LA4**	144
69	196	1.4	25.1	4438	**C322_25.1 S3 ME3SB4**	138	**C322_25.1 P90 BE90LA4**	136
69	195	2.4	25.0	6079	**C412_25.0 S3 ME3SB4**	154	**C412_25.0 P90 BE90LA4**	152
72	189	1.0	24.3	2422	**C222_24.3 S3 ME3SB4**	130	**C222_24.3 P90 BE90LA4**	128
76	178	1.5	22.9	4356	**C322_22.9 S3 ME3SB4**	138	**C322_22.9 P90 BE90LA4**	136
77	176	2.6	22.6	5924	**C412_22.6 S3 ME3SB4**	154	**C412_22.6 P90 BE90LA4**	152
79	169	2.5	22.1	5054	**C363_22.1 S3 ME3SB4**	146	**C363_22.1 P90 BE90LA4**	144
81	167	1.1	21.5	2376	**C222_21.5 S3 ME3SB4**	130	**C222_21.5 P90 BE90LA4**	128
87	156	1.7	20.1	4264	**C322_20.1 S3 ME3SB4**	138	**C322_20.1 P90 BE90LA4**	136
87	156	1.1	20.0	2504	**C222_20.0 S3 ME3SB4**	130	**C222_20.0 P90 BE90LA4**	128
88	154	2.9	19.8	5760	**C412_19.8 S3 ME3SB4**	154	**C412_19.8 P90 BE90LA4**	152
92	148	2.6	19.0	4872	**C362_19.0 S3 ME3SB4**	146	**C362_19.0 P90 BE90LA4**	144
96	142	1.8	18.2	4145	**C322_18.2 S3 ME3SB4**	138	**C322_18.2 P90 BE90LA4**	136
96	141	1.2	18.1	2468	**C222_18.1 S3 ME3SB4**	130	**C222_18.1 P90 BE90LA4**	128
101	134	2.8	17.2	4698	**C362_17.2 S3 ME3SB4**	146	**C362_17.2 P90 BE90LA4**	144
110	123	1.3	15.8	2468	**C222_15.8 S3 ME3SB4**	130	**C222_15.8 P90 BE90LA4**	128
112	121	2.0	15.6	4044	**C322_15.6 S3 ME3SB4**	138	**C322_15.6 P90 BE90LA4**	136
120	113	1.4	14.5	2468	**C222_14.5 S3 ME3SB4**	130	**C222_14.5 P90 BE90LA4**	128
124	110	2.1	14.1	3925	**C322_14.1 S3 ME3SB4**	138	**C322_14.1 P90 BE90LA4**	136
140	97	1.5	12.4	2404	**C222_12.4 S3 ME3SB4**	130	**C222_12.4 P90 BE90LA4**	128
141	96	2.3	12.3	3833	**C322_12.3 S3 ME3SB4**	138	**C322_12.3 P90 BE90LA4**	136
155	87	2.4	11.2	3714	**C322_11.2 S3 ME3SB4**	138	**C322_11.2 P90 BE90LA4**	136
157	86	1.6	11.1	2376	**C222_11.1 S3 ME3SB4**	130	**C222_11.1 P90 BE90LA4**	128
180	75	1.8	9.6	2312	**C222_9.6 S3 ME3SB4**	130	**C222_9.6 P90 BE90LA4**	128
187	72	2.8	9.3	3576	**C322_9.3 S3 ME3SB4**	138	**C322_9.3 P90 BE90LA4**	136
201	67	1.9	8.7	2258	**C222_8.7 S3 ME3SB4**	130	**C222_8.7 P90 BE90LA4**	128
205	66	2.9	8.5	3475	**C322_8.5 S3 ME3SB4**	138	**C322_8.5 P90 BE90LA4**	136
246	55	2.2	7.1	2175	**C222_7.1 S3 ME3SB4**	130	**C222_7.1 P90 BE90LA4**	128

1.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
279	49	1.0	6.2	547	**C122_6.2 S3 ME3SB4**	122	**C122_6.2 P90 BE90LA4**	120
286	47	2.0	6.1	2057	**C222_6.1 S3 ME3SB4**	130	**C222_6.1 P90 BE90LA4**	128
311	44	1.1	5.6	656	**C122_5.6 S3 ME3SB4**	122	**C122_5.6 P90 BE90LA4**	120
311	44	2.2	5.6	2011	**C222_5.6 S3 ME3SB4**	130	**C222_5.6 P90 BE90LA4**	128
357	38	1.2	4.9	765	**C122_4.9 S3 ME3SB4**	122	**C122_4.9 P90 BE90LA4**	120
365	37	2.5	4.8	1956	**C222_4.8 S3 ME3SB4**	130	**C222_4.8 P90 BE90LA4**	128
404	34	1.2	4.3	847	**C122_4.3 S3 ME3SB4**	122	**C122_4.3 P90 BE90LA4**	120
409	33	2.6	4.3	1919	**C222_4.3 S3 ME3SB4**	130	**C222_4.3 P90 BE90LA4**	128
469	29	2.9	3.7	1846	**C222_3.7 S3 ME3SB4**	130	**C222_3.7 P90 BE90LA4**	128
477	28	1.4	3.7	1002	**C122_3.7 S3 ME3SB4**	122	**C122_3.7 P90 BE90LA4**	120
542	25	1.5	3.2	1020	**C122_3.2 S3 ME3SB4**	122	**C122_3.2 P90 BE90LA4**	120
629	22	1.6	2.8	1039	**C122_2.8 S3 ME3SB4**	122	**C122_2.8 P90 BE90LA4**	120

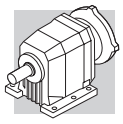
2.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.6	11676	1.0	1081.1	78795	**C1004_1081 S3 ME3LA4**	196	**C1004_1081 P100 BE100LA4**	194
1.7	10842	1.1	1003.9	78795	**C1004_1004 S3 ME3LA4**	196	**C1004_1004 P100 BE100LA4**	194
1.9	9809	1.2	908.2	78795	**C1004_908.2 S3 ME3LA4**	196	**C1004_908.2 P100 BE100LA4**	194
2.1	9108	1.3	843.3	78795	**C1004_843.3 S3 ME3LA4**	196	**C1004_843.3 P100 BE100LA4**	194
2.2	8378	1.4	775.7	78795	**C1004_775.7 S3 ME3LA4**	196	**C1004_775.7 P100 BE100LA4**	194
2.4	7779	1.5	720.3	78795	**C1004_720.3 S3 ME3LA4**	196	**C1004_720.3 P100 BE100LA4**	194
2.5	7692	0.9	712.2	55620	**C904_712.2 S3 ME3LA4**	190	**C904_712.2 P100 BE100LA4**	188
2.7	7051	1.0	652.8	55620	**C904_652.8 S3 ME3LA4**	190	**C904_652.8 P100 BE100LA4**	188
2.8	6776	1.8	627.4	78795	**C1004_627.4 S3 ME3LA4**	196	**C1004_627.4 P100 BE100LA4**	194
3.0	6294	1.1	582.8	55620	**C904_582.8 S3 ME3LA4**	190	**C904_582.8 P100 BE100LA4**	188
3.0	6292	1.9	582.6	78795	**C1004_582.6 S3 ME3LA4**	196	**C1004_582.6 P100 BE100LA4**	194
3.3	5770	1.2	534.2	55620	**C904_534.2 S3 ME3LA4**	190	**C904_534.2 P100 BE100LA4**	188
3.5	5428	2.2	502.6	78795	**C1004_502.6 S3 ME3LA4**	196	**C1004_502.6 P100 BE100LA4**	194
3.7	5041	2.4	466.7	78795	**C1004_466.7 S3 ME3LA4**	196	**C1004_466.7 P100 BE100LA4**	194
3.8	4937	1.5	457.1	55620	**C904_457.1 S3 ME3LA4**	190	**C904_457.1 P100 BE100LA4**	188
4.2	4526	1.6	419.0	55620	**C904_419.0 S3 ME3LA4**	190	**C904_419.0 P100 BE100LA4**	188
4.3	4425	2.7	409.8	78795	**C1004_409.8 S3 ME3LA4**	196	**C1004_409.8 P100 BE100LA4**	194
4.6	4109	2.9	380.5	78795	**C1004_380.5 S3 ME3LA4**	196	**C1004_380.5 P100 BE100LA4**	194
4.7	3993	1.8	369.8	55620	**C904_369.8 S3 ME3LA4**	190	**C904_369.8 P100 BE100LA4**	188
4.8	3938	1.0	364.7	32410	**C804_364.7 S3 ME3LA4**	184	**C804_364.7 P100 BE100LA4**	182
5.1	3661	2.0	339.0	55620	**C904_339.0 S3 ME3LA4**	190	**C904_339.0 P100 BE100LA4**	188
5.2	3610	1.1	334.3	32410	**C804_334.3 S3 ME3LA4**	184	**C804_334.3 P100 BE100LA4**	182
6.0	3163	2.3	292.9	55620	**C904_292.9 S3 ME3LA4**	190	**C904_292.9 P100 BE100LA4**	188
6.1	3085	1.3	285.7	32410	**C804_285.7 S3 ME3LA4**	184	**C804_285.7 P100 BE100LA4**	182
6.5	2900	2.5	268.5	55620	**C904_268.5 S3 ME3LA4**	190	**C904_268.5 P100 BE100LA4**	188
6.7	2828	1.4	261.9	32410	**C804_261.9 S3 ME3LA4**	184	**C804_261.9 P100 BE100LA4**	182
7.5	2502	2.9	231.7	55620	**C904_231.7 S3 ME3LA4**	190	**C904_231.7 P100 BE100LA4**	188
7.9	2465	0.9	220.9	23175	**C703_220.9 S3 ME3LA4**	178	**C703_220.9 P100 BE100LA4**	176
8.1	2409	1.7	215.8	32410	**C803_215.8 S3 ME3LA4**	184	**C803_215.8 P100 BE100LA4**	182
8.8	2208	1.8	197.9	32410	**C803_197.9 S3 ME3LA4**	184	**C803_197.9 P100 BE100LA4**	182
9.0	2166	1.1	194.1	23175	**C703_194.1 S3 ME3LA4**	178	**C703_194.1 P100 BE100LA4**	176
9.5	2057	1.9	184.4	32410	**C803_184.4 S3 ME3LA4**	184	**C803_184.4 P100 BE100LA4**	182
9.7	2000	1.2	179.2	23175	**C703_179.2 S3 ME3LA4**	178	**C703_179.2 P100 BE100LA4**	176
10.3	1886	2.1	169.0	32410	**C803_169.0 S3 ME3LA4**	184	**C803_169.0 P100 BE100LA4**	182
10.6	1776	0.9	164.5	14624	**C613_164.5 S3 ME3LA4**	170	**C613_164.5 P100 BE100LA4**	168
10.7	1817	1.3	162.8	23175	**C703_162.8 S3 ME3LA4**	178	**C703_162.8 P100 BE100LA4**	176
11.6	1677	1.4	150.3	23175	**C703_150.3 S3 ME3LA4**	178	**C703_150.3 P100 BE100LA4**	176
11.6	1620	1.0	150.0	14624	**C613_150.0 S3 ME3LA4**	170	**C613_150.0 P100 BE100LA4**	168
11.7	1664	2.4	149.1	32410	**C803_149.1 S3 ME3LA4**	184	**C803_149.1 P100 BE100LA4**	182
12.4	1517	1.1	140.5	14624	**C613_140.5 S3 ME3LA4**	170	**C613_140.5 P100 BE100LA4**	168
12.7	1533	1.5	137.4	23175	**C703_137.4 S3 ME3LA4**	178	**C703_137.4 P100 BE100LA4**	176
12.8	1525	2.6	136.7	32410	**C803_136.7 S3 ME3LA4**	184	**C803_136.7 P100 BE100LA4**	182
13.6	1384	1.2	128.1	14624	**C613_128.1 S3 ME3LA4**	170	**C613_128.1 P100 BE100LA4**	168
13.8	1415	1.6	126.8	23175	**C703_126.8 S3 ME3LA4**	178	**C703_126.8 P100 BE100LA4**	176

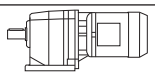


2.2 kW

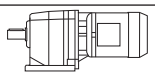
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
15.4	1227	1.3	113.6	14624	**C613_113.6 S3 ME3LA4**	170	**C613_113.6 P100 BE100LA4**	168
15.5	1255	1.8	112.4	23175	**C703_112.4 S3 ME3LA4**	178	**C703_112.4 P100 BE100LA4**	176
16.8	1158	2.0	103.8	23175	**C703_103.8 S3 ME3LA4**	178	**C703_103.8 P100 BE100LA4**	176
16.8	1119	1.4	103.6	14624	**C613_103.6 S3 ME3LA4**	170	**C613_103.6 P100 BE100LA4**	168
18.8	1037	1.0	93.0	9120	**C513_93.0 S3 ME3LA4**	162	**C513_93.0 P100 BE100LA4**	160
19.2	983	1.6	91.0	14624	**C613_91.0 S3 ME3LA4**	170	**C613_91.0 P100 BE100LA4**	168
19.8	984	2.3	88.2	23175	**C703_88.2 S3 ME3LA4**	178	**C703_88.2 P100 BE100LA4**	176
21.0	897	1.8	83.0	14624	**C613_83.0 S3 ME3LA4**	170	**C613_83.0 P100 BE100LA4**	168
21.4	909	2.5	81.4	23175	**C703_81.4 S3 ME3LA4**	178	**C703_81.4 P100 BE100LA4**	176
21.9	891	1.1	79.9	9120	**C513_79.9 S3 ME3LA4**	162	**C513_79.9 P100 BE100LA4**	160
23.5	801	1.9	74.2	14624	**C613_74.2 S3 ME3LA4**	170	**C613_74.2 P100 BE100LA4**	168
23.9	814	1.2	72.9	9120	**C513_72.9 S3 ME3LA4**	162	**C513_72.9 P100 BE100LA4**	160
24.5	796	2.8	71.3	23175	**C703_71.3 S3 ME3LA4**	178	**C703_71.3 P100 BE100LA4**	176
25.8	731	2.0	67.7	14624	**C613_67.7 S3 ME3LA4**	170	**C613_67.7 P100 BE100LA4**	168
26.5	735	3.0	65.9	23175	**C703_65.9 S3 ME3LA4**	178	**C703_65.9 P100 BE100LA4**	176
27.0	721	1.4	64.6	9120	**C513_64.6 S3 ME3LA4**	162	**C513_64.6 P100 BE100LA4**	160
29.6	658	1.5	59.0	9120	**C513_59.0 S3 ME3LA4**	162	**C513_59.0 P100 BE100LA4**	160
29.8	633	2.3	58.6	14624	**C613_58.6 S3 ME3LA4**	170	**C613_58.6 P100 BE100LA4**	168
31	650	1.1	57.0	9120	**C512_57.0 S3 ME3LA4**	162	**C512_57.0 P100 BE100LA4**	160
33	577	2.6	53.5	14624	**C613_53.5 S3 ME3LA4**	170	**C613_53.5 P100 BE100LA4**	168
34	575	1.0	51.5	5988	**C413_51.5 S3 ME3LA4**	154	**C413_51.5 P100 BE100LA4**	152
34	586	1.1	51.4	9120	**C512_51.4 S3 ME3LA4**	162	**C512_51.4 P100 BE100LA4**	160
34	571	1.6	51.2	9120	**C513_51.2 S3 ME3LA4**	162	**C513_51.2 P100 BE100LA4**	160
36	545	1.5	47.8	9120	**C512_47.8 S3 ME3LA4**	162	**C512_47.8 P100 BE100LA4**	160
37	514	2.9	47.6	14624	**C613_47.6 S3 ME3LA4**	170	**C613_47.6 P100 BE100LA4**	168
37	524	1.1	47.0	5860	**C413_47.0 S3 ME3LA4**	154	**C413_47.0 P100 BE100LA4**	152
37	521	1.8	46.7	9120	**C513_46.7 S3 ME3LA4**	162	**C513_46.7 P100 BE100LA4**	160
39	510	1.0	44.8	5915	**C412_44.8 S3 ME3LA4**	154	**C412_44.8 P100 BE100LA4**	152
40	485	0.9	43.5	5082	**C363_43.5 S3 ME3LA4**	146	**C363_43.5 P100 BE100LA4**	144
40	492	1.5	43.1	9120	**C512_43.1 S3 ME3LA4**	162	**C512_43.1 P100 BE100LA4**	160
43	452	2.0	40.5	9120	**C513_40.5 S3 ME3LA4**	162	**C513_40.5 P100 BE100LA4**	160
43	460	1.7	40.4	9120	**C512_40.4 S3 ME3LA4**	162	**C512_40.4 P100 BE100LA4**	160
43	450	1.2	40.3	5879	**C413_40.3 S3 ME3LA4**	154	**C413_40.3 P100 BE100LA4**	152
46	425	1.0	38.1	5027	**C363_38.1 S3 ME3LA4**	146	**C363_38.1 P100 BE100LA4**	144
46	433	3.0	38.0	14624	**C612_38.0 S3 ME3LA4**	170	**C612_38.0 P100 BE100LA4**	168
47	423	1.1	37.1	5797	**C412_37.1 S3 ME3LA4**	154	**C412_37.1 P100 BE100LA4**	152
47	412	2.2	37.0	9120	**C513_37.0 S3 ME3LA4**	162	**C513_37.0 P100 BE100LA4**	160
47	411	1.4	36.8	5815	**C413_36.8 S3 ME3LA4**	154	**C413_36.8 P100 BE100LA4**	152
48	415	1.8	36.4	9120	**C512_36.4 S3 ME3LA4**	162	**C512_36.4 P100 BE100LA4**	160
50	386	1.2	34.6	4890	**C363_34.6 S3 ME3LA4**	146	**C363_34.6 P100 BE100LA4**	144
51	390	3.0	34.2	14624	**C612_34.2 S3 ME3LA4**	170	**C612_34.2 P100 BE100LA4**	168
52	381	1.2	33.4	5724	**C412_33.4 S3 ME3LA4**	154	**C412_33.4 P100 BE100LA4**	152
53	377	2.1	33.0	9120	**C512_33.0 S3 ME3LA4**	162	**C512_33.0 P100 BE100LA4**	160
56	358	1.3	31.4	5724	**C412_31.4 S3 ME3LA4**	154	**C412_31.4 P100 BE100LA4**	152
56	349	1.5	31.2	5597	**C413_31.2 S3 ME3LA4**	154	**C413_31.2 P100 BE100LA4**	152
58	335	2.7	30.1	9120	**C513_30.1 S3 ME3LA4**	162	**C513_30.1 P100 BE100LA4**	160
59	339	2.3	29.8	9120	**C512_29.8 S3 ME3LA4**	162	**C512_29.8 P100 BE100LA4**	160
61	320	1.4	28.7	4771	**C363_28.7 S3 ME3LA4**	146	**C363_28.7 P100 BE100LA4**	144
61	318	1.6	28.5	5351	**C413_28.5 S3 ME3LA4**	154	**C413_28.5 P100 BE100LA4**	152
62	323	1.4	28.3	5633	**C412_28.3 S3 ME3LA4**	154	**C412_28.3 P100 BE100LA4**	152
64	306	2.9	27.4	9120	**C513_27.4 S3 ME3LA4**	162	**C513_27.4 P100 BE100LA4**	160
67	292	1.5	26.2	4698	**C363_26.2 S3 ME3LA4**	146	**C363_26.2 P100 BE100LA4**	144
67	295	2.5	25.9	9120	**C512_25.9 S3 ME3LA4**	162	**C512_25.9 P100 BE100LA4**	160
69	286	1.0	25.1	3916	**C322_25.1 S3 ME3LA4**	138	**C322_25.1 P100 BE100LA4**	136
70	286	1.6	25.0	5569	**C412_25.0 S3 ME3LA4**	154	**C412_25.0 P100 BE100LA4**	152
75	266	2.8	23.4	9120	**C512_23.4 S3 ME3LA4**	162	**C512_23.4 P100 BE100LA4**	160
76	261	1.0	22.9	3888	**C322_22.9 S3 ME3LA4**	138	**C322_22.9 P100 BE100LA4**	136
77	257	1.8	22.6	5460	**C412_22.6 S3 ME3LA4**	154	**C412_22.6 P100 BE100LA4**	152
79	247	1.7	22.1	4625	**C363_22.1 S3 ME3LA4**	146	**C363_22.1 P100 BE100LA4**	144
87	229	1.2	20.1	3851	**C322_20.1 S3 ME3LA4**	138	**C322_20.1 P100 BE100LA4**	136
88	225	2.0	19.8	5360	**C412_19.8 S3 ME3LA4**	154	**C412_19.8 P100 BE100LA4**	152
92	217	1.8	19.0	4497	**C362_19.0 S3 ME3LA4**	146	**C362_19.0 P100 BE100LA4**	144
96	207	1.2	18.2	3778	**C322_18.2 S3 ME3LA4**	138	**C322_18.2 P100 BE100LA4**	136
98	203	2.2	17.8	5242	**C412_17.8 S3 ME3LA4**	154	**C412_17.8 P100 BE100LA4**	152
101	196	1.9	17.2	4387	**C362_17.2 S3 ME3LA4**	146	**C362_17.2 P100 BE100LA4**	144

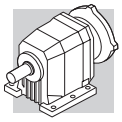


2.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
110	180	2.3	15.8	5142	**C412_15.8 S3 ME3LA4**	154	**C412_15.8 P100 BE100LA4**	152
112	178	1.4	15.6	3723	**C322_15.6 S3 ME3LA4**	138	**C322_15.6 P100 BE100LA4**	136
118	168	2.1	14.8	4305	**C362_14.8 S3 ME3LA4**	146	**C362_14.8 P100 BE100LA4**	144
120	166	0.9	14.5	2038	**C222_14.5 S3 ME3LA4**	130	**C222_14.5 P100 BE100LA4**	128
122	162	2.5	14.2	5014	**C412_14.2 S3 ME3LA4**	154	**C412_14.2 P100 BE100LA4**	152
124	160	1.4	14.1	3650	**C322_14.1 S3 ME3LA4**	138	**C322_14.1 P100 BE100LA4**	136
131	152	2.3	13.3	4195	**C362_13.3 S3 ME3LA4**	146	**C362_13.3 P100 BE100LA4**	144
141	141	1.0	12.4	2075	**C222_12.4 S3 ME3LA4**	130	**C222_12.4 P100 BE100LA4**	128
141	141	2.8	12.4	4878	**C412_12.4 S3 ME3LA4**	154	**C412_12.4 P100 BE100LA4**	152
142	141	1.6	12.3	3576	**C322_12.3 S3 ME3LA4**	138	**C322_12.3 P100 BE100LA4**	136
150	133	2.6	11.7	4104	**C362_11.7 S3 ME3LA4**	146	**C362_11.7 P100 BE100LA4**	144
156	128	1.7	11.2	3485	**C322_11.2 S3 ME3LA4**	138	**C322_11.2 P100 BE100LA4**	136
157	126	1.1	11.1	2057	**C222_11.1 S3 ME3LA4**	130	**C222_11.1 P100 BE100LA4**	128
165	121	2.9	10.6	3948	**C362_10.6 S3 ME3LA4**	146	**C362_10.6 P100 BE100LA4**	144
181	110	1.2	9.6	2057	**C222_9.6 S3 ME3LA4**	130	**C222_9.6 P100 BE100LA4**	128
188	106	1.9	9.3	3384	**C322_9.3 S3 ME3LA4**	138	**C322_9.3 P100 BE100LA4**	136
202	99	1.3	8.7	2029	**C222_8.7 S3 ME3LA4**	130	**C222_8.7 P100 BE100LA4**	128
206	97	2.0	8.5	3301	**C322_8.5 S3 ME3LA4**	138	**C322_8.5 P100 BE100LA4**	136
244	82	2.3	7.2	3191	**C322_7.2 S3 ME3LA4**	138	**C322_7.2 P100 BE100LA4**	136
246	81	1.5	7.1	1993	**C222_7.1 S3 ME3LA4**	130	**C222_7.1 P100 BE100LA4**	128
279	71	2.1	6.3	2980	**C322_6.3 S3 ME3LA4**	138	**C322_6.3 P100 BE100LA4**	136
287	69	1.4	6.1	1865	**C222_6.1 S3 ME3LA4**	130	**C222_6.1 P100 BE100LA4**	128
298	67	2.8	5.8	3391	**C362_5.8 S3 ME3LA4**	146	**C362_5.8 P100 BE100LA4**	144
309	64	2.2	5.7	2916	**C322_5.7 S3 ME3LA4**	138	**C322_5.7 P100 BE100LA4**	136
312	64	1.5	5.6	1874	**C222_5.6 S3 ME3LA4**	130	**C222_5.6 P100 BE100LA4**	128
352	56	2.5	5.0	2843	**C322_5.0 S3 ME3LA4**	138	**C322_5.0 P100 BE100LA4**	136
366	54	1.7	4.8	1801	**C222_4.8 S3 ME3LA4**	130	**C222_4.8 P100 BE100LA4**	128
388	51	2.7	4.5	2751	**C322_4.5 S3 ME3LA4**	138	**C322_4.5 P100 BE100LA4**	136
410	49	1.8	4.3	1801	**C222_4.3 S3 ME3LA4**	130	**C222_4.3 P100 BE100LA4**	128
471	42	2.0	3.7	1727	**C222_3.7 S3 ME3LA4**	130	**C222_3.7 P100 BE100LA4**	128
478	42	0.9	3.7	647	**C122_3.7 S3 ME3LA4**	122	**C122_3.7 P100 BE100LA4**	120
525	38	2.1	3.3	1727	**C222_3.3 S3 ME3LA4**	130	**C222_3.3 P100 BE100LA4**	128
544	37	1.0	3.2	528	**C122_3.2 S3 ME3LA4**	122	**C122_3.2 P100 BE100LA4**	120
631	32	1.1	2.8	629	**C122_2.8 S3 ME3LA4**	122	**C122_2.8 P100 BE100LA4**	120
641	31	2.4	2.7	1618	**C222_2.7 S3 ME3LA4**	130	**C222_2.7 P100 BE100LA4**	128

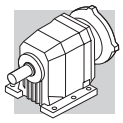
3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
2.1	12523	1.0	843.3	78795	**C1004_843.3 S3 ME3LB4**	196	**C1004_843.3 P100 BE100LB4**	194
2.2	11519	1.0	775.7	78795	**C1004_775.7 S3 ME3LB4**	196	**C1004_775.7 P100 BE100LB4**	194
2.4	10696	1.1	720.3	78795	**C1004_720.3 S3 ME3LB4**	196	**C1004_720.3 P100 BE100LB4**	194
2.8	9317	1.3	627.4	78795	**C1004_627.4 S3 ME3LB4**	196	**C1004_627.4 P100 BE100LB4**	194
3.0	8651	1.4	582.6	78795	**C1004_582.6 S3 ME3LB4**	196	**C1004_582.6 P100 BE100LB4**	194
3.2	7933	0.9	534.2	55620	**C904_534.2 S3 ME3LB4**	190	**C904_534.2 P100 BE100LB4**	188
3.5	7464	1.6	502.6	78795	**C1004_502.6 S3 ME3LB4**	196	**C1004_502.6 P100 BE100LB4**	194
3.7	6931	1.7	466.7	78795	**C1004_466.7 S3 ME3LB4**	196	**C1004_466.7 P100 BE100LB4**	194
3.8	6789	1.1	457.1	55620	**C904_457.1 S3 ME3LB4**	190	**C904_457.1 P100 BE100LB4**	188
4.1	6223	1.2	419.0	55620	**C904_419.0 S3 ME3LB4**	190	**C904_419.0 P100 BE100LB4**	188
4.2	6085	2.0	409.8	78795	**C1004_409.8 S3 ME3LB4**	196	**C1004_409.8 P100 BE100LB4**	194
4.6	5650	2.1	380.5	78795	**C1004_380.5 S3 ME3LB4**	196	**C1004_380.5 P100 BE100LB4**	194
4.7	5491	1.3	369.8	55620	**C904_369.8 S3 ME3LB4**	190	**C904_369.8 P100 BE100LB4**	188
5.1	5033	1.4	339.0	55620	**C904_339.0 S3 ME3LB4**	190	**C904_339.0 P100 BE100LB4**	188
5.4	4806	2.5	323.6	78795	**C1004_323.6 S3 ME3LB4**	196	**C1004_323.6 P100 BE100LB4**	194
5.8	4463	2.7	300.5	78795	**C1004_300.5 S3 ME3LB4**	196	**C1004_300.5 P100 BE100LB4**	194
5.9	4350	1.7	292.9	55620	**C904_292.9 S3 ME3LB4**	190	**C904_292.9 P100 BE100LB4**	188
6.1	4242	0.9	285.7	32410	**C804_285.7 S3 ME3LB4**	184	**C804_285.7 P100 BE100LB4**	182
6.5	3987	1.8	268.5	55620	**C904_268.5 S3 ME3LB4**	190	**C904_268.5 P100 BE100LB4**	188
6.6	3889	1.0	261.9	32410	**C804_261.9 S3 ME3LB4**	184	**C804_261.9 P100 BE100LB4**	182

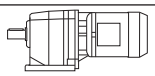


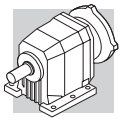
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
7.5	3441	2.1	231.7	55620	**C904_231.7 S3 ME3LB4**	190	**C904_231.7 P100 BE100LB4**	188
8.0	3312	1.2	215.8	32410	**C803_215.8 S3 ME3LB4**	184	**C803_215.8 P100 BE100LB4**	182
8.2	3154	2.3	212.4	55620	**C904_212.4 S3 ME3LB4**	190	**C904_212.4 P100 BE100LB4**	188
8.8	3036	1.3	197.9	32410	**C803_197.9 S3 ME3LB4**	184	**C803_197.9 P100 BE100LB4**	182
9.4	2829	1.4	184.4	32410	**C803_184.4 S3 ME3LB4**	184	**C803_184.4 P100 BE100LB4**	182
10.1	2641	2.7	172.1	55620	**C903_172.1 S3 ME3LB4**	190	**C903_172.1 P100 BE100LB4**	188
10.3	2593	1.5	169.0	32410	**C803_169.0 S3 ME3LB4**	184	**C803_169.0 P100 BE100LB4**	182
10.7	2499	0.9	162.8	23175	**C703_162.8 S3 ME3LB4**	178	**C703_162.8 P100 BE100LB4**	176
11.0	2421	2.9	157.8	55620	**C903_157.8 S3 ME3LB4**	190	**C903_157.8 P100 BE100LB4**	188
11.5	2306	1.0	150.3	23175	**C703_150.3 S3 ME3LB4**	178	**C703_150.3 P100 BE100LB4**	176
11.6	2288	1.7	149.1	32410	**C803_149.1 S3 ME3LB4**	184	**C803_149.1 P100 BE100LB4**	182
12.6	2108	1.1	137.4	23175	**C703_137.4 S3 ME3LB4**	178	**C703_137.4 P100 BE100LB4**	176
12.7	2097	1.9	136.7	32410	**C803_136.7 S3 ME3LB4**	184	**C803_136.7 P100 BE100LB4**	182
13.7	1946	1.2	126.8	23175	**C703_126.8 S3 ME3LB4**	178	**C703_126.8 P100 BE100LB4**	176
14.5	1833	2.2	119.5	32410	**C803_119.5 S3 ME3LB4**	184	**C803_119.5 P100 BE100LB4**	182
15.3	1687	0.9	113.6	14624	**C613_113.6 S3 ME3LB4**	170	**C613_113.6 P100 BE100LB4**	168
15.4	1725	1.3	112.4	23175	**C703_112.4 S3 ME3LB4**	178	**C703_112.4 P100 BE100LB4**	176
15.8	1680	2.4	109.5	32410	**C803_109.5 S3 ME3LB4**	184	**C803_109.5 P100 BE100LB4**	182
16.7	1593	1.4	103.8	23175	**C703_103.8 S3 ME3LB4**	178	**C703_103.8 P100 BE100LB4**	176
16.7	1539	1.0	103.6	14624	**C613_103.6 S3 ME3LB4**	170	**C613_103.6 P100 BE100LB4**	168
17.8	1494	2.6	97.4	32410	**C803_97.4 S3 ME3LB4**	184	**C803_97.4 P100 BE100LB4**	182
19.1	1352	1.2	91.0	14624	**C613_91.0 S3 ME3LB4**	170	**C613_91.0 P100 BE100LB4**	168
19.4	1370	2.8	89.3	32410	**C803_89.3 S3 ME3LB4**	184	**C803_89.3 P100 BE100LB4**	182
19.7	1353	1.7	88.2	23175	**C703_88.2 S3 ME3LB4**	178	**C703_88.2 P100 BE100LB4**	176
20.9	1233	1.3	83.0	14624	**C613_83.0 S3 ME3LB4**	170	**C613_83.0 P100 BE100LB4**	168
21.3	1249	1.8	81.4	23175	**C703_81.4 S3 ME3LB4**	178	**C703_81.4 P100 BE100LB4**	176
23.4	1102	1.4	74.2	14624	**C613_74.2 S3 ME3LB4**	170	**C613_74.2 P100 BE100LB4**	168
24.3	1095	2.0	71.3	23175	**C703_71.3 S3 ME3LB4**	178	**C703_71.3 P100 BE100LB4**	176
25.6	1005	1.5	67.7	14624	**C613_67.7 S3 ME3LB4**	170	**C613_67.7 P100 BE100LB4**	168
26.3	1011	2.2	65.9	23175	**C703_65.9 S3 ME3LB4**	178	**C703_65.9 P100 BE100LB4**	176
26.9	991	1.0	64.6	9120	**C513_64.6 S3 ME3LB4**	162	**C513_64.6 P100 BE100LB4**	160
29.4	905	1.1	59.0	9120	**C513_59.0 S3 ME3LB4**	162	**C513_59.0 P100 BE100LB4**	160
29.6	870	1.7	58.6	14624	**C613_58.6 S3 ME3LB4**	170	**C613_58.6 P100 BE100LB4**	168
31	867	2.5	56.5	23175	**C703_56.5 S3 ME3LB4**	178	**C703_56.5 P100 BE100LB4**	176
32	794	1.9	53.5	14624	**C613_53.5 S3 ME3LB4**	170	**C613_53.5 P100 BE100LB4**	168
33	800	2.7	52.2	23175	**C703_52.2 S3 ME3LB4**	178	**C703_52.2 P100 BE100LB4**	176
34	785	1.2	51.2	9120	**C513_51.2 S3 ME3LB4**	162	**C513_51.2 P100 BE100LB4**	160
36	750	1.1	47.8	9120	**C512_47.8 S3 ME3LB4**	162	**C512_47.8 P100 BE100LB4**	160
36	707	2.1	47.6	14624	**C613_47.6 S3 ME3LB4**	170	**C613_47.6 P100 BE100LB4**	168
37	717	1.3	46.7	9120	**C513_46.7 S3 ME3LB4**	162	**C513_46.7 P100 BE100LB4**	160
40	645	2.3	43.4	14624	**C613_43.4 S3 ME3LB4**	170	**C613_43.4 P100 BE100LB4**	168
40	676	1.1	43.1	9120	**C512_43.1 S3 ME3LB4**	162	**C512_43.1 P100 BE100LB4**	160
43	621	1.5	40.5	9120	**C513_40.5 S3 ME3LB4**	162	**C513_40.5 P100 BE100LB4**	160
43	633	1.3	40.4	9120	**C512_40.4 S3 ME3LB4**	162	**C512_40.4 P100 BE100LB4**	160
46	596	2.1	38.0	14624	**C612_38.0 S3 ME3LB4**	170	**C612_38.0 P100 BE100LB4**	168
47	567	1.6	37.0	9120	**C513_37.0 S3 ME3LB4**	162	**C513_37.0 P100 BE100LB4**	160
47	565	1.0	36.8	5041	**C413_36.8 S3 ME3LB4**	154	**C413_36.8 P100 BE100LB4**	152
48	570	1.3	36.4	9120	**C512_36.4 S3 ME3LB4**	162	**C512_36.4 P100 BE100LB4**	160
48	537	2.7	36.1	14624	**C613_36.1 S3 ME3LB4**	170	**C613_36.1 P100 BE100LB4**	168
51	536	2.2	34.2	14624	**C612_34.2 S3 ME3LB4**	170	**C612_34.2 P100 BE100LB4**	168
53	518	1.5	33.0	9120	**C512_33.0 S3 ME3LB4**	162	**C512_33.0 P100 BE100LB4**	160
53	490	2.9	33.0	14624	**C613_33.0 S3 ME3LB4**	170	**C613_33.0 P100 BE100LB4**	168
55	493	0.9	31.4	4996	**C412_31.4 S3 ME3LB4**	154	**C412_31.4 P100 BE100LB4**	152
56	479	1.1	31.2	5051	**C413_31.2 S3 ME3LB4**	154	**C413_31.2 P100 BE100LB4**	152
57	477	2.8	30.4	14533	**C612_30.4 S3 ME3LB4**	170	**C612_30.4 P100 BE100LB4**	168
58	461	2.0	30.1	9120	**C513_30.1 S3 ME3LB4**	162	**C513_30.1 P100 BE100LB4**	160
58	467	1.7	29.8	9120	**C512_29.8 S3 ME3LB4**	162	**C512_29.8 P100 BE100LB4**	160
60	441	1.0	28.7	4204	**C363_28.7 S3 ME3LB4**	146	**C363_28.7 P100 BE100LB4**	144
61	437	1.2	28.5	4823	**C413_28.5 S3 ME3LB4**	154	**C413_28.5 P100 BE100LB4**	152
61	444	1.0	28.3	4969	**C412_28.3 S3 ME3LB4**	154	**C412_28.3 P100 BE100LB4**	152



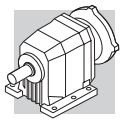
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
63	421	2.1	27.4	9120	**C513_27.4 S3 ME3LB4**	162	**C513_27.4 P100 BE100LB4**	160
66	402	1.1	26.2	4113	**C363_26.2 S3 ME3LB4**	146	**C363_26.2 P100 BE100LB4**	144
67	406	1.8	25.9	9120	**C512_25.9 S3 ME3LB4**	162	**C512_25.9 P100 BE100LB4**	160
69	393	1.2	25.0	4987	**C412_25.0 S3 ME3LB4**	154	**C412_25.0 P100 BE100LB4**	152
73	367	2.3	23.9	8783	**C513_23.9 S3 ME3LB4**	162	**C513_23.9 P100 BE100LB4**	160
74	366	2.0	23.4	9120	**C512_23.4 S3 ME3LB4**	162	**C512_23.4 P100 BE100LB4**	160
77	354	1.3	22.6	4932	**C412_22.6 S3 ME3LB4**	154	**C412_22.6 P100 BE100LB4**	152
78	340	1.3	22.1	4140	**C363_22.1 S3 ME3LB4**	146	**C363_22.1 P100 BE100LB4**	144
80	335	2.5	21.8	8846	**C513_21.8 S3 ME3LB4**	162	**C513_21.8 P100 BE100LB4**	160
83	328	2.2	21.0	9120	**C512_21.0 S3 ME3LB4**	162	**C512_21.0 P100 BE100LB4**	160
88	310	1.5	19.8	4905	**C412_19.8 S3 ME3LB4**	154	**C412_19.8 P100 BE100LB4**	152
91	298	1.3	19.0	4067	**C362_19.0 S3 ME3LB4**	146	**C362_19.0 P100 BE100LB4**	144
92	296	2.5	18.9	9120	**C512_18.9 S3 ME3LB4**	162	**C512_18.9 P100 BE100LB4**	160
98	279	1.6	17.8	4823	**C412_17.8 S3 ME3LB4**	154	**C412_17.8 P100 BE100LB4**	152
101	270	1.4	17.2	4022	**C362_17.2 S3 ME3LB4**	146	**C362_17.2 P100 BE100LB4**	144
105	260	2.8	16.6	8928	**C512_16.6 S3 ME3LB4**	162	**C512_16.6 P100 BE100LB4**	160
110	248	1.7	15.8	4768	**C412_15.8 S3 ME3LB4**	154	**C412_15.8 P100 BE100LB4**	152
111	244	1.0	15.6	3375	**C322_15.6 S3 ME3LB4**	138	**C322_15.6 P100 BE100LB4**	136
118	231	1.6	14.8	3967	**C362_14.8 S3 ME3LB4**	146	**C362_14.8 P100 BE100LB4**	144
122	223	1.8	14.2	4677	**C412_14.2 S3 ME3LB4**	154	**C412_14.2 P100 BE100LB4**	152
123	221	1.0	14.1	3347	**C322_14.1 S3 ME3LB4**	138	**C322_14.1 P100 BE100LB4**	136
130	209	1.7	13.3	3894	**C362_13.3 S3 ME3LB4**	146	**C362_13.3 P100 BE100LB4**	144
140	194	2.0	12.4	4586	**C412_12.4 S3 ME3LB4**	154	**C412_12.4 P100 BE100LB4**	152
141	193	1.2	12.3	3283	**C322_12.3 S3 ME3LB4**	138	**C322_12.3 P100 BE100LB4**	136
149	183	1.9	11.7	3839	**C362_11.7 S3 ME3LB4**	146	**C362_11.7 P100 BE100LB4**	144
155	176	1.2	11.2	3228	**C322_11.2 S3 ME3LB4**	138	**C322_11.2 P100 BE100LB4**	136
155	175	2.2	11.2	4486	**C412_11.2 S3 ME3LB4**	154	**C412_11.2 P100 BE100LB4**	152
164	166	2.1	10.6	3747	**C362_10.6 S3 ME3LB4**	146	**C362_10.6 P100 BE100LB4**	144
181	150	2.4	9.6	4368	**C412_9.6 S3 ME3LB4**	154	**C412_9.6 P100 BE100LB4**	152
187	146	1.4	9.3	3164	**C322_9.3 S3 ME3LB4**	138	**C322_9.3 P100 BE100LB4**	136
197	138	2.6	8.8	3647	**C362_8.8 S3 ME3LB4**	146	**C362_8.8 P100 BE100LB4**	144
200	136	0.9	8.7	1737	**C222_8.7 S3 ME3LB4**	130	**C222_8.7 P100 BE100LB4**	128
201	135	2.6	8.6	4186	**C412_8.6 S3 ME3LB4**	154	**C412_8.6 P100 BE100LB4**	152
204	133	1.4	8.5	3118	**C322_8.5 S3 ME3LB4**	138	**C322_8.5 P100 BE100LB4**	136
216	126	2.7	8.0	3510	**C362_8.0 S3 ME3LB4**	146	**C362_8.0 P100 BE100LB4**	144
242	112	1.6	7.2	3026	**C322_7.2 S3 ME3LB4**	138	**C322_7.2 P100 BE100LB4**	136
245	111	1.1	7.1	1773	**C222_7.1 S3 ME3LB4**	130	**C222_7.1 P100 BE100LB4**	128
246	111	3.0	7.1	4086	**C412_7.1 S3 ME3LB4**	154	**C412_7.1 P100 BE100LB4**	152
277	98	1.5	6.3	2843	**C322_6.3 S3 ME3LB4**	138	**C322_6.3 P100 BE100LB4**	136
285	95	1.0	6.1	1462	**C222_6.1 S3 ME3LB4**	130	**C222_6.1 P100 BE100LB4**	128
291	93	2.8	6.0	3722	**C412_6.0 S3 ME3LB4**	154	**C412_6.0 P100 BE100LB4**	152
297	92	2.0	5.8	3226	**C362_5.8 S3 ME3LB4**	146	**C362_5.8 P100 BE100LB4**	144
307	89	1.6	5.7	2788	**C322_5.7 S3 ME3LB4**	138	**C322_5.7 P100 BE100LB4**	136
310	88	1.1	5.6	1600	**C222_5.6 S3 ME3LB4**	130	**C222_5.6 P100 BE100LB4**	128
329	83	2.2	5.3	3089	**C362_5.3 S3 ME3LB4**	146	**C362_5.3 P100 BE100LB4**	144
350	78	1.8	5.0	2705	**C322_5.0 S3 ME3LB4**	138	**C322_5.0 P100 BE100LB4**	136
364	75	1.2	4.8	1627	**C222_4.8 S3 ME3LB4**	130	**C222_4.8 P100 BE100LB4**	128
375	72	2.6	4.6	2989	**C362_4.6 S3 ME3LB4**	146	**C362_4.6 P100 BE100LB4**	144
386	71	2.0	4.5	2641	**C322_4.5 S3 ME3LB4**	138	**C322_4.5 P100 BE100LB4**	136
407	67	1.3	4.3	1645	**C222_4.3 S3 ME3LB4**	130	**C222_4.3 P100 BE100LB4**	128
413	66	2.8	4.2	2916	**C362_4.2 S3 ME3LB4**	146	**C362_4.2 P100 BE100LB4**	144
465	59	2.4	3.7	2549	**C322_3.7 S3 ME3LB4**	138	**C322_3.7 P100 BE100LB4**	136
468	58	1.4	3.7	1590	**C222_3.7 S3 ME3LB4**	130	**C222_3.7 P100 BE100LB4**	128
509	53	2.4	3.4	2467	**C322_3.4 S3 ME3LB4**	138	**C322_3.4 P100 BE100LB4**	136
522	52	1.5	3.3	1590	**C222_3.3 S3 ME3LB4**	130	**C222_3.3 P100 BE100LB4**	128
603	45	2.6	2.9	2393	**C322_2.9 S3 ME3LB4**	138	**C322_2.9 P100 BE100LB4**	136
637	43	1.7	2.7	1517	**C222_2.7 S3 ME3LB4**	130	**C222_2.7 P100 BE100LB4**	128

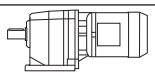


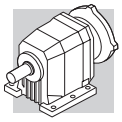
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.4	12965	0.9	720.3	78795	**C1004_720.3 S4 ME4SA4**	196	**C1004_720.3 P112 BE112M4**	194
2.8	11293	1.1	627.4	78795	**C1004_627.4 S4 ME4SA4**	196	**C1004_627.4 P112 BE112M4**	194
3.0	10487	1.1	582.6	78795	**C1004_582.6 S4 ME4SA4**	196	**C1004_582.6 P112 BE112M4**	194
3.5	9047	1.3	502.6	78795	**C1004_502.6 S4 ME4SA4**	196	**C1004_502.6 P112 BE112M4**	194
3.7	8401	1.4	466.7	78795	**C1004_466.7 S4 ME4SA4**	196	**C1004_466.7 P112 BE112M4**	194
4.2	7543	1.0	419.0	55620	**C904_419.0 S4 ME4SA4**	190	**C904_419.0 P112 BE112M4**	188
4.2	7376	1.6	409.8	78795	**C1004_409.8 S4 ME4SA4**	196	**C1004_409.8 P112 BE112M4**	194
4.6	6849	1.8	380.5	78795	**C1004_380.5 S4 ME4SA4**	196	**C1004_380.5 P112 BE112M4**	194
4.7	6656	1.1	369.8	55620	**C904_369.8 S4 ME4SA4**	190	**C904_369.8 P112 BE112M4**	188
5.1	6101	1.2	339.0	55620	**C904_339.0 S4 ME4SA4**	190	**C904_339.0 P112 BE112M4**	188
5.4	5825	2.1	323.6	78795	**C1004_323.6 S4 ME4SA4**	196	**C1004_323.6 P112 BE112M4**	194
5.8	5409	2.2	300.5	78795	**C1004_300.5 S4 ME4SA4**	196	**C1004_300.5 P112 BE112M4**	194
5.9	5272	1.4	292.9	55620	**C904_292.9 S4 ME4SA4**	190	**C904_292.9 P112 BE112M4**	188
6.5	4833	1.5	268.5	55620	**C904_268.5 S4 ME4SA4**	190	**C904_268.5 P112 BE112M4**	188
6.6	4734	2.5	263.0	78795	**C1004_263.0 S4 ME4SA4**	196	**C1004_263.0 P112 BE112M4**	194
7.1	4396	2.7	244.2	78795	**C1004_244.2 S4 ME4SA4**	196	**C1004_244.2 P112 BE112M4**	194
7.5	4170	1.7	231.7	55620	**C904_231.7 S4 ME4SA4**	190	**C904_231.7 P112 BE112M4**	188
8.1	4015	1.0	215.8	32410	**C803_215.8 S4 ME4SA4**	184	**C803_215.8 P112 BE112M4**	182
8.2	3823	1.9	212.4	55620	**C904_212.4 S4 ME4SA4**	190	**C904_212.4 P112 BE112M4**	188
8.8	3680	1.1	197.9	32410	**C803_197.9 S4 ME4SA4**	184	**C803_197.9 P112 BE112M4**	182
9.4	3429	1.2	184.4	32410	**C803_184.4 S4 ME4SA4**	184	**C803_184.4 P112 BE112M4**	182
10.1	3201	2.2	172.1	55620	**C903_172.1 S4 ME4SA4**	190	**C903_172.1 P112 BE112M4**	188
10.3	3143	1.3	169.0	32410	**C803_169.0 S4 ME4SA4**	184	**C803_169.0 P112 BE112M4**	182
11.0	2934	2.4	157.8	55620	**C903_157.8 S4 ME4SA4**	190	**C903_157.8 P112 BE112M4**	188
11.7	2773	1.4	149.1	32410	**C803_149.1 S4 ME4SA4**	184	**C803_149.1 P112 BE112M4**	182
11.9	2722	2.6	146.3	55620	**C903_146.3 S4 ME4SA4**	190	**C903_146.3 P112 BE112M4**	188
12.7	2542	1.6	136.7	32410	**C803_136.7 S4 ME4SA4**	184	**C803_136.7 P112 BE112M4**	182
13.0	2495	2.8	134.1	55620	**C903_134.1 S4 ME4SA4**	190	**C903_134.1 P112 BE112M4**	188
13.7	2359	1.0	126.8	23175	**C703_126.8 S4 ME4SA4**	178	**C703_126.8 P112 BE112M4**	176
14.6	2222	1.8	119.5	32410	**C803_119.5 S4 ME4SA4**	184	**C803_119.5 P112 BE112M4**	182
15.5	2091	1.1	112.4	23175	**C703_112.4 S4 ME4SA4**	178	**C703_112.4 P112 BE112M4**	176
15.9	2037	2.0	109.5	32410	**C803_109.5 S4 ME4SA4**	184	**C803_109.5 P112 BE112M4**	182
16.8	1931	1.2	103.8	23175	**C703_103.8 S4 ME4SA4**	178	**C703_103.8 P112 BE112M4**	176
17.9	1811	2.2	97.4	32410	**C803_97.4 S4 ME4SA4**	184	**C803_97.4 P112 BE112M4**	182
19.1	1638	1.0	91.0	14624	**C613_91.0 S4 ME4SA4**	170	**C613_91.0 P112 BE112M4**	168
19.5	1660	2.3	89.3	32410	**C803_89.3 S4 ME4SA4**	184	**C803_89.3 P112 BE112M4**	182
19.7	1640	1.4	88.2	23175	**C703_88.2 S4 ME4SA4**	178	**C703_88.2 P112 BE112M4**	176
21.0	1495	1.1	83.0	14624	**C613_83.0 S4 ME4SA4**	170	**C613_83.0 P112 BE112M4**	168
21.4	1514	1.5	81.4	23175	**C703_81.4 S4 ME4SA4**	178	**C703_81.4 P112 BE112M4**	176
22.6	1431	2.6	76.9	32410	**C803_76.9 S4 ME4SA4**	184	**C803_76.9 P112 BE112M4**	182
23.5	1336	1.1	74.2	14624	**C613_74.2 S4 ME4SA4**	170	**C613_74.2 P112 BE112M4**	168
24.4	1327	1.7	71.3	23175	**C703_71.3 S4 ME4SA4**	178	**C703_71.3 P112 BE112M4**	176
24.7	1311	2.8	70.5	32410	**C803_70.5 S4 ME4SA4**	184	**C803_70.5 P112 BE112M4**	182
25.7	1218	1.2	67.7	14624	**C613_67.7 S4 ME4SA4**	170	**C613_67.7 P112 BE112M4**	168
26.4	1225	1.8	65.9	23175	**C703_65.9 S4 ME4SA4**	178	**C703_65.9 P112 BE112M4**	176
29.7	1055	1.4	58.6	14624	**C613_58.6 S4 ME4SA4**	170	**C613_58.6 P112 BE112M4**	168
31	1051	2.0	56.5	23175	**C703_56.5 S4 ME4SA4**	178	**C703_56.5 P112 BE112M4**	176
33	962	1.5	53.5	14624	**C613_53.5 S4 ME4SA4**	170	**C613_53.5 P112 BE112M4**	168
33	970	2.2	52.2	23175	**C703_52.2 S4 ME4SA4**	178	**C703_52.2 P112 BE112M4**	176
34	952	1.0	51.2	9120	**C513_51.2 S4 ME4SA4**	162	**C513_51.2 P112 BE112M4**	160
37	857	1.7	47.6	14624	**C613_47.6 S4 ME4SA4**	170	**C613_47.6 P112 BE112M4**	168
37	869	1.1	46.7	9120	**C513_46.7 S4 ME4SA4**	162	**C513_46.7 P112 BE112M4**	160
39	831	2.6	44.7	23175	**C703_44.7 S4 ME4SA4**	178	**C703_44.7 P112 BE112M4**	176
40	782	1.9	43.4	14624	**C613_43.4 S4 ME4SA4**	170	**C613_43.4 P112 BE112M4**	168
42	767	2.8	41.3	23175	**C703_41.3 S4 ME4SA4**	178	**C703_41.3 P112 BE112M4**	176
43	753	1.2	40.5	9120	**C513_40.5 S4 ME4SA4**	162	**C513_40.5 P112 BE112M4**	160
43	767	1.0	40.4	9120	**C512_40.4 S4 ME4SA4**	162	**C512_40.4 P112 BE112M4**	160

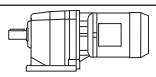


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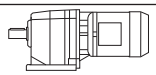
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
46	722	1.8	38.0	14624	**C612_38.0 S4 ME4SA4**	170	**C612_38.0 P112 BE112M4**	168
47	687	1.3	37.0	9120	**C513_37.0 S4 ME4SA4**	162	**C513_37.0 P112 BE112M4**	160
48	691	1.1	36.4	9120	**C512_36.4 S4 ME4SA4**	162	**C512_36.4 P112 BE112M4**	160
48	651	2.2	36.1	14350	**C613_36.1 S4 ME4SA4**	170	**C613_36.1 P112 BE112M4**	168
51	650	1.8	34.2	14350	**C612_34.2 S4 ME4SA4**	170	**C612_34.2 P112 BE112M4**	168
53	628	1.2	33.0	9120	**C512_33.0 S4 ME4SA4**	162	**C512_33.0 P112 BE112M4**	160
53	594	2.4	33.0	14167	**C613_33.0 S4 ME4SA4**	170	**C613_33.0 P112 BE112M4**	168
56	581	0.9	31.2	4687	**C413_31.2 S4 ME4SA4**	154	**C413_31.2 P112 BE112M4**	152
57	578	2.3	30.4	13984	**C612_30.4 S4 ME4SA4**	170	**C612_30.4 P112 BE112M4**	168
58	559	1.6	30.1	9011	**C513_30.1 S4 ME4SA4**	162	**C513_30.1 P112 BE112M4**	160
58	566	1.4	29.8	9120	**C512_29.8 S4 ME4SA4**	162	**C512_29.8 P112 BE112M4**	160
59	528	2.6	29.4	13710	**C613_29.4 S4 ME4SA4**	170	**C613_29.4 P112 BE112M4**	168
61	530	1.0	28.5	4586	**C413_28.5 S4 ME4SA4**	154	**C413_28.5 P112 BE112M4**	152
63	511	1.7	27.4	8710	**C513_27.4 S4 ME4SA4**	162	**C513_27.4 P112 BE112M4**	160
63	521	2.5	27.4	13619	**C612_27.4 S4 ME4SA4**	170	**C612_27.4 P112 BE112M4**	168
65	482	2.8	26.8	13436	**C613_26.8 S4 ME4SA4**	170	**C613_26.8 P112 BE112M4**	168
66	487	0.9	26.2	3994	**C363_26.2 S4 ME4SA4**	146	**C363_26.2 P112 BE112M4**	144
67	492	1.5	25.9	9120	**C512_25.9 S4 ME4SA4**	162	**C512_25.9 P112 BE112M4**	160
69	476	1.0	25.0	4586	**C412_25.0 S4 ME4SA4**	154	**C412_25.0 P112 BE112M4**	152
70	472	2.9	24.8	13344	**C612_24.8 S4 ME4SA4**	170	**C612_24.8 P112 BE112M4**	168
73	444	1.9	23.9	8436	**C513_23.9 S4 ME4SA4**	162	**C513_23.9 P112 BE112M4**	160
75	444	1.7	23.4	9120	**C512_23.4 S4 ME4SA4**	162	**C512_23.4 P112 BE112M4**	160
77	429	1.1	22.6	4459	**C412_22.6 S4 ME4SA4**	154	**C412_22.6 P112 BE112M4**	152
78	425	2.9	22.4	12979	**C612_22.4 S4 ME4SA4**	170	**C612_22.4 P112 BE112M4**	168
79	412	1.0	22.1	3930	**C363_22.1 S4 ME4SA4**	146	**C363_22.1 P112 BE112M4**	144
80	406	2.0	21.8	8783	**C513_21.8 S4 ME4SA4**	162	**C513_21.8 P112 BE112M4**	160
83	398	1.8	21.0	9047	**C512_21.0 S4 ME4SA4**	162	**C512_21.0 P112 BE112M4**	160
88	375	1.2	19.8	4332	**C412_19.8 S4 ME4SA4**	154	**C412_19.8 P112 BE112M4**	152
92	361	1.1	19.0	3857	**C362_19.0 S4 ME4SA4**	146	**C362_19.0 P112 BE112M4**	144
92	359	2.0	18.9	8874	**C512_18.9 S4 ME4SA4**	162	**C512_18.9 P112 BE112M4**	160
98	338	1.3	17.8	4295	**C412_17.8 S4 ME4SA4**	154	**C412_17.8 P112 BE112M4**	152
101	327	1.1	17.2	3830	**C362_17.2 S4 ME4SA4**	146	**C362_17.2 P112 BE112M4**	144
105	315	2.3	16.6	8609	**C512_16.6 S4 ME4SA4**	162	**C512_16.6 P112 BE112M4**	160
110	301	1.4	15.8	4313	**C412_15.8 S4 ME4SA4**	154	**C412_15.8 P112 BE112M4**	152
116	284	2.6	15.0	8418	**C512_15.0 S4 ME4SA4**	162	**C512_15.0 P112 BE112M4**	160
118	280	1.3	14.8	3546	**C362_14.8 S4 ME4SA4**	146	**C362_14.8 P112 BE112M4**	144
122	271	1.5	14.2	4268	**C412_14.2 S4 ME4SA4**	154	**C412_14.2 P112 BE112M4**	152
131	253	1.4	13.3	3510	**C362_13.3 S4 ME4SA4**	146	**C362_13.3 P112 BE112M4**	144
133	249	2.8	13.1	8144	**C512_13.1 S4 ME4SA4**	162	**C512_13.1 P112 BE112M4**	160
140	235	1.7	12.4	4241	**C412_12.4 S4 ME4SA4**	154	**C412_12.4 P112 BE112M4**	152
141	234	1.0	12.3	3026	**C322_12.3 S4 ME4SA4**	138	**C322_12.3 P112 BE112M4**	136
149	222	1.6	11.7	3510	**C362_11.7 S4 ME4SA4**	146	**C362_11.7 P112 BE112M4**	144
155	213	1.0	11.2	2962	**C322_11.2 S4 ME4SA4**	138	**C322_11.2 P112 BE112M4**	136
156	212	1.8	11.2	4168	**C412_11.2 S4 ME4SA4**	154	**C412_11.2 P112 BE112M4**	152
164	201	1.7	10.6	3455	**C362_10.6 S4 ME4SA4**	146	**C362_10.6 P112 BE112M4**	144
181	182	2.0	9.6	4104	**C412_9.6 S4 ME4SA4**	154	**C412_9.6 P112 BE112M4**	152
187	177	1.1	9.3	2889	**C322_9.3 S4 ME4SA4**	138	**C322_9.3 P112 BE112M4**	136
198	167	2.1	8.8	3400	**C362_8.8 S4 ME4SA4**	146	**C362_8.8 P112 BE112M4**	144
201	164	2.2	8.6	4022	**C412_8.6 S4 ME4SA4**	154	**C412_8.6 P112 BE112M4**	152
205	161	1.2	8.5	2852	**C322_8.5 S4 ME4SA4**	138	**C322_8.5 P112 BE112M4**	136
217	153	2.2	8.0	3336	**C362_8.0 S4 ME4SA4**	146	**C362_8.0 P112 BE112M4**	144
243	136	1.4	7.2	2815	**C322_7.2 S4 ME4SA4**	138	**C322_7.2 P112 BE112M4**	136
246	134	2.4	7.1	3895	**C412_7.1 S4 ME4SA4**	154	**C412_7.1 P112 BE112M4**	152
257	129	2.6	6.8	3272	**C362_6.8 S4 ME4SA4**	146	**C362_6.8 P112 BE112M4**	144
273	121	2.6	6.4	3804	**C412_6.4 S4 ME4SA4**	154	**C412_6.4 P112 BE112M4**	152
278	119	1.3	6.3	2604	**C322_6.3 S4 ME4SA4**	138	**C322_6.3 P112 BE112M4**	136
292	113	2.3	6.0	3494	**C412_6.0 S4 ME4SA4**	154	**C412_6.0 P112 BE112M4**	152
298	111	1.7	5.8	3025	**C362_5.8 S4 ME4SA4**	146	**C362_5.8 P112 BE112M4**	144

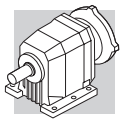


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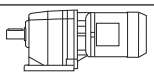
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
308	107	1.3	5.7	2549	**C322_5.7 S4 ME4SA4**	138	**C322_5.7 P112 BE112M4**	136
330	100	1.8	5.3	2925	**C362_5.3 S4 ME4SA4**	146	**C362_5.3 P112 BE112M4**	144
351	94	1.5	5.0	2531	**C322_5.0 S4 ME4SA4**	138	**C322_5.0 P112 BE112M4**	136
365	91	1.0	4.8	1234			**C222_4.8 P112 BE112M4**	128
373	89	2.9	4.7	3185	**C412_4.7 S4 ME4SA4**	154	**C412_4.7 P112 BE112M4**	152
376	88	2.1	4.6	2907	**C362_4.6 S4 ME4SA4**	146	**C362_4.6 P112 BE112M4**	144
387	85	1.6	4.5	2467	**C322_4.5 S4 ME4SA4**	138	**C322_4.5 P112 BE112M4**	136
409	81	1.1	4.3	1188			**C222_4.3 P112 BE112M4**	128
414	80	2.3	4.2	2797	**C362_4.2 S4 ME4SA4**	146	**C362_4.2 P112 BE112M4**	144
466	71	1.9	3.7	2421	**C322_3.7 S4 ME4SA4**	138	**C322_3.7 P112 BE112M4**	136
469	70	1.2	3.7	1426			**C222_3.7 P112 BE112M4**	128
499	66	2.8	3.5	2751	**C362_3.5 S4 ME4SA4**	146	**C362_3.5 P112 BE112M4**	144
510	65	2.0	3.4	2366	**C322_3.4 S4 ME4SA4**	138	**C322_3.4 P112 BE112M4**	136
523	63	1.2	3.3	1408			**C222_3.3 P112 BE112M4**	128
604	55	2.2	2.9	2293	**C322_2.9 S4 ME4SA4**	138	**C322_2.9 P112 BE112M4**	136
639	52	1.4	2.7	1398			**C222_2.7 P112 BE112M4**	128

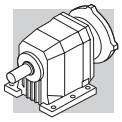
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
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4.3	11064	1.1	409.8	78795	**C1004_409.8 S4 ME4SB4**	196	**C1004_409.8 P132 BE132S4**	194
4.6	10273	1.2	380.5	78795	**C1004_380.5 S4 ME4SB4**	196	**C1004_380.5 P132 BE132S4**	194
5.4	8738	1.4	323.6	78795	**C1004_323.6 S4 ME4SB4**	196	**C1004_323.6 P132 BE132S4**	194
5.9	8114	1.5	300.5	78795	**C1004_300.5 S4 ME4SB4**	196	**C1004_300.5 P132 BE132S4**	194
6.0	7908	0.9	292.9	55620	**C904_292.9 S4 ME4SB4**	190	**C904_292.9 P132 BE132S4**	188
6.6	7249	1.0	268.5	55620	**C904_268.5 S4 ME4SB4**	190	**C904_268.5 P132 BE132S4**	188
6.7	7101	1.7	263.0	78795	**C1004_263.0 S4 ME4SB4**	196	**C1004_263.0 P132 BE132S4**	194
7.2	6594	1.8	244.2	78795	**C1004_244.2 S4 ME4SB4**	196	**C1004_244.2 P132 BE132S4**	194
7.6	6256	1.2	231.7	55620	**C904_231.7 S4 ME4SB4**	190	**C904_231.7 P132 BE132S4**	188
8.3	5734	1.3	212.4	55620	**C904_212.4 S4 ME4SB4**	190	**C904_212.4 P132 BE132S4**	188
8.8	5390	2.2	199.6	78795	**C1004_199.6 S4 ME4SB4**	196	**C1004_199.6 P132 BE132S4**	194
9.5	5005	2.4	185.4	78795	**C1004_185.4 S4 ME4SB4**	196	**C1004_185.4 P132 BE132S4**	194
10.2	4802	1.5	172.1	55620	**C903_172.1 S4 ME4SB4**	190	**C903_172.1 P132 BE132S4**	188
10.9	4377	2.7	162.1	78795	**C1004_162.1 S4 ME4SB4**	196	**C1004_162.1 P132 BE132S4**	194
11.2	4402	1.6	157.8	55620	**C903_157.8 S4 ME4SB4**	190	**C903_157.8 P132 BE132S4**	188
11.7	4197	2.9	150.4	78795	**C1003_150.4 S4 ME4SB4**	196	**C1003_150.4 P132 BE132S4**	194
11.8	4160	1.0	149.1	31947	**C803_149.1 S4 ME4SB4**	184	**C803_149.1 P132 BE132S4**	182
12.0	4083	1.8	146.3	55620	**C903_146.3 S4 ME4SB4**	190	**C903_146.3 P132 BE132S4**	188
12.6	3897	2.8	139.7	78795	**C1003_139.7 S4 ME4SB4**	196	**C1003_139.7 P132 BE132S4**	194
12.9	3814	1.0	136.7	31947	**C803_136.7 S4 ME4SB4**	184	**C803_136.7 P132 BE132S4**	182
13.1	3742	1.9	134.1	55620	**C903_134.1 S4 ME4SB4**	190	**C903_134.1 P132 BE132S4**	188
14.7	3333	1.2	119.5	32410	**C803_119.5 S4 ME4SB4**	184	**C803_119.5 P132 BE132S4**	182
15.1	3257	2.2	116.7	55620	**C903_116.7 S4 ME4SB4**	190	**C903_116.7 P132 BE132S4**	188
16.1	3055	1.3	109.5	32410	**C803_109.5 S4 ME4SB4**	184	**C803_109.5 P132 BE132S4**	182
16.4	2985	2.4	107.0	55620	**C903_107.0 S4 ME4SB4**	190	**C903_107.0 P132 BE132S4**	188
18.1	2717	1.4	97.4	32410	**C803_97.4 S4 ME4SB4**	184	**C803_97.4 P132 BE132S4**	182
18.3	2685	2.7	96.2	55620	**C903_96.2 S4 ME4SB4**	190	**C903_96.2 P132 BE132S4**	188
19.7	2491	1.6	89.3	32410	**C803_89.3 S4 ME4SB4**	184	**C803_89.3 P132 BE132S4**	182
20.0	2461	2.9	88.2	55620	**C903_88.2 S4 ME4SB4**	190	**C903_88.2 P132 BE132S4**	188
20.0	2461	0.9	88.2	21321	**C703_88.2 S4 ME4SB4**	178	**C703_88.2 P132 BE132S4**	176
21.6	2271	1.0	81.4	21321	**C703_81.4 S4 ME4SB4**	178	**C703_81.4 P132 BE132S4**	176
22.9	2146	1.7	76.9	32410	**C803_76.9 S4 ME4SB4**	184	**C803_76.9 P132 BE132S4**	182
24.7	1990	1.1	71.3	23175	**C703_71.3 S4 ME4SB4**	178	**C703_71.3 P132 BE132S4**	176

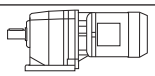


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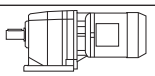
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
25.0	1967	1.9	70.5	32410	**C803_70.5 S4 ME4SB4**	184	**C803_70.5 P132 BE132S4**	182
26.7	1837	1.2	65.9	23175	**C703_65.9 S4 ME4SB4**	178	**C703_65.9 P132 BE132S4**	176
28.2	1744	2.1	62.5	32410	**C803_62.5 S4 ME4SB4**	184	**C803_62.5 P132 BE132S4**	182
30	1582	0.9	58.6	13344	**C613_58.6 S4 ME4SB4**	170	**C613_58.6 P132 BE132S4**	168
31	1599	2.3	57.3	32410	**C803_57.3 S4 ME4SB4**	184	**C803_57.3 P132 BE132S4**	182
31	1577	1.4	56.5	23175	**C703_56.5 S4 ME4SB4**	178	**C703_56.5 P132 BE132S4**	176
33	1443	1.0	53.5	13710	**C613_53.5 S4 ME4SB4**	170	**C613_53.5 P132 BE132S4**	168
34	1455	1.5	52.2	22897	**C703_52.2 S4 ME4SB4**	178	**C703_52.2 P132 BE132S4**	176
37	1286	1.2	47.6	13984	**C613_47.6 S4 ME4SB4**	170	**C613_47.6 P132 BE132S4**	168
37	1324	2.7	47.4	32410	**C803_47.4 S4 ME4SB4**	184	**C803_47.4 P132 BE132S4**	182
39	1247	1.7	44.7	22341	**C703_44.7 S4 ME4SB4**	178	**C703_44.7 P132 BE132S4**	176
40	1213	2.9	43.5	32410	**C803_43.5 S4 ME4SB4**	184	**C803_43.5 P132 BE132S4**	182
41	1173	1.3	43.4	13710	**C613_43.4 S4 ME4SB4**	170	**C613_43.4 P132 BE132S4**	168
43	1151	1.9	41.3	22063	**C703_41.3 S4 ME4SB4**	178	**C703_41.3 P132 BE132S4**	176
45	1115	2.7	39.1	32410	**C802_39.1 S4 ME4SB4**	184	**C802_39.1 P132 BE132S4**	182
46	1083	1.2	38.0	13527	**C612_38.0 S4 ME4SB4**	170	**C612_38.0 P132 BE132S4**	168
49	976	1.5	36.1	13527	**C613_36.1 S4 ME4SB4**	170	**C613_36.1 P132 BE132S4**	168
51	990	2.1	34.7	20487	**C702_34.7 S4 ME4SB4**	178	**C702_34.7 P132 BE132S4**	176
51	975	1.2	34.2	13253	**C612_34.2 S4 ME4SB4**	170	**C612_34.2 P132 BE132S4**	168
53	890	1.6	33.0	13253	**C613_33.0 S4 ME4SB4**	170	**C613_33.0 P132 BE132S4**	168
58	868	1.6	30.4	13070	**C612_30.4 S4 ME4SB4**	170	**C612_30.4 P132 BE132S4**	168
59	839	1.1	30.1	8764	**C513_30.1 S4 ME4SB4**	162	**C513_30.1 P132 BE132S4**	160
59	849	0.9	29.8	8299	**C512_29.8 S4 ME4SB4**	162	**C512_29.8 P132 BE132S4**	160
60	793	1.7	29.4	12796	**C613_29.4 S4 ME4SB4**	170	**C613_29.4 P132 BE132S4**	168
63	790	2.7	27.7	19652	**C702_27.7 S4 ME4SB4**	178	**C702_27.7 P132 BE132S4**	176
64	766	1.2	27.4	8655	**C513_27.4 S4 ME4SB4**	162	**C513_27.4 P132 BE132S4**	160
64	781	1.7	27.4	12705	**C612_27.4 S4 ME4SB4**	170	**C612_27.4 P132 BE132S4**	168
66	723	1.8	26.8	12613	**C613_26.8 S4 ME4SB4**	170	**C613_26.8 P132 BE132S4**	168
68	738	1.0	25.9	8527	**C512_25.9 S4 ME4SB4**	162	**C512_25.9 P132 BE132S4**	160
71	707	1.9	24.8	12522	**C612_24.8 S4 ME4SB4**	170	**C612_24.8 P132 BE132S4**	168
74	667	1.3	23.9	8700	**C513_23.9 S4 ME4SB4**	162	**C513_23.9 P132 BE132S4**	160
75	666	1.1	23.4	8491	**C512_23.4 S4 ME4SB4**	162	**C512_23.4 P132 BE132S4**	160
79	637	2.0	22.4	12248	**C612_22.4 S4 ME4SB4**	170	**C612_22.4 P132 BE132S4**	168
81	609	1.4	21.8	8080	**C513_21.8 S4 ME4SB4**	162	**C513_21.8 P132 BE132S4**	160
84	597	1.2	21.0	8345	**C512_21.0 S4 ME4SB4**	162	**C512_21.0 P132 BE132S4**	160
90	559	2.3	19.6	11973	**C612_19.6 S4 ME4SB4**	170	**C612_19.6 P132 BE132S4**	168
93	538	1.4	18.9	8235	**C512_18.9 S4 ME4SB4**	162	**C512_18.9 P132 BE132S4**	160
100	503	2.5	17.7	11608	**C612_17.7 S4 ME4SB4**	170	**C612_17.7 P132 BE132S4**	168
106	473	1.5	16.6	8035	**C512_16.6 S4 ME4SB4**	162	**C512_16.6 P132 BE132S4**	160
110	454	2.8	15.9	11425	**C612_15.9 S4 ME4SB4**	170	**C612_15.9 P132 BE132S4**	168
111	451	0.9	15.8	3731	**C412_15.8 S4 ME4SB4**	154	**C412_15.8 P132 BE132S4**	152
118	426	1.7	15.0	7898	**C512_15.0 S4 ME4SB4**	162	**C512_15.0 P132 BE132S4**	160
124	406	1.0	14.2	3640	**C412_14.2 S4 ME4SB4**	154	**C412_14.2 P132 BE132S4**	152
132	380	0.9	13.3	3053	**C362_13.3 S4 ME4SB4**	146	**C362_13.3 P132 BE132S4**	144
134	374	1.8	13.1	7679	**C512_13.1 S4 ME4SB4**	162	**C512_13.1 P132 BE132S4**	160
142	353	1.1	12.4	3695	**C412_12.4 S4 ME4SB4**	154	**C412_12.4 P132 BE132S4**	152
149	337	2.1	11.8	7524	**C512_11.8 S4 ME4SB4**	162	**C512_11.8 P132 BE132S4**	160
151	332	1.1	11.7	3089	**C362_11.7 S4 ME4SB4**	146	**C362_11.7 P132 BE132S4**	144
158	318	1.2	11.2	3667	**C412_11.2 S4 ME4SB4**	154	**C412_11.2 P132 BE132S4**	152
166	302	1.2	10.6	3062	**C362_10.6 S4 ME4SB4**	146	**C362_10.6 P132 BE132S4**	144
180	278	2.3	9.8	7196	**C512_9.8 S4 ME4SB4**	162	**C512_9.8 P132 BE132S4**	160
183	273	1.3	9.6	3667	**C412_9.6 S4 ME4SB4**	154	**C412_9.6 P132 BE132S4**	152
200	251	1.4	8.8	3062	**C362_8.8 S4 ME4SB4**	146	**C362_8.8 P132 BE132S4**	144
200	251	2.5	8.8	7022	**C512_8.8 S4 ME4SB4**	162	**C512_8.8 P132 BE132S4**	160

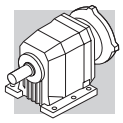


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n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
204	246	1.4	8.6	3458	**C412_8.6 S4 ME4SB4**	154	**C412_8.6 P132 BE132S4**	152
219	229	1.5	8.0	3044	**C362_8.0 S4 ME4SB4**	146	**C362_8.0 P132 BE132S4**	144
227	221	2.7	7.8	6804	**C512_7.8 S4 ME4SB4**	162	**C512_7.8 P132 BE132S4**	160
246	204	0.9	7.2	2338	**C322_7.2 S4 ME4SB4**	138	**C322_7.2 P132 BE132S4**	136
249	201	1.6	7.1	3567	**C412_7.1 S4 ME4SB4**	154	**C412_7.1 P132 BE132S4**	152
252	199	2.9	7.0	6639	**C512_7.0 S4 ME4SB4**	162	**C512_7.0 P132 BE132S4**	160
260	193	1.7	6.8	2998	**C362_6.8 S4 ME4SB4**	146	**C362_6.8 P132 BE132S4**	144
277	181	1.8	6.4	3494	**C412_6.4 S4 ME4SB4**	154	**C412_6.4 P132 BE132S4**	152
296	170	1.5	6.0	3121	**C412_6.0 S4 ME4SB4**	154	**C412_6.0 P132 BE132S4**	152
301	167	1.1	5.8	2760	**C362_5.8 S4 ME4SB4**	146	**C362_5.8 P132 BE132S4**	144
313	160	2.5	5.6	6129	**C512_5.6 S4 ME4SB4**	162	**C512_5.6 P132 BE132S4**	160
333	150	1.2	5.3	2678	**C362_5.3 S4 ME4SB4**	146	**C362_5.3 P132 BE132S4**	144
355	141	1.0	5.0	2274	**C322_5.0 S4 ME4SB4**	138	**C322_5.0 P132 BE132S4**	136
377	133	2.0	4.7	3058	**C412_4.7 S4 ME4SB4**	154	**C412_4.7 P132 BE132S4**	152
381	132	1.4	4.6	2614	**C362_4.6 S4 ME4SB4**	146	**C362_4.6 P132 BE132S4**	144
391	128	1.1	4.5	2293	**C322_4.5 S4 ME4SB4**	138	**C322_4.5 P132 BE132S4**	136
419	120	1.5	4.2	2587	**C362_4.2 S4 ME4SB4**	146	**C362_4.2 P132 BE132S4**	144
471	106	1.3	3.7	2210	**C322_3.7 S4 ME4SB4**	138	**C322_3.7 P132 BE132S4**	136
487	103	2.5	3.6	2948	**C412_3.6 S4 ME4SB4**	154	**C412_3.6 P132 BE132S4**	152
505	99	1.9	3.5	2514	**C362_3.5 S4 ME4SB4**	146	**C362_3.5 P132 BE132S4**	144
516	97	1.3	3.4	2173	**C322_3.4 S4 ME4SB4**	138	**C322_3.4 P132 BE132S4**	136
553	91	2.0	3.2	2468	**C362_3.2 S4 ME4SB4**	146	**C362_3.2 P132 BE132S4**	144
611	82	1.5	2.9	2118	**C322_2.9 S4 ME4SB4**	138	**C322_2.9 P132 BE132S4**	136
655	77	2.4	2.7	2395	**C362_2.7 S4 ME4SB4**	146	**C362_2.7 P132 BE132S4**	144

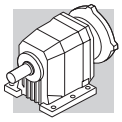
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
5.4	11942	1.0	323.6	78795	**C1004_323.6 S4 ME4LA4**	196	**C1004_323.6 P132 BE132MA4**	194
5.9	11089	1.1	300.5	78795	**C1004_300.5 S4 ME4LA4**	196	**C1004_300.5 P132 BE132MA4**	194
6.7	9705	1.2	263.0	78795	**C1004_263.0 S4 ME4LA4**	196	**C1004_263.0 P132 BE132MA4**	194
7.2	9012	1.3	244.2	78795	**C1004_244.2 S4 ME4LA4**	196	**C1004_244.2 P132 BE132MA4**	194
8.3	7837	0.9	212.4	55620	**C904_212.4 S4 ME4LA4**	190	**C904_212.4 P132 BE132MA4**	188
8.8	7366	1.6	199.6	78795	**C1004_199.6 S4 ME4LA4**	196	**C1004_199.6 P132 BE132MA4**	194
9.5	6840	1.8	185.4	78795	**C1004_185.4 S4 ME4LA4**	196	**C1004_185.4 P132 BE132MA4**	194
10.2	6562	1.1	172.1	55620	**C903_172.1 S4 ME4LA4**	190	**C903_172.1 P132 BE132MA4**	188
10.9	5982	2.0	162.1	78795	**C1004_162.1 S4 ME4LA4**	196	**C1004_162.1 P132 BE132MA4**	194
11.2	6015	1.2	157.8	55620	**C903_157.8 S4 ME4LA4**	190	**C903_157.8 P132 BE132MA4**	188
11.7	5736	2.1	150.4	78795	**C1003_150.4 S4 ME4LA4**	196	**C1003_150.4 P132 BE132MA4**	194
12.0	5580	1.3	146.3	55249	**C903_146.3 S4 ME4LA4**	190	**C903_146.3 P132 BE132MA4**	188
12.6	5326	2.1	139.7	78795	**C1003_139.7 S4 ME4LA4**	196	**C1003_139.7 P132 BE132MA4**	194
13.1	5115	1.4	134.1	55064	**C903_134.1 S4 ME4LA4**	190	**C903_134.1 P132 BE132MA4**	188
14.6	4595	2.6	120.5	78795	**C1003_120.5 S4 ME4LA4**	196	**C1003_120.5 P132 BE132MA4**	194
15.1	4451	1.6	116.7	54322	**C903_116.7 S4 ME4LA4**	190	**C903_116.7 P132 BE132MA4**	188
15.7	4267	2.8	111.9	78795	**C1003_111.9 S4 ME4LA4**	196	**C1003_111.9 P132 BE132MA4**	194
16.1	4175	1.0	109.5	31947	**C803_109.5 S4 ME4LA4**	184	**C803_109.5 P132 BE132MA4**	182
16.4	4080	1.7	107.0	53951	**C903_107.0 S4 ME4LA4**	190	**C903_107.0 P132 BE132MA4**	188
18.1	3713	1.1	97.4	31947	**C803_97.4 S4 ME4LA4**	184	**C803_97.4 P132 BE132MA4**	182
18.3	3670	2.0	96.2	53303	**C903_96.2 S4 ME4LA4**	190	**C903_96.2 P132 BE132MA4**	188

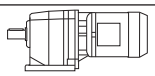


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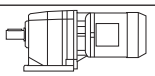
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
19.7	3404	1.1	89.3	32410	**C803_89.3 S4 ME4LA4**	184	**C803_89.3 P132 BE132MA4**	182
20.0	3364	2.1	88.2	52468	**C903_88.2 S4 ME4LA4**	190	**C903_88.2 P132 BE132MA4**	188
21.7	3097	2.3	81.2	52005	**C903_81.2 S4 ME4LA4**	190	**C903_81.2 P132 BE132MA4**	188
22.9	2933	1.3	76.9	32410	**C803_76.9 S4 ME4LA4**	184	**C803_76.9 P132 BE132MA4**	182
23.6	2839	2.5	74.4	51170	**C903_74.4 S4 ME4LA4**	190	**C903_74.4 P132 BE132MA4**	188
25.0	2688	1.4	70.5	32410	**C803_70.5 S4 ME4LA4**	184	**C803_70.5 P132 BE132MA4**	182
27.3	2463	2.9	64.6	50058	**C903_64.6 S4 ME4LA4**	190	**C903_64.6 P132 BE132MA4**	188
28.2	2383	1.6	62.5	32410	**C803_62.5 S4 ME4LA4**	184	**C803_62.5 P132 BE132MA4**	182
31	2185	1.7	57.3	32410	**C803_57.3 S4 ME4LA4**	184	**C803_57.3 P132 BE132MA4**	182
31	2155	1.0	56.5	20858	**C703_56.5 S4 ME4LA4**	178	**C703_56.5 P132 BE132MA4**	176
34	1989	1.1	52.2	21228	**C703_52.2 S4 ME4LA4**	178	**C703_52.2 P132 BE132MA4**	176
37	1809	1.9	47.4	32410	**C803_47.4 S4 ME4LA4**	184	**C803_47.4 P132 BE132MA4**	182
39	1704	1.2	44.7	20858	**C703_44.7 S4 ME4LA4**	178	**C703_44.7 P132 BE132MA4**	176
40	1658	2.1	43.5	32410	**C803_43.5 S4 ME4LA4**	184	**C803_43.5 P132 BE132MA4**	182
41	1603	0.9	43.4	12156	**C613_43.4 S4 ME4LA4**	170	**C613_43.4 P132 BE132MA4**	168
43	1573	1.4	41.3	20672	**C703_41.3 S4 ME4LA4**	178	**C703_41.3 P132 BE132MA4**	176
45	1523	1.9	39.1	31114	**C802_39.1 S4 ME4LA4**	184	**C802_39.1 P132 BE132MA4**	182
49	1334	1.1	36.1	12156	**C613_36.1 S4 ME4LA4**	170	**C613_36.1 P132 BE132MA4**	168
51	1353	1.6	34.7	19004	**C702_34.7 S4 ME4LA4**	178	**C702_34.7 P132 BE132MA4**	176
53	1217	1.2	33.0	11973	**C613_33.0 S4 ME4LA4**	170	**C613_33.0 P132 BE132MA4**	168
56	1220	2.8	31.3	29817	**C802_31.3 S4 ME4LA4**	184	**C802_31.3 P132 BE132MA4**	182
58	1186	1.1	30.4	11882	**C612_30.4 S4 ME4LA4**	170	**C612_30.4 P132 BE132MA4**	168
60	1083	1.3	29.4	11973	**C613_29.4 S4 ME4LA4**	170	**C613_29.4 P132 BE132MA4**	168
63	1080	1.9	27.7	18540	**C702_27.7 S4 ME4LA4**	178	**C702_27.7 P132 BE132MA4**	176
64	1068	1.2	27.4	11699	**C612_27.4 S4 ME4LA4**	170	**C612_27.4 P132 BE132MA4**	168
66	988	1.3	26.8	11699	**C613_26.8 S4 ME4LA4**	170	**C613_26.8 P132 BE132MA4**	168
71	967	1.4	24.8	11608	**C612_24.8 S4 ME4LA4**	170	**C612_24.8 P132 BE132MA4**	168
74	911	0.9	23.9	7478	**C513_23.9 S4 ME4LA4**	162	**C513_23.9 P132 BE132MA4**	160
77	890	2.4	22.9	17984	**C702_22.9 S4 ME4LA4**	178	**C702_22.9 P132 BE132MA4**	176
79	871	1.4	22.4	11425	**C612_22.4 S4 ME4LA4**	170	**C612_22.4 P132 BE132MA4**	168
81	832	1.0	21.8	6566	**C513_21.8 S4 ME4LA4**	162	**C513_21.8 P132 BE132MA4**	160
90	763	1.7	19.6	11242	**C612_19.6 S4 ME4LA4**	170	**C612_19.6 P132 BE132MA4**	168
91	751	2.8	19.3	17520	**C702_19.3 S4 ME4LA4**	178	**C702_19.3 P132 BE132MA4**	176
93	736	1.0	18.9	6475	**C512_18.9 S4 ME4LA4**	162	**C512_18.9 P132 BE132MA4**	160
100	688	1.8	17.7	10968	**C612_17.7 S4 ME4LA4**	170	**C612_17.7 P132 BE132MA4**	168
105	651	2.9	16.7	16871	**C702_16.7 S4 ME4LA4**	178	**C702_16.7 P132 BE132MA4**	176
106	647	1.1	16.6	7360	**C512_16.6 S4 ME4LA4**	162	**C512_16.6 P132 BE132MA4**	160
110	620	2.0	15.9	10785	**C612_15.9 S4 ME4LA4**	170	**C612_15.9 P132 BE132MA4**	168
118	583	1.3	15.0	7296	**C512_15.0 S4 ME4LA4**	162	**C512_15.0 P132 BE132MA4**	160
123	559	2.2	14.3	10511	**C612_14.3 S4 ME4LA4**	170	**C612_14.3 P132 BE132MA4**	168
134	511	1.3	13.1	7150	**C512_13.1 S4 ME4LA4**	162	**C512_13.1 P132 BE132MA4**	160
146	471	2.7	12.1	10145	**C612_12.1 S4 ME4LA4**	170	**C612_12.1 P132 BE132MA4**	168
149	461	1.5	11.8	7050	**C512_11.8 S4 ME4LA4**	162	**C512_11.8 P132 BE132MA4**	160
162	424	3.0	10.9	9963	**C612_10.9 S4 ME4LA4**	170	**C612_10.9 P132 BE132MA4**	168
180	380	1.7	9.8	6794	**C512_9.8 S4 ME4LA4**	162	**C512_9.8 P132 BE132MA4**	160
183	374	1.0	9.6	3003	**C412_9.6 S4 ME4LA4**	154	**C412_9.6 P132 BE132MA4**	152
200	343	1.0	8.8	2632	**C362_8.8 S4 ME4LA4**	146	**C362_8.8 P132 BE132MA4**	144
200	342	1.8	8.8	6676	**C512_8.8 S4 ME4LA4**	162	**C512_8.8 P132 BE132MA4**	160
204	337	1.1	8.6	3121	**C412_8.6 S4 ME4LA4**	154	**C412_8.6 P132 BE132MA4**	152

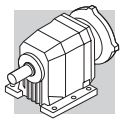


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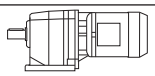
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219	313	1.1	8.0	2651	**C362_8.0 S4 ME4LA4**	146	**C362_8.0 P132 BE132MA4**	144
227	302	1.9	7.8	6493	**C512_7.8 S4 ME4LA4**	162	**C512_7.8 P132 BE132MA4**	160
249	275	1.2	7.1	3158	**C412_7.1 S4 ME4LA4**	154	**C412_7.1 P132 BE132MA4**	152
252	272	2.1	7.0	6357	**C512_7.0 S4 ME4LA4**	162	**C512_7.0 P132 BE132MA4**	160
260	264	1.2	6.8	2651	**C362_6.8 S4 ME4LA4**	146	**C362_6.8 P132 BE132MA4**	144
277	248	1.3	6.4	3130	**C412_6.4 S4 ME4LA4**	154	**C412_6.4 P132 BE132MA4**	152
293	234	2.6	6.0	8391	**C612_6.0 S4 ME4LA4**	170	**C612_6.0 P132 BE132MA4**	168
296	232	1.1	6.0	2657	**C412_6.0 S4 ME4LA4**	154	**C412_6.0 P132 BE132MA4**	152
313	219	1.8	5.6	5846	**C512_5.6 S4 ME4LA4**	162	**C512_5.6 P132 BE132MA4**	160
333	206	0.9	5.3	2376	**C362_5.3 S4 ME4LA4**	146	**C362_5.3 P132 BE132MA4**	144
377	182	1.4	4.7	2694	**C412_4.7 S4 ME4LA4**	154	**C412_4.7 P132 BE132MA4**	152
381	180	1.0	4.6	2376	**C362_4.6 S4 ME4LA4**	146	**C362_4.6 P132 BE132MA4**	144
395	173	2.3	4.5	5554	**C512_4.5 S4 ME4LA4**	162	**C512_4.5 P132 BE132MA4**	160
419	164	1.1	4.2	2331	**C362_4.2 S4 ME4LA4**	146	**C362_4.2 P132 BE132MA4**	144
471	145	0.9	3.7	1944	**C322_3.7 S4 ME4LA4**	138	**C322_3.7 P132 BE132MA4**	136
487	141	1.8	3.6	2666	**C412_3.6 S4 ME4LA4**	154	**C412_3.6 P132 BE132MA4**	152
505	136	1.4	3.5	2285	**C362_3.5 S4 ME4LA4**	146	**C362_3.5 P132 BE132MA4**	144
516	133	1.0	3.4	1907	**C322_3.4 S4 ME4LA4**	138	**C322_3.4 P132 BE132MA4**	136
532	129	3.0	3.3	5162	**C512_3.3 S4 ME4LA4**	162	**C512_3.3 P132 BE132MA4**	160
553	124	1.5	3.2	2285	**C362_3.2 S4 ME4LA4**	146	**C362_3.2 P132 BE132MA4**	144
611	112	1.1	2.9	1926	**C322_2.9 S4 ME4LA4**	138	**C322_2.9 P132 BE132MA4**	136
655	105	1.8	2.7	2230	**C362_2.7 S4 ME4LA4**	146	**C362_2.7 P132 BE132MA4**	144
662	104	2.4	2.7	2584	**C412_2.7 S4 ME4LA4**	154	**C412_2.7 P132 BE132MA4**	152

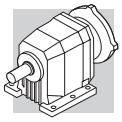
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6.7	11835	1.0	263.0	78795	**C1004_263.0 S4 ME4LB4**	196	**C1004_263.0 P132 BE132MB4**	194
7.2	10990	1.1	244.2	78795	**C1004_244.2 S4 ME4LB4**	196	**C1004_244.2 P132 BE132MB4**	194
8.8	8983	1.3	199.6	78795	**C1004_199.6 S4 ME4LB4**	196	**C1004_199.6 P132 BE132MB4**	194
9.5	8342	1.4	185.4	78795	**C1004_185.4 S4 ME4LB4**	196	**C1004_185.4 P132 BE132MB4**	194
10.9	7295	1.6	162.1	78795	**C1004_162.1 S4 ME4LB4**	196	**C1004_162.1 P132 BE132MB4**	194
11.2	7336	1.0	157.8	51727	**C903_157.8 S4 ME4LB4**	190	**C903_157.8 P132 BE132MB4**	188
11.7	6995	1.7	150.4	78795	**C1003_150.4 S4 ME4LB4**	196	**C1003_150.4 P132 BE132MB4**	194
12.0	6804	1.1	146.3	51356	**C903_146.3 S4 ME4LB4**	190	**C903_146.3 P132 BE132MB4**	188
12.6	6495	1.7	139.7	78795	**C1003_139.7 S4 ME4LB4**	196	**C1003_139.7 P132 BE132MB4**	194
13.1	6237	1.1	134.1	50892	**C903_134.1 S4 ME4LB4**	190	**C903_134.1 P132 BE132MB4**	188
14.6	5604	2.1	120.5	78795	**C1003_120.5 S4 ME4LB4**	196	**C1003_120.5 P132 BE132MB4**	194
15.1	5428	1.3	116.7	50800	**C903_116.7 S4 ME4LB4**	190	**C903_116.7 P132 BE132MB4**	188
15.7	5204	2.3	111.9	78795	**C1003_111.9 S4 ME4LB4**	196	**C1003_111.9 P132 BE132MB4**	194
16.4	4976	1.4	107.0	50614	**C903_107.0 S4 ME4LB4**	190	**C903_107.0 P132 BE132MB4**	188
17.6	4641	2.6	99.8	78795	**C1003_99.8 S4 ME4LB4**	196	**C1003_99.8 P132 BE132MB4**	194
18.3	4475	1.6	96.2	50243	**C903_96.2 S4 ME4LB4**	190	**C903_96.2 P132 BE132MB4**	188
19.0	4309	2.8	92.7	78795	**C1003_92.7 S4 ME4LB4**	196	**C1003_92.7 P132 BE132MB4**	194
19.7	4151	0.9	89.3	29632	**C803_89.3 S4 ME4LB4**	184	**C803_89.3 P132 BE132MB4**	182
20.0	4102	1.7	88.2	49780	**C903_88.2 S4 ME4LB4**	190	**C903_88.2 P132 BE132MB4**	188
21.7	3776	1.9	81.2	49409	**C903_81.2 S4 ME4LB4**	190	**C903_81.2 P132 BE132MB4**	188

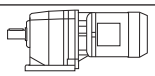


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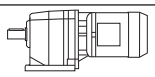
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
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23.6	3462	2.1	74.4	48853	**C903_74.4 S4 ME4LB4**	190	**C903_74.4 P132 BE132MB4**	188
25.0	3278	1.1	70.5	32410	**C803_70.5 S4 ME4LB4**	184	**C803_70.5 P132 BE132MB4**	182
27.3	3003	2.4	64.6	48019	**C903_64.6 S4 ME4LB4**	190	**C903_64.6 P132 BE132MB4**	188
28.2	2907	1.3	62.5	32410	**C803_62.5 S4 ME4LB4**	184	**C803_62.5 P132 BE132MB4**	182
29.7	2753	2.6	59.2	47370	**C903_59.2 S4 ME4LB4**	190	**C903_59.2 P132 BE132MB4**	188
31	2664	1.4	57.3	32410	**C803_57.3 S4 ME4LB4**	184	**C803_57.3 P132 BE132MB4**	182
32	2552	2.7	54.9	46814	**C903_54.9 S4 ME4LB4**	190	**C903_54.9 P132 BE132MB4**	188
35	2339	2.9	50.3	46072	**C903_50.3 S4 ME4LB4**	190	**C903_50.3 P132 BE132MB4**	188
37	2206	1.6	47.4	32317	**C803_47.4 S4 ME4LB4**	184	**C803_47.4 P132 BE132MB4**	182
39	2079	1.0	44.7	19560	**C703_44.7 S4 ME4LB4**	178	**C703_44.7 P132 BE132MB4**	176
40	2022	1.7	43.5	31854	**C803_43.5 S4 ME4LB4**	184	**C803_43.5 P132 BE132MB4**	182
43	1919	1.1	41.3	19467	**C703_41.3 S4 ME4LB4**	178	**C703_41.3 P132 BE132MB4**	176
45	1858	1.6	39.1	29910	**C802_39.1 S4 ME4LB4**	184	**C802_39.1 P132 BE132MB4**	182
51	1651	1.3	34.7	17798	**C702_34.7 S4 ME4LB4**	178	**C702_34.7 P132 BE132MB4**	176
53	1484	1.0	33.0	11059	**C613_33.0 S4 ME4LB4**	170	**C613_33.0 P132 BE132MB4**	168
56	1488	2.3	31.3	28799	**C802_31.3 S4 ME4LB4**	184	**C802_31.3 P132 BE132MB4**	182
58	1446	0.9	30.4	11242	**C612_30.4 S4 ME4LB4**	170	**C612_30.4 P132 BE132MB4**	168
60	1321	1.0	29.4	9597	**C613_29.4 S4 ME4LB4**	170	**C613_29.4 P132 BE132MB4**	168
63	1317	1.6	27.7	17520	**C702_27.7 S4 ME4LB4**	178	**C702_27.7 P132 BE132MB4**	176
64	1302	1.0	27.4	9506	**C612_27.4 S4 ME4LB4**	170	**C612_27.4 P132 BE132MB4**	168
66	1205	1.1	26.8	10420	**C613_26.8 S4 ME4LB4**	170	**C613_26.8 P132 BE132MB4**	168
68	1233	2.8	25.9	28058	**C802_25.9 S4 ME4LB4**	184	**C802_25.9 P132 BE132MB4**	182
71	1179	1.1	24.8	10785	**C612_24.8 S4 ME4LB4**	170	**C612_24.8 P132 BE132MB4**	168
73	1138	2.9	24.0	27780	**C802_24.0 S4 ME4LB4**	184	**C802_24.0 P132 BE132MB4**	182
77	1086	1.9	22.9	17150	**C702_22.9 S4 ME4LB4**	178	**C702_22.9 P132 BE132MB4**	176
79	1062	1.2	22.4	10694	**C612_22.4 S4 ME4LB4**	170	**C612_22.4 P132 BE132MB4**	168
90	931	1.4	19.6	10602	**C612_19.6 S4 ME4LB4**	170	**C612_19.6 P132 BE132MB4**	168
91	916	2.3	19.3	16779	**C702_19.3 S4 ME4LB4**	178	**C702_19.3 P132 BE132MB4**	176
100	838	1.5	17.7	10420	**C612_17.7 S4 ME4LB4**	170	**C612_17.7 P132 BE132MB4**	168
105	793	2.4	16.7	16223	**C702_16.7 S4 ME4LB4**	178	**C702_16.7 P132 BE132MB4**	176
106	789	0.9	16.6	6749	**C512_16.6 S4 ME4LB4**	162	**C512_16.6 P132 BE132MB4**	160
110	757	1.7	15.9	10237	**C612_15.9 S4 ME4LB4**	170	**C612_15.9 P132 BE132MB4**	168
115	728	2.9	15.3	16223	**C702_15.3 S4 ME4LB4**	178	**C702_15.3 P132 BE132MB4**	176
118	711	1.0	15.0	6776	**C512_15.0 S4 ME4LB4**	162	**C512_15.0 P132 BE132MB4**	160
123	681	1.8	14.3	10054	**C612_14.3 S4 ME4LB4**	170	**C612_14.3 P132 BE132MB4**	168
125	670	3.0	14.1	15759	**C702_14.1 S4 ME4LB4**	178	**C702_14.1 P132 BE132MB4**	176
134	624	1.1	13.1	6694	**C512_13.1 S4 ME4LB4**	162	**C512_13.1 P132 BE132MB4**	160
146	574	2.2	12.1	9780	**C612_12.1 S4 ME4LB4**	170	**C612_12.1 P132 BE132MB4**	168
149	562	1.3	11.8	6639	**C512_11.8 S4 ME4LB4**	162	**C512_11.8 P132 BE132MB4**	160
162	517	2.4	10.9	9597	**C612_10.9 S4 ME4LB4**	170	**C612_10.9 P132 BE132MB4**	168
179	466	2.7	9.8	9414	**C612_9.8 S4 ME4LB4**	170	**C612_9.8 P132 BE132MB4**	168
180	463	1.4	9.8	6457	**C512_9.8 S4 ME4LB4**	162	**C512_9.8 P132 BE132MB4**	160
199	420	3.0	8.8	9140	**C612_8.8 S4 ME4LB4**	170	**C612_8.8 P132 BE132MB4**	168
200	418	1.5	8.8	6375	**C512_8.8 S4 ME4LB4**	162	**C512_8.8 P132 BE132MB4**	160
227	368	1.6	7.8	6220	**C512_7.8 S4 ME4LB4**	162	**C512_7.8 P132 BE132MB4**	160
249	336	1.0	7.1	2867	**C412_7.1 S4 ME4LB4**	154	**C412_7.1 P132 BE132MB4**	152
252	332	1.7	7.0	6120	**C512_7.0 S4 ME4LB4**	162	**C512_7.0 P132 BE132MB4**	160
260	322	1.0	6.8	2239	**C362_6.8 S4 ME4LB4**	146	**C362_6.8 P132 BE132MB4**	144

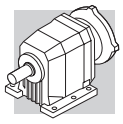


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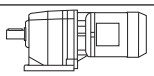
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
277	302	1.1	6.4	2821	**C412_6.4 S4 ME4LB4**	154	**C412_6.4 P132 BE132MB4**	152
293	285	2.2	6.0	8162	**C612_6.0 S4 ME4LB4**	170	**C612_6.0 P132 BE132MB4**	168
296	283	0.9	6.0	2594	**C412_6.0 S4 ME4LB4**	154	**C412_6.0 P132 BE132MB4**	152
313	267	1.5	5.6	5609	**C512_5.6 S4 ME4LB4**	162	**C512_5.6 P132 BE132MB4**	160
377	221	1.2	4.7	2384	**C412_4.7 S4 ME4LB4**	154	**C412_4.7 P132 BE132MB4**	152
386	216	2.8	4.6	7641	**C612_4.6 S4 ME4LB4**	170	**C612_4.6 P132 BE132MB4**	168
395	212	1.9	4.5	5363	**C512_4.5 S4 ME4LB4**	162	**C512_4.5 P132 BE132MB4**	160
419	199	0.9	4.2	2157	**C362_4.2 S4 ME4LB4**	146	**C362_4.2 P132 BE132MB4**	144
487	172	1.5	3.6	2430	**C412_3.6 S4 ME4LB4**	154	**C412_3.6 P132 BE132MB4**	152
505	166	1.1	3.5	2102	**C362_3.5 S4 ME4LB4**	146	**C362_3.5 P132 BE132MB4**	144
532	157	2.5	3.3	5025	**C512_3.3 S4 ME4LB4**	162	**C512_3.3 P132 BE132MB4**	160
553	151	1.2	3.2	2102	**C362_3.2 S4 ME4LB4**	146	**C362_3.2 P132 BE132MB4**	144
655	128	1.5	2.7	2084	**C362_2.7 S4 ME4LB4**	146	**C362_2.7 P132 BE132MB4**	144
662	126	1.9	2.7	2412	**C412_2.7 S4 ME4LB4**	154	**C412_2.7 P132 BE132MB4**	152
669	125	2.9	2.6	4752	**C512_2.6 S4 ME4LB4**	162	**C512_2.6 P132 BE132MB4**	160

11 kW

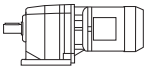
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7.2	13188	0.9	244.2	78795	**C1004_244.2 S5 ME5SA4**	196	**C1004_244.2 P160 BE160M4**	194
8.8	10780	1.1	199.6	78795	**C1004_199.6 S5 ME5SA4**	196	**C1004_199.6 P160 BE160M4**	194
9.5	10010	1.2	185.4	78795	**C1004_185.4 S5 ME5SA4**	196	**C1004_185.4 P160 BE160M4**	194
10.9	8754	1.4	162.1	78795	**C1004_162.1 S5 ME5SA4**	196	**C1004_162.1 P160 BE160M4**	194
11.7	8394	1.4	150.4	78795	**C1003_150.4 S5 ME5SA4**	196	**C1003_150.4 P160 BE160M4**	194
12.6	7794	1.4	139.7	78795	**C1003_139.7 S5 ME5SA4**	196	**C1003_139.7 P160 BE160M4**	194
13.2	7485	0.9	134.1	48297	**C903_134.1 S5 ME5SA4**	190	**C903_134.1 P160 BE160M4**	188
14.6	6725	1.8	120.5	78795	**C1003_120.5 S5 ME5SA4**	196	**C1003_120.5 P160 BE160M4**	194
15.1	6514	1.1	116.7	47092	**C903_116.7 S5 ME5SA4**	190	**C903_116.7 P160 BE160M4**	188
15.8	6244	1.9	111.9	78795	**C1003_111.9 S5 ME5SA4**	196	**C1003_111.9 P160 BE160M4**	194
16.5	5971	1.2	107.0	47277	**C903_107.0 S5 ME5SA4**	190	**C903_107.0 P160 BE160M4**	188
17.7	5569	2.2	99.8	78795	**C1003_99.8 S5 ME5SA4**	196	**C1003_99.8 P160 BE160M4**	194
18.3	5370	1.3	96.2	47092	**C903_96.2 S5 ME5SA4**	190	**C903_96.2 P160 BE160M4**	188
19.0	5171	2.3	92.7	78795	**C1003_92.7 S5 ME5SA4**	196	**C1003_92.7 P160 BE160M4**	194
20.0	4923	1.4	88.2	46999	**C903_88.2 S5 ME5SA4**	190	**C903_88.2 P160 BE160M4**	188
20.6	4774	2.5	85.6	78795	**C1003_85.6 S5 ME5SA4**	196	**C1003_85.6 P160 BE160M4**	194
21.7	4532	1.6	81.2	46999	**C903_81.2 S5 ME5SA4**	190	**C903_81.2 P160 BE160M4**	188
22.2	4433	2.7	79.4	78795	**C1003_79.4 S5 ME5SA4**	196	**C1003_79.4 P160 BE160M4**	194
23.7	4154	1.7	74.4	46535	**C903_74.4 S5 ME5SA4**	190	**C903_74.4 P160 BE160M4**	188
25.0	3934	0.9	70.5	29493	**C803_70.5 S5 ME5SA4**	184	**C803_70.5 P160 BE160M4**	182
27.3	3604	2.0	64.6	46350	**C903_64.6 S5 ME5SA4**	190	**C903_64.6 P160 BE160M4**	188
28.2	3488	1.1	62.5	30558	**C803_62.5 S5 ME5SA4**	184	**C803_62.5 P160 BE160M4**	182
29.8	3303	2.1	59.2	45423	**C903_59.2 S5 ME5SA4**	190	**C903_59.2 P160 BE160M4**	188
31	3197	1.2	57.3	31669	**C803_57.3 S5 ME5SA4**	184	**C803_57.3 P160 BE160M4**	182
32	3062	2.3	54.9	45238	**C903_54.9 S5 ME5SA4**	190	**C903_54.9 P160 BE160M4**	188
35	2807	2.4	50.3	44496	**C903_50.3 S5 ME5SA4**	190	**C903_50.3 P160 BE160M4**	188
37	2647	1.3	47.4	31021	**C803_47.4 S5 ME5SA4**	184	**C803_47.4 P160 BE160M4**	182

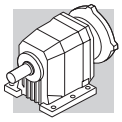


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41	2399	2.8	43.0	43569	**C903_43.0 S5 ME5SA4**	190	**C903_43.0 P160 BE160M4**	188
43	2302	0.9	41.3	19189	**C703_41.3 S5 ME5SA4**	178	**C703_41.3 P160 BE160M4**	176
45	2199	3.0	39.4	42735	**C903_39.4 S5 ME5SA4**	190	**C903_39.4 P160 BE160M4**	188
45	2229	1.3	39.1	28613	**C802_39.1 S5 ME5SA4**	184	**C802_39.1 P160 BE160M4**	182
50	2001	2.5	35.1	41715	**C902_35.1 S5 ME5SA4**	190	**C902_35.1 P160 BE160M4**	188
51	1981	1.1	34.7	17428	**C702_34.7 S5 ME5SA4**	178	**C702_34.7 P160 BE160M4**	176
56	1786	1.9	31.3	27780	**C802_31.3 S5 ME5SA4**	184	**C802_31.3 P160 BE160M4**	182
64	1580	1.3	27.7	16501	**C702_27.7 S5 ME5SA4**	178	**C702_27.7 P160 BE160M4**	176
66	1446	0.9	26.8	10328	**C613_26.8 S5 ME5SA4**	170	**C613_26.8 P160 BE160M4**	168
68	1479	2.3	25.9	27039	**C802_25.9 S5 ME5SA4**	184	**C802_25.9 P160 BE160M4**	182
71	1415	1.0	24.8	10145	**C612_24.8 S5 ME5SA4**	170	**C612_24.8 P160 BE160M4**	168
74	1365	2.4	24.0	26576	**C802_24.0 S5 ME5SA4**	184	**C802_24.0 P160 BE160M4**	182
77	1303	1.6	22.9	16315	**C702_22.9 S5 ME5SA4**	178	**C702_22.9 P160 BE160M4**	176
79	1274	1.0	22.4	9780	**C612_22.4 S5 ME5SA4**	170	**C612_22.4 P160 BE160M4**	168
79	1268	2.7	22.2	26298	**C802_22.2 S5 ME5SA4**	184	**C802_22.2 P160 BE160M4**	182
86	1170	2.8	20.5	25928	**C802_20.5 S5 ME5SA4**	184	**C802_20.5 P160 BE160M4**	182
90	1117	1.2	19.6	9871	**C612_19.6 S5 ME5SA4**	170	**C612_19.6 P160 BE160M4**	168
92	1099	1.9	19.3	16037	**C702_19.3 S5 ME5SA4**	178	**C702_19.3 P160 BE160M4**	176
100	1006	1.2	17.7	9780	**C612_17.7 S5 ME5SA4**	170	**C612_17.7 P160 BE160M4**	168
106	952	2.0	16.7	15574	**C702_16.7 S5 ME5SA4**	178	**C702_16.7 P160 BE160M4**	176
111	908	1.4	15.9	9780	**C612_15.9 S5 ME5SA4**	170	**C612_15.9 P160 BE160M4**	168
115	874	2.4	15.3	15574	**C702_15.3 S5 ME5SA4**	178	**C702_15.3 P160 BE160M4**	176
123	818	1.5	14.3	9597	**C612_14.3 S5 ME5SA4**	170	**C612_14.3 P160 BE160M4**	168
125	803	2.5	14.1	15203	**C702_14.1 S5 ME5SA4**	178	**C702_14.1 P160 BE160M4**	176
134	748	0.9	13.1	6202	**C512_13.1 S5 ME5SA4**	162	**C512_13.1 P160 BE160M4**	160
135	743	2.8	13.0	15203	**C702_13.0 S5 ME5SA4**	178	**C702_13.0 P160 BE160M4**	176
146	689	1.8	12.1	9414	**C612_12.1 S5 ME5SA4**	170	**C612_12.1 P160 BE160M4**	168
149	675	1.0	11.8	6211	**C512_11.8 S5 ME5SA4**	162	**C512_11.8 P160 BE160M4**	160
162	621	2.0	10.9	9231	**C612_10.9 S5 ME5SA4**	170	**C612_10.9 P160 BE160M4**	168
180	560	2.2	9.8	9058	**C612_9.8 S5 ME5SA4**	170	**C612_9.8 P160 BE160M4**	168
181	556	1.1	9.8	6101	**C512_9.8 S5 ME5SA4**	162	**C512_9.8 P160 BE160M4**	160
200	504	2.5	8.8	8857	**C612_8.8 S5 ME5SA4**	170	**C612_8.8 P160 BE160M4**	168
201	501	1.3	8.8	6056	**C512_8.8 S5 ME5SA4**	162	**C512_8.8 P160 BE160M4**	160
228	442	1.3	7.8	5937	**C512_7.8 S5 ME5SA4**	162	**C512_7.8 P160 BE160M4**	160
236	427	2.9	7.5	8582	**C612_7.5 S5 ME5SA4**	170	**C612_7.5 P160 BE160M4**	168
253	398	1.5	7.0	5864	**C512_7.0 S5 ME5SA4**	162	**C512_7.0 P160 BE160M4**	160
294	342	1.8	6.0	7924	**C612_6.0 S5 ME5SA4**	170	**C612_6.0 P160 BE160M4**	168
313	321	1.2	5.6	5363	**C512_5.6 S5 ME5SA4**	162	**C512_5.6 P160 BE160M4**	160
387	260	2.4	4.6	7458	**C612_4.6 S5 ME5SA4**	170	**C612_4.6 P160 BE160M4**	168
396	254	1.6	4.5	5162	**C512_4.5 S5 ME5SA4**	162	**C512_4.5 P160 BE160M4**	160
477	211	2.9	3.7	7093	**C612_3.7 S5 ME5SA4**	170	**C612_3.7 P160 BE160M4**	168
534	189	2.0	3.3	4870	**C512_3.3 S5 ME5SA4**	162	**C512_3.3 P160 BE160M4**	160
671	150	2.4	2.6	4633	**C512_2.6 S5 ME5SA4**	162	**C512_2.6 P160 BE160M4**	160

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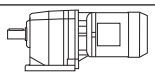
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
10.9	11817	1.0	162.1	74855	**C1004_162.1 S5 ME5LA4**	196	**C1004_162.1 P160 BE160L4**	194
11.8	11332	1.1	150.4	77219	**C1003_150.4 S5 ME5LA4**	196	**C1003_150.4 P160 BE160L4**	194
12.7	10522	1.1	139.7	77219	**C1003_139.7 S5 ME5LA4**	196	**C1003_139.7 P160 BE160L4**	194
14.7	9078	1.3	120.5	77683	**C1003_120.5 S5 ME5LA4**	196	**C1003_120.5 P160 BE160L4**	194
15.8	8430	1.4	111.9	77219	**C1003_111.9 S5 ME5LA4**	196	**C1003_111.9 P160 BE160L4**	194

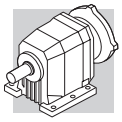


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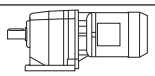
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
17.7	7518	1.6	99.8	76663	**C1003_99.8 S5 ME5LA4**	196	**C1003_99.8 P160 BE160L4**	194
18.4	7250	1.0	96.2	42549	**C903_96.2 S5 ME5LA4**	190	**C903_96.2 P160 BE160L4**	188
19.1	6981	1.7	92.7	76385	**C1003_92.7 S5 ME5LA4**	196	**C1003_92.7 P160 BE160L4**	194
20.1	6646	1.1	88.2	42179	**C903_88.2 S5 ME5LA4**	190	**C903_88.2 P160 BE160L4**	188
20.7	6445	1.9	85.6	75551	**C1003_85.6 S5 ME5LA4**	196	**C1003_85.6 P160 BE160L4**	194
21.8	6118	1.2	81.2	41066	**C903_81.2 S5 ME5LA4**	190	**C903_81.2 P160 BE160L4**	188
22.3	5985	2.0	79.4	75087	**C1003_79.4 S5 ME5LA4**	196	**C1003_79.4 P160 BE160L4**	194
23.8	5608	1.3	74.4	41530	**C903_74.4 S5 ME5LA4**	190	**C903_74.4 P160 BE160L4**	188
25.5	5230	2.3	69.4	73697	**C1003_69.4 S5 ME5LA4**	196	**C1003_69.4 P160 BE160L4**	194
27.4	4865	1.5	64.6	41252	**C903_64.6 S5 ME5LA4**	190	**C903_64.6 P160 BE160L4**	188
27.5	4856	2.5	64.5	72862	**C1003_64.5 S5 ME5LA4**	196	**C1003_64.5 P160 BE160L4**	194
29.9	4460	1.6	59.2	41159	**C903_59.2 S5 ME5LA4**	190	**C903_59.2 P160 BE160L4**	188
31	4320	2.8	57.4	71750	**C1003_57.4 S5 ME5LA4**	196	**C1003_57.4 P160 BE160L4**	194
32	4134	1.7	54.9	41066	**C903_54.9 S5 ME5LA4**	190	**C903_54.9 P160 BE160L4**	188
33	4012	3.0	53.3	70637	**C1003_53.3 S5 ME5LA4**	196	**C1003_53.3 P160 BE160L4**	194
35	3789	1.8	50.3	40881	**C903_50.3 S5 ME5LA4**	190	**C903_50.3 P160 BE160L4**	188
37	3574	1.0	47.4	27502	**C803_47.4 S5 ME5LA4**	184	**C803_47.4 P160 BE160L4**	182
41	3276	1.1	43.5	28058	**C803_43.5 S5 ME5LA4**	184	**C803_43.5 P160 BE160L4**	182
41	3238	2.1	43.0	40881	**C903_43.0 S5 ME5LA4**	190	**C903_43.0 P160 BE160L4**	188
45	2968	2.2	39.4	39861	**C903_39.4 S5 ME5LA4**	190	**C903_39.4 P160 BE160L4**	188
45	3010	1.0	39.1	25280	**C802_39.1 S5 ME5LA4**	184	**C802_39.1 P160 BE160L4**	182
50	2701	1.9	35.1	39119	**C902_35.1 S5 ME5LA4**	190	**C902_35.1 P160 BE160L4**	188
56	2411	1.4	31.3	25465	**C802_31.3 S5 ME5LA4**	184	**C802_31.3 P160 BE160L4**	182
60	2265	2.4	29.4	38100	**C902_29.4 S5 ME5LA4**	190	**C902_29.4 P160 BE160L4**	188
64	2133	1.0	27.7	15203	**C702_27.7 S5 ME5LA4**	178	**C702_27.7 P160 BE160L4**	176
65	2091	2.4	27.2	37729	**C902_27.2 S5 ME5LA4**	190	**C902_27.2 P160 BE160L4**	188
68	1997	1.7	25.9	25095	**C802_25.9 S5 ME5LA4**	184	**C802_25.9 P160 BE160L4**	182
74	1843	1.8	24.0	24909	**C802_24.0 S5 ME5LA4**	184	**C802_24.0 P160 BE160L4**	182
77	1759	1.2	22.9	14276	**C702_22.9 S5 ME5LA4**	178	**C702_22.9 P160 BE160L4**	176
80	1712	2.0	22.2	24632	**C802_22.2 S5 ME5LA4**	184	**C802_22.2 P160 BE160L4**	182
86	1580	2.1	20.5	24261	**C802_20.5 S5 ME5LA4**	184	**C802_20.5 P160 BE160L4**	182
92	1484	1.4	19.3	14461	**C702_19.3 S5 ME5LA4**	178	**C702_19.3 P160 BE160L4**	176
98	1389	2.5	18.1	23891	**C802_18.1 S5 ME5LA4**	184	**C802_18.1 P160 BE160L4**	182
100	1358	0.9	17.7	8637	**C612_17.7 S5 ME5LA4**	170	**C612_17.7 P160 BE160L4**	168
106	1285	1.5	16.7	14276	**C702_16.7 S5 ME5LA4**	178	**C702_16.7 P160 BE160L4**	176
106	1282	2.5	16.7	23613	**C802_16.7 S5 ME5LA4**	184	**C802_16.7 P160 BE160L4**	182
111	1226	1.0	15.9	8546	**C612_15.9 S5 ME5LA4**	170	**C612_15.9 P160 BE160L4**	168
115	1180	1.8	15.3	14276	**C702_15.3 S5 ME5LA4**	178	**C702_15.3 P160 BE160L4**	176
119	1147	3.0	14.9	23150	**C802_14.9 S5 ME5LA4**	184	**C802_14.9 P160 BE160L4**	182
123	1104	1.1	14.3	8482	**C612_14.3 S5 ME5LA4**	170	**C612_14.3 P160 BE160L4**	168
126	1085	1.8	14.1	14183	**C702_14.1 S5 ME5LA4**	178	**C702_14.1 P160 BE160L4**	176
136	1003	2.0	13.0	14090	**C702_13.0 S5 ME5LA4**	178	**C702_13.0 P160 BE160L4**	176
146	930	1.3	12.1	8473	**C612_12.1 S5 ME5LA4**	170	**C612_12.1 P160 BE160L4**	168
158	863	2.3	11.2	13627	**C702_11.2 S5 ME5LA4**	178	**C702_11.2 P160 BE160L4**	176
163	838	1.5	10.9	8354	**C612_10.9 S5 ME5LA4**	170	**C612_10.9 P160 BE160L4**	168
173	785	2.5	10.2	13534	**C702_10.2 S5 ME5LA4**	178	**C702_10.2 P160 BE160L4**	176
180	756	1.7	9.8	8308	**C612_9.8 S5 ME5LA4**	170	**C612_9.8 P160 BE160L4**	168
186	733	2.7	9.5	13349	**C702_9.5 S5 ME5LA4**	178	**C702_9.5 P160 BE160L4**	176
200	680	1.8	8.8	8162	**C612_8.8 S5 ME5LA4**	170	**C612_8.8 P160 BE160L4**	168
201	676	0.9	8.8	5353	**C512_8.8 S5 ME5LA4**	162	**C512_8.8 P160 BE160L4**	160
228	596	1.0	7.8	5335	**C512_7.8 S5 ME5LA4**	162	**C512_7.8 P160 BE160L4**	160
236	576	2.2	7.5	8007	**C612_7.5 S5 ME5LA4**	170	**C612_7.5 P160 BE160L4**	168
253	538	1.1	7.0	5290	**C512_7.0 S5 ME5LA4**	162	**C512_7.0 P160 BE160L4**	160
263	519	2.4	6.7	7833	**C612_6.7 S5 ME5LA4**	170	**C612_6.7 P160 BE160L4**	168
295	462	1.3	6.0	7431	**C612_6.0 S5 ME5LA4**	170	**C612_6.0 P160 BE160L4**	168
314	433	0.9	5.6	4779	**C512_5.6 S5 ME5LA4**	162	**C512_5.6 P160 BE160L4**	160
389	351	1.8	4.6	7029	**C612_4.6 S5 ME5LA4**	170	**C612_4.6 P160 BE160L4**	168
397	343	1.2	4.5	4788	**C512_4.5 S5 ME5LA4**	162	**C512_4.5 P160 BE160L4**	160
478	285	2.2	3.7	6736	**C612_3.7 S5 ME5LA4**	170	**C612_3.7 P160 BE160L4**	168
535	255	1.5	3.3	4633	**C512_3.3 S5 ME5LA4**	162	**C512_3.3 P160 BE160L4**	160
628	217	2.8	2.8	6343	**C612_2.8 S5 ME5LA4**	170	**C612_2.8 P160 BE160L4**	168
673	202	1.8	2.6	4505	**C512_2.6 S5 ME5LA4**	162	**C512_2.6 P160 BE160L4**	160

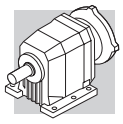
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
14.6	11208	1.1	120.5	72584			**C1003_120.5 P180 BE180M4**	194
15.8	10407	1.2	111.9	71008			**C1003_111.9 P180 BE180M4**	194
17.7	9282	1.3	99.8	71101			**C1003_99.8 P180 BE180M4**	194
19.0	8619	1.4	92.7	71101			**C1003_92.7 P180 BE180M4**	194
20.6	7957	1.5	85.6	70823			**C1003_85.6 P180 BE180M4**	194
21.7	7553	1.0	81.2	39583			**C903_81.2 P180 BE180M4**	188
22.2	7388	1.6	79.4	70545			**C1003_79.4 P180 BE180M4**	194
23.7	6923	1.0	74.4	39490			**C903_74.4 P180 BE180M4**	188
25.4	6457	1.9	69.4	69896			**C1003_69.4 P180 BE180M4**	194
27.3	6006	1.2	64.6	37358			**C903_64.6 P180 BE180M4**	188
27.4	5996	2.0	64.5	69340			**C1003_64.5 P180 BE180M4**	194
29.8	5506	1.3	59.2	37544			**C903_59.2 P180 BE180M4**	188
31	5334	2.2	57.4	68320			**C1003_57.4 P180 BE180M4**	194
32	5103	1.4	54.9	37729			**C903_54.9 P180 BE180M4**	188
33	4953	2.4	53.3	67764			**C1003_53.3 P180 BE180M4**	194
35	4678	1.5	50.3	37729			**C903_50.3 P180 BE180M4**	188
38	4299	2.7	46.2	66373			**C1003_46.2 P180 BE180M4**	194
41	3998	1.7	43.0	37636			**C903_43.0 P180 BE180M4**	188
41	3992	2.8	42.9	65632			**C1003_42.9 P180 BE180M4**	194
45	3664	1.8	39.4	37544			**C903_39.4 P180 BE180M4**	188
50	3334	1.5	35.1	36895			**C902_35.1 P180 BE180M4**	188
56	2977	1.2	31.3	23150			**C802_31.3 P180 BE180M4**	182
60	2796	2.0	29.4	36246			**C902_29.4 P180 BE180M4**	188
65	2581	2.0	27.2	35968			**C902_27.2 P180 BE180M4**	188
68	2465	1.4	25.9	23428			**C802_25.9 P180 BE180M4**	182
71	2359	2.6	24.8	35597			**C902_24.8 P180 BE180M4**	188
74	2276	1.4	24.0	23150			**C802_24.0 P180 BE180M4**	182
77	2177	2.6	22.9	35133			**C902_22.9 P180 BE180M4**	188
77	2171	1.0	22.9	13998			**C702_22.9 P180 BE180M4**	176
79	2113	1.6	22.2	23243			**C802_22.2 P180 BE180M4**	182
86	1951	1.7	20.5	23057			**C802_20.5 P180 BE180M4**	182
92	1832	1.1	19.3	13071			**C702_19.3 P180 BE180M4**	176
98	1715	2.0	18.1	22872			**C802_18.1 P180 BE180M4**	182
106	1587	1.2	16.7	12793			**C702_16.7 P180 BE180M4**	176
106	1583	2.0	16.7	22594			**C802_16.7 P180 BE180M4**	182
115	1457	1.4	15.3	12793			**C702_15.3 P180 BE180M4**	176
118	1417	2.4	14.9	22224			**C802_14.9 P180 BE180M4**	182
123	1363	0.9	14.3	7815			**C612_14.3 P180 BE180M4**	168
125	1339	1.5	14.1	12885			**C702_14.1 P180 BE180M4**	176
128	1308	2.5	13.8	21946			**C802_13.8 P180 BE180M4**	182
135	1238	1.7	13.0	12793			**C702_13.0 P180 BE180M4**	176
146	1149	1.1	12.1	7696			**C612_12.1 P180 BE180M4**	168
157	1065	1.9	11.2	12793			**C702_11.2 P180 BE180M4**	176
162	1034	1.2	10.9	7641			**C612_10.9 P180 BE180M4**	168
173	970	2.0	10.2	12700			**C702_10.2 P180 BE180M4**	176
180	933	1.3	9.8	7678			**C612_9.8 P180 BE180M4**	168
185	905	2.2	9.5	12607			**C702_9.5 P180 BE180M4**	176
200	840	1.5	8.8	7586			**C612_8.8 P180 BE180M4**	168
221	760	2.6	8.0	12515			**C702_8.0 P180 BE180M4**	176
236	711	1.8	7.5	7522			**C612_7.5 P180 BE180M4**	168
237	709	2.7	7.5	12422			**C702_7.5 P180 BE180M4**	176
262	640	2.0	6.7	7394			**C612_6.7 P180 BE180M4**	168
294	570	1.1	6.0	6901			**C612_6.0 P180 BE180M4**	168
387	433	1.4	4.6	6672			**C612_4.6 P180 BE180M4**	168
396	423	0.9	4.5	4286			**C512_4.5 P180 BE180M4**	160
477	351	1.8	3.7	6453			**C612_3.7 P180 BE180M4**	168
534	314	1.2	3.3	4332			**C512_3.3 P180 BE180M4**	160
626	268	2.3	2.8	6124			**C612_2.8 P180 BE180M4**	168
671	250	1.5	2.6	4195			**C512_2.6 P180 BE180M4**	160

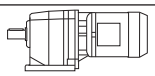


22 kW

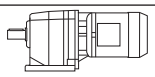
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
15.8	12385	1.0	111.9	67300			**C1003_111.9 P180 BE180L4**	194
17.7	11045	1.1	99.8	65446			**C1003_99.8 P180 BE180L4**	194
19.1	10256	1.2	92.7	65724			**C1003_92.7 P180 BE180L4**	194
20.7	9468	1.3	85.6	65910			**C1003_85.6 P180 BE180L4**	194
22.3	8792	1.4	79.4	66002			**C1003_79.4 P180 BE180L4**	194
25.5	7684	1.6	69.4	65817			**C1003_69.4 P180 BE180L4**	194
27.4	7147	1.0	64.6	34577			**C903_64.6 P180 BE180L4**	188
27.5	7135	1.7	64.5	65632			**C1003_64.5 P180 BE180L4**	194
29.9	6552	1.1	59.2	34021			**C903_59.2 P180 BE180L4**	188
31	6347	1.9	57.4	65168			**C1003_57.4 P180 BE180L4**	194
32	6073	1.2	54.9	33372			**C903_54.9 P180 BE180L4**	188
33	5894	2.0	53.3	64705			**C1003_53.3 P180 BE180L4**	194
35	5567	1.2	50.3	34670			**C903_50.3 P180 BE180L4**	188
38	5116	2.3	46.2	63778			**C1003_46.2 P180 BE180L4**	194
41	4757	1.4	43.0	34763			**C903_43.0 P180 BE180L4**	188
41	4750	2.4	42.9	63129			**C1003_42.9 P180 BE180L4**	194
45	4361	1.5	39.4	34763			**C903_39.4 P180 BE180L4**	188
48	4088	2.7	36.9	61831			**C1003_36.9 P180 BE180L4**	194
50	3968	1.3	35.1	34670			**C902_35.1 P180 BE180L4**	188
52	3796	2.9	34.3	61089			**C1003_34.3 P180 BE180L4**	194
56	3542	1.0	31.3	23057			**C802_31.3 P180 BE180L4**	182
60	3271	2.6	29.6	59421			**C1002_29.6 P180 BE180L4**	194
60	3328	1.6	29.4	34392			**C902_29.4 P180 BE180L4**	188
65	3072	1.7	27.2	34206			**C902_27.2 P180 BE180L4**	188
68	2934	1.2	25.9	21298			**C802_25.9 P180 BE180L4**	182
71	2807	2.2	24.8	33928			**C902_24.8 P180 BE180L4**	188
74	2708	1.2	24.0	21946			**C802_24.0 P180 BE180L4**	182
77	2591	2.2	22.9	33743			**C902_22.9 P180 BE180L4**	188
80	2515	1.4	22.2	21761			**C802_22.2 P180 BE180L4**	182
86	2321	1.4	20.5	21668			**C802_20.5 P180 BE180L4**	182
87	2288	2.7	20.2	33187			**C902_20.2 P180 BE180L4**	188
92	2180	1.0	19.3	12692			**C702_19.3 P180 BE180L4**	176
95	2112	2.7	18.7	32816			**C902_18.7 P180 BE180L4**	188
98	2041	1.7	18.1	21576			**C802_18.1 P180 BE180L4**	182
106	1888	1.0	16.7	11495			**C702_16.7 P180 BE180L4**	176
106	1884	1.7	16.7	21391			**C802_16.7 P180 BE180L4**	182
115	1734	1.2	15.3	11495			**C702_15.3 P180 BE180L4**	176
119	1686	2.0	14.9	21205			**C802_14.9 P180 BE180L4**	182
126	1593	1.2	14.1	11773			**C702_14.1 P180 BE180L4**	176
129	1556	2.1	13.8	21020			**C802_13.8 P180 BE180L4**	182
136	1473	1.4	13.0	11773			**C702_13.0 P180 BE180L4**	176
146	1367	0.9	12.1	7221			**C612_12.1 P180 BE180L4**	168
147	1359	2.5	12.0	20835			**C802_12.0 P180 BE180L4**	182
158	1267	1.6	11.2	11958			**C702_11.2 P180 BE180L4**	176
160	1254	2.6	11.1	20465			**C802_11.1 P180 BE180L4**	182
163	1231	1.0	10.9	6928			**C612_10.9 P180 BE180L4**	168
173	1154	1.7	10.2	11866			**C702_10.2 P180 BE180L4**	176
180	1110	1.1	9.8	7047			**C612_9.8 P180 BE180L4**	168
186	1077	1.8	9.5	11866			**C702_9.5 P180 BE180L4**	176
200	1000	1.3	8.8	7001			**C612_8.8 P180 BE180L4**	168
221	905	2.1	8.0	11773			**C702_8.0 P180 BE180L4**	176
236	846	1.5	7.5	7029			**C612_7.5 P180 BE180L4**	168
237	843	2.3	7.5	11773			**C702_7.5 P180 BE180L4**	176
263	762	1.6	6.7	6946			**C612_6.7 P180 BE180L4**	168
283	707	2.6	6.3	11588			**C702_6.3 P180 BE180L4**	176
295	678	0.9	6.0	6581			**C612_6.0 P180 BE180L4**	168
303	661	2.7	5.9	11402			**C702_5.9 P180 BE180L4**	176
389	515	1.2	4.6	6316			**C612_4.6 P180 BE180L4**	168
478	418	1.5	3.7	6160			**C612_3.7 P180 BE180L4**	168
535	374	1.0	3.3	3967			**C512_3.3 P180 BE180L4**	160



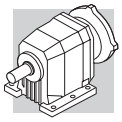
22 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
628	319	1.9	2.8	5895			**C612_2.8 P180 BE180L4**	168
673	297	1.2	2.6	3912			**C512_2.6 P180 BE180L4**	160

30 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
20.6	12890	0.9	85.6	59792			**C1003_85.6 P200 IEC200L4**	194
22.2	11969	1.0	79.4	57196			**C1003_79.4 P200 IEC200L4**	194
25.4	10460	1.1	69.4	59792			**C1003_69.4 P200 IEC200L4**	194
27.3	9713	1.2	64.5	58957			**C1003_64.5 P200 IEC200L4**	194
31	8640	1.4	57.4	65632			**C1003_57.4 P200 IEC200L4**	194
33	8023	1.5	53.3	63314			**C1003_53.3 P200 IEC200L4**	194
38	6964	1.7	46.2	63963			**C1003_46.2 P200 IEC200L4**	194
41	6476	1.0	43.0	28366			**C903_43.0 P200 IEC200L4**	188
41	6467	1.8	42.9	61738			**C1003_42.9 P200 IEC200L4**	194
45	5936	1.1	39.4	27439			**C903_39.4 P200 IEC200L4**	188
48	5565	2.0	36.9	66744			**C1003_36.9 P200 IEC200L4**	194
50	5402	0.9	35.1	30591			**C902_35.1 P200 IEC200L4**	188
51	5167	2.1	34.3	64519			**C1003_34.3 P200 IEC200L4**	194
60	4453	1.9	29.6	67764			**C1002_29.6 P200 IEC200L4**	194
60	4530	1.2	29.4	30220			**C902_29.4 P200 IEC200L4**	188
65	4182	1.2	27.2	32816			**C902_27.2 P200 IEC200L4**	188
71	3821	1.6	24.8	32909			**C902_24.8 P200 IEC200L4**	188
73	3709	2.7	24.1	60255			**C1002_24.1 P200 IEC200L4**	194
77	3527	1.6	22.9	33279			**C902_22.9 P200 IEC200L4**	188
79	3424	2.7	22.2	61367			**C1002_22.2 P200 IEC200L4**	194
79	3423	1.0	22.2	20094			**C802_22.2 P200 IEC200L4**	182
86	3160	1.0	20.5	20002			**C802_20.5 P200 IEC200L4**	182
87	3115	2.0	20.2	31333			**C902_20.2 P200 IEC200L4**	188
94	2875	2.0	18.7	33836			**C902_18.7 P200 IEC200L4**	188
98	2778	1.2	18.1	20742			**C802_18.1 P200 IEC200L4**	182
102	2664	2.3	17.3	27532			**C902_17.3 P200 IEC200L4**	188
106	2564	1.3	16.7	21113			**C802_16.7 P200 IEC200L4**	182
110	2459	2.3	16.0	28922			**C902_16.0 P200 IEC200L4**	188
118	2295	1.5	14.9	19076			**C802_14.9 P200 IEC200L4**	182
125	2169	0.9	14.1	10429			**C702_14.1 P200 IEC200L4**	176
127	2133	2.6	13.9	29201			**C902_13.9 P200 IEC200L4**	188
128	2118	1.5	13.8	19539			**C802_13.8 P200 IEC200L4**	182
135	2005	1.0	13.0	11124			**C702_13.0 P200 IEC200L4**	176
138	1968	2.8	12.8	28459			**C902_12.8 P200 IEC200L4**	188
146	1850	1.9	12.0	18983			**C802_12.0 P200 IEC200L4**	182
157	1725	1.2	11.2	28366			**C902_11.2 P200 IEC200L4**	188
159	1707	1.9	11.1	19539			**C802_11.1 P200 IEC200L4**	182
172	1571	1.2	10.2	11031			**C702_10.2 P200 IEC200L4**	176
183	1478	2.3	9.6	18613			**C802_9.6 P200 IEC200L4**	182
199	1364	2.4	8.9	19446			**C802_8.9 P200 IEC200L4**	182
220	1232	1.6	8.0	10753			**C702_8.0 P200 IEC200L4**	176
231	1174	2.7	7.6	18057			**C802_7.6 P200 IEC200L4**	182
236	1148	1.7	7.5	10197			**C702_7.5 P200 IEC200L4**	176
250	1083	2.9	7.0	17872			**C802_7.0 P200 IEC200L4**	182
281	963	1.9	6.3	10661			**C702_6.3 P200 IEC200L4**	176
301	900	2.0	5.9	10012			**C702_5.9 P200 IEC200L4**	176
385	704	2.2	4.6	10197			**C702_4.6 P200 IEC200L4**	176

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



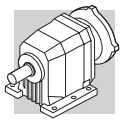
37 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
25.4	12881	0.9	69.4	54322			**C1003_69.4 P225 IEC225S4**	194
27.4	11961	1.0	64.5	52005			**C1003_64.5 P225 IEC225S4**	194
31	10641	1.1	57.4	51263			**C1003_57.4 P225 IEC225S4**	194
33	9880	1.2	53.3	49409			**C1003_53.3 P225 IEC225S4**	194
38	8576	1.4	46.2	52468			**C1003_46.2 P225 IEC225S4**	194
41	7964	1.4	42.9	50614			**C1003_42.9 P225 IEC225S4**	194
45	7311	0.9	39.4	27717			**C903_39.4 P225 IEC225S4**	188
48	6853	1.6	36.9	52839			**C1003_36.9 P225 IEC225S4**	194
51	6363	1.7	34.3	51078			**C1003_34.3 P225 IEC225S4**	194
60	5484	1.5	29.6	57474			**C1002_29.6 P225 IEC225S4**	194
60	5579	1.0	29.4	26698			**C902_29.4 P225 IEC225S4**	188
65	5150	1.0	27.2	26883			**C902_27.2 P225 IEC225S4**	188
71	4705	1.3	24.8	27347			**C902_24.8 P225 IEC225S4**	188
73	4568	2.2	24.1	51170			**C1002_24.1 P225 IEC225S4**	194
77	4344	1.3	22.9	27625			**C902_22.9 P225 IEC225S4**	188
79	4217	2.2	22.2	52097			**C1002_22.2 P225 IEC225S4**	194
87	3835	1.6	20.2	22526			**C902_20.2 P225 IEC225S4**	188
87	3833	2.6	20.2	46814			**C1002_20.2 P225 IEC225S4**	194
94	3540	1.6	18.7	27903			**C902_18.7 P225 IEC225S4**	188
95	3538	2.8	18.7	49687			**C1002_18.7 P225 IEC225S4**	194
98	3421	1.0	18.1	16946			**C802_18.1 P225 IEC225S4**	182
102	3281	1.8	17.3	22712			**C902_17.3 P225 IEC225S4**	188
106	3158	1.0	16.7	17131			**C802_16.7 P225 IEC225S4**	182
110	3029	1.9	16.0	23731			**C902_16.0 P225 IEC225S4**	188
118	2826	1.2	14.9	14816			**C802_14.9 P225 IEC225S4**	182
127	2626	2.1	13.9	27532			**C902_13.9 P225 IEC225S4**	188
128	2609	1.2	13.8	17409			**C802_13.8 P225 IEC225S4**	182
138	2424	2.3	12.8	26790			**C902_12.8 P225 IEC225S4**	188
147	2278	1.5	12.0	17409			**C802_12.0 P225 IEC225S4**	182
157	2128	2.5	11.2	26976			**C902_11.2 P225 IEC225S4**	188
159	2103	1.5	11.1	17964			**C802_11.1 P225 IEC225S4**	182
170	1964	2.6	10.4	26327			**C902_10.4 P225 IEC225S4**	188
184	1820	1.9	9.6	17409			**C802_9.6 P225 IEC225S4**	182
196	1710	2.8	9.0	26234			**C902_9.0 P225 IEC225S4**	188
199	1680	1.9	8.9	18150			**C802_8.9 P225 IEC225S4**	182
212	1578	3.0	8.3	25678			**C902_8.3 P225 IEC225S4**	188
231	1445	2.2	7.6	17131			**C802_7.6 P225 IEC225S4**	182
251	1334	2.3	7.0	16668			**C802_7.0 P225 IEC225S4**	182
289	1158	2.5	6.1	16668			**C802_6.1 P225 IEC225S4**	182
313	1069	2.7	5.6	16112			**C802_5.6 P225 IEC225S4**	182

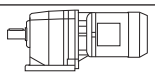
45 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
31	12907	0.9	57.4	49595			**C1003_57.4 P225 IEC225M4**	194
33	11985	1.0	53.3	49038			**C1003_53.3 P225 IEC225M4**	194
38	10403	1.1	46.2	45794			**C1003_46.2 P225 IEC225M4**	194
41	9660	1.2	42.9	44125			**C1003_42.9 P225 IEC225M4**	194
48	8313	1.3	36.9	45330			**C1003_36.9 P225 IEC225M4**	194
52	7719	1.4	34.3	43754			**C1003_34.3 P225 IEC225M4**	194
60	6652	1.3	29.6	49316			**C1002_29.6 P225 IEC225M4**	194
71	5708	1.1	24.8	24102			**C902_24.8 P225 IEC225M4**	188
73	5541	1.8	24.1	53859			**C1002_24.1 P225 IEC225M4**	194

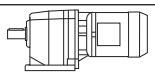
As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



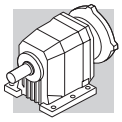
45 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
77	5269	1.1	22.9	24287			**C902_22.9 P225 IEC225M4**	188
80	5115	1.8	22.2	54878			**C1002_22.2 P225 IEC225M4**	194
87	4653	1.3	20.2	23360			**C902_20.2 P225 IEC225M4**	188
88	4649	2.2	20.2	49224			**C1002_20.2 P225 IEC225M4**	194
95	4295	1.3	18.7	25214			**C902_18.7 P225 IEC225M4**	188
95	4291	2.3	18.7	47277			**C1002_18.7 P225 IEC225M4**	194
102	3980	1.5	17.3	20579			**C902_17.3 P225 IEC225M4**	188
107	3789	2.5	16.5	41808			**C1002_16.5 P225 IEC225M4**	194
111	3674	1.6	16.0	21599			**C902_16.0 P225 IEC225M4**	188
116	3498	2.7	15.2	40417			**C1002_15.2 P225 IEC225M4**	194
119	3428	1.0	14.9	15094			**C802_14.9 P225 IEC225M4**	182
128	3186	1.8	13.9	25585			**C902_13.9 P225 IEC225M4**	188
129	3164	1.0	13.8	15464			**C802_13.8 P225 IEC225M4**	182
131	3102	2.8	13.5	39954			**C1002_13.5 P225 IEC225M4**	194
138	2941	1.9	12.8	24936			**C902_12.8 P225 IEC225M4**	188
147	2763	1.2	12.0	15742			**C802_12.0 P225 IEC225M4**	182
158	2581	2.0	11.2	25400			**C902_11.2 P225 IEC225M4**	188
160	2551	1.3	11.1	16205			**C802_11.1 P225 IEC225M4**	182
171	2382	2.2	10.4	24844			**C902_10.4 P225 IEC225M4**	188
184	2208	1.6	9.6	16020			**C802_9.6 P225 IEC225M4**	182
196	2074	2.3	9.0	24936			**C902_9.0 P225 IEC225M4**	188
200	2038	1.6	8.9	16668			**C802_8.9 P225 IEC225M4**	182
213	1914	2.5	8.3	24380			**C902_8.3 P225 IEC225M4**	188
232	1753	1.8	7.6	16020			**C802_7.6 P225 IEC225M4**	182
242	1683	2.7	7.3	24380			**C902_7.3 P225 IEC225M4**	188
251	1618	1.9	7.0	15557			**C802_7.0 P225 IEC225M4**	182
262	1554	2.8	6.8	23917			**C902_6.8 P225 IEC225M4**	188
290	1405	2.1	6.1	15279			**C802_6.1 P225 IEC225M4**	182
314	1297	2.2	5.6	15742			**C802_5.6 P225 IEC225M4**	182

55 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
38	12682	0.9	46.2	44774			**C1003_46.2 P250 IEC250M4**	194
41	11776	1.0	42.9	45052			**C1003_42.9 P250 IEC250M4**	194
48	10133	1.1	36.9	42086			**C1003_36.9 P250 IEC250M4**	194
52	9409	1.2	34.3	40695			**C1003_34.3 P250 IEC250M4**	194
60	8109	1.0	29.6	43291			**C1002_29.6 P250 IEC250M4**	194
73	6755	1.5	24.1	44033			**C1002_24.1 P250 IEC250M4**	194
80	6235	1.5	22.2	44867			**C1002_22.2 P250 IEC250M4**	194
87	5671	1.1	20.2	19096			**C902_20.2 P250 IEC250M4**	188
88	5667	1.8	20.2	40232			**C1002_20.2 P250 IEC250M4**	194
95	5235	1.1	18.7	20579			**C902_18.7 P250 IEC250M4**	188
95	5231	1.9	18.7	44218			**C1002_18.7 P250 IEC250M4**	194
102	4851	1.2	17.3	16779			**C902_17.3 P250 IEC250M4**	188
107	4619	2.0	16.5	39119			**C1002_16.5 P250 IEC250M4**	194
111	4478	1.3	16.0	17613			**C902_16.0 P250 IEC250M4**	188
116	4264	2.2	15.2	37822			**C1002_15.2 P250 IEC250M4**	194
128	3883	1.4	13.9	23082			**C902_13.9 P250 IEC250M4**	188
131	3781	2.3	13.5	43106			**C1002_13.5 P250 IEC250M4**	194
138	3585	1.5	12.8	22433			**C902_12.8 P250 IEC250M4**	188
142	3490	2.5	12.5	41344			**C1002_12.5 P250 IEC250M4**	194
158	3146	1.7	11.2	21970			**C902_11.2 P250 IEC250M4**	188

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



55 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
162	3064	2.7	10.9	42086			**C1002_10.9 P250 IEC250M4**	194
171	2904	1.8	10.4	21506			**C902_10.4 P250 IEC250M4**	188
175	2828	2.9	10.1	39305			**C1002_10.1 P250 IEC250M4**	194
196	2528	1.9	9.0	23360			**C902_9.0 P250 IEC250M4**	188
213	2333	2.0	8.3	22804			**C902_8.3 P250 IEC250M4**	188
242	2052	2.2	7.3	23082			**C902_7.3 P250 IEC250M4**	188
262	1894	2.3	6.8	22619			**C902_6.8 P250 IEC250M4**	188
316	1570	2.6	5.6	22433			**C902_5.6 P250 IEC250M4**	188
342	1450	2.7	5.2	22248			**C902_5.2 P250 IEC250M4**	188

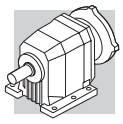
75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
74	9205	1.1	24.1	30962			**C1002_24.1 P280 IEC280S4**	194
80	8497	1.1	22.2	31611			**C1002_22.2 P280 IEC280S4**	194
88	7723	1.3	20.2	29849			**C1002_20.2 P280 IEC280S4**	194
95	7129	1.4	18.7	34670			**C1002_18.7 P280 IEC280S4**	194
108	6294	1.5	16.5	36246			**C1002_16.5 P280 IEC280S4**	194
117	5810	1.6	15.2	36895			**C1002_15.2 P280 IEC280S4**	194
132	5153	1.7	13.5	37173			**C1002_13.5 P280 IEC280S4**	194
143	4756	1.8	12.5	37636			**C1002_12.5 P280 IEC280S4**	194
162	4175	2.0	10.9	37729			**C1002_10.9 P280 IEC280S4**	194
176	3854	2.1	10.1	37822			**C1002_10.1 P280 IEC280S4**	194
196	3455	2.2	9.0	37914			**C1002_9.0 P280 IEC280S4**	194
213	3189	2.4	8.4	37636			**C1002_8.4 P280 IEC280S4**	194
251	2699	2.6	7.1	36802			**C1002_7.1 P280 IEC280S4**	194
272	2491	2.8	6.5	36431			**C1002_6.5 P280 IEC280S4**	194

90 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
74	11037	0.9	24.1	36060			**C1002_24.1 P280 IEC280M4**	194
88	9260	1.1	20.2	28366			**C1002_20.2 P280 IEC280M4**	194
95	8547	1.2	18.7	32909			**C1002_18.7 P280 IEC280M4**	194
108	7547	1.2	16.5	34392			**C1002_16.5 P280 IEC280M4**	194
117	6966	1.3	15.2	35041			**C1002_15.2 P280 IEC280M4**	194
132	6178	1.4	13.5	35319			**C1002_13.5 P280 IEC280M4**	194
143	5703	1.5	12.5	35690			**C1002_12.5 P280 IEC280M4**	194
162	5006	1.6	10.9	35782			**C1002_10.9 P280 IEC280M4**	194
176	4621	1.8	10.1	35875			**C1002_10.1 P280 IEC280M4**	194
196	4143	1.9	9.0	35690			**C1002_9.0 P280 IEC280M4**	194
213	3824	2.0	8.4	35597			**C1002_8.4 P280 IEC280M4**	194
251	3236	2.2	7.1	35041			**C1002_7.1 P280 IEC280M4**	194
272	2987	2.3	6.5	34855			**C1002_6.5 P280 IEC280M4**	194
333	2442	2.6	5.3	33928			**C1002_5.3 P280 IEC280M4**	194
361	2254	2.8	4.9	33650			**C1002_4.9 P280 IEC280M4**	194

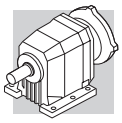
As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



26 TABELAS DE CLASSIFICAÇÃO DE REDUTORES

C 12 — 100 Nm

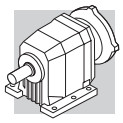
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 12 2_2.8	2.8	643	34	2.4	904	720	429	39	1.8	1040	830	
C 12 2_3.2	3.2	563	37	2.3	876	720	375	42	1.7	1008	830	
C 12 2_3.7	3.7	486	39	2.1	876	729	324	44	1.6	1008	841	
C 12 2_4.3	4.3	419	41	1.9	813	729	279	47	1.5	935	841	
C 12 2_4.9	4.9	367	44	1.8	803	729	245	50	1.4	924	841	
C 12 2_5.6	5.6	321	47	1.7	767	738	214	54	1.3	882	851	
C 12 2_6.2	6.2	290	49	1.6	740	756	194	56	1.2	851	872	
C 12 2_7.6	7.6	237	51	1.3	1187	1403	158	59	1.0	1300	1619	
C 12 2_8.8	8.8	205	54	1.2	1187	1476	136	62	0.93	1300	1703	
C 12 2_10.1	10.1	178	58	1.1	1187	1530	119	66	0.87	1300	1766	
C 12 2_11.9	11.9	151	62	1.0	1187	1603	101	70	0.78	1300	1850	
C 12 2_13.4	13.4	134	64	0.95	1187	1676	90	74	0.73	1300	1934	
C 12 2_15.4	15.4	117	67	0.86	1187	1758	78	77	0.66	1300	2000	126
C 12 2_17.2	17.2	105	70	0.81	1187	1822	70	80	0.61	1300	2000	
C 12 2_18.4	18.4	98	72	0.77	1187	1822	65	82	0.59	1300	2000	
C 12 2_20.6	20.6	87	75	0.73	1187	1822	58	86	0.55	1300	2000	
C 12 2_23.2	23.2	78	78	0.67	1187	1822	52	89	0.51	1300	2000	
C 12 2_25.4	25.4	71	81	0.63	1187	1822	47	89	0.46	1300	2000	
C 12 2_29.5	29.5	61	85	0.57	1187	1880	41	98	0.44	1300	2000	
C 12 2_32.8	32.8	55	83	0.50	1187	1970	37	90	0.36	1300	2000	
C 12 2_37.0	37.0	49	83	0.44	1187	2000	32	90	0.32	1300	2000	
C 12 2_42.3	42.3	43	92	0.43	1187	2000	28	100	0.31	1300	2000	
C 12 2_47.6	47.6	38	85	0.35	1187	2000	25	90	0.25	1300	2000	
C 12 2_55.2	55.2	33	89	0.32	1187	2000	22	90	0.22	1300	2000	
C 12 2_66.2	66.2	27	86	0.26	1187	2000	18.1	90	0.18	1300	2000	



C 22 — 200 Nm

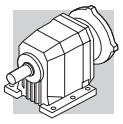
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 22 2_2.7	2.7	667	74	5.4	—	1334	444	84	4.1	—	1534	
C 22 2_3.3	3.3	545	78	4.7	—	1426	364	89	3.6	—	1640	
C 22 2_3.7	3.7	486	83	4.4	—	1472	324	95	3.4	—	1692	
C 22 2_4.3	4.3	419	86	4.0	—	1508	279	99	3.0	—	1734	
C 22 2_4.8	4.8	375	92	3.8	—	1581	250	105	2.9	—	1818	
C 22 2_5.6	5.6	321	94	3.3	—	1636	214	105	2.5	—	1881	
C 22 2_6.1	6.1	295	96	3.1	—	1737	197	110	2.4	—	1997	
C 22 2_7.1	7.1	254	119	3.3	1305	1819	169	137	2.5	1487	2091	
C 22 2_8.7	8.7	207	127	2.9	1314	1910	138	145	2.2	1497	2197	
C 22 2_9.6	9.6	188	133	2.8	1342	2011	125	153	2.1	1529	2312	
C 22 2_11.1	11.1	162	141	2.5	1277	2075	108	161	1.9	1455	2386	
C 22 2_12.4	12.4	145	147	2.4	1305	2175	97	168	1.8	1487	2501	
C 22 2_14.5	14.5	124	154	2.1	1250	2239	83	177	1.6	1424	2575	
C 22 2_15.8	15.8	114	161	2.0	1213	2349	76	184	1.5	1382	2701	
C 22 2_18.1	18.1	99	168	1.8	1149	2422	66	193	1.4	1309	2785	
C 22 2_20.0	20.0	90	175	1.7	1149	2532	60	200	1.3	1309	2911	
C 22 2_21.5	21.5	84	178	1.6	1094	2577	56	200	1.2	1246	2964	
C 22 2_24.3	24.3	74	184	1.5	1149	2715	49	200	1.1	1309	3121	
C 22 2_27.2	27.2	66	184	1.3	1231	2843	44	200	0.97	1403	3269	
C 22 2_29.6	29.6	61	184	1.2	1241	2989	41	200	0.89	1413	3437	
C 22 2_33.1	33.1	54	184	1.1	1277	3108	36	200	0.80	1455	3573	134
C 22 2_36.8	36.8	49	185	1.0	1287	3300	33	200	0.72	1466	3794	
C 22 2_43.3	43.3	42	185	0.85	1480	3610	27.7	190	0.58	1686	4151	
C 22 2_48.6	48.6	37	150	0.61	1599	4022	24.7	160	0.44	1822	4624	
C 22 2_54.7	54.7	33	150	0.54	1627	4204	21.9	160	0.39	1853	4835	
C 22 2_63.3	63.3	28.4	125	0.39	1673	4570	19.0	135	0.28	1906	5000	
C 22 3_60.0	60.0	30.0	180	0.61	1130	4113	20.0	190	0.43	1288	4730	
C 22 3_65.3	65.3	27.6	200	0.62	1167	4268	18.4	200	0.41	1300	4908	
C 22 3_74.8	74.8	24.1	200	0.54	1167	4387	16.0	200	0.36	1300	5000	
C 22 3_82.6	82.6	21.8	200	0.49	1195	4570	14.5	200	0.33	1300	5000	
C 22 3_88.5	88.5	20.3	200	0.46	1195	4570	13.6	200	0.31	1300	5000	
C 22 3_100.2	100.2	18.0	200	0.40	1195	4570	12.0	200	0.27	1300	5000	
C 22 3_112.0	112.0	16.1	200	0.36	1195	4570	10.7	200	0.24	1300	5000	
C 22 3_122.2	122.2	14.7	200	0.33	1195	4570	9.8	200	0.22	1300	5000	
C 22 3_136.5	136.5	13.2	200	0.30	1195	4700	8.8	200	0.20	1300	5000	
C 22 3_151.7	151.7	11.9	200	0.27	1220	4980	7.9	200	0.18	1300	5000	
C 22 3_178.5	178.5	10.1	200	0.23	1260	5000	6.7	200	0.15	1300	5000	
C 22 3_200.7	200.7	9.0	175	0.18	1280	5000	6.0	195	0.13	1300	5000	
C 22 3_225.8	225.8	8.0	170	0.15	1300	5000	5.3	195	0.12	1300	5000	
C 22 3_261.0	261.0	6.9	142	0.11	1300	5000	4.6	160	0.08	1300	5000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



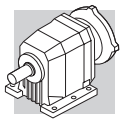
C 32 — 300 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 32 2_2.9	2.9	621	119	8.2	869	1990	414	137	6.2	982	2281	
C 32 2_3.4	3.4	529	127	7.4	832	2091	353	145	5.6	941	2396	
C 32 2_3.7	3.7	486	138	7.4	693	2118	324	155	5.5	784	2428	
C 32 2_4.5	4.5	400	140	6.2	896	2293	267	158	4.6	1014	2628	
C 32 2_5.0	5.0	360	142	5.7	1016	2384	240	162	4.3	1150	2733	
C 32 2_5.7	5.7	316	142	5.0	1155	2531	211	163	3.8	1306	2901	
C 32 2_6.3	6.3	286	150	4.7	1340	2650	190	163	3.4	1515	3037	
C 32 2_7.2	7.2	250	184	5.1	2033	2742	167	210	3.9	2200	3142	
C 32 2_8.5	8.5	212	192	4.5	2033	2916	141	220	3.4	2200	3342	
C 32 2_9.3	9.3	194	202	4.3	2033	2989	129	231	3.3	2200	3426	
C 32 2_11.2	11.2	161	212	3.8	2033	3191	107	243	2.9	2200	3657	
C 32 2_12.3	12.3	146	225	3.6	2033	3265	98	258	2.8	2200	3742	
C 32 2_14.1	14.1	128	231	3.2	2033	3439	85	264	2.5	2200	3941	
C 32 2_15.6	15.6	115	248	3.2	2033	3503	77	284	2.4	2200	4015	
C 32 2_18.2	18.2	99	253	2.8	2033	3732	66	289	2.1	2200	4278	
C 32 2_20.1	20.1	90	271	2.7	2033	3815	60	300	2.0	2200	4372	
C 32 2_22.9	22.9	79	271	2.3	2033	4035	52	300	1.7	2200	4624	
C 32 2_25.1	25.1	72	276	2.2	2033	4191	48	300	1.6	2200	4803	
C 32 2_26.9	26.9	67	276	2.0	2033	4310	45	300	1.5	2200	4940	
C 32 2_29.8	29.8	60	276	1.8	2033	4512	40	300	1.3	2200	5171	
C 32 2_33.1	33.1	54	276	1.7	2033	4723	36	300	1.2	2200	5413	142
C 32 2_36.1	36.1	50	280	1.5	2033	4906	33	300	1.1	2200	5500	
C 32 2_40.7	40.7	44	290	1.4	2033	5044	29.5	300	1.0	2200	5500	
C 32 2_45.3	45.3	40	300	1.3	2033	5044	26.5	300	0.88	2200	5500	
C 32 2_52.4	52.4	34	300	1.1	2033	5044	22.9	300	0.76	2200	5500	
C 32 2_59.4	59.4	30	205	0.68	2033	5500	20.2	220	0.49	2200	5500	
C 32 2_66.8	66.8	26.9	205	0.61	2033	5500	18.0	220	0.44	2200	5500	
C 32 3_74.7	74.7	24.1	280	0.76	1081	5500	16.1	290	0.52	1223	5500	
C 32 3_82.6	82.6	21.8	300	0.74	1146	5500	14.5	300	0.49	1296	5500	
C 32 3_94.2	94.2	19.1	300	0.65	1173	5500	12.7	300	0.43	1300	5500	
C 32 3_103.3	103.3	17.4	300	0.59	1201	5500	11.6	300	0.39	1300	5500	
C 32 3_110.6	110.6	16.3	300	0.55	1201	5500	10.8	300	0.37	1300	5500	
C 32 3_122.4	122.4	14.7	300	0.50	1201	5500	9.8	300	0.33	1300	5500	
C 32 3_136.0	136.0	13.2	300	0.45	1201	5500	8.8	300	0.30	1300	5500	
C 32 3_148.4	148.4	12.1	300	0.41	1201	5500	8.1	300	0.27	1300	5500	
C 32 3_167.4	167.4	10.8	300	0.36	1201	5500	7.2	300	0.24	1300	5500	
C 32 3_186.0	186.0	9.7	300	0.33	1201	5500	6.5	300	0.22	1300	5500	
C 32 3_215.6	215.6	8.3	300	0.28	1240	5500	5.6	300	0.19	1300	5500	
C 32 3_244.2	244.2	7.4	240	0.20	1280	5500	4.9	260	0.14	1300	5500	
C 32 3_274.7	274.7	6.6	240	0.18	1300	5500	4.4	260	0.13	1300	5500	



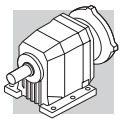
C 36 — 450 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 36 2_2.7	2.7	667	157	11.6	1057	2047	444	178	8.7	1204	2354	
C 36 2_3.2	3.2	563	164	10.2	1140	2175	375	185	7.7	1298	2501	
C 36 2_3.5	3.5	514	171	9.7	1213	2230	343	194	7.3	1382	2564	
C 36 2_4.2	4.2	429	178	8.4	1296	2395	286	200	6.3	1476	2754	
C 36 2_4.6	4.6	391	185	8.0	1351	2468	261	200	5.8	1539	2838	
C 36 2_5.3	5.3	340	185	6.9	1516	2623	226	200	5.0	1728	3016	
C 36 2_5.8	5.8	310	185	6.3	1829	2760	207	200	4.6	2084	3174	
C 36 2_6.8	6.8	265	329	9.6	2040	2477	176	372	7.2	2324	2848	
C 36 2_8.0	8.0	225	338	8.4	2068	2660	150	380	6.3	2356	3058	
C 36 2_8.8	8.8	205	352	7.9	2086	2742	136	380	5.7	2377	3153	
C 36 2_10.6	10.6	170	352	6.6	2132	3007	113	380	4.7	2429	3458	
C 36 2_11.7	11.7	154	352	6.0	2178	3162	103	380	4.3	2481	3636	
C 36 2_13.3	13.3	135	352	5.2	2206	3354	90	380	3.8	2513	3857	
C 36 2_14.8	14.8	122	360	4.8	2242	3555	81	380	3.4	2555	4088	
C 36 2_17.2	17.2	105	370	4.3	2261	3839	70	380	2.9	2576	4414	
C 36 2_19.0	19.0	95	380	4.0	2298	4022	63	380	2.6	2618	4624	
C 36 3_22.1	22.1	81	398	3.7	2665	4104	54	450	2.8	3000	4719	
C 36 3_26.2	26.2	69	407	3.2	2674	4396	46	450	2.3	3000	5055	
C 36 3_28.7	28.7	63	417	2.9	2693	4552	42	450	2.1	3000	5234	
C 36 3_34.6	34.6	52	417	2.4	2711	4954	35	450	1.8	3000	5696	
C 36 3_38.1	38.1	47	435	2.3	2729	5201	31	450	1.6	3000	5980	
C 36 3_43.5	43.5	41	440	2.1	2739	5530	27.6	450	1.4	3000	6359	
C 36 3_48.2	48.2	37	450	1.9	2748	5786	24.9	450	1.3	3000	6500	
C 36 3_56.2	56.2	32	450	1.6	2748	5941	21.4	450	1.1	3000	6500	
C 36 3_62.0	62.0	29.0	450	1.5	2757	5941	19.4	450	0.98	3000	6500	150
C 36 3_70.8	70.8	25.4	450	1.3	2757	5941	16.9	450	0.86	3000	6500	
C 36 3_77.6	77.6	23.2	450	1.2	2757	5941	15.5	450	0.78	3000	6500	
C 36 3_83.1	83.1	21.7	450	1.1	2757	5941	14.4	450	0.73	3000	6500	
C 36 3_91.9	91.9	19.6	450	0.99	2757	6200	13.1	450	0.66	3000	6500	
C 36 3_102.2	102.2	17.6	450	0.89	2757	6400	11.7	450	0.59	3000	6500	
C 36 3_111.5	111.5	16.1	450	0.82	2757	6500	10.8	450	0.55	3000	6500	
C 36 3_125.8	125.8	14.3	450	0.73	2757	6500	9.5	450	0.48	3000	6500	
C 36 3_139.8	139.8	12.9	450	0.65	2757	6500	8.6	450	0.43	3000	6500	
C 36 3_162.0	162.0	11.1	450	0.56	2757	6500	7.4	450	0.38	3000	6500	
C 36 3_183.5	183.5	9.8	450	0.50	2757	6500	6.5	450	0.33	3000	6500	
C 36 3_206.4	206.4	8.7	450	0.44	2757	6500	5.8	450	0.29	3000	6500	
C 36 4_230.9	230.9	7.8	450	0.41	1195	6500	5.2	450	0.27	1300	6500	
C 36 4_255.0	255.0	7.1	450	0.37	1195	6500	4.7	450	0.25	1300	6500	
C 36 4_290.9	290.9	6.2	450	0.32	1210	6500	4.1	450	0.22	1300	6500	
C 36 4_318.9	318.9	5.6	450	0.30	1230	6500	3.8	450	0.20	1300	6500	
C 36 4_341.7	341.7	5.3	450	0.28	1240	6500	3.5	450	0.18	1300	6500	
C 36 4_377.9	377.9	4.8	450	0.25	1260	6500	3.2	450	0.17	1300	6500	
C 36 4_420.2	420.2	4.3	450	0.22	1270	6500	2.9	450	0.15	1300	6500	
C 36 4_458.4	458.4	3.9	450	0.21	1280	6500	2.6	450	0.14	1300	6500	
C 36 4_517.2	517.2	3.5	450	0.18	1300	6500	2.3	450	0.12	1300	6500	
C 36 4_574.7	574.7	3.1	450	0.16	1300	6500	2.1	450	0.11	1300	6500	
C 36 4_665.9	665.9	2.7	450	0.14	1300	6500	1.8	450	0.09	1300	6500	
C 36 4_754.2	754.2	2.4	450	0.12	1300	6500	1.6	450	0.08	1300	6500	
C 36 4_848.5	848.5	2.1	450	0.11	1300	6500	1.4	450	0.07	1300	6500	



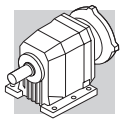
C 41 — 600 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 41 2_2.7	2.7	667	245	18.0	1279	1875	444	245	12.0	1461	2173	
C 41 2_3.6	3.6	500	255	14.1	1518	2175	333	255	9.4	1734	2521	
C 41 2_4.7	4.7	383	260	11.0	1849	2484	255	260	7.3	2113	2880	
C 41 2_6.0	6.0	300	260	8.6	2208	2830	200	260	5.7	2522	3281	
C 41 2_6.4	6.4	281	319	9.9	2631	2967	188	361	7.5	3006	3439	
C 41 2_7.1	7.1	254	329	9.2	2742	3112	169	371	6.9	3132	3608	
C 41 2_8.6	8.6	209	357	8.2	2668	3276	140	403	6.2	3048	3798	
C 41 2_9.6	9.6	188	361	7.5	2788	3458	125	408	5.6	3185	4009	
C 41 2_11.2	11.2	161	389	6.9	2677	3567	107	439	5.2	3058	4136	
C 41 2_12.4	12.4	145	394	6.3	2824	3767	97	445	4.7	3227	4368	
C 41 2_14.2	14.2	127	412	5.8	2742	3913	85	465	4.3	3132	4537	
C 41 2_15.8	15.8	114	417	5.2	2870	4131	76	471	3.9	3279	4790	
C 41 2_17.8	17.8	101	444	5.0	2806	4213	67	500	3.7	3206	4885	
C 41 2_19.8	19.8	91	449	4.5	2926	4450	61	500	3.3	3342	5159	
C 41 2_22.6	22.6	80	463	4.1	2861	4650	53	500	2.9	3269	5391	
C 41 2_25.0	25.0	72	463	3.7	2972	4932	48	500	2.6	3395	5718	
C 41 2_28.3	28.3	64	463	3.2	2926	5196	42	500	2.3	3342	6024	
C 41 2_31.4	31.4	57	463	2.9	3036	5496	38	500	2.1	3468	6372	
C 41 2_33.4	33.4	54	465	2.8	2962	5615	36	500	2.0	3384	6509	
C 41 2_37.1	37.1	49	470	2.5	3054	5933	32	500	1.8	3489	6879	
C 41 2_44.8	44.8	40	500	2.2	3220	6370	26.8	500	1.5	3500	7000	
C 41 3_28.5	28.5	63	519	3.7	3220	4932	42	586	2.8	3500	5718	
C 41 3_31.2	31.2	58	528	3.4	3220	5160	38	596	2.6	3500	5982	
C 41 3_36.8	36.8	49	556	3.1	3220	5424	33	600	2.2	3500	6288	
C 41 3_40.3	40.3	45	556	2.8	3220	5715	29.8	600	2.0	3500	6625	
C 41 3_47.0	47.0	38	556	2.4	3220	6115	25.5	600	1.7	3500	7000	
C 41 3_51.5	51.5	35	556	2.2	3220	6370	23.3	600	1.6	3500	7000	
C 41 3_58.7	58.7	31	556	1.9	3220	6370	20.4	600	1.4	3500	7000	158
C 41 3_64.3	64.3	28.0	560	1.8	3220	6370	18.7	600	1.3	3500	7000	
C 41 3_74.4	74.4	24.2	590	1.6	3220	6370	16.1	600	1.1	3500	7000	
C 41 3_81.5	81.5	22.1	600	1.5	3220	6370	14.7	600	0.99	3500	7000	
C 41 3_93.3	93.3	19.3	600	1.3	3220	6700	12.9	600	0.87	3500	7000	
C 41 3_102.3	102.3	17.6	600	1.2	3220	7000	11.7	600	0.79	3500	7000	
C 41 3_110.1	110.1	16.3	600	1.1	3220	7000	10.9	600	0.74	3500	7000	
C 41 3_120.6	120.6	14.9	600	1.0	3220	7000	10.0	600	0.67	3500	7000	
C 41 3_132.9	132.9	13.5	600	0.92	3220	7000	9.0	600	0.61	3500	7000	
C 41 3_145.6	145.6	12.4	600	0.84	3220	7000	8.2	600	0.56	3500	7000	
C 41 3_164.1	164.1	11.0	600	0.74	3220	7000	7.3	600	0.49	3500	7000	
C 41 3_179.9	179.9	10.0	600	0.68	3220	7000	6.7	600	0.45	3500	7000	
C 41 3_190.8	190.8	9.4	600	0.64	3220	7000	6.3	600	0.42	3500	7000	
C 41 3_209.1	209.1	8.6	600	0.58	3220	7000	5.7	600	0.39	3500	7000	
C 41 4_239.9	239.9	7.5	600	0.52	1757	7000	5.0	600	0.35	2007	7000	
C 41 4_263.0	263.0	6.8	600	0.48	1766	7000	4.6	600	0.32	2018	7000	
C 41 4_304.2	304.2	5.9	600	0.41	1794	7000	3.9	600	0.28	2049	7000	
C 41 4_333.4	333.4	5.4	600	0.38	1803	7000	3.6	600	0.25	2060	7000	
C 41 4_381.8	381.8	4.7	600	0.33	1812	7000	3.1	600	0.22	2070	7000	
C 41 4_418.5	418.5	4.3	600	0.30	1822	7000	2.9	600	0.20	2081	7000	
C 41 4_450.2	450.2	4.0	600	0.28	1831	7000	2.7	600	0.19	2091	7000	
C 41 4_493.5	493.5	3.6	600	0.25	1840	7000	2.4	600	0.17	2102	7000	
C 41 4_543.5	543.5	3.3	600	0.23	1840	7000	2.2	600	0.15	2102	7000	
C 41 4_595.8	595.8	3.0	600	0.21	1849	7000	2.0	600	0.14	2113	7000	
C 41 4_671.3	671.3	2.7	600	0.19	1858	7000	1.8	600	0.12	2123	7000	
C 41 4_735.9	735.9	2.4	600	0.17	1858	7000	1.6	600	0.11	2123	7000	
C 41 4_780.4	780.4	2.3	600	0.16	1868	7000	1.5	600	0.11	2134	7000	
C 41 4_855.5	855.5	2.1	600	0.15	1868	7000	1.4	600	0.10	2134	7000	



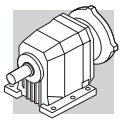
C 51 — 1000 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 51 2_2.6	2.6	692	367	28	1229	3830	462	400	20	1462	4431	
C 51 2_3.3	3.3	545	385	23	1459	4177	364	420	16.8	1736	4832	
C 51 2_4.5	4.5	400	399	17.6	1777	4724	267	435	12.8	2115	5465	
C 51 2_5.6	5.6	321	399	14.1	2122	5253	214	435	10.3	2525	6077	
C 51 2_7.0	7.0	257	578	16.4	2528	5472	171	661	12.5	3009	6330	
C 51 2_7.8	7.8	231	587	14.9	2634	5682	154	671	11.4	3135	6573	
C 51 2_8.8	8.8	205	628	14.2	2564	5882	136	719	10.8	3051	6805	
C 51 2_9.8	9.8	184	628	12.7	2679	6156	122	719	9.7	3188	7121	
C 51 2_11.8	11.8	153	706	11.9	2572	6457	102	800	9.0	3061	7469	
C 51 2_13.1	13.1	137	688	10.4	2714	6813	92	800	8.1	3230	7881	
C 51 2_15.0	15.0	120	734	9.7	2634	7086	80	800	7.1	3135	8197	
C 51 2_16.6	16.6	108	729	8.7	2758	7415	72	800	6.4	3282	8577	
C 51 2_18.9	18.9	95	734	7.7	2696	7861	63	800	5.6	3209	9094	
C 51 2_21.0	21.0	86	729	6.9	2811	8226	57	800	5.0	3345	9516	
C 51 2_23.4	23.4	77	735	6.2	2749	8628	51	800	4.5	3272	9980	
C 51 2_25.9	25.9	69	729	5.6	2855	9020	46	800	4.1	3398	10000	
C 51 2_29.8	29.8	60	795	5.3	2811	9120	40	800	3.6	3345	10000	
C 51 2_33.0	33.0	55	775	4.7	2917	9120	36	800	3.2	3472	10000	
C 51 2_36.4	36.4	49	750	4.1	2846	9120	33	800	2.9	3387	10000	
C 51 2_40.4	40.4	45	795	3.9	2935	9120	30	800	2.6	3493	10000	
C 51 2_43.1	43.1	42	730	3.4	2900	9380	28	800	2.5	3451	10000	
C 51 2_47.8	47.8	38	800	3.3	2961	9530	25	800	2.2	3500	10000	
C 51 2_51.4	51.4	35	665	2.6	2997	10000	23	725	1.9	3500	10000	
C 51 2_57.0	57.0	32	745	2.6	2988	10000	21	795	1.8	3500	10000	
C 51 3_21.8	21.8	83	830	7.7	3094	7980	55	949	5.9	3500	9231	
C 51 3_23.9	23.9	75	844	7.2	3094	8308	50	965	5.5	3500	9611	
C 51 3_27.4	27.4	66	889	6.6	3094	8637	44	1000	4.9	3500	9991	
C 51 3_30.1	30.1	60	917	6.2	3094	8947	40	1000	4.5	3500	10000	
C 51 3_37.0	37.0	49	917	5.0	3094	9120	32	1000	3.7	3500	10000	
C 51 3_40.5	40.5	44	917	4.6	3094	9120	29.6	1000	3.3	3500	10000	166
C 51 3_46.7	46.7	39	917	4.0	3094	9120	25.7	1000	2.9	3500	10000	
C 51 3_51.2	51.2	35	920	3.6	3094	9390	23.4	1000	2.6	3500	10000	
C 51 3_59.0	59.0	31	970	3.3	3094	9780	20.3	1000	2.3	3500	10000	
C 51 3_64.6	64.6	27.9	1000	3.1	3094	10000	18.6	1000	2.1	3500	10000	
C 51 3_72.9	72.9	24.7	1000	2.8	3094	10000	16.5	1000	1.9	3500	10000	
C 51 3_79.9	79.9	22.5	1000	2.5	3094	10000	15.0	1000	1.7	3500	10000	
C 51 3_93.0	93.0	19.4	1000	2.2	3094	10000	12.9	1000	1.5	3500	10000	
C 51 3_101.8	101.8	17.7	1000	2.0	3094	10000	11.8	1000	1.3	3500	10000	
C 51 3_113.6	113.6	15.8	1000	1.8	3094	10000	10.6	1000	1.2	3500	10000	
C 51 3_124.4	124.4	14.5	1000	1.6	3094	10000	9.6	1000	1.1	3500	10000	
C 51 3_134.6	134.6	13.4	1000	1.5	3094	10000	8.9	1000	1.0	3500	10000	
C 51 3_147.4	147.4	12.2	1000	1.4	3094	10000	8.1	1000	0.92	3500	10000	
C 51 3_160.5	160.5	11.2	1000	1.3	3094	10000	7.5	1000	0.84	3500	10000	
C 51 3_175.8	175.8	10.2	1000	1.2	3094	10000	6.8	1000	0.77	3500	10000	
C 51 3_197.9	197.9	9.1	1000	1.0	3094	10000	6.1	1000	0.68	3500	10000	
C 51 3_216.7	216.7	8.3	1000	0.94	3094	10000	5.5	1000	0.62	3500	10000	
C 51 4_240.9	240.9	7.5	1000	0.87	1945	10000	5.0	1000	0.58	2200	10000	
C 51 4_263.8	263.8	6.8	1000	0.79	1945	10000	4.5	1000	0.53	2200	10000	
C 51 4_297.8	297.8	6.0	1000	0.70	1945	10000	4.0	1000	0.47	2200	10000	
C 51 4_326.1	326.1	5.5	1000	0.64	1945	10000	3.7	1000	0.43	2200	10000	
C 51 4_379.6	379.6	4.7	1000	0.55	1945	10000	3.2	1000	0.37	2200	10000	
C 51 4_415.7	415.7	4.3	1000	0.50	2200	10000	2.9	1000	0.34	2200	10000	
C 51 4_463.9	463.9	3.9	1000	0.45	2200	10000	2.6	1000	0.30	2200	10000	
C 51 4_508.0	508.0	3.5	1000	0.41	2200	10000	2.4	1000	0.27	2200	10000	
C 51 4_549.7	549.7	3.3	1000	0.38	2200	10000	2.2	1000	0.25	2200	10000	
C 51 4_602.0	602.0	3.0	1000	0.35	2200	10000	2.0	1000	0.23	2200	10000	
C 51 4_655.4	655.4	2.7	1000	0.32	2200	10000	1.8	1000	0.21	2200	10000	
C 51 4_717.7	717.7	2.5	1000	0.29	2200	10000	1.7	1000	0.19	2200	10000	
C 51 4_808.0	808.0	2.2	1000	0.26	2200	10000	1.5	1000	0.17	2200	10000	
C 51 4_884.9	884.9	2	1000	0.24	2200	10000	1.4	1000	0.16	2200	10000	



C 61 — 1600 Nm

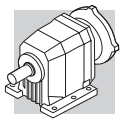
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 61 2_2.8	2.8	643	510	36	652	5420	429	576	27	810	6256	
C 61 2_3.7	3.7	486	533	29	1465	6032	324	602	22	1820	6963	
C 61 2_4.6	4.6	391	575	25	1821	6517	261	628	18.1	2262	7522	
C 61 2_6.0	6.0	300	579	19.2	2287	7266	200	654	14.4	2840	8387	
C 61 2_6.7	6.7	269	1048	31.0	2414	6453	179	1183	23.4	2998	7448	
C 61 2_7.5	7.5	240	1159	30.7	2456	6499	160	1309	23.1	3051	7501	
C 61 2_8.8	8.8	205	1159	26.1	2524	7029	136	1309	19.7	3135	8113	
C 61 2_9.8	9.8	184	1251	25.3	2821	7175	122	1350	18.2	3503	8282	
C 61 2_10.9	10.9	165	1251	22.8	2530	7504	110	1350	16.4	3093	8662	
C 61 2_12.1	12.1	149	1251	20.5	3049	7979	99	1350	14.8	3787	9210	
C 61 2_14.3	14.3	126	1251	17.4	3041	8619	84	1350	12.5	3777	9949	
C 61 2_15.9	15.9	113	1251	15.6	3202	9131	75	1350	11.2	3977	10539	
C 61 2_17.7	17.7	102	1251	14.0	3134	9506	68	1350	10.1	3892	10972	
C 61 2_19.6	19.6	92	1300	13.2	3295	10054	61	1350	9.1	4092	11605	
C 61 2_22.4	22.4	80	1251	11.1	3227	10602	54	1350	8.0	4008	12238	
C 61 2_24.8	24.8	73	1350	10.8	3371	11242	48	1350	7.2	4187	12977	
C 61 2_27.4	27.4	66	1300	9.4	3286	11699	44	1350	6.5	4082	13504	
C 61 2_30.4	30.4	59	1350	8.8	3430	12339	39	1350	5.9	4261	14243	
C 61 2_34.2	34.2	53	1165	6.8	3464	13253	35	1283	5.0	4303	15298	
C 61 2_38.0	38.0	47	1280	6.7	3473	13527	32	1350	4.7	4313	15614	
C 61 3_26.8	26.8	67	1330	10.1	3981	11334	45	1502	7.6	4700	13082	
C 61 3_29.4	29.4	61	1358	9.4	3981	11791	41	1534	7.0	4700	13610	
C 61 3_33.0	33.0	55	1414	8.7	3981	12156	36	1597	6.5	4700	14032	
C 61 3_36.1	36.1	50	1441	8.1	3981	12613	33	1600	6.0	4700	14559	
C 61 3_43.4	43.4	41	1483	6.9	3981	13527	27.6	1600	5.0	4700	15614	
C 61 3_47.6	47.6	38	1483	6.3	3981	14167	25.2	1600	4.5	4700	16000	
C 61 3_53.5	53.5	34	1483	5.6	3981	14624	22.4	1600	4.0	4700	16000	
C 61 3_58.6	58.6	31	1483	5.1	3981	14624	20.5	1600	3.7	4700	16000	180
C 61 3_67.7	67.7	26.6	1483	4.4	3981	14624	17.7	1600	3.2	4700	16000	
C 61 3_74.2	74.2	24.3	1535	4.2	3981	14624	16.2	1600	2.9	4700	16000	
C 61 3_83.0	83.0	21.7	1600	3.9	3981	14624	14.5	1600	2.6	4700	16000	
C 61 3_91.0	91.0	19.8	1600	3.6	3981	15200	13.2	1600	2.4	4700	16000	
C 61 3_103.6	103.6	17.4	1600	3.1	3981	16000	11.6	1600	2.1	4700	16000	
C 61 3_113.6	113.6	15.8	1600	2.9	3981	16000	10.6	1600	1.9	4700	16000	
C 61 3_128.1	128.1	14.1	1600	2.5	3981	16000	9.4	1600	1.7	4700	16000	
C 61 3_140.5	140.5	12.8	1600	2.3	3981	16000	8.5	1600	1.5	4700	16000	
C 61 3_150.0	150.0	12.0	1600	2.2	3981	16000	8.0	1600	1.4	4700	16000	
C 61 3_164.5	164.5	10.9	1600	2.0	3981	16000	7.3	1600	1.3	4700	16000	
C 61 3_178.6	178.6	10.1	1600	1.8	3981	16000	6.7	1600	1.2	4700	16000	
C 61 3_195.8	195.8	9.2	1600	1.7	3981	16000	6.1	1600	1.1	4700	16000	
C 61 4_217.4	217.4	8.3	1600	1.5	2965	16000	5.5	1600	1.0	3500	16000	
C 61 4_238.3	238.3	7.6	1600	1.4	2965	16000	5.0	1600	0.94	3500	16000	
C 61 4_275.3	275.3	6.5	1600	1.2	2965	16000	4.4	1600	0.81	3500	16000	
C 61 4_301.7	301.7	6.0	1600	1.1	2965	16000	4.0	1600	0.74	3500	16000	
C 61 4_337.7	337.7	5.3	1600	**0.99**	2965	16000	3.6	1600	0.66	3500	16000	
C 61 4_370.1	370.1	4.9	1600	0.91	2965	16000	3.2	1600	0.60	3500	16000	
C 61 4_421.5	421.5	4.3	1600	0.80	2965	16000	2.8	1600	0.53	3500	16000	
C 61 4_462.0	462.0	3.9	1600	0.73	2965	16000	2.6	1600	0.48	3500	16000	
C 61 4_521.1	521.1	3.5	1600	0.64	2965	16000	2.3	1600	0.43	3500	16000	
C 61 4_571.2	571.2	3.2	1600	0.59	2965	16000	2.1	1600	0.39	3500	16000	
C 61 4_610.1	610.1	3.0	1600	0.55	2965	16000	2.0	1600	0.37	3500	16000	
C 61 4_668.8	668.8	2.7	1600	0.50	2965	16000	1.8	1600	0.33	3500	16000	
C 61 4_726.3	726.3	2.5	1600	0.46	2965	16000	1.7	1600	0.31	3500	16000	
C 61 4_796.1	796.1	2.3	1600	0.42	2965	16000	1.5	1600	0.28	3500	16000	



C 70 — 2300 Nm

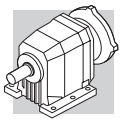
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 70 2_4.6	4.6	391	1574	68	—	6582	261	1780	51	—	7441	
C 70 2_5.9	5.9	305	1759	59	—	6480	203	1950	44	—	7326	
C 70 2_6.3	6.3	286	1806	57	2030	7648	190	2042	43	2846	8646	
C 70 2_7.5	7.5	240	1806	48	—	7787	160	2042	36	—	8803	
C 70 2_8.0	8.0	225	1945	48	2061	8232	150	2199	36	2889	9306	
C 70 2_9.5	9.5	189	1852	39	—	9187	126	2094	29	671	10386	
C 70 2_10.2	10.2	176	1945	38	3451	10012	118	2199	29	4837	11318	
C 70 2_11.2	11.2	161	1852	33	826	10475	107	2094	25	1158	11842	
C 70 2_13.0	13.0	138	2050	31	4323	11958	92	2100	21	6059	13519	
C 70 2_14.1	14.1	128	1945	27	1100	11495	85	2150	20	1385	12995	
C 70 2_15.3	15.3	118	2100	27.2	4524	13256	78	2100	18.2	6341	14986	
C 70 2_16.7	16.7	108	1898	22.6	1814	13256	72	2050	16.2	2543	14986	
C 70 2_19.3	19.3	93	2100	21.6	4632	15110	62	2100	14.4	6492	17082	
C 70 2_22.9	22.9	79	2100	18.2	4678	16686	52	2100	12.1	6557	18864	
C 70 2_27.7	27.7	65	2100	15.0	4725	18447	43	2100	10.0	6622	20855	
C 70 2_34.7	34.7	52	2100	12.0	4771	20579	35	2100	8.0	6687	23266	
C 70 3_41.3	41.3	44	2130	10.5	5404	21136	29.1	2300	7.5	7000	23894	
C 70 3_44.7	44.7	40	2130	9.7	5404	22063	26.8	2300	7.0	7000	24942	
C 70 3_52.2	52.2	34	2130	8.3	5404	23175	23.0	2300	6.0	7000	25000	
C 70 3_56.5	56.5	32	2130	7.6	5404	23175	21.2	2300	5.5	7000	25000	
C 70 3_65.9	65.9	27.3	2200	6.8	5404	23175	18.2	2300	4.7	7000	25000	
C 70 3_71.3	71.3	25.2	2200	6.3	5404	23175	16.8	2300	4.4	7000	25000	
C 70 3_81.4	81.4	22.1	2300	5.7	5404	23175	14.7	2300	3.8	7000	25000	
C 70 3_88.2	88.2	20.4	2300	5.3	5404	23600	13.6	2300	3.5	7000	25000	
C 70 3_103.8	103.8	17.3	2300	4.5	5404	25000	11.6	2300	3.0	7000	25000	
C 70 3_112.4	112.4	16.0	2300	4.1	5404	25000	10.7	2300	2.8	7000	25000	180
C 70 3_126.8	126.8	14.2	2300	3.7	5404	25000	9.5	2300	2.5	7000	25000	
C 70 3_137.4	137.4	13.1	2300	3.4	5404	25000	8.7	2300	2.3	7000	25000	
C 70 3_150.3	150.3	12.0	2300	3.1	5404	25000	8.0	2300	2.1	7000	25000	
C 70 3_162.8	162.8	11.1	2300	2.9	5404	25000	7.4	2300	1.9	7000	25000	
C 70 3_179.2	179.2	10.0	2300	2.6	5404	25000	6.7	2300	1.7	7000	25000	
C 70 3_194.1	194.1	9.3	2300	2.4	5404	25000	6.2	2300	1.6	7000	25000	
C 70 3_220.9	220.9	8.1	2250	2.1	5404	25000	5.4	2300	1.4	7000	25000	
C 70 3_239.3	239.3	7.5	2300	1.9	5404	25000	5.0	2300	1.3	7000	25000	
C 70 4_251.3	251.3	7.2	2300	1.9	2023	25000	4.8	2300	1.3	2835	25000	
C 70 4_272.2	272.2	6.6	2300	1.8	2046	25000	4.4	2300	1.2	2867	25000	
C 70 4_317.9	317.9	5.7	2300	1.5	2046	25000	3.8	2300	1.0	2867	25000	
C 70 4_344.3	344.3	5.2	2300	1.4	2061	25000	3.5	2300	0.93	2889	25000	
C 70 4_409.4	409.4	4.4	2300	1.2	2061	25000	2.9	2300	0.78	2889	25000	
C 70 4_443.5	443.5	4.1	2300	1.1	2084	25000	2.7	2300	0.72	2921	25000	
C 70 4_512.0	512.0	3.5	2300	0.94	2070	25000	2.3	2300	0.63	2900	25000	
C 70 4_554.7	554.7	3.2	2300	0.87	2092	25000	2.2	2300	0.58	2932	25000	
C 70 4_606.8	606.8	3.0	2300	0.79	2084	25000	2.0	2300	0.53	2921	25000	
C 70 4_657.3	657.3	2.7	2300	0.73	2100	25000	1.8	2300	0.49	2943	25000	
C 70 4_736.0	736.0	2.4	2300	0.65	2090	25000	1.6	2300	0.44	2921	25000	
C 70 4_797.3	797.3	2.3	2300	0.60	2110	25000	1.5	2300	0.40	2943	25000	
C 70 4_922.6	922.6	2.0	2300	0.52	2100	25000	1.3	2300	0.35	2932	25000	
C 70 4_999.5	999.5	1.8	2300	0.48	2110	25000	1.2	2300	0.32	2954	25000	
C 70 4_1069	1069	1.7	2300	0.45	2100	25000	1.1	2300	0.30	2943	25000	
C 70 4_1158	1158	1.6	2300	0.42	2162	25000	1.0	2300	0.28	3030	25000	
C 70 4_1362	1362	1.3	2300	0.35	2162	25000	0.88	2300	0.24	3030	25000	
C 70 4_1476	1476	1.2	2300	0.33	2162	25000	0.81	2300	0.22	3030	25000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



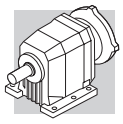
C 80 — 4000 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 80 2_5.6	5.6	321	2874	102	489	11390	214	3246	77	730	12878	
C 80 2_6.1	6.1	295	2920	95	978	11760	197	3298	72	1460	13297	
C 80 2_7.0	7.0	257	3105	88	645	11945	171	3500	66	963	13506	
C 80 2_7.6	7.6	237	3152	82	1134	12316	158	3560	62	1693	13925	
C 80 2_8.9	8.9	202	3245	72	794	13427	135	3500	52	1185	15182	
C 80 2_9.6	9.6	188	3430	71	978	12871	125	3700	51	1460	14553	
C 80 2_11.1	11.1	162	3245	58	1383	15835	108	3500	42	2063	17904	
C 80 2_12.0	12.0	150	3430	57	1553	15372	100	3700	41	2317	17380	
C 80 2_13.8	13.8	130	3245	47	1652	18335	87	3500	34	2465	20731	
C 80 2_14.9	14.9	121	3430	46	1815	17872	81	3700	33	2708	20207	
C 80 2_16.7	16.7	108	3245	39	2014	20650	72	3500	28	3005	23348	
C 80 2_18.1	18.1	99	3430	38	2170	20372	66	3700	27	3237	23034	
C 80 2_20.5	20.5	88	3291	32	2170	22965	59	3550	23	3237	25966	
C 80 2_22.2	22.2	81	3430	31	2411	23057	54	3700	22	3597	26070	
C 80 2_24.0	24.0	75	3291	27	2255	25002	50	3550	19.6	3364	28269	
C 80 2_25.9	25.9	69	3430	26	2489	25187	46	3700	18.9	3714	28478	
C 80 2_31.3	31.3	58	3430	22	2645	27780	38	3700	15.6	3946	31410	
C 80 2_39.1	39.1	46	2966	15.1	3820	32410	31	3200	10.8	5353	35000	
C 80 3_43.5	43.5	41	3523	16.4	5610	32225	27.6	3979	12.4	7000	35000	
C 80 3_47.4	47.4	38	3523	15.1	5660	32410	25.3	3979	11.3	7000	35000	
C 80 3_57.3	57.3	31	3708	13.1	5620	32410	20.9	4000	9.4	7000	35000	
C 80 3_62.5	62.5	28.8	3708	12.0	5670	32410	19.2	4000	8.6	7000	35000	
C 80 3_70.5	70.5	25.5	3708	10.7	5620	32410	17.0	4000	7.7	7000	35000	
C 80 3_76.9	76.9	23.4	3708	9.8	5670	32410	15.6	4000	7.0	7000	35000	
C 80 3_89.3	89.3	20.2	3900	8.9	5620	32410	13.4	4000	6.1	7000	35000	
C 80 3_97.4	97.4	18.5	3900	8.1	5670	35000	12.3	4000	5.5	7000	35000	
C 80 3_109.5	109.5	16.4	4000	7.4	5630	35000	11.0	4000	4.9	7000	35000	180
C 80 3_119.5	119.5	15.1	4000	6.8	5680	35000	10.0	4000	4.5	7000	35000	
C 80 3_136.7	136.7	13.2	4000	5.9	5660	35000	8.8	4000	4.0	7000	35000	
C 80 3_149.1	149.1	12.1	4000	5.4	5700	35000	8.0	4000	3.6	7000	35000	
C 80 3_169.0	169.0	10.7	4000	4.8	5680	35000	7.1	4000	3.2	7000	35000	
C 80 3_184.4	184.4	9.8	4000	4.4	5720	35000	6.5	4000	2.9	7000	35000	
C 80 3_197.9	197.9	9.1	4000	4.1	5710	35000	6.1	4000	2.7	7000	35000	
C 80 3_215.8	215.8	8.3	4000	3.8	5730	35000	5.6	4000	2.5	7000	35000	
C 80 4_261.9	261.9	6.9	4000	3.2	1850	35000	4.6	4000	2.1	2613	35000	
C 80 4_285.7	285.7	6.3	4000	2.9	1890	35000	4.2	4000	2.0	2656	35000	
C 80 4_334.3	334.3	5.4	4000	2.5	1880	35000	3.6	4000	1.7	2645	35000	
C 80 4_364.7	364.7	4.9	4000	2.3	1920	35000	3.3	4000	1.5	2687	35000	
C 80 4_417.5	417.5	4.3	4000	2.0	1910	35000	2.9	4000	1.3	2677	35000	
C 80 4_455.4	455.4	4.0	4000	1.8	1950	35000	2.6	4000	1.2	2719	35000	
C 80 4_529.3	529.3	3.4	4000	1.6	1940	35000	2.3	4000	1.1	2698	35000	
C 80 4_577.4	577.4	3.1	4000	1.5	1970	35000	2.1	4000	0.97	2740	35000	
C 80 4_664.3	664.3	2.7	4000	1.3	1960	35000	1.8	4000	0.84	2719	35000	
C 80 4_724.7	724.7	2.5	4000	1.2	1990	35000	1.7	4000	0.77	2761	35000	
C 80 4_783.4	783.4	2.3	4000	1.1	1970	35000	1.5	4000	0.71	2740	35000	
C 80 4_854.6	854.6	2.1	4000	0.98	2000	35000	1.4	4000	0.65	2772	35000	
C 80 4_945.7	945.7	1.9	4000	0.89	1980	35000	1.3	4000	0.59	2751	35000	
C 80 4_1032	1032	1.7	4000	0.81	2010	35000	1.2	4000	0.54	2783	35000	
C 80 4_1168	1168	1.5	4000	0.72	1980	35000	1.0	4000	0.48	2751	35000	
C 80 4_1274	1274	1.4	4000	0.66	2020	35000	0.94	4000	0.44	2793	35000	
C 80 4_1358	1358	1.3	4000	0.62	1990	35000	0.88	4000	0.41	2761	35000	
C 80 4_1481	1481	1.2	4000	0.57	2030	35000	0.81	4000	0.38	2793	35000	



C 90 — 7200 Nm

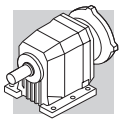
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 90 2_5.2	5.2	346	3986	152	1700	14647	231	4502	115	2348	16558	
C 90 2_5.6	5.6	321	4079	145	3281	14832	214	4607	109	4599	16768	
C 90 2_6.8	6.8	265	4403	128	1860	15203	176	4973	97	2310	17187	
C 90 2_7.3	7.3	247	4496	122	3470	15481	164	5078	92	4718	17502	
C 90 2_8.3	8.3	217	4728	113	2010	15852	145	5340	85	2700	17921	
C 90 2_9.0	9.0	200	4820	106	3660	16223	133	5444	80	5107	18340	
C 90 2_10.4	10.4	173	5145	98	990	16130	115	5811	74	1244	18235	
C 90 2_11.2	11.2	161	5238	93	2750	16501	107	5916	70	3744	18654	
C 90 2_12.8	12.8	141	5516	86	648	16871	94	6230	64	909	19074	
C 90 2_13.9	13.9	129	5608	80	2700	17335	86	6334	60	3484	19598	
C 90 2_16.0	16.0	113	5747	71	733	19282	75	6200	51	1028	21798	
C 90 2_17.3	17.3	104	6026	69	1698	18355	69	6550	50	2380	20750	
C 90 2_18.7	18.7	96	5747	61	1158	22526	64	6200	44	1623	25466	
C 90 2_20.2	20.2	89	6118	60	1668	20858	59	6600	43	2337	23580	
C 90 2_22.9	22.9	79	5747	50	2110	25585	52	6200	36	2921	28925	
C 90 2_24.8	24.8	73	6118	49	2578	25307	48	6600	35	3614	28610	
C 90 2_27.2	27.2	66	5099	37	6160	29849	44	5500	27	8461	33746	
C 90 2_29.4	29.4	61	5469	37	6560	29664	41	5900	27	8797	33536	
C 90 2_35.1	35.1	51	5006	28	8569	33650	34	5400	20	12010	38042	
C 90 3_39.4	39.4	46	6582	34	10800	30498	30	7200	25	14823	34479	
C 90 3_43.0	43.0	42	6674	31	10800	31518	27.9	7200	23	14932	35632	
C 90 3_50.3	50.3	36	6800	27	10800	34299	23.9	7200	19.3	14932	38776	
C 90 3_54.9	54.9	33	7000	26	10900	35504	21.9	7200	17.7	15000	40138	
C 90 3_59.2	59.2	30	7100	24	10800	37080	20.3	7200	16.4	15000	41920	
C 90 3_64.6	64.6	27.9	7200	23	10900	38285	18.6	7200	15.1	15000	43282	
C 90 3_74.4	74.4	24.2	7100	19.3	10900	41159	16.1	7200	13.1	15000	46531	
C 90 3_81.2	81.2	22.2	7200	18.0	10900	42549	14.8	7200	12.0	15000	48103	192
C 90 3_88.2	88.2	20.4	7100	16.3	11000	44403	13.6	7200	11.0	15000	50199	
C 90 3_96.2	96.2	18.7	7200	15.2	11000	45794	12.5	7200	10.1	15000	51771	
C 90 3_107.0	107.0	16.8	7100	13.4	11000	48297	11.2	7200	9.1	15000	54601	
C 90 3_116.7	116.7	15.4	7200	12.5	11000	49780	10.3	7200	8.3	15000	56278	
C 90 3_134.1	134.1	13.4	7100	10.7	11000	53117	8.9	7200	7.3	15000	60000	
C 90 3_146.3	146.3	12.3	7200	10.0	11000	54693	8.2	7200	6.7	15000	60000	
C 90 3_157.8	157.8	11.4	7100	9.1	11000	55620	7.6	7200	6.2	15000	60000	
C 90 3_172.1	172.1	10.5	7200	8.5	11000	55620	7.0	7200	5.7	15000	60000	
C 90 4_212.4	212.4	8.5	7200	7.1	911	60000	5.6	7200	4.7	1277	60000	
C 90 4_231.7	231.7	7.8	7200	6.5	1204	60000	5.2	7200	4.3	1688	60000	
C 90 4_268.5	268.5	6.7	7200	5.6	1189	60000	4.5	7200	3.7	1666	60000	
C 90 4_292.9	292.9	6.1	7200	5.1	1451	60000	4.1	7200	3.4	2034	60000	
C 90 4_339.0	339.0	5.3	7200	4.4	1328	60000	3.5	7200	3.0	1861	60000	
C 90 4_369.8	369.8	4.9	7200	4.1	1583	60000	3.2	7200	2.7	2218	60000	
C 90 4_419.0	419.0	4.3	7200	3.6	1459	60000	2.9	7200	2.4	2045	60000	
C 90 4_457.1	457.1	3.9	7200	3.3	1706	60000	2.6	7200	2.2	2391	60000	
C 90 4_534.2	534.2	3.4	7200	2.8	1613	60000	2.2	7200	1.9	2261	60000	
C 90 4_582.8	582.8	3.1	7200	2.6	1752	60000	2.1	7200	1.7	2456	60000	
C 90 4_652.8	652.8	2.8	7200	2.3	1668	60000	1.8	7200	1.5	2337	60000	
C 90 4_712.2	712.2	2.5	7200	2.1	1768	60000	1.7	7200	1.4	2478	60000	
C 90 4_773.6	773.6	2.3	7200	1.9	1737	60000	1.6	7200	1.3	2435	60000	
C 90 4_844.0	844.0	2.1	7200	1.8	1783	60000	1.4	7200	1.2	2499	60000	
C 90 4_922.3	922.3	2.0	7200	1.6	1745	60000	1.3	7200	1.1	2445	60000	
C 90 4_1006	1006	1.8	7200	1.5	1791	60000	1.2	7200	1.0	2510	60000	
C 90 4_1137	1137	1.6	7200	1.3	1752	60000	1.1	7200	0.88	2456	60000	
C 90 4_1240	1240	1.5	7200	1.2	1722	60000	1.0	7200	0.81	2413	60000	



C 100 — 12000 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
C 100 2_4.9	4.9	367	6304	255	3161	23453	245	7120	192	4196	26514	
C 100 2_5.3	5.3	340	6443	241	4120	23917	226	7277	182	5469	27038	
C 100 2_6.5	6.5	277	6999	214	3294	25029	185	7905	161	4373	28296	
C 100 2_7.1	7.1	254	7092	198	4395	25863	169	8010	149	5834	29239	
C 100 2_8.4	8.4	214	7601	180	3311	26420	143	8585	135	4395	29868	
C 100 2_9.0	9.0	200	7740	171	4328	27068	133	8742	128	5745	30602	
C 100 2_10.1	10.1	178	8111	159	3253	27347	119	9161	120	4317	30916	
C 100 2_10.9	10.9	165	8111	148	4554	29293	110	9161	111	6044	33117	
C 100 2_12.5	12.5	144	8714	138	2719	28552	96	9842	104	3609	32278	
C 100 2_13.5	13.5	133	8807	129	3903	29757	89	9947	97	5181	33641	
C 100 2_15.2	15.2	118	9270	121	2235	30128	79	10470	91	2967	34060	
C 100 2_16.5	16.5	109	9409	113	3686	31147	73	10627	85	4893	35213	
C 100 2_18.7	18.7	96	9270	98	3002	35226	64	10470	74	3985	39824	
C 100 2_20.2	20.2	89	9270	91	4345	36709	59	10470	69	5767	41501	
C 100 2_22.2	22.2	81	8528	76	4971	40881	54	9632	57	6598	46217	
C 100 2_24.1	24.1	75	9270	76	4921	40139	50	10470	57	6531	45378	
C 100 2_29.6	29.6	61	7880	53	7689	48389	41	8900	40	10207	54706	
C 100 3_34.3	34.3	52	10846	64	10842	43013	35	11700	46	14391	48627	
C 100 3_36.9	36.9	49	10939	60	10925	44496	33	11800	43	14502	50304	
C 100 3_42.9	42.9	42	11350	54	10925	47462	28	12000	38	14502	53658	
C 100 3_46.2	46.2	39	11700	51	11092	49224	26	12000	35	14723	55649	
C 100 3_53.3	53.3	34	12000	46	11009	52746	23	12000	30	14612	59631	
C 100 3_57.4	57.4	31	12000	42	11176	54693	21	12000	28	14834	61832	
C 100 3_64.5	64.5	27.9	12000	38	11176	57752	19	12000	25	14834	65290	
C 100 3_69.4	69.4	25.9	12000	35	11259	59792	17	12000	23	14945	67596	
C 100 3_79.4	79.4	22.7	12000	31	11259	63592	15	12000	20	14945	71893	198
C 100 3_85.6	85.6	21.0	12000	28	11342	65724	14	12000	19	15000	74303	
C 100 3_92.7	92.7	19.4	12000	26	11259	68135	13	12000	17	15000	77028	
C 100 3_99.8	99.8	18.0	12000	24	11342	70359	12	12000	16	15000	79543	
C 100 3_111.9	111.9	16.1	12000	22	11259	73975	11	12000	14	15000	83630	
C 100 3_120.5	120.5	14.9	12000	20	11426	76385	10	12000	13	15000	85000	
C 100 3_139.7	139.7	12.9	11050	16.0	11426	78795	9	11050	11	15000	85000	
C 100 3_150.4	150.4	12.0	12000	16.2	11426	78795	8	12000	11	15000	85000	
C 100 4_162.1	162.1	11.1	12000	15.5	—	85000	7.4	12000	10.3	—	85000	
C 100 4_185.4	185.4	9.7	12000	13.6	—	85000	6.5	12000	9.0	—	85000	
C 100 4_199.6	199.6	9.0	12000	12.6	—	85000	6.0	12000	8.4	—	85000	
C 100 4_244.2	244.2	7.4	12000	10.3	—	85000	4.9	12000	6.9	—	85000	
C 100 4_263.0	263.0	6.8	12000	9.6	—	85000	4.6	12000	6.4	—	85000	
C 100 4_300.5	300.5	6.0	12000	8.4	—	85000	4.0	12000	5.6	—	85000	
C 100 4_323.6	323.6	5.6	12000	7.8	—	85000	3.7	12000	5.2	—	85000	
C 100 4_380.5	380.5	4.7	12000	6.6	—	85000	3.2	12000	4.4	—	85000	
C 100 4_409.8	409.8	4.4	12000	6.1	—	85000	2.9	12000	4.1	—	85000	
C 100 4_466.7	466.7	3.9	12000	5.4	—	85000	2.6	12000	3.6	—	85000	
C 100 4_502.6	502.6	3.6	12000	5.0	—	85000	2.4	12000	3.3	—	85000	
C 100 4_582.6	582.6	3.1	12000	4.3	—	85000	2.1	12000	2.9	—	85000	
C 100 4_627.4	627.4	2.9	12000	4.0	—	85000	1.9	12000	2.7	—	85000	
C 100 4_720.3	720.3	2.5	12000	3.5	—	85000	1.7	12000	2.3	—	85000	
C 100 4_775.7	775.7	2.3	12000	3.2	—	85000	1.5	12000	2.2	—	85000	
C 100 4_843.3	843.3	2.1	12000	3.0	—	85000	1.4	12000	2.0	—	85000	
C 100 4_908.2	908.2	2.0	12000	2.8	692	85000	1.3	12000	1.8	919	85000	
C 100 4_1004	1004	1.8	12000	2.5	—	85000	1.2	12000	1.7	—	85000	
C 100 4_1081	1081	1.7	12000	2.3	726	85000	1.1	12000	1.6	963	85000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)

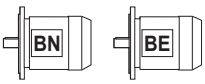


27 DISPONIBILIDADE DE MOTOR

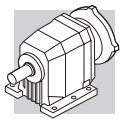
Observe que as combinações de motor e redutor resultantes das tabelas (B21) e (B22) baseiam-se meramente na compatibilidade geométrica.

Ao selecionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição $S \geq f_s$.

(B 21)

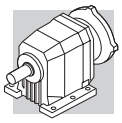
		IEC_  (IM B5)									
		P63 P71	P80 P90	P100 P112	P132	P160	P180	P200	P225	P250	P280
C 12 2	i =	2.8_66.2	2.8_47.6	2.8_47.6							
C 22 2		3.7_63.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7							
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0							
C 32 2		5.0_66.8 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1						
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7							
C 36 2		4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0						
C 36 3		38.1_206.4	22.1_206.4	22.1_206.4	22.1_77.6						
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5							
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4						
C 41 3		47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3						
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5							
C 51 2		18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4				
C 51 3		59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4				
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9							
C 61 2		22.4_38.0	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0				
C 61 3		67.7_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5				
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1							
C 70 2			14.1_34.7 ⛀ (15.3)	14.1_34.7 ⛀ (15.3)	7.5_34.7 ⛀ (8.0)	4.6_34.7	4.6_34.7*	4.6_10.2* ⛀ (9.5)			
C 70 3			41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4*				
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7						
C 80 2			20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9*	5.6_25.9*		
C 80 3			43.5_215.8	43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4				
C 80 4		334.3_1481	261.9_1481	261.9_1481	261.9_724.7						
C 90 2			22.9_35.1	22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4	5.2_29.4*	5.2_29.4*	
C 90 3			74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2	39.4_96.2*	39.4_96.2*	
C 90 4		339.0_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2				
C 100 2				29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6	4.9_29.6	4.9_29.6*	4.9_29.6*
C 100 3				79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8	34.3_99.8*	34.3_99.8	34.3_99.8*
C 100 4		380.5_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7				

Para as posições de montagem B3-B5 B6-B7-B8, o motor marcado com * será fornecido em B3/B5

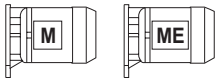


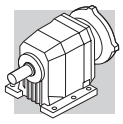
(B 22)

		NEMA Motor frame						
		N56C	**N140TC**	**N180TC**	**N210TC**	**N250TC**	**N280TC**	**N320TC**
C 12 2		2.8_66.2	2.8_47.6	2.8_47.6				
C 22 2		3.7_63.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0				
C 32 2		5.0_66.8 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1			
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7				
C 36 2		4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		38.1_206.4	22.1_206.4	22.1_206.4	22.1_77.6			
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5				
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4			
C 41 3		47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3			
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5				
C 51 2		18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4	
C 51 3		59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4	
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9				
C 61 2	**i =**	22.4_38.0	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0	
C 61 3		67.7_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5	
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1				
C 70 2			14.1_34.7 ⛀ (15.3)	14.1_34.7 ⛀ (15.3)	7.5_34.7 ⛀ (8.0)	4.6_34.7	4.6_34.7*	
C 70 3			41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4*	
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7			
C 80 2			20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9*
C 80 3			43.5_215.8	43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4	
C 80 4		334.3_1481	261.9_1481	261.9_1481	261.9_724.7			
C 90 2			22.9_35.1	22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4*
C 90 3			74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2*
C 90 4		339.0_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2	
C 100 2				29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6
C 100 3				79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8*
C 100 4		380.5_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7	



(B 23)

		M0	M05	M1	ME2	ME3	ME4	ME5
								
C 05 2	i =	27.1_44.7	5.5_44.7	5.5_44.7				
C 12 2			2.8_66.2	2.8_37.0	2.8_47.7	2.8_47.7		
C 22 2			3.7_63.3 ⛀ (7.1_8.7)	3.7_43.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7		
C 22 3			60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0		
C 32 2				5.0_52.4 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1	
C 32 3			74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7		
C 36 2				4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0	
C 36 3				38.1_162.0	22.1_206.4	22.1_206.4	22.1_77.6	
C 36 4			230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5		
C 41 2				14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4	
C 41 3				47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3	
C 41 4			239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5		
C 51 2				18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4
C 51 3				59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4
C 51 4				240.9_884.9	240.9_884.9	240.9_884.9		
C 61 2					3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0
C 61 3					26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5
C 61 4				217.4_796.1	217.4_796.1	217.4_796.1		
C 70 2					14.1_34.7 ⛀ (15.3)	14.1_34.7 ⛀ (15.3)	7.5_34.7 ⛀ (8.0)	7.5_34.7 ⛀ (8.0)
C 70 3					41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4
C 70 4				251.3_1476	251.3_1476	251.3_1476	251.3_554.7	
C 80 2						20.5_39.1	11.1_39.1	11.1_39.1
C 80 3						43.5_215.8	43.5_184.4	43.5_184.4
C 80 4				334.3_1481	261.9_1481	261.9_1481	261.9_724.7	
C 90 2						22.9_35.1	12.8_35.1	12.8_35.1
C 90 3						74.4_172.1	39.4_172.1	39.4_172.1
C 90 4				339.0_1240	212.4_1240	212.4_1240	212.4_712.2	
C 100 2							15.2_29.6	15.2_29.6
C 100 3							42.9_150.4	42.9_150.4
C 100 4				380.5_1081	162.1_1081	162.1_1081	162.1_775.7	



Adaptadores para motor compatíveis com as marcas mais populares de servomotores estão disponíveis para as unidades tamanhos C12…C61. As dimensões das entradas do servomotor são fornecidas na seção “desenho” de cada tamanho de quadro.
O código **SK** é aplicável para entradas com chaveta convencional, enquanto que o eixo de entrada especificado pelo código **SC** terá um dispositivo de fixação em vez da chaveta convencional.

(B 24)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
C 12 2	i =	2.8_66.2	2.8_66.2	2.8_66.2		2.8_47.6	2.8_66.2	2.8_47.6	2.8_47.6
C 22 2		3.7_63.3 ⛀ (7.1_8.7)	3.7_63.3 ⛀ (7.1_8.7)	3.7_63.3 ⛀ (7.1_8.7)		2.7_54.7	3.7_63.3 ⛀ (7.1_8.7)	2.7_54.7	2.7_54.7
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0		60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0
C 32 2		5.0_66.8 ⛀ (7.2_11.2)	5.0_66.8 ⛀ (7.2_11.2)	5.0_66.8 ⛀ (7.2_11.2)		2.9_66.8	5.0_66.8 ⛀ (7.2_11.2)	2.9_66.8	2.9_66.8
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7		74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7
C 36 2		4.6_19.0 ⛀ (6.8_10.6)	4.6_19.0 ⛀ (6.8_10.6)	4.6_19.0 ⛀ (6.8_10.6)		2.7_19.0	4.6_19.0 ⛀ (6.8_10.6)	2.7_19.0	2.7_19.0
C 36 3		38.1_206.4	38.1_206.4	38.1_206.4		22.1_206.4	38.1_206.4	22.1_206.4	22.1_206.4
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5		230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5
C 41 2					6.0_44.8 ⛀ (6.4_12.4)	2.7_44.8	6.0_44.8 ⛀ (6.4_12.4)	2.7_44.8	2.7_44.8
C 41 3					47.0_209.1	28.5_209.1	47.0_209.1	28.5_209.1	28.5_209.1
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5		239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5
C 51 2					18.9_57.0	2.6_57.0	18.9_57.0	2.6_57.0	2.6_57.0
C 51 3					59.0_216.7	21.8_216.7	59.0_216.7	21.8_216.7	21.8_216.7
C 51 4						240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9
C 61 2						3.7_38.0 ⛀ (6.7_7.5)	22.4_38.0	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)
C 61 3						26.8_195.8	67.7_195.8	26.8_195.8	26.8_195.8
C 61 4					217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1

(B 25)

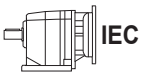
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
C 12 2	i =	2.8_47.6	2.8_47.6				
C 22 2		2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0				
C 32 2		2.9_66.8	2.9_66.8	2.9_66.8			
C 32 3		74.7_274.7	74.7_274.7				
C 36 2		2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		22.1_206.4	22.1_206.4	22.1_206.4			
C 36 4		230.9_848.5	230.9_848.5				
C 41 2		2.7_44.8	2.7_44.8	2.7_44.8	2.7_31.4	2.7_31.4	2.7_31.4
C 41 3		28.5_209.1	28.5_209.1	28.5_209.1	28.5_102.3	28.5_102.3	28.5_102.3
C 41 4		239.9_855.5	239.9_855.5				
C 51 2		2.6_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4
C 51 3		21.8_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9			
C 61 2		3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	3.7_38.0 ⛀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0
C 61 3		26.8_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1			

28 MOMENTO DE INÉRCIA

As tabelas abaixo indicam os valores de momento de inércia Jr [kgm^2] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:



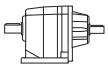
Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.



Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).



Valores sob este símbolo referem-se a redutores com adaptador para motor NEMA (tamanho NEMA...).



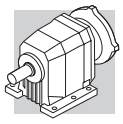
Este símbolo refere-se a valores para redutores.



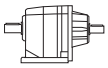
Valores sob este símbolo refere-se a redutores com adaptador de entrada para servomotor.

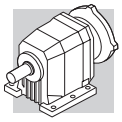
C 05

	i	**J** (•10^{-4}) [kgm^2] 
C 05_5.5	5.5	0.29
C 05_6.7	6.7	0.29
C 05_7.4	7.4	0.28
C 05_9.3	9.3	0.17
C 05_11.2	11.2	0.16
C 05_12.5	12.5	0.16
C 05_15.6	15.6	0.09
C 05_18.9	18.9	0.09
C 05_21.0	21.0	0.08
C 05_27.1	27.1	0.04
C 05_32.8	32.8	0.04
C 05_36.4	36.4	0.04
C 05_40.3	40.3	0.03
C 05_44.7	44.7	0.03

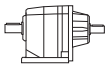


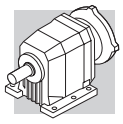
C 12

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
C 12 2_2.8	2.8	0.44	1.9	1.9	3.3	3.2	4.5	4.5	1.3
C 12 2_3.2	3.2	0.34	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_3.7	3.7	0.29	1.8	1.7	3.1	3.1	4.4	4.4	1.2
C 12 2_4.3	4.3	0.21	1.7	1.7	3.1	3.0	4.3	4.3	1.1
C 12 2_4.9	4.9	0.19	1.7	1.7	3.0	3.0	4.3	4.3	1.1
C 12 2_5.6	5.6	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_6.2	6.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_7.6	7.6	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_8.8	8.8	0.32	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_10.1	10.1	0.23	1.7	1.7	3.1	3.0	4.3	4.3	1.1
C 12 2_11.9	11.9	0.17	1.6	1.6	3.0	3.0	4.2	4.2	1.1
C 12 2_13.4	13.4	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.1
C 12 2_15.4	15.4	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_17.2	17.2	0.10	1.6	1.6	2.9	2.9	4.2	4.2	1.0
C 12 2_18.4	18.4	0.08	1.6	1.5	2.9	2.9	4.2	4.2	0.98
C 12 2_20.6	20.6	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.98
C 12 2_23.2	23.2	0.07	1.5	1.5	2.9	2.9	4.1	4.1	0.97
C 12 2_25.4	25.4	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.96
C 12 2_29.5	29.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	0.95
C 12 2_32.8	32.8	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 12 2_37.0	37.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 12 2_42.3	42.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 12 2_47.6	47.6	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 12 2_55.2	55.2	0.02	1.5	1.5	—	—	—	—	0.92
C 12 2_66.2	66.2	0.01	1.5	1.5	—	—	—	—	0.91



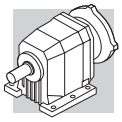
C 12

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
C 12 2_2.8	2.8	0.44	1.9	1.9	3.3	1.3
C 12 2_3.2	3.2	0.34	1.8	1.8	3.2	1.2
C 12 2_3.7	3.7	0.29	1.8	1.8	3.1	1.2
C 12 2_4.3	4.3	0.21	1.7	1.7	3.1	1.1
C 12 2_4.9	4.9	0.19	1.7	1.7	3.0	1.1
C 12 2_5.6	5.6	0.15	1.6	1.6	3.0	1.0
C 12 2_6.2	6.2	0.12	1.6	1.6	3.0	1.0
C 12 2_7.6	7.6	0.33	1.8	1.8	3.2	1.2
C 12 2_8.8	8.8	0.32	1.8	1.8	3.2	1.2
C 12 2_10.1	10.1	0.23	1.7	1.7	3.1	1.1
C 12 2_11.9	11.9	0.17	1.6	1.6	3.0	1.1
C 12 2_13.4	13.4	0.16	1.6	1.6	3.0	1.1
C 12 2_15.4	15.4	0.12	1.6	1.6	3.0	1.0
C 12 2_17.2	17.2	0.10	1.6	1.6	2.9	1.0
C 12 2_18.4	18.4	0.08	1.6	1.6	2.9	0.98
C 12 2_20.6	20.6	0.08	1.5	1.5	2.9	0.98
C 12 2_23.2	23.2	0.07	1.5	1.5	2.9	0.97
C 12 2_25.4	25.4	0.06	1.5	1.5	2.9	0.96
C 12 2_29.5	29.5	0.05	1.5	1.5	2.9	0.95
C 12 2_32.8	32.8	0.04	1.5	1.5	2.9	0.94
C 12 2_37.0	37.0	0.03	1.5	1.5	2.9	0.93
C 12 2_42.3	42.3	0.03	1.5	1.5	2.9	0.93
C 12 2_47.6	47.6	0.02	1.5	1.5	2.9	0.92
C 12 2_55.2	55.2	0.02	1.5	1.5	—	0.92
C 12 2_66.2	66.2	0.01	1.5	1.5	—	0.91



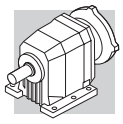
C 12

	i	J (•10-4) [kgm2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 12 2_2.8	2.8	0.71	0.97	0.73	1.2	3.3	3.7	3.3	3.8	3.2	4.2
C 12 2_3.2	3.2	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 12 2_3.7	3.7	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
C 12 2_4.3	4.3	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0
C 12 2_4.9	4.9	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0
C 12 2_5.6	5.6	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
C 12 2_6.2	6.2	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 12 2_7.6	7.6	0.60	0.86	0.62	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 12 2_8.8	8.8	0.59	0.85	0.61	1.0	3.1	3.6	3.2	3.7	3.1	4.1
C 12 2_10.1	10.1	0.50	0.76	0.52	0.96	3.1	3.5	3.1	3.6	3.0	4.0
C 12 2_11.9	11.9	0.44	0.70	0.46	0.90	3.0	3.4	3.0	3.5	3.0	4.0
C 12 2_13.4	13.4	0.43	0.69	0.45	0.83	3.0	3.4	3.0	3.5	2.9	3.9
C 12 2_15.4	15.4	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 12 2_17.2	17.2	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.9	3.9
C 12 2_18.4	18.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_20.6	20.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_23.2	23.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_25.4	25.4	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_29.5	29.5	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_32.8	32.8	0.34	0.60	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_37.0	37.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_42.3	42.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_47.6	47.6	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 12 2_55.2	55.2	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
C 12 2_66.2	66.2	0.28	0.54	0.30	0.74	2.8	3.3	—	—	—	—

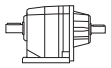


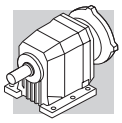
C 22

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
C 22 2_2.7	2.7	1.2	—	—	4.0	4.0	5.3	5.3	3.1
C 22 2_3.3	3.3	0.83	—	—	3.7	3.6	4.9	4.9	2.7
C 22 2_3.7	3.7	0.72	2.2	2.2	3.6	3.5	4.8	4.8	2.6
C 22 2_4.3	4.3	0.56	2.0	2.0	3.4	3.3	4.6	4.6	2.4
C 22 2_4.8	4.8	0.48	2.0	1.9	3.3	3.3	4.6	4.6	2.4
C 22 2_5.6	5.6	0.36	1.8	1.8	3.2	3.2	4.4	4.4	2.2
C 22 2_6.1	6.1	0.29	1.8	1.7	3.1	3.1	4.4	4.4	2.2
C 22 2_7.1	7.1	0.77	—	—	3.6	3.6	4.8	4.8	2.6
C 22 2_8.7	8.7	0.55	—	—	3.4	3.3	4.6	4.6	2.4
C 22 2_9.6	9.6	0.50	2.0	2.0	3.3	3.3	4.6	4.6	2.4
C 22 2_11.1	11.1	0.39	1.9	1.8	3.2	3.2	4.5	4.5	2.3
C 22 2_12.4	12.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.2
C 22 2_14.5	14.5	0.36	1.7	1.7	3.1	3.1	4.3	4.3	2.1
C 22 2_15.8	15.8	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
C 22 2_18.1	18.1	0.18	1.6	1.6	3.0	3.0	4.3	4.3	2.0
C 22 2_20.0	20.0	0.15	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_21.5	21.5	0.13	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_24.3	24.3	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_27.2	27.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_29.6	29.6	0.09	1.6	1.5	2.9	2.9	4.2	4.2	2.0
C 22 2_33.1	33.1	0.07	1.5	1.5	2.9	2.9	4.2	4.2	1.9
C 22 2_36.8	36.8	0.06	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_43.3	43.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_48.6	48.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_54.7	54.7	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_63.3	63.3	0.02	1.5	1.5	—	—	—	—	1.9
C 22 3_60.0	60.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 22 3_65.3	65.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_74.8	74.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_82.6	82.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_88.5	88.5	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_100.2	100.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_112.0	112.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_122.2	122.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_136.5	136.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_151.7	151.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_178.5	178.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_200.7	200.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_225.8	225.8	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_261.0	261.0	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92



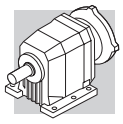
C 22

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
C 22 2_2.7	2.7	1.2	—	—	4.0	3.1
C 22 2_3.3	3.3	0.83	—	—	3.7	2.7
C 22 2_3.7	3.7	0.72	2.2	2.2	3.6	2.6
C 22 2_4.3	4.3	0.56	2.0	2.0	3.4	2.4
C 22 2_4.8	4.8	0.48	2.0	2.0	3.3	2.4
C 22 2_5.6	5.6	0.36	1.8	1.8	3.2	2.2
C 22 2_6.1	6.1	0.29	1.8	1.8	3.1	2.2
C 22 2_7.1	7.1	0.77	—	—	3.6	2.6
C 22 2_8.7	8.7	0.55	—	—	3.4	2.4
C 22 2_9.6	9.6	0.50	2.0	2.0	3.3	2.4
C 22 2_11.1	11.1	0.39	1.9	1.9	3.2	2.3
C 22 2_12.4	12.4	0.35	1.8	1.8	3.2	2.2
C 22 2_14.5	14.5	0.36	1.7	1.7	3.1	2.1
C 22 2_15.8	15.8	0.20	1.7	1.7	3.1	2.1
C 22 2_18.1	18.1	0.18	1.6	1.6	3.0	2.0
C 22 2_20.0	20.0	0.15	1.6	1.6	3.0	2.0
C 22 2_21.5	21.5	0.13	1.6	1.6	3.0	2.0
C 22 2_24.3	24.3	0.12	1.6	1.6	3.0	2.0
C 22 2_27.2	27.2	0.10	1.6	1.6	3.0	2.0
C 22 2_29.6	29.6	0.09	1.6	1.6	2.9	2.0
C 22 2_33.1	33.1	0.07	1.5	1.5	2.9	1.9
C 22 2_36.8	36.8	0.06	1.5	1.5	2.9	1.9
C 22 2_43.3	43.3	0.05	1.5	1.5	2.9	1.9
C 22 2_48.6	48.6	0.04	1.5	1.5	2.9	1.9
C 22 2_54.7	54.7	0.03	1.5	1.5	2.9	1.9
C 22 2_63.3	63.3	0.02	1.5	1.5	—	1.9
C 22 3_60.0	60.0	0.04	1.5	1.5	2.9	0.94
C 22 3_65.3	65.3	0.03	1.5	1.5	2.9	0.93
C 22 3_74.8	74.8	0.03	1.5	1.5	2.9	0.93
C 22 3_82.6	82.6	0.03	1.5	1.5	2.9	0.93
C 22 3_88.5	88.5	0.03	1.5	1.5	2.9	0.93
C 22 3_100.2	100.2	0.03	1.5	1.5	2.9	0.93
C 22 3_112.0	112.0	0.03	1.5	1.5	2.9	0.93
C 22 3_122.2	122.2	0.03	1.5	1.5	2.9	0.93
C 22 3_136.5	136.5	0.02	1.5	1.5	2.9	0.92
C 22 3_151.7	151.7	0.02	1.5	1.5	2.9	0.92
C 22 3_178.5	178.5	0.02	1.5	1.5	2.9	0.92
C 22 3_200.7	200.7	0.02	1.5	1.5	2.9	0.92
C 22 3_225.8	225.8	0.02	1.5	1.5	2.9	0.92
C 22 3_261.0	261.0	0.02	1.5	1.5	2.9	0.92

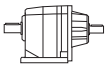


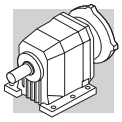
C 22

	i	J (•10-4) [kgm2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 22 2_2.7	2.7	—	—	—	—	—	—	4.0	4.5	4.0	5.0
C 22 2_3.3	3.3	—	—	—	—	—	—	3.7	4.2	3.6	4.6
C 22 2_3.7	3.7	0.99	1.3	1.0	1.4	3.5	4.0	3.6	4.1	3.5	4.5
C 22 2_4.3	4.3	0.83	1.1	0.85	1.3	3.4	3.8	3.4	3.9	3.3	4.3
C 22 2_4.8	4.8	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.3	4.3
C 22 2_5.6	5.6	0.63	0.89	0.65	1.1	3.2	3.6	3.2	3.7	3.2	4.2
C 22 2_6.1	6.1	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
C 22 2_7.1	7.1	—	—	—	—	—	—	3.6	4.1	3.6	4.6
C 22 2_8.7	8.7	—	—	—	—	—	—	3.4	3.9	3.3	4.3
C 22 2_9.6	9.6	0.77	1.0	0.79	1.2	3.3	3.8	3.3	3.8	3.3	4.3
C 22 2_11.1	11.1	0.66	0.92	0.68	1.1	3.2	3.6	3.2	3.7	3.2	4.2
C 22 2_12.4	12.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 22 2_14.5	14.5	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.1	4.1
C 22 2_15.8	15.8	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
C 22 2_18.1	18.1	0.45	0.71	0.47	0.91	3.0	3.4	3.0	3.5	3.0	4.0
C 22 2_20.0	20.0	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
C 22 2_21.5	21.5	0.40	0.66	0.42	0.86	3.0	3.4	3.0	3.5	2.9	3.9
C 22 2_24.3	24.3	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 22 2_27.2	27.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
C 22 2_29.6	29.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.9	3.9
C 22 2_33.1	33.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
C 22 2_36.8	36.8	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_43.3	43.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_48.6	48.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_54.7	54.7	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_63.3	63.3	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
C 22 3_60.0	60.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_65.3	65.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_74.8	74.8	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_82.6	82.6	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_88.5	88.5	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_100.2	100.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_112.0	112.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_122.2	122.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_136.5	136.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_151.7	151.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_178.5	178.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_200.7	200.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_225.8	225.8	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_261.0	261.0	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8

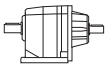


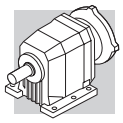
C 32

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
C 32 2_2.9	2.9	2.3	—	—	5.2	5.1	6.4	6.4	20	4.6
C 32 2_3.4	3.4	1.8	—	—	4.6	4.6	5.9	5.9	20	4.0
C 32 2_3.7	3.7	1.6	—	—	4.4	4.3	5.6	5.6	20	3.8
C 32 2_4.5	4.5	1.2	—	—	4.0	4.0	5.2	5.2	19	3.4
C 32 2_5.0	5.0	0.87	2.3	2.3	3.7	3.7	5.0	5.0	19	3.1
C 32 2_5.7	5.7	0.82	2.3	2.3	3.7	3.6	4.9	4.9	19	3.0
C 32 2_6.3	6.3	0.63	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_7.2	7.2	1.5	—	—	4.4	4.3	5.6	5.6	19	3.7
C 32 2_8.5	8.5	1.2	—	—	4.1	4.0	5.3	5.3	19	3.4
C 32 2_9.3	9.3	1.1	—	—	3.9	3.9	5.1	5.1	19	3.3
C 32 2_11.2	11.2	0.83	—	—	3.7	3.6	4.9	4.9	19	3.0
C 32 2_12.3	12.3	0.60	2.1	2.1	3.4	3.4	4.7	4.7	18	2.8
C 32 2_14.1	14.1	0.61	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_15.6	15.6	0.46	1.9	1.9	3.3	3.2	4.5	4.5	18	2.7
C 32 2_18.2	18.2	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	2.6
C 32 2_20.1	20.1	0.34	1.8	1.8	3.2	3.1	4.4	4.4	18	2.6
C 32 2_22.9	22.9	0.31	1.8	1.8	3.2	3.1	4.4	4.4	17	2.5
C 32 2_25.1	25.1	0.25	1.7	1.7	3.1	3.0	4.3	4.3	17	2.5
C 32 2_26.9	26.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	2.5
C 32 2_29.8	29.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_33.1	33.1	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_36.1	36.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_40.7	40.7	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_45.3	45.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.3
C 32 2_52.4	52.4	0.08	1.6	1.6	2.9	2.9	4.2	4.2	—	2.3
C 32 2_59.4	59.4	0.07	1.5	1.5	2.9	2.9	4.2	4.2	—	2.3
C 32 2_66.8	66.8	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.3
C 32 3_74.7	74.7	0.06	1.5	1.5	2.9	2.9	4.1	4.1	—	0.96
C 32 3_82.6	82.6	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_94.2	94.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_103.3	103.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_110.6	110.6	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_122.4	122.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_136.0	136.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_148.4	148.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_167.4	167.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_186.0	186.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_215.6	215.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_244.2	244.2	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_274.7	274.7	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94



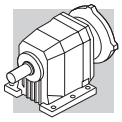
C 32

	i	J (•10-4) [kgm2]					
			NEMA				
			N56C	N140TC	N180TC	N210TC	
C 32 2_2.9	2.9	2.3	—	—	5.2	20	4.6
C 32 2_3.4	3.4	1.8	—	—	4.6	20	4.0
C 32 2_3.7	3.7	1.6	—	—	4.4	20	3.8
C 32 2_4.5	4.5	1.2	—	—	4.0	19	3.4
C 32 2_5.0	5.0	0.87	2.3	2.3	3.7	19	3.1
C 32 2_5.7	5.7	0.82	2.3	2.3	3.7	19	3.0
C 32 2_6.3	6.3	0.63	2.1	2.1	3.5	18	2.8
C 32 2_7.2	7.2	1.5	—	—	4.4	19	3.7
C 32 2_8.5	8.5	1.2	—	—	4.1	19	3.4
C 32 2_9.3	9.3	1.1	—	—	3.9	19	3.3
C 32 2_11.2	11.2	0.83	—	—	3.7	19	3.0
C 32 2_12.3	12.3	0.60	2.1	2.1	3.4	18	2.8
C 32 2_14.1	14.1	0.61	2.1	2.1	3.5	18	2.8
C 32 2_15.6	15.6	0.46	1.9	1.9	3.3	18	2.7
C 32 2_18.2	18.2	0.42	1.9	1.9	3.3	18	2.6
C 32 2_20.1	20.1	0.34	1.8	1.8	3.2	18	2.6
C 32 2_22.9	22.9	0.31	1.8	1.8	3.2	17	2.5
C 32 2_25.1	25.1	0.25	1.7	1.7	3.1	17	2.5
C 32 2_26.9	26.9	0.24	1.7	1.7	3.1	—	2.5
C 32 2_29.8	29.8	0.19	1.7	1.7	3.0	—	2.4
C 32 2_33.1	33.1	0.19	1.7	1.7	3.0	—	2.4
C 32 2_36.1	36.1	0.14	1.6	1.6	3.0	—	2.4
C 32 2_40.7	40.7	0.14	1.6	1.6	3.0	—	2.4
C 32 2_45.3	45.3	0.10	1.6	1.6	3.0	—	2.3
C 32 2_52.4	52.4	0.08	1.6	1.6	2.9	—	2.3
C 32 2_59.4	59.4	0.07	1.5	1.5	2.9	—	2.3
C 32 2_66.8	66.8	0.05	1.5	1.5	2.9	—	2.3
C 32 3_74.7	74.7	0.06	1.5	1.5	2.9	—	0.96
C 32 3_82.6	82.6	0.06	1.5	1.5	2.9	—	0.96
C 32 3_94.2	94.2	0.06	1.5	1.5	2.9	—	0.96
C 32 3_103.3	103.3	0.05	1.5	1.5	2.9	—	0.95
C 32 3_110.6	110.6	0.05	1.5	1.5	2.9	—	0.95
C 32 3_122.4	122.4	0.05	1.5	1.5	2.9	—	0.95
C 32 3_136.0	136.0	0.05	1.5	1.5	2.9	—	0.95
C 32 3_148.4	148.4	0.05	1.5	1.5	2.9	—	0.95
C 32 3_167.4	167.4	0.05	1.5	1.5	2.9	—	0.95
C 32 3_186.0	186.0	0.04	1.5	1.5	2.9	—	0.94
C 32 3_215.6	215.6	0.04	1.5	1.5	2.9	—	0.94
C 32 3_244.2	244.2	0.04	1.5	1.5	2.9	—	0.94
C 32 3_274.7	274.7	0.04	1.5	1.5	2.9	—	0.94

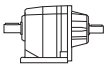


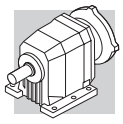
C 32

	i	J (•10-4) [kgm2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 32 2_2.9	2.9	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
C 32 2_3.4	3.4	—	—	—	—	—	—	4.6	5.1	4.6	5.6	4.6	5.6
C 32 2_3.7	3.7	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_4.5	4.5	—	—	—	—	—	—	4.0	4.5	4.0	5.0	4.0	5.0
C 32 2_5.0	5.0	1.1	1.4	1.2	1.6	3.7	4.1	3.7	4.2	3.7	4.7	3.7	4.7
C 32 2_5.7	5.7	1.1	1.4	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_6.3	6.3	0.90	1.2	0.92	1.4	3.5	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_7.2	7.2	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_8.5	8.5	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
C 32 2_9.3	9.3	—	—	—	—	—	—	3.9	4.4	3.9	4.9	3.9	4.9
C 32 2_11.2	11.2	—	—	—	—	—	—	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_12.3	12.3	0.87	1.1	0.89	1.3	3.4	3.9	3.4	3.9	3.4	4.4	3.4	4.4
C 32 2_14.1	14.1	0.88	1.1	0.90	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_15.6	15.6	0.73	0.99	0.75	1.2	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_18.2	18.2	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_20.1	20.1	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_22.9	22.9	0.58	0.84	0.60	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_25.1	25.1	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_26.9	26.9	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_29.8	29.8	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_33.1	33.1	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_36.1	36.1	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_40.7	40.7	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_45.3	45.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_52.4	52.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_59.4	59.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_66.8	66.8	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	2.8	3.8
C 32 3_74.7	74.7	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.9	3.9	—	—
C 32 3_82.6	82.6	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_94.2	94.2	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_103.3	103.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_110.6	110.6	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_122.4	122.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_136.0	136.0	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_148.4	148.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_167.4	167.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_186.0	186.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_215.6	215.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_244.2	244.2	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_274.7	274.7	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—

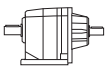


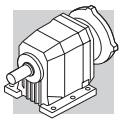
C 36

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
C 36 2_2.7	2.7	3.6	—	—	6.5	6.4	7.7	7.7	22	14
C 36 2_3.2	3.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 36 2_3.5	3.5	2.4	—	—	5.3	5.2	6.5	6.5	20	13
C 36 2_4.2	4.2	1.6	—	—	4.5	4.4	5.7	5.7	20	12
C 36 2_4.6	4.6	1.5	3.0	3.0	4.4	4.3	5.6	5.6	19	12
C 36 2_5.3	5.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	19	12
C 36 2_5.8	5.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	19	12
C 36 2_6.8	6.8	2.2	—	—	5.1	5.0	6.3	6.3	20	13
C 36 2_8.0	8.0	1.6	—	—	4.4	4.3	5.6	5.6	20	12
C 36 2_8.8	8.8	1.5	—	—	4.4	4.3	5.6	5.6	19	12
C 36 2_10.6	10.6	1.1	—	—	3.9	3.8	5.1	5.1	19	12
C 36 2_11.7	11.7	1.0	2.5	2.5	3.9	3.8	5.1	5.1	19	12
C 36 2_13.3	13.3	0.69	2.2	2.2	3.6	3.5	4.8	4.8	19	11
C 36 2_14.8	14.8	0.68	2.2	2.2	3.6	3.5	4.8	4.8	19	11
C 36 2_17.2	17.2	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
C 36 2_19.0	19.0	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
C 36 3_22.1	22.1	1.8	—	—	4.7	4.6	5.9	5.9	19	12
C 36 3_26.2	26.2	1.3	—	—	4.2	4.1	5.4	5.4	19	12
C 36 3_28.7	28.7	1.3	—	—	4.2	4.1	5.4	5.4	19	12
C 36 3_34.6	34.6	0.88	—	—	3.8	3.7	5.0	5.0	19	11
C 36 3_38.1	38.1	0.90	2.4	2.4	3.8	3.7	5.0	5.0	19	11
C 36 3_43.5	43.5	0.59	2.1	2.1	3.5	3.4	4.7	4.7	19	11
C 36 3_48.2	48.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	19	11
C 36 3_56.2	56.2	0.41	1.9	1.9	3.3	3.2	4.5	4.5	18	11
C 36 3_62.0	62.0	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	11
C 36 3_70.8	70.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	18	11
C 36 3_77.6	77.6	0.28	1.8	1.8	3.2	3.1	4.4	4.4	17	11
C 36 3_83.1	83.1	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_91.9	91.9	0.21	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_102.2	102.2	0.19	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_111.5	111.5	0.16	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_125.8	125.8	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_139.8	139.8	0.11	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_162.0	162.0	0.09	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_183.5	183.5	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_206.4	206.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 4_230.9	230.9	0.08	—	—	—	—	—	—	—	—
C 36 4_255.0	255.0	0.08	1.6	1.6	3.0	2.9	4.2	4.2	—	0.90
C 36 4_290.9	290.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_318.9	318.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_341.7	341.7	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_377.9	377.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_420.2	420.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_458.4	458.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_517.2	517.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_574.7	574.7	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_665.9	665.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_754.2	754.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_848.5	848.5	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88



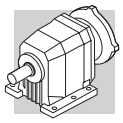
C 36

	i	J (•10-4) [kgm2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
C 36 2_2.7	2.7	3.6	—	—	6.5	22	14
C 36 2_3.2	3.2	2.5	—	—	5.4	21	13
C 36 2_3.5	3.5	2.4	—	—	5.3	20	13
C 36 2_4.2	4.2	1.6	—	—	4.5	20	12
C 36 2_4.6	4.6	1.5	3.0	3.0	4.4	19	12
C 36 2_5.3	5.3	1.1	2.6	2.6	4.0	19	12
C 36 2_5.8	5.8	0.98	2.5	2.5	3.9	19	12
C 36 2_6.8	6.8	2.2	—	—	5.1	20	13
C 36 2_8.0	8.0	1.6	—	—	4.4	20	12
C 36 2_8.8	8.8	1.5	—	—	4.4	19	12
C 36 2_10.6	10.6	1.1	—	—	3.9	19	12
C 36 2_11.7	11.7	1.0	2.5	2.5	3.9	19	12
C 36 2_13.3	13.3	0.69	2.2	2.2	3.6	19	11
C 36 2_14.8	14.8	0.68	2.2	2.2	3.6	19	11
C 36 2_17.2	17.2	0.47	2.0	2.0	3.4	18	11
C 36 2_19.0	19.0	0.47	2.0	2.0	3.4	18	11
C 36 3_22.1	22.1	1.8	—	—	4.7	19	12
C 36 3_26.2	26.2	1.3	—	—	4.2	19	12
C 36 3_28.7	28.7	1.3	—	—	4.2	19	12
C 36 3_34.6	34.6	0.88	—	—	3.8	19	11
C 36 3_38.1	38.1	0.90	2.4	2.4	3.8	19	11
C 36 3_43.5	43.5	0.59	2.1	2.1	3.5	19	11
C 36 3_48.2	48.2	0.60	2.1	2.1	3.5	19	11
C 36 3_56.2	56.2	0.41	1.9	1.9	3.3	18	11
C 36 3_62.0	62.0	0.42	1.9	1.9	3.3	18	11
C 36 3_70.8	70.8	0.30	1.8	1.8	3.2	18	11
C 36 3_77.6	77.6	0.28	1.8	1.8	3.2	17	11
C 36 3_83.1	83.1	0.24	1.7	1.7	3.1	—	11
C 36 3_91.9	91.9	0.21	1.7	1.7	3.1	—	11
C 36 3_102.2	102.2	0.19	1.7	1.7	3.1	—	11
C 36 3_111.5	111.5	0.16	1.7	1.7	3.1	—	11
C 36 3_125.8	125.8	0.14	1.6	1.6	3.0	—	11
C 36 3_139.8	139.8	0.11	1.6	1.6	3.0	—	11
C 36 3_162.0	162.0	0.09	1.6	1.6	3.0	—	11
C 36 3_183.5	183.5	0.07	1.6	1.6	3.0	—	11
C 36 3_206.4	206.4	0.06	1.6	1.6	3.0	—	11
C 36 4_230.9	230.9	0.08	—	—	—	—	—
C 36 4_255.0	255.0	0.08	1.6	1.6	3.0	—	0.90
C 36 4_290.9	290.9	0.07	1.6	1.6	3.0	—	0.89
C 36 4_318.9	318.9	0.07	1.6	1.6	3.0	—	0.89
C 36 4_341.7	341.7	0.07	1.6	1.6	3.0	—	0.89
C 36 4_377.9	377.9	0.07	1.6	1.6	3.0	—	0.89
C 36 4_420.2	420.2	0.06	1.6	1.6	3.0	—	0.88
C 36 4_458.4	458.4	0.06	1.6	1.6	3.0	—	0.88
C 36 4_517.2	517.2	0.06	1.6	1.6	3.0	—	0.88
C 36 4_574.7	574.7	0.06	1.6	1.6	3.0	—	0.88
C 36 4_665.9	665.9	0.06	1.6	1.6	3.0	—	0.88
C 36 4_754.2	754.2	0.06	1.6	1.6	3.0	—	0.88
C 36 4_848.5	848.5	0.06	1.6	1.6	3.0	—	0.88

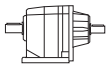


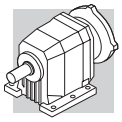
C 36

	i	J (•10-4) [kgm2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 36 2_2.7	2.7	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4
C 36 2_3.2	3.2	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
C 36 2_3.5	3.5	—	—	—	—	—	—	5.3	5.8	5.2	6.2	5.2	6.2
C 36 2_4.2	4.2	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4
C 36 2_4.6	4.6	1.8	2.0	1.8	2.2	4.3	4.7	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_5.3	5.3	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
C 36 2_5.8	5.8	1.3	1.5	1.3	1.7	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_6.8	6.8	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0
C 36 2_8.0	8.0	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_8.8	8.8	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_10.6	10.6	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_11.7	11.7	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_13.3	13.3	0.96	1.2	0.98	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_14.8	14.8	0.95	1.2	0.97	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_17.2	17.2	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 2_19.0	19.0	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 3_22.1	22.1	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
C 36 3_26.2	26.2	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_28.7	28.7	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_34.6	34.6	—	—	—	—	—	—	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_38.1	38.1	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_43.5	43.5	0.86	1.1	0.88	1.3	3.4	3.8	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_48.2	48.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_56.2	56.2	0.68	0.94	0.70	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_62.0	62.0	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_70.8	70.8	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_77.6	77.6	0.55	0.81	0.57	1.0	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_83.1	83.1	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_91.9	91.9	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_102.2	102.2	0.46	0.72	0.48	0.92	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_111.5	111.5	0.43	0.69	0.45	0.89	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_125.8	125.8	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_139.8	139.8	0.38	0.64	0.40	0.84	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_162.0	162.0	0.36	0.62	0.38	0.82	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_183.5	183.5	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_206.4	206.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 4_230.9	230.9	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_255.0	255.0	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_290.9	290.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_318.9	318.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_341.7	341.7	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_377.9	377.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_420.2	420.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_458.4	458.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_517.2	517.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_574.7	574.7	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_665.9	665.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_754.2	754.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_848.5	848.5	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—

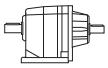


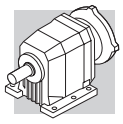
C 41

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
C 41 2_2.7	2.7	10	—	—	13	13	14	14	29	21
C 41 2_3.6	3.6	6.0	—	—	8.9	8.8	10	10	25	17
C 41 2_4.7	4.7	3.7	—	—	6.6	6.5	7.8	7.8	23	14
C 41 2_6.0	6.0	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 2_6.4	6.4	4.3	—	—	7.2	7.1	8.4	8.4	23	15
C 41 2_7.1	7.1	4.1	—	—	7.0	6.9	8.2	8.2	23	15
C 41 2_8.6	8.6	2.9	—	—	5.8	5.7	7.0	7.0	22	13
C 41 2_9.6	9.6	2.8	—	—	5.7	5.6	6.9	6.9	22	13
C 41 2_11.2	11.2	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_12.4	12.4	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_14.2	14.2	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	12
C 41 2_15.8	15.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	12
C 41 2_17.8	17.8	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_19.8	19.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_22.6	22.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_25.0	25.0	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_28.3	28.3	0.44	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_31.4	31.4	0.43	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_33.4	33.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_37.1	37.1	0.33	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_44.8	44.8	0.27	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_28.5	28.5	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_31.2	31.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_36.8	36.8	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_40.3	40.3	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_47.0	47.0	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_51.5	51.5	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_58.7	58.7	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_64.3	64.3	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_74.4	74.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_81.5	81.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_93.9	93.9	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_102.3	102.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_110.1	110.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_120.6	120.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_132.9	132.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_145.6	145.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_164.1	164.1	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_179.9	179.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_190.8	190.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 3_209.1	209.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 4_239.9	239.9	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_263.0	263.0	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_304.2	304.2	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_333.4	333.4	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_382.0	382.0	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_419.0	419.0	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_450.2	450.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_493.5	493.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_543.5	543.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_595.8	595.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_671.3	671.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_735.9	735.9	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_780.4	780.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_855.5	855.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0



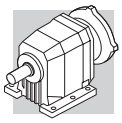
C 41

	i	J (•10-4) [kgm2]					
			NEMA 				
			N56C	N140TC	N180TC	N210TC	
C 41 2_2.7	2.7	10	—	—	13	29	21
C 41 2_3.6	3.6	6.0	—	—	8.9	25	17
C 41 2_4.7	4.7	3.7	—	—	6.6	23	14
C 41 2_6.0	6.0	2.5	—	—	5.4	21	13
C 41 2_6.4	6.4	4.3	—	—	7.2	23	15
C 41 2_7.1	7.1	4.1	—	—	7.0	23	15
C 41 2_8.6	8.6	2.9	—	—	5.8	22	13
C 41 2_9.6	9.6	2.8	—	—	5.7	22	13
C 41 2_11.2	11.2	1.8	—	—	4.7	21	12
C 41 2_12.4	12.4	1.8	—	—	4.7	21	12
C 41 2_14.2	14.2	1.4	2.9	2.9	4.3	20	12
C 41 2_15.8	15.8	1.3	2.8	2.8	4.2	20	12
C 41 2_17.8	17.8	1.0	2.5	2.5	3.9	20	12
C 41 2_19.8	19.8	0.98	2.5	2.5	3.9	20	12
C 41 2_22.6	22.6	0.60	2.1	2.1	3.5	20	11
C 41 2_25.0	25.0	0.60	2.1	2.1	3.5	20	11
C 41 2_28.3	28.3	0.44	1.9	1.9	3.3	19	11
C 41 2_31.4	31.4	0.43	1.9	1.9	3.3	19	11
C 41 2_33.4	33.4	0.34	1.8	1.8	3.2	—	11
C 41 2_37.1	37.1	0.33	1.8	1.8	3.2	—	11
C 41 2_44.8	44.8	0.27	1.8	1.8	3.2	—	11
C 41 3_28.5	28.5	2.5	—	—	5.4	21	13
C 41 3_31.2	31.2	2.5	—	—	5.4	21	13
C 41 3_36.8	36.8	1.6	—	—	4.5	21	12
C 41 3_40.3	40.3	1.6	—	—	4.5	21	12
C 41 3_47.0	47.0	1.2	2.7	2.7	4.1	20	12
C 41 3_51.5	51.5	1.2	2.7	2.7	4.1	20	12
C 41 3_58.7	58.7	0.90	2.4	2.4	3.8	20	11
C 41 3_64.3	64.3	0.90	2.4	2.4	3.8	20	11
C 41 3_74.4	74.4	0.60	2.1	2.1	3.5	20	11
C 41 3_81.5	81.5	0.60	2.1	2.1	3.5	20	11
C 41 3_93.9	93.9	0.40	1.9	1.9	3.3	19	11
C 41 3_102.3	102.3	0.40	1.9	1.9	3.3	19	11
C 41 3_110.1	110.1	0.30	1.8	1.8	3.2	—	11
C 41 3_120.6	120.6	0.30	1.8	1.8	3.2	—	11
C 41 3_132.9	132.9	0.30	1.8	1.8	3.2	—	11
C 41 3_145.6	145.6	0.30	1.8	1.8	3.2	—	11
C 41 3_164.1	164.1	0.20	1.7	1.7	3.1	—	11
C 41 3_179.9	179.9	0.20	1.7	1.7	3.1	—	11
C 41 3_190.8	190.8	0.10	1.6	1.6	3.0	—	11
C 41 3_209.1	209.1	0.10	1.6	1.6	3.0	—	11
C 41 4_239.9	239.9	0.15	1.7	1.7	3.1	—	2.1
C 41 4_263.0	263.0	0.15	1.7	1.7	3.1	—	2.1
C 41 4_304.2	304.2	0.13	1.6	1.6	3.0	—	2.0
C 41 4_333.4	333.4	0.13	1.6	1.6	3.0	—	2.0
C 41 4_382.0	382.0	0.12	1.6	1.6	3.0	—	2.0
C 41 4_419.0	419.0	0.12	1.6	1.6	3.0	—	2.0
C 41 4_450.2	450.2	0.12	1.6	1.6	3.0	—	2.0
C 41 4_493.5	493.5	0.12	1.6	1.6	3.0	—	2.0
C 41 4_543.5	543.5	0.12	1.6	1.6	3.0	—	2.0
C 41 4_595.8	595.8	0.12	1.6	1.6	3.0	—	2.0
C 41 4_671.3	671.3	0.10	1.6	1.6	3.0	—	2.0
C 41 4_735.9	735.9	0.10	1.6	1.6	3.0	—	2.0
C 41 4_780.4	780.4	0.10	1.6	1.6	3.0	—	2.0
C 41 4_855.5	855.5	0.10	1.6	1.6	3.0	—	2.0



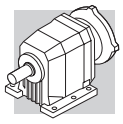
C 41

	i	J (•10-4) [kgm2]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 41 2_2.7	2.7	—	—	—	—	—	—	—	—	13	14	13	14	13	14	27	29	29	34
C 41 2_3.6	3.6	—	—	—	—	—	—	—	—	8.9	9.4	8.8	9.8	8.8	9.8	23	25	25	30
C 41 2_4.7	4.7	—	—	—	—	—	—	—	—	6.6	7.1	6.5	7.5	6.5	7.5	21	23	23	28
C 41 2_6.0	6.0	—	—	—	—	5.3	5.8	5.3	5.8	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 2_6.4	6.4	—	—	—	—	—	—	—	—	7.2	7.7	7.1	8.1	7.1	8.1	21	24	23	28
C 41 2_7.1	7.1	—	—	—	—	—	—	—	—	7.0	7.5	6.9	7.9	6.9	7.9	21	24	23	28
C 41 2_8.6	8.6	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
C 41 2_9.6	9.6	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	22	27
C 41 2_11.2	11.2	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26
C 41 2_12.4	12.4	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26
C 41 2_14.2	14.2	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	18	21	20	25
C 41 2_15.8	15.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	18	21	20	25
C 41 2_17.8	17.8	—	—	—	—	3.8	5.3	3.8	5.3	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25
C 41 2_19.8	19.8	—	—	—	—	3.8	4.2	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25
C 41 2_22.6	22.6	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 2_25.0	25.0	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 2_28.3	28.3	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 2_31.4	31.4	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 2_33.4	33.4	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 2_37.1	37.1	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 2_44.8	44.8	—	—	—	—	3.1	3.5	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_28.5	28.5	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 3_31.2	31.2	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 3_36.8	36.8	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26
C 41 3_40.3	40.3	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26
C 41 3_47.0	47.0	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25
C 41 3_51.5	51.5	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25
C 41 3_58.7	58.7	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25
C 41 3_64.3	64.3	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25
C 41 3_74.4	74.4	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 3_81.5	81.5	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 3_93.9	93.9	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 3_102.3	102.3	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 3_110.1	110.1	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_120.6	120.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_132.9	132.9	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_145.6	145.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_164.1	164.1	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
C 41 3_179.9	179.9	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
C 41 3_190.8	190.8	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
C 41 3_209.1	209.1	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
C 41 4_239.9	239.9	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—
C 41 4_263.0	263.0	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—
C 41 4_304.2	304.2	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_333.4	333.4	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_382.0	382.0	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_419.0	419.0	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_450.2	450.2	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_493.5	493.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_543.5	543.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_595.8	595.8	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_671.3	671.3	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_735.9	735.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_780.4	780.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_855.5	855.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—

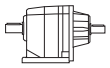


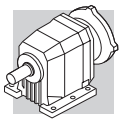
C 51

	i	J (•10-4) [kgm2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
C 51 2_2.6	2.6	15	—	—	17	17	19	19	33	79	76	25
C 51 2_3.3	3.3	10	—	—	13	13	14	14	29	75	72	21
C 51 2_4.5	4.5	6.3	—	—	9.2	9.1	10	10	25	71	68	17
C 51 2_5.6	5.6	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_7.0	7.0	8.1	—	—	11	11	12	12	27	73	70	19
C 51 2_7.8	7.8	7.8	—	—	11	11	12	12	27	73	70	18
C 51 2_8.8	8.8	6.0	—	—	8.9	8.8	10	10	25	71	68	17
C 51 2_9.8	9.8	5.8	—	—	8.7	8.6	9.9	9.9	25	71	68	16
C 51 2_11.8	11.8	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_13.1	13.1	4.0	—	—	6.9	6.8	8.1	8.1	23	69	66	15
C 51 2_15.0	15.0	2.7	—	—	5.6	5.5	6.8	6.8	22	68	65	13
C 51 2_16.6	16.6	2.6	—	—	5.5	5.4	6.7	6.7	22	68	65	13
C 51 2_18.9	18.9	2.0	3.5	3.5	4.9	4.8	6.1	6.1	21	67	64	13
C 51 2_21.0	21.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	67	64	12
C 51 2_23.4	23.4	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	66	63	12
C 51 2_25.9	25.9	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	66	63	12
C 51 2_29.8	29.8	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_33.0	33.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_36.4	36.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_40.4	40.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_43.1	43.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_47.8	47.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_51.4	51.4	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 2_57.0	57.0	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_21.8	21.8	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_23.9	23.9	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_27.4	27.4	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_30.1	30.1	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_37.0	37.0	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_40.5	40.5	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_46.7	46.7	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_51.2	51.2	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_59.0	59.0	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_64.6	64.6	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_72.9	72.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_79.9	79.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_93.0	93.0	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_101.8	101.8	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_113.6	113.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_124.4	124.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_134.6	134.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_147.4	147.4	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_160.5	160.5	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_175.8	175.8	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_197.9	197.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 3_216.7	216.7	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 4_240.9	240.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_263.8	263.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_297.8	297.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_326.1	326.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_380.0	380.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_416.0	416.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_463.9	463.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_508.0	508.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_549.7	549.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_602.0	602.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_655.4	655.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_717.7	717.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_808.0	808.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_884.9	884.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1



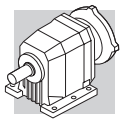
C 51

	i	J (•10-4) [kgm2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 51 2_2.6	2.6	15	—	—	17	33	79	76	25
C 51 2_3.3	3.3	10	—	—	13	29	75	72	21
C 51 2_4.5	4.5	6.3	—	—	9.2	25	71	68	17
C 51 2_5.6	5.6	4.1	—	—	7.0	23	69	66	15
C 51 2_7.0	7.0	8.1	—	—	11	27	73	70	19
C 51 2_7.8	7.8	7.8	—	—	11	27	73	70	18
C 51 2_8.8	8.8	6.0	—	—	8.9	25	71	68	17
C 51 2_9.8	9.8	5.8	—	—	8.7	25	71	68	16
C 51 2_11.8	11.8	4.1	—	—	7.0	23	69	66	15
C 51 2_13.1	13.1	4.0	—	—	6.9	23	69	66	15
C 51 2_15.0	15.0	2.7	—	—	5.6	22	68	65	13
C 51 2_16.6	16.6	2.6	—	—	5.5	22	68	65	13
C 51 2_18.9	18.9	2.0	3.5	3.5	4.9	21	67	64	13
C 51 2_21.0	21.0	1.9	3.4	3.4	4.8	21	67	64	12
C 51 2_23.4	23.4	1.5	3.0	3.0	4.4	20	66	63	12
C 51 2_25.9	25.9	1.4	2.9	2.9	4.3	20	66	63	12
C 51 2_29.8	29.8	0.90	2.4	2.4	3.8	20	66	63	11
C 51 2_33.0	33.0	0.90	2.4	2.4	3.8	20	66	63	11
C 51 2_36.4	36.4	0.70	2.2	2.2	3.6	20	66	63	11
C 51 2_40.4	40.4	0.70	2.2	2.2	3.6	20	66	63	11
C 51 2_43.1	43.1	0.50	2.0	2.0	3.4	—	—	—	11
C 51 2_47.8	47.8	0.50	2.0	2.0	3.4	—	—	—	11
C 51 2_51.4	51.4	0.40	1.9	1.9	3.3	—	—	—	11
C 51 2_57.0	57.0	0.40	1.9	1.9	3.3	—	—	—	11
C 51 3_21.8	21.8	6.8	—	—	9.7	26	72	69	17
C 51 3_23.9	23.9	6.8	—	—	9.7	26	72	69	17
C 51 3_27.4	27.4	5.2	—	—	8.1	24	70	67	16
C 51 3_30.1	30.1	5.2	—	—	8.1	24	70	67	16
C 51 3_37.0	37.0	3.6	—	—	6.5	23	69	66	14
C 51 3_40.5	40.5	3.6	—	—	6.5	23	69	66	14
C 51 3_46.7	46.7	2.4	—	—	5.3	21	67	64	13
C 51 3_51.2	51.2	2.4	—	—	5.3	21	67	64	13
C 51 3_59.0	59.0	1.8	3.3	3.3	4.7	21	67	64	12
C 51 3_64.6	64.6	1.8	3.3	3.3	4.7	21	67	64	12
C 51 3_72.9	72.9	1.3	2.8	2.8	4.2	20	66	63	12
C 51 3_79.9	79.9	1.3	2.8	2.8	4.2	20	66	63	12
C 51 3_93.0	93.0	0.80	2.3	2.3	3.7	20	66	63	11
C 51 3_101.8	101.8	0.80	2.3	2.3	3.7	20	66	63	11
C 51 3_113.6	113.6	0.60	2.1	2.1	3.5	20	66	63	11
C 51 3_124.4	124.4	0.60	2.1	2.1	3.5	20	66	63	11
C 51 3_134.6	134.6	0.50	2.0	2.0	3.4	—	—	—	11
C 51 3_147.4	147.4	0.50	2.0	2.0	3.4	—	—	—	11
C 51 3_160.5	160.5	0.40	1.9	1.9	3.3	—	—	—	11
C 51 3_175.8	175.8	0.40	1.9	1.9	3.3	—	—	—	11
C 51 3_197.9	197.9	0.30	1.8	1.8	3.2	—	—	—	11
C 51 3_216.7	216.7	0.30	1.8	1.8	3.2	—	—	—	11
C 51 4_240.9	240.9	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_263.8	263.8	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_297.8	297.8	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_326.1	326.1	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_380.0	380.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_416.0	416.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_463.9	463.9	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_508.0	508.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_549.7	549.7	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_602.0	602.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_655.4	655.4	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_717.7	717.7	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_808.0	808.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_884.9	884.9	0.20	1.7	1.7	3.1	—	—	—	1.1

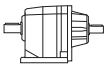


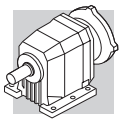
C 51

	i	J (•10-4) [kgm2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 51 2_2.6	2.6	—	—	—	—	17	18	17	18	32	34	33	38
C 51 2_3.3	3.3	—	—	—	—	13	14	13	14	27	29	29	34
C 51 2_4.5	4.5	—	—	—	—	9.2	9.7	9.1	10	23	26	25	30
C 51 2_5.6	5.6	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_7.0	7.0	—	—	—	—	11	12	11	12	25	28	27	32
C 51 2_7.8	7.8	—	—	—	—	11	12	11	12	25	27	27	32
C 51 2_8.8	8.8	—	—	—	—	8.9	9.4	8.8	9.8	23	25	25	30
C 51 2_9.8	9.8	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 51 2_11.8	11.8	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_13.1	13.1	—	—	—	—	6.9	7.4	6.8	7.8	21	23	23	28
C 51 2_15.0	15.0	—	—	—	—	5.6	6.1	5.5	6.5	20	22	22	27
C 51 2_16.6	16.6	—	—	—	—	5.5	6.0	5.4	6.4	20	22	22	27
C 51 2_18.9	18.9	4.8	5.3	4.8	5.3	4.9	5.4	4.8	5.8	19	21	21	26
C 51 2_21.0	21.0	4.7	5.2	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 51 2_23.4	23.4	4.3	4.8	4.3	4.8	4.4	4.3	4.3	5.3	18	21	20	25
C 51 2_25.9	25.9	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	18	21	20	25
C 51 2_29.8	29.8	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_33.0	33.0	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_36.4	36.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_40.4	40.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_43.1	43.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_47.8	47.8	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_51.4	51.4	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 2_57.0	57.0	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_21.8	21.8	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_23.9	23.9	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_27.4	27.4	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_30.1	30.1	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_37.0	37.0	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_40.5	40.5	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_46.7	46.7	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_51.2	51.2	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_59.0	59.0	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_64.6	64.6	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_72.9	72.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_79.9	79.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_93.0	93.0	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_101.8	101.8	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_113.6	113.6	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_124.4	124.4	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_134.6	134.6	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_147.4	147.4	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_160.5	160.5	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_175.8	175.8	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_197.9	197.9	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 3_216.7	216.7	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_240.9	240.9	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_263.8	263.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_297.8	297.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_326.1	326.1	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_380.0	380.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_416.0	416.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_463.9	463.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_508.0	508.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_549.7	549.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_602.0	602.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_655.4	655.4	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_717.7	717.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_808.0	808.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_884.9	884.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—

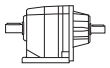


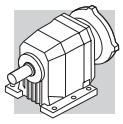
C 61

	i	J (•10-4) [kgm2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
C 61 2_2.8	2.8	30	—	—	—	—	—	—	49	78	76	52
C 61 2_3.7	3.7	19	—	—	22	22	23	23	38	78	76	41
C 61 2_4.6	4.6	14	—	—	17	17	18	18	33	78	76	36
C 61 2_6.0	6.0	8.8	—	—	12	12	13	13	28	78	76	31
C 61 2_6.7	6.7	14	—	—	—	—	—	—	33	78	76	36
C 61 2_7.5	7.5	13	—	—	—	—	—	—	32	78	76	35
C 61 2_8.8	8.8	13	—	—	16	16	17	17	32	78	76	35
C 61 2_9.8	9.8	12	—	—	15	15	16	16	31	78	76	34
C 61 2_10.9	10.9	9.6	—	—	13	12	14	14	29	78	76	31
C 61 2_12.1	12.1	9.2	—	—	12	12	13	13	28	78	76	31
C 61 2_14.3	14.3	5.8	—	—	8.7	8.6	9.9	9.9	25	78	76	28
C 61 2_15.9	15.9	5.6	—	—	8.5	8.4	9.7	9.7	25	78	76	27
C 61 2_17.7	17.7	4.4	—	—	7.3	7.2	8.5	8.5	23	78	76	26
C 61 2_19.6	19.6	4.3	—	—	7.2	7.1	8.4	8.4	23	78	76	26
C 61 2_22.4	22.4	3.2	4.7	4.7	6.1	6.0	7.3	7.3	22	78	76	25
C 61 2_24.8	24.8	3.1	4.6	4.6	6.0	5.9	7.2	7.2	22	78	76	25
C 61 2_27.4	27.4	2.1	3.6	3.6	5.0	4.9	6.2	6.2	21	78	76	24
C 61 2_30.4	30.4	2.2	3.7	3.7	5.1	5.0	6.3	6.3	21	78	76	24
C 61 2_34.2	34.2	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 2_38.0	38.0	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 3_26.8	26.8	10	—	—	13	13	14	14	29	78	76	32
C 61 3_29.4	29.4	10	—	—	13	13	14	14	29	78	76	32
C 61 3_33.0	33.0	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_36.1	36.1	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_43.4	43.4	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_47.6	47.6	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_53.5	53.5	3.9	—	—	6.8	6.7	8.0	8.0	23	78	76	26
C 61 3_58.6	58.6	3.8	—	—	6.7	6.6	7.9	7.9	23	78	76	26
C 61 3_67.7	67.7	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_74.2	74.2	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_83.0	83.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_91.0	91.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_103.6	103.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_113.6	113.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_128.1	128.1	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_140.5	140.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_150.0	150.0	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_164.5	164.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_178.6	178.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 3_195.8	195.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 4_217.4	217.4	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_238.3	238.3	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_275.3	275.3	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_301.7	301.7	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_337.7	337.7	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_370.1	370.1	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_421.5	421.5	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_462.0	462.0	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_521.1	521.1	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_571.2	571.2	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_610.1	610.1	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_668.8	668.8	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_726.3	726.3	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_796.1	796.1	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11



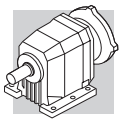
C 61

	i	J (•10-4) [kgm2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 61 2_2.8	2.8	30	—	—	—	49	78	76	52
C 61 2_3.7	3.7	19	—	—	22	38	78	76	41
C 61 2_4.6	4.6	14	—	—	17	33	78	76	36
C 61 2_6.0	6.0	8.8	—	—	12	28	78	76	31
C 61 2_6.7	6.7	14	—	—	—	33	78	76	36
C 61 2_7.5	7.5	13	—	—	—	32	78	76	35
C 61 2_8.8	8.8	13	—	—	16	32	78	76	35
C 61 2_9.8	9.8	12	—	—	15	31	78	76	34
C 61 2_10.9	10.9	9.6	—	—	13	29	78	76	31
C 61 2_12.1	12.1	9.2	—	—	12	28	78	76	31
C 61 2_14.3	14.3	5.8	—	—	8.7	25	78	76	28
C 61 2_15.9	15.9	5.6	—	—	8.5	25	78	76	27
C 61 2_17.7	17.7	4.4	—	—	7.3	23	78	76	26
C 61 2_19.6	19.6	4.3	—	—	7.2	23	78	76	26
C 61 2_22.4	22.4	3.2	4.7	4.7	6.1	22	78	76	25
C 61 2_24.8	24.8	3.1	4.6	4.6	6.0	22	78	76	25
C 61 2_27.4	27.4	2.1	3.6	3.6	5.0	21	78	76	24
C 61 2_30.4	30.4	2.2	3.7	3.7	5.1	21	78	76	24
C 61 2_34.2	34.2	1.5	3.0	3.0	4.4	20	78	76	23
C 61 2_38.0	38.0	1.5	3.0	3.0	4.4	20	78	76	23
C 61 3_26.8	26.8	10	—	—	13	29	78	76	32
C 61 3_29.4	29.4	10	—	—	13	29	78	76	32
C 61 3_33.0	33.0	8.1	—	—	11	27	78	76	30
C 61 3_36.1	36.1	8.1	—	—	11	27	78	76	30
C 61 3_43.4	43.4	5.0	—	—	7.9	24	78	76	27
C 61 3_47.6	47.6	5.0	—	—	7.9	24	78	76	27
C 61 3_53.5	53.5	3.9	—	—	6.8	23	78	76	26
C 61 3_58.6	58.6	3.8	—	—	6.7	23	78	76	26
C 61 3_67.7	67.7	2.8	4.3	4.3	5.7	22	78	76	25
C 61 3_74.2	74.2	2.8	4.3	4.3	5.7	22	78	76	25
C 61 3_83.0	83.0	1.9	3.4	3.4	4.8	21	78	76	24
C 61 3_91.0	91.0	1.9	3.4	3.4	4.8	21	78	76	24
C 61 3_103.6	103.6	1.3	2.8	2.8	4.2	20	78	76	23
C 61 3_113.6	113.6	1.3	2.8	2.8	4.2	20	78	76	23
C 61 3_128.1	128.1	1.0	2.5	2.5	3.9	20	78	76	23
C 61 3_140.5	140.5	1.0	2.5	2.5	3.9	20	78	76	23
C 61 3_150.0	150.0	0.70	2.2	2.2	3.6	—	—	—	23
C 61 3_164.5	164.5	0.70	2.2	2.2	3.6	—	—	—	23
C 61 3_178.6	178.6	0.60	2.1	2.1	3.5	—	—	—	22
C 61 3_195.8	195.8	0.60	2.1	2.1	3.5	—	—	—	22
C 61 4_217.4	217.4	0.67	2.2	2.2	3.6	—	—	—	11
C 61 4_238.3	238.3	0.67	2.2	2.2	3.6	—	—	—	11
C 61 4_275.3	275.3	0.81	2.3	2.3	3.7	—	—	—	11
C 61 4_301.7	301.7	0.81	2.3	2.3	3.7	—	—	—	11
C 61 4_337.7	337.7	0.56	2.1	2.1	3.5	—	—	—	11
C 61 4_370.1	370.1	0.56	2.1	2.1	3.5	—	—	—	11
C 61 4_421.5	421.5	0.53	2.0	2.0	3.4	—	—	—	11
C 61 4_462.0	462.0	0.53	2.0	2.0	3.4	—	—	—	11
C 61 4_521.1	521.1	0.51	2.0	2.0	3.4	—	—	—	11
C 61 4_571.2	571.2	0.51	2.0	2.0	3.4	—	—	—	11
C 61 4_610.1	610.1	0.49	2.0	2.0	3.4	—	—	—	11
C 61 4_668.8	668.8	0.49	2.0	2.0	3.4	—	—	—	11
C 61 4_726.3	726.3	0.48	2.0	2.0	3.4	—	—	—	11
C 61 4_796.1	796.1	0.48	2.0	2.0	3.4	—	—	—	11



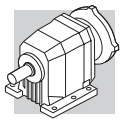
C 61

	i	J (•10-4) [kgm2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 61 2_2.8	2.8	—	—	—	—	—	—	—	—	47	49	49	54
C 61 2_3.7	3.7	—	—	—	—	22	23	22	23	36	38	38	43
C 61 2_4.6	4.6	—	—	—	—	17	18	17	18	31	33	33	38
C 61 2_6.0	6.0	—	—	—	—	12	13	12	13	26	28	28	33
C 61 2_6.7	6.7	—	—	—	—	—	—	—	—	31	33	33	38
C 61 2_7.5	7.5	—	—	—	—	—	—	—	—	30	32	32	37
C 61 2_8.8	8.8	—	—	—	—	16	17	16	17	30	32	32	37
C 61 2_9.8	9.8	—	—	—	—	15	16	15	16	23	31	31	36
C 61 2_10.9	10.9	—	—	—	—	13	14	12	13	27	29	29	34
C 61 2_12.1	12.1	—	—	—	—	12	13	12	13	26	29	28	33
C 61 2_14.3	14.3	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 61 2_15.9	15.9	—	—	—	—	8.5	9.0	8.4	9.4	23	25	25	30
C 61 2_17.7	17.7	—	—	—	—	7.3	7.8	7.2	8.2	21	24	23	28
C 61 2_19.6	19.6	—	—	—	—	7.2	7.7	7.1	8.1	21	24	23	28
C 61 2_22.4	22.4	—	—	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
C 61 2_24.8	24.8	—	—	5.9	6.4	6.0	6.5	5.9	6.9	20	23	22	27
C 61 2_27.4	27.4	—	—	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
C 61 2_30.4	30.4	—	—	5.0	5.5	5.1	5.6	5.0	6.0	19	22	21	26
C 61 2_34.2	34.2	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 2_38.0	38.0	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 3_26.8	26.8	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_29.4	29.4	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_33.0	33.0	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_36.1	36.1	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_43.4	43.4	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_47.6	47.6	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_53.5	53.5	—	—	—	—	6.8	7.3	6.7	7.7	21	23	23	28
C 61 3_58.6	58.6	—	—	—	—	6.7	7.2	6.6	7.6	21	23	23	28
C 61 3_67.7	67.7	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_74.2	74.2	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_83.0	83.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_91.0	91.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_103.6	103.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_113.6	113.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_128.1	128.1	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_140.5	140.5	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_150.0	150.0	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_164.5	164.5	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_178.6	178.6	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 3_195.8	195.8	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_217.4	217.4	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_238.3	238.3	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_275.3	275.3	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_301.7	301.7	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_337.7	337.7	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_370.1	370.1	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_421.5	421.5	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_462.0	462.0	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_521.1	521.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_571.2	571.2	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_610.1	610.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_668.8	668.8	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_726.3	726.3	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_796.1	796.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—

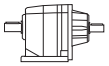


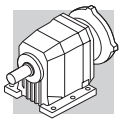
C 70

	i	J (•10-4) [kgm2]													
			IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 70 2_4.6	4.6	—	—	—	—	—	—	—	136	133	143	—	—	—	99
C 70 2_5.9	5.9	—	—	—	—	—	—	—	119	117	126	—	—	—	32
C 70 2_6.3	6.3	—	—	—	—	—	—	—	129	127	136	—	—	—	93
C 70 2_7.5	7.5	26	—	—	—	—	—	45	105	102	112	—	—	—	68
C 70 2_8.0	8.0	—	—	—	—	—	—	—	115	113	122	—	—	—	78
C 70 2_9.5	9.5	19	—	—	—	—	—	38	97	95	—	—	—	—	60
C 70 2_10.2	10.2	24	—	—	—	—	—	43	102	100	109	—	—	—	65
C 70 2_11.2	11.2	15	—	—	—	—	—	34	94	91	—	—	—	—	56
C 70 2_13.0	13.0	17	—	—	—	—	—	36	95	93	—	—	—	—	58
C 70 2_14.1	14.1	9.9	—	—	12	12	14	29	88	86	—	—	—	—	51
C 70 2_15.3	15.3	14	—	—	—	—	—	33	93	90	—	—	—	—	55
C 70 2_16.7	16.7	6.9	—	—	9.5	9.4	11	26	85	83	—	—	—	—	48
C 70 2_19.3	19.3	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 70 2_22.9	22.9	6.4	—	—	9.0	8.9	10	25	85	83	—	—	—	—	48
C 70 2_27.7	27.7	5.2	—	—	8.0	7.9	9.2	24	84	81	—	—	—	—	46
C 70 2_34.7	34.7	3.2	—	—	6.1	6.0	7.3	22	82	79	—	—	—	—	44
C 70 3_41.3	41.3	4.4	—	—	7.2	7.2	8.5	23	83	80	—	—	—	—	46
C 70 3_44.7	44.7	4.2	—	—	7.0	7.0	8.2	23	83	80	—	—	—	—	45
C 70 3_52.2	52.2	3.0	—	—	5.8	5.8	7.0	22	81	79	—	—	—	—	44
C 70 3_56.5	56.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	—	44
C 70 3_65.9	65.9	2.0	—	—	4.9	4.8	6.1	21	80	78	—	—	—	—	43
C 70 3_71.3	71.3	2.0	—	—	4.8	4.8	6.0	21	80	78	—	—	—	—	43
C 70 3_81.4	81.4	1.5	—	—	4.3	4.3	5.6	20	80	78	—	—	—	—	43
C 70 3_88.2	88.2	1.4	—	—	4.3	4.2	5.5	20	80	76	—	—	—	—	43
C 70 3_103.8	103.8	1.0	—	—	3.8	3.8	5.1	20	79	77	—	—	—	—	42
C 70 3_112.4	112.4	0.90	—	—	3.8	3.7	5.0	20	79	77	—	—	—	—	42
C 70 3_126.8	126.8	0.70	—	—	3.5	3.5	4.8	20	79	77	—	—	—	—	42
C 70 3_137.4	137.4	0.70	—	—	3.5	3.5	4.7	20	79	77	—	—	—	—	42
C 70 3_150.3	150.3	0.50	—	—	3.4	3.4	9.6	—	—	—	—	—	—	—	42
C 70 3_162.8	162.8	0.50	—	—	3.4	3.4	4.6	—	—	—	—	—	—	—	42
C 70 3_179.2	179.2	0.40	—	—	3.2	3.3	4.5	—	—	—	—	—	—	—	42
C 70 3_194.1	194.1	0.40	—	—	3.2	3.2	4.5	—	—	—	—	—	—	—	42
C 70 3_220.9	220.9	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	—	41
C 70 3_239.3	239.3	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	—	41
C 70 4_251.3	251.3	0.70	2.2	2.2	3.5	3.5	4.8	20	—	—	—	—	—	—	11
C 70 4_272.2	272.2	0.70	2.2	2.1	3.5	3.5	4.8	20	—	—	—	—	—	—	11
C 70 4_317.9	317.9	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 70 4_344.3	344.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 70 4_409.4	409.4	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	—	7.9
C 70 4_443.5	443.5	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	—	7.9
C 70 4_512.0	512.0	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	—	7.8
C 70 4_554.7	554.7	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	—	7.8
C 70 4_606.8	606.8	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	7.8
C 70 4_657.3	657.3	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	7.7
C 70 4_736.0	736.0	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	—	7.7
C 70 4_797.3	797.3	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	—	7.7
C 70 4_922.6	922.6	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	7.7
C 70 4_999.5	999.5	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1069	1069	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1158	1158	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1362	1362	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	—	7.6
C 70 4_1476	1476	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	—	7.6



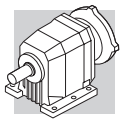
C 70

	i	J (•10-4) [kgm2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 70 2_4.6	4.6	—	—	—	—	—	136	133	99
C 70 2_5.9	5.9	—	—	—	—	—	119	117	32
C 70 2_6.3	6.3	—	—	—	—	—	129	127	93
C 70 2_7.5	7.5	26	—	—	—	45	105	102	68
C 70 2_8.0	8.0	—	—	—	—	—	115	113	78
C 70 2_9.5	9.5	19	—	—	—	38	97	95	60
C 70 2_10.2	10.2	24	—	—	—	43	102	100	65
C 70 2_11.2	11.2	15	—	—	—	34	94	91	56
C 70 2_13.0	13.0	17	—	—	—	36	95	93	58
C 70 2_14.1	14.1	9.9	—	—	12	29	88	86	51
C 70 2_15.3	15.3	14	—	—	—	33	93	90	55
C 70 2_16.7	16.7	6.9	—	—	9.5	26	85	83	48
C 70 2_19.3	19.3	9.1	—	—	12	28	87	85	50
C 70 2_22.9	22.9	6.4	—	—	9.0	25	85	83	48
C 70 2_27.7	27.7	5.2	—	—	8.0	24	84	81	46
C 70 2_34.7	34.7	3.2	—	—	6.1	22	82	79	44
C 70 3_41.3	41.3	4.4	—	—	7.2	23	83	80	46
C 70 3_44.7	44.7	4.2	—	—	7.0	23	83	80	45
C 70 3_52.2	52.2	3.0	—	—	5.8	22	81	79	44
C 70 3_56.5	56.5	2.8	—	—	5.7	22	81	79	44
C 70 3_65.9	65.9	2.0	—	—	4.9	21	80	78	43
C 70 3_71.3	71.3	2.0	—	—	4.8	21	80	78	43
C 70 3_81.4	81.4	1.5	—	—	4.3	20	80	78	43
C 70 3_88.2	88.2	1.4	—	—	4.3	20	80	76	43
C 70 3_103.8	103.8	1.0	—	—	3.8	20	79	77	42
C 70 3_112.4	112.4	0.90	—	—	3.8	20	79	77	42
C 70 3_126.8	126.8	0.70	—	—	3.5	20	79	77	42
C 70 3_137.4	137.4	0.70	—	—	3.5	20	79	77	42
C 70 3_150.3	150.3	0.50	—	—	3.4	—	—	—	42
C 70 3_162.8	162.8	0.50	—	—	3.4	—	—	—	42
C 70 3_179.2	179.2	0.40	—	—	3.2	—	—	—	42
C 70 3_194.1	194.1	0.40	—	—	3.2	—	—	—	42
C 70 3_220.9	220.9	0.30	—	—	3.1	—	—	—	41
C 70 3_239.3	239.3	0.30	—	—	3.1	—	—	—	41
C 70 4_251.3	251.3	0.70	2.2	2.2	3.5	20	—	—	11
C 70 4_272.2	272.2	0.70	2.2	2.2	3.5	20	—	—	11
C 70 4_317.9	317.9	0.50	2.0	2.0	3.4	19	—	—	11
C 70 4_344.3	344.3	0.50	2.0	2.0	3.4	19	—	—	11
C 70 4_409.4	409.4	0.40	1.8	1.8	3.2	19	—	—	7.9
C 70 4_443.5	443.5	0.40	1.8	1.8	3.2	19	—	—	7.9
C 70 4_512.0	512.0	0.30	1.7	1.7	3.1	19	—	—	7.8
C 70 4_554.7	554.7	0.30	1.7	1.7	3.1	19	—	—	7.8
C 70 4_606.8	606.8	0.20	1.7	1.7	3.1	—	—	—	7.8
C 70 4_657.3	657.3	0.20	1.7	1.7	3.1	—	—	—	7.7
C 70 4_736.0	736.0	0.20	1.6	1.6	3.0	—	—	—	7.7
C 70 4_797.3	797.3	0.20	1.6	1.6	3.0	—	—	—	7.7
C 70 4_922.6	922.6	0.10	1.6	1.6	3.0	—	—	—	7.7
C 70 4_999.5	999.5	0.10	1.6	1.6	3.0	—	—	—	7.6
C 70 4_1069	1069	0.80	1.6	1.6	2.9	—	—	—	7.6
C 70 4_1158	1158	0.80	1.6	1.6	2.9	—	—	—	7.6
C 70 4_1362	1362	0.60	1.5	1.5	2.9	—	—	—	7.6
C 70 4_1476	1476	0.60	1.5	1.5	2.9	—	—	—	7.6

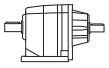


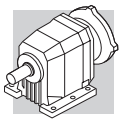
C 80

	i	J (•10-4) [kgm2]													
			IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 80 2_5.6	5.6	—	—	—	—	—	—	—	—	197	211	489	—	—	164
C 80 2_6.1	6.1	—	—	—	—	—	—	—	—	193	210	485	—	—	159
C 80 2_7.0	7.0	—	—	—	—	—	—	—	160	161	174	452	—	—	127
C 80 2_7.6	7.6	—	—	—	—	—	—	—	158	158	172	449	—	—	124
C 80 2_8.9	8.9	—	—	—	—	—	—	—	137	135	146	429	—	—	101
C 80 2_9.6	9.6	—	—	—	—	—	—	—	136	133	144	427	—	—	99
C 80 2_11.1	11.1	38	—	—	—	—	—	56	116	113	124	408	—	—	79
C 80 2_12.0	12.0	36	—	—	—	—	—	55	115	112	123	407	—	—	78
C 80 2_13.8	13.8	28	—	—	—	—	—	47	106	104	135	398	—	—	69
C 80 2_14.9	14.9	27	—	—	—	—	—	46	106	103	134	397	—	—	69
C 80 2_16.7	16.7	21	—	—	—	—	—	40	100	97	127	391	—	—	63
C 80 2_18.1	18.1	21	—	—	—	—	—	40	99	97	127	390	—	—	62
C 80 2_20.5	20.5	14	—	—	17	17	18	33	93	90	120	383	—	—	55
C 80 2_22.2	22.2	14	—	—	16	16	18	33	92	90	120	383	—	—	55
C 80 2_24.0	24.0	13	—	—	16	16	17	32	91	89	119	382	—	—	54
C 80 2_25.9	25.9	13	—	—	16	15	17	32	91	89	118	382	—	—	54
C 80 2_31.3	31.3	8.7	—	—	12	11	13	28	87	85	—	—	—	—	50
C 80 2_39.1	39.1	5.2	—	—	8.0	8.0	9.2	24	84	81	—	—	—	—	46
C 80 3_43.5	43.5	9.6	—	—	12	12	14	29	88	86	—	—	—	—	51
C 80 3_47.4	47.4	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 80 3_57.3	57.3	5.7	—	—	8.5	8.5	9.7	25	84	82	—	—	—	—	47
C 80 3_62.5	62.5	5.4	—	—	8.2	8.2	9.5	24	84	82	—	—	—	—	47
C 80 3_70.5	70.5	4.3	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	45
C 80 3_76.9	76.9	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	45
C 80 3_89.3	89.3	3.0	—	—	5.9	5.8	7.1	22	81	79	—	—	—	—	44
C 80 3_97.4	97.4	2.9	—	—	5.8	5.7	7.0	22	81	79	—	—	—	—	44
C 80 3_109.5	109.5	2.0	—	—	4.8	4.8	6.1	21	80	78	—	—	—	—	43
C 80 3_119.5	119.5	1.9	—	—	4.8	4.7	6.0	21	80	79	—	—	—	—	43
C 80 3_136.7	136.7	1.4	—	—	4.3	4.2	5.5	20	80	78	—	—	—	—	43
C 80 3_149.1	149.1	1.4	—	—	4.2	4.2	5.5	20	80	77	—	—	—	—	43
C 80 3_169.0	169.0	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_184.4	184.4	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_197.9	197.9	0.80	—	—	3.7	3.6	4.9	—	—	—	—	—	—	—	42
C 80 3_215.8	215.8	0.80	—	—	3.6	3.6	4.9	—	—	—	—	—	—	—	42
C 80 4_261.9	261.9	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_285.7	285.7	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_334.3	334.3	1.2	2.7	2.7	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_364.7	364.7	1.2	2.7	2.6	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_417.5	417.5	0.90	2.4	2.3	3.7	3.7	5.0	20	—	—	—	—	—	—	11
C 80 4_455.4	455.4	0.90	2.3	2.3	3.7	3.7	5.5	20	—	—	—	—	—	—	11
C 80 4_529.3	529.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_577.4	577.4	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_664.3	664.3	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_724.7	724.7	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_783.4	783.4	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_854.6	854.6	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_945.7	945.7	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1032	1032	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1168	1168	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1274	1274	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1358	1358	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1481	1481	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2



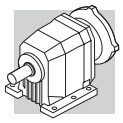
C 80

	i	J (•10-4) [kgm2]								
			NEMA							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 80 2_5.6	5.6	—	—	—	—	—	—	197	489	164
C 80 2_6.1	6.1	—	—	—	—	—	—	193	485	159
C 80 2_7.0	7.0	—	—	—	—	—	160	161	452	127
C 80 2_7.6	7.6	—	—	—	—	—	158	158	449	124
C 80 2_8.9	8.9	—	—	—	—	—	137	135	429	101
C 80 2_9.6	9.6	—	—	—	—	—	136	133	427	99
C 80 2_11.1	11.1	38	—	—	—	56	116	113	408	79
C 80 2_12.0	12.0	36	—	—	—	55	115	112	407	78
C 80 2_13.8	13.8	28	—	—	—	47	106	104	398	69
C 80 2_14.9	14.9	27	—	—	—	46	106	103	397	69
C 80 2_16.7	16.7	21	—	—	—	40	100	97	391	63
C 80 2_18.1	18.1	21	—	—	—	40	99	97	390	62
C 80 2_20.5	20.5	14	—	—	17	33	93	90	383	55
C 80 2_22.2	22.2	14	—	—	16	33	92	90	383	55
C 80 2_24.0	24.0	13	—	—	16	32	91	89	382	54
C 80 2_25.9	25.9	13	—	—	16	32	91	89	382	54
C 80 2_31.3	31.3	8.7	—	—	12	28	87	85	—	50
C 80 2_39.1	39.1	5.2	—	—	8.0	24	84	81	—	46
C 80 3_43.5	43.5	9.6	—	—	12	29	88	86	—	51
C 80 3_47.4	47.4	9.1	—	—	12	28	87	85	—	50
C 80 3_57.3	57.3	5.7	—	—	8.5	25	84	82	—	47
C 80 3_62.5	62.5	5.4	—	—	8.2	24	84	82	—	47
C 80 3_70.5	70.5	4.3	—	—	7.1	23	83	80	—	45
C 80 3_76.9	76.9	4.1	—	—	7.0	23	82	80	—	45
C 80 3_89.3	89.3	3.0	—	—	5.9	22	81	79	—	44
C 80 3_97.4	97.4	2.9	—	—	5.8	22	81	79	—	44
C 80 3_109.5	109.5	2.0	—	—	4.8	21	80	78	—	43
C 80 3_119.5	119.5	1.9	—	—	4.8	21	80	79	—	43
C 80 3_136.7	136.7	1.4	—	—	4.3	20	80	78	—	43
C 80 3_149.1	149.1	1.4	—	—	4.2	20	80	77	—	43
C 80 3_169.0	169.0	1.0	—	—	3.9	20	80	77	—	42
C 80 3_184.4	184.4	1.0	—	—	3.9	20	80	77	—	42
C 80 3_197.9	197.9	0.80	—	—	3.7	—	—	—	—	42
C 80 3_215.8	215.8	0.80	—	—	3.6	—	—	—	—	42
C 80 4_261.9	261.9	1.7	—	—	4.6	21	—	—	—	12
C 80 4_285.7	285.7	1.7	—	—	4.6	21	—	—	—	12
C 80 4_334.3	334.3	1.2	2.7	2.7	4.0	20	—	—	—	11
C 80 4_364.7	364.7	1.2	2.7	2.7	4.0	20	—	—	—	11
C 80 4_417.5	417.5	0.90	2.4	2.4	3.7	20	—	—	—	11
C 80 4_455.4	455.4	0.90	2.3	2.3	3.7	20	—	—	—	11
C 80 4_529.3	529.3	0.50	2.0	2.0	3.4	19	—	—	—	11
C 80 4_577.4	577.4	0.50	2.0	2.0	3.4	19	—	—	—	11
C 80 4_664.3	664.3	0.40	2.0	2.0	3.3	19	—	—	—	11
C 80 4_724.7	724.7	0.40	2.0	2.0	3.3	19	—	—	—	11
C 80 4_783.4	783.4	0.30	2.0	2.0	3.2	—	—	—	—	9.4
C 80 4_854.6	854.6	0.30	2.0	2.0	3.2	—	—	—	—	9.4
C 80 4_945.7	945.7	0.20	1.7	1.7	3.1	—	—	—	—	9.3
C 80 4_1032	1032	0.20	1.7	1.7	3.1	—	—	—	—	9.3
C 80 4_1168	1168	0.20	1.6	1.6	3.0	—	—	—	—	9.2
C 80 4_1274	1274	0.20	1.6	1.6	3.0	—	—	—	—	9.2
C 80 4_1358	1358	0.10	1.6	1.6	3.0	—	—	—	—	9.2
C 80 4_1481	1481	0.10	1.6	1.6	3.0	—	—	—	—	9.2

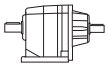


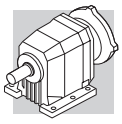
C 90

	i	J (•10-4) [kgm2]													
			IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 90 2_5.2	5.2	—	—	—	—	—	—	—	—	—	332	610	637	—	619
C 90 2_5.6	5.6	—	—	—	—	—	—	—	—	—	321	599	626	—	609
C 90 2_6.8	6.8	—	—	—	—	—	—	—	—	—	252	530	557	—	540
C 90 2_7.3	7.3	—	—	—	—	—	—	—	—	—	246	524	551	—	533
C 90 2_8.3	8.3	—	—	—	—	—	—	—	—	—	212	490	517	—	499
C 90 2_9.0	9.0	—	—	—	—	—	—	—	—	—	208	485	513	—	495
C 90 2_10.4	10.4	—	—	—	—	—	—	—	167	164	175	458	484	—	461
C 90 2_11.2	11.2	—	—	—	—	—	—	—	164	162	173	455	482	—	458
C 90 2_12.8	12.8	65	—	—	—	—	—	84	143	141	152	436	462	—	439
C 90 2_13.9	13.9	63	—	—	—	—	—	82	141	139	200	434	460	—	437
C 90 2_16.0	16.0	47	—	—	—	—	—	66	125	123	154	417	443	—	420
C 90 2_17.3	17.3	46	—	—	—	—	—	65	124	122	153	416	442	—	419
C 90 2_18.7	18.7	42	—	—	—	—	—	61	121	119	148	412	433	—	415
C 90 2_20.2	20.2	41	—	—	—	—	—	61	199	118	147	411	438	—	414
C 90 2_22.9	22.9	28	—	—	30	30	31	47	106	104	133	397	423	—	400
C 90 2_24.8	24.8	27	—	—	29	29	31	46	105	103	133	396	422	—	399
C 90 2_27.2	27.2	22	—	—	25	25	26	41	101	99	128	391	418	—	394
C 90 2_29.4	29.4	22	—	—	25	24	26	41	100	98	127	391	417	—	394
C 90 2_35.1	35.1	14	—	—	17	17	18	33	93	90	—	—	—	—	386
C 90 3_39.4	39.4	27	—	—	—	—	—	46	105	103	112	398	424	—	412
C 90 3_43.0	43.0	26	—	—	—	—	—	45	104	102	111	396	422	—	410
C 90 3_50.3	50.3	19	—	—	—	—	—	38	98	95	126	389	415	—	403
C 90 3_54.9	54.9	19	—	—	—	—	—	37	97	95	125	389	415	—	401
C 90 3_59.2	59.2	16	—	—	—	—	—	35	94	92	122	385	411	—	398
C 90 3_64.6	64.6	15	—	—	—	—	—	34	94	91	121	384	410	—	398
C 90 3_74.4	74.4	10	—	—	13	13	14	29	88	86	116	379	405	—	393
C 90 3_81.2	81.2	9.8	—	—	12	12	13	29	88	86	115	379	405	—	392
C 90 3_88.2	88.2	7.1	—	—	9.7	9.6	11	26	85	83	113	376	402	—	389
C 90 3_96.2	96.2	6.9	—	—	9.4	9.4	11	26	85	83	112	376	402	—	389
C 90 3_107.0	107.0	5.7	—	—	8.4	8.4	9.6	25	84	82	—	—	—	—	388
C 90 3_116.7	116.7	5.5	—	—	8.3	8.2	9.5	24	84	82	—	—	—	—	388
C 90 3_134.1	134.1	3.5	—	—	6.4	6.3	7.6	22	82	80	—	—	—	—	386
C 90 3_146.3	146.3	3.4	—	—	6.3	6.2	7.5	22	82	80	—	—	—	—	386
C 90 3_157.8	157.8	2.5	—	—	5.4	5.3	6.6	21	81	79	—	—	—	—	385
C 90 3_172.1	172.1	2.4	—	—	5.3	5.2	6.5	21	81	79	—	—	—	—	385
C 90 4_212.4	212.4	4.2	—	—	7.0	7.0	8.3	23	83	80	—	—	—	—	14
C 90 4_231.7	231.7	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	14
C 90 4_268.5	268.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	—	13
C 90 4_292.9	292.9	2.8	—	—	5.7	2.6	6.9	22	81	79	—	—	—	—	13
C 90 4_339.0	339.0	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	—	12
C 90 4_369.8	369.8	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	—	12
C 90 4_419.0	419.0	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	—	12
C 90 4_457.1	457.1	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	—	12
C 90 4_534.2	534.2	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	—	11
C 90 4_582.8	582.8	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	—	11
C 90 4_652.8	652.8	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	—	11
C 90 4_712.2	712.2	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	—	11
C 90 4_773.6	773.6	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	—	9.7
C 90 4_844.0	844.0	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	—	9.6
C 90 4_922.3	922.3	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	—	9.5
C 90 4_1006	1006	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	—	9.4
C 90 4_1137	1137	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 90 4_1240	1240	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3



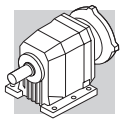
C 90

	i	J (•10-4) [kgm2]								
			NEMA							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 90 2_5.2	5.2	—	—	—	—	—	—	—	610	619
C 90 2_5.6	5.6	—	—	—	—	—	—	—	599	609
C 90 2_6.8	6.8	—	—	—	—	—	—	—	530	540
C 90 2_7.3	7.3	—	—	—	—	—	—	—	524	533
C 90 2_8.3	8.3	—	—	—	—	—	—	—	490	499
C 90 2_9.0	9.0	—	—	—	—	—	—	—	485	495
C 90 2_10.4	10.4	—	—	—	—	—	167	164	458	461
C 90 2_11.2	11.2	—	—	—	—	—	164	162	455	458
C 90 2_12.8	12.8	65	—	—	—	84	143	141	436	439
C 90 2_13.9	13.9	63	—	—	—	82	141	139	434	437
C 90 2_16.0	16.0	47	—	—	—	66	125	123	417	420
C 90 2_17.3	17.3	46	—	—	—	65	124	122	416	419
C 90 2_18.7	18.7	42	—	—	—	61	121	119	412	415
C 90 2_20.2	20.2	41	—	—	—	61	199	118	411	414
C 90 2_22.9	22.9	28	—	—	30	47	106	104	397	400
C 90 2_24.8	24.8	27	—	—	29	46	105	103	396	399
C 90 2_27.2	27.2	22	—	—	25	41	101	99	391	394
C 90 2_29.4	29.4	22	—	—	25	41	100	98	391	394
C 90 2_35.1	35.1	14	—	—	17	33	93	90	—	386
C 90 3_39.4	39.4	27	—	—	—	46	105	103	398	412
C 90 3_43.0	43.0	26	—	—	—	45	104	102	396	410
C 90 3_50.3	50.3	19	—	—	—	38	98	95	389	403
C 90 3_54.9	54.9	19	—	—	—	37	97	95	389	401
C 90 3_59.2	59.2	16	—	—	—	35	94	92	385	398
C 90 3_64.6	64.6	15	—	—	—	34	94	91	384	398
C 90 3_74.4	74.4	10	—	—	13	29	88	86	379	393
C 90 3_81.2	81.2	9.8	—	—	12	29	88	86	379	392
C 90 3_88.2	88.2	7.1	—	—	9.7	26	85	83	376	389
C 90 3_96.2	96.2	6.9	—	—	9.4	26	85	83	376	389
C 90 3_107.0	107.0	5.7	—	—	8.4	25	84	82	—	388
C 90 3_116.7	116.7	5.5	—	—	8.3	24	84	82	—	388
C 90 3_134.1	134.1	3.5	—	—	6.4	22	82	80	—	386
C 90 3_146.3	146.3	3.4	—	—	6.3	22	82	80	—	386
C 90 3_157.8	157.8	2.5	—	—	5.4	21	81	79	—	385
C 90 3_172.1	172.1	2.4	—	—	5.3	21	81	79	—	385
C 90 4_212.4	212.4	4.2	—	—	7.0	23	83	80	—	14
C 90 4_231.7	231.7	4.1	—	—	7.0	23	82	80	—	14
C 90 4_268.5	268.5	2.8	—	—	5.7	22	81	79	—	13
C 90 4_292.9	292.9	2.8	—	—	5.7	22	81	79	—	13
C 90 4_339.0	339.0	2.0	3.4	3.4	4.8	21	80	78	—	12
C 90 4_369.8	369.8	2.0	3.4	3.4	4.8	21	80	78	—	12
C 90 4_419.0	419.0	1.4	2.9	2.9	4.3	20	80	78	—	12
C 90 4_457.1	457.1	1.4	2.9	2.9	4.3	20	80	78	—	12
C 90 4_534.2	534.2	0.90	2.4	2.4	3.8	20	79	77	—	11
C 90 4_582.8	582.8	0.90	2.4	2.4	3.8	20	79	77	—	11
C 90 4_652.8	652.8	0.70	2.1	2.1	3.5	20	79	77	—	11
C 90 4_712.2	712.2	0.70	2.1	2.1	3.5	20	79	77	—	11
C 90 4_773.6	773.6	0.50	2.0	2.0	3.4	—	—	—	—	9.7
C 90 4_844.0	844.0	0.50	2.0	2.0	3.4	—	—	—	—	9.6
C 90 4_922.3	922.3	0.40	1.8	1.8	3.2	—	—	—	—	9.5
C 90 4_1006	1006	0.40	1.8	1.8	3.2	—	—	—	—	9.4
C 90 4_1137	1137	0.30	1.7	1.7	3.1	—	—	—	—	9.3
C 90 4_1240	1240	0.30	1.7	1.7	3.1	—	—	—	—	9.3

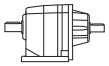


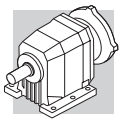
C 100

	i	J (•10-4) [kgm2]													
			IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	—	—	674	960	987	970	972
C 100 2_5.3	5.3	—	—	—	—	—	—	—	—	—	647	933	960	943	944
C 100 2_6.5	6.5	—	—	—	—	—	—	—	—	—	481	767	794	777	778
C 100 2_7.1	7.1	—	—	—	—	—	—	—	—	—	465	751	778	761	763
C 100 2_8.4	8.4	—	—	—	—	—	—	—	—	—	365	651	678	660	662
C 100 2_9.0	9.0	—	—	—	—	—	—	—	—	—	355	641	668	651	653
C 100 2_10.1	10.1	—	—	—	—	—	—	—	—	—	291	577	604	587	589
C 100 2_10.9	10.9	—	—	—	—	—	—	—	—	—	285	570	597	580	582
C 100 2_12.5	12.5	—	—	—	—	—	—	—	224	222	233	521	550	539	529
C 100 2_13.5	13.5	—	—	—	—	—	—	—	220	218	228	517	545	532	524
C 100 2_15.2	15.2	122	—	—	—	—	—	82	141	200	199	472	499	528	514
C 100 2_16.5	16.5	119	—	—	—	—	—	138	197	195	206	496	525	511	504
C 100 2_18.7	18.7	97	—	—	—	—	—	116	175	173	203	474	501	488	480
C 100 2_20.2	20.2	95	—	—	—	—	—	114	173	171	201	471	499	486	478
C 100 2_22.2	22.2	73	—	—	—	—	—	92	102	150	179	448	477	463	456
C 100 2_24.1	24.1	72	—	—	—	—	—	91	150	148	178	447	476	462	455
C 100 2_29.6	29.6	50	—	—	—	—	54	69	129	127	156	425	454	440	433
C 100 3_34.3	34.3	—	—	—	—	—	—	—	148	146	155	439	465	471	461
C 100 3_36.9	36.9	—	—	—	—	—	—	—	145	143	152	436	462	468	458
C 100 3_42.9	42.9	44	—	—	—	—	—	63	123	120	130	415	441	451	437
C 100 3_46.2	46.2	43	—	—	—	—	—	61	121	118	128	413	439	452	435
C 100 3_53.3	53.3	33	—	—	—	—	—	51	111	109	139	403	429	432	424
C 100 3_57.4	57.4	31	—	—	—	—	—	50	110	107	138	401	427	431	423
C 1003_64.5	64.5	24	—	—	—	—	—	43	103	101	130	394	420	422	415
C 100 3_69.4	69.4	24	—	—	—	—	—	43	102	100	129	393	419	421	414
C 100 3_79.4	79.4	16	—	—	—	—	20	35	95	92	122	385	411	413	407
C 100 3_85.6	85.6	16	—	—	—	—	19	35	94	92	121	385	411	413	406
C 100 3_92.7	92.7	15	—	—	—	—	18	34	93	91	120	384	410	412	405
C 100 3_99.8	99.8	14	—	—	—	—	18	33	93	90	119	383	409	411	404
C 100 3_111.9	111.9	9.9	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_120.5	120.5	9.6	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_139.7	139.7	6.0	—	—	—	—	10	25	84	82	—	—	—	—	388
C 100 3_150.4	150.4	5.8	—	—	—	—	9.8	25	84	82	—	—	—	—	388
C 100 4_162.1	162.1	13	—	—	16	16	17	32	100	89	—	—	—	—	23
C 100 4_185.4	185.4	9.6	—	—	13	12	14	29	88	86	—	—	—	—	20
C 100 4_199.6	199.6	8.5	—	—	12	12	14	28	88	86	—	—	—	—	20
C 100 4_244.2	244.2	5.7	—	—	8.5	8.5	9.8	25	84	82	—	—	—	—	16
C 100 4_263.0	263.0	5.6	—	—	8.5	8.4	9.7	25	84	82	—	—	—	—	16
C 100 4_300.5	300.5	4.2	—	—	7.1	7.1	8.4	23	83	80	—	—	—	—	15
C 100 4_323.6	323.6	4.2	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	14
C 100 4_380.5	380.5	3.1	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_409.8	409.8	3.0	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_466.7	466.7	2.0	3.5	3.5	4.9	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_502.6	502.6	2.0	3.5	3.4	4.8	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_582.6	582.6	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_627.4	627.4	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_720.3	720.3	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_775.7	775.7	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_843.3	843.3	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_908.2	908.2	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_1004	1004	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7
C 100 4_1081	1081	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7



C 100

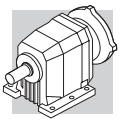
	i	J (•10-4) [kgm2]								
			NEMA							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	960	972
C 100 2_5.3	5.3	—	—	—	—	—	—	—	933	944
C 100 2_6.5	6.5	—	—	—	—	—	—	—	767	778
C 100 2_7.1	7.1	—	—	—	—	—	—	—	751	763
C 100 2_8.4	8.4	—	—	—	—	—	—	—	651	662
C 100 2_9.0	9.0	—	—	—	—	—	—	—	641	653
C 100 2_10.1	10.1	—	—	—	—	—	—	—	577	589
C 100 2_10.9	10.9	—	—	—	—	—	—	—	570	582
C 100 2_12.5	12.5	—	—	—	—	—	224	222	521	529
C 100 2_13.5	13.5	—	—	—	—	—	220	218	517	524
C 100 2_15.2	15.2	122	—	—	—	82	141	200	472	514
C 100 2_16.5	16.5	119	—	—	—	138	197	195	496	504
C 100 2_18.7	18.7	97	—	—	—	116	175	173	474	480
C 100 2_20.2	20.2	95	—	—	—	114	173	171	471	478
C 100 2_22.2	22.2	73	—	—	—	92	102	150	448	456
C 100 2_24.1	24.1	72	—	—	—	91	150	148	447	455
C 100 2_29.6	29.6	50	—	—	—	69	129	127	425	433
C 100 3_34.3	34.3	—	—	—	—	—	148	146	439	461
C 100 3_36.9	36.9	—	—	—	—	—	145	143	436	458
C 100 3_42.9	42.9	44	—	—	—	63	123	120	415	437
C 100 3_46.2	46.2	43	—	—	—	61	121	118	413	435
C 100 3_53.3	53.3	33	—	—	—	51	111	109	403	424
C 100 3_57.4	57.4	31	—	—	—	50	110	107	401	423
C 1003_64.5	64.5	24	—	—	—	43	103	101	394	415
C 100 3_69.4	69.4	24	—	—	—	43	102	100	393	414
C 100 3_79.4	79.4	16	—	—	—	35	95	92	385	407
C 100 3_85.6	85.6	16	—	—	—	35	94	92	385	406
C 100 3_92.7	92.7	15	—	—	—	34	93	91	384	405
C 100 3_99.8	99.8	14	—	—	—	33	93	90	383	404
C 100 3_111.9	111.9	9.9	—	—	—	29	88	86	—	392
C 100 3_120.5	120.5	9.6	—	—	—	29	88	86	—	392
C 100 3_139.7	139.7	6.0	—	—	—	25	84	82	—	388
C 100 3_150.4	150.4	5.8	—	—	—	25	84	82	—	388
C 100 4_162.1	162.1	13	—	—	16	32	100	89	—	23
C 100 4_185.4	185.4	9.6	—	—	13	29	88	86	—	20
C 100 4_199.6	199.6	8.5	—	—	12	28	88	86	—	20
C 100 4_244.2	244.2	5.7	—	—	8.5	25	84	82	—	16
C 100 4_263.0	263.0	5.6	—	—	8.5	25	84	82	—	16
C 100 4_300.5	300.5	4.2	—	—	7.1	23	83	80	—	15
C 100 4_323.6	323.6	4.2	—	—	7.1	23	83	80	—	14
C 100 4_380.5	380.5	3.1	4.5	4.5	5.9	22	81	79	—	13
C 100 4_409.8	409.8	3.0	4.5	4.5	5.9	22	81	79	—	13
C 100 4_466.7	466.7	2.0	3.5	3.5	4.9	20	80	78	—	12
C 100 4_502.6	502.6	2.0	3.5	3.5	4.8	20	80	78	—	12
C 100 4_582.6	582.6	1.4	2.9	2.9	4.3	20	80	77	—	12
C 100 4_627.4	627.4	1.4	2.9	2.9	4.3	20	80	77	—	12
C 100 4_720.3	720.3	1.0	2.5	2.5	3.9	20	79	77	—	11
C 100 4_775.7	775.7	1.0	2.5	2.5	3.9	20	79	77	—	11
C 100 4_843.3	843.3	0.80	2.3	2.3	3.7	—	—	—	—	9.9
C 100 4_908.2	908.2	0.80	2.3	2.3	3.7	—	—	—	—	9.9
C 100 4_1004	1004	0.60	2.1	2.1	3.4	—	—	—	—	9.7
C 100 4_1081	1081	0.60	2.1	2.1	3.4	—	—	—	—	9.7



29 RELAÇÕES EXATAS

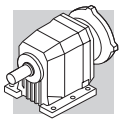
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2.5						2.62895					
2.8	2.76731	2.72212	2.87879	2.68687	2.65909		2.82011				
3.2	3.20743	3.32609		3.18182		3.30758					
3.5	3.65132	3.70709	3.40909	3.48617	3.61111		3.69925				
4.0			3.73518	4.20000							
4.5	4.31203	4.25831	4.50000	4.62201	4.66304	4.45370	4.55556	4.57143			
5.0	4.86842	4.76902	4.95215	5.27807						5.17231	4.92308
5.6	5.59868	5.59006	5.65508	5.84659	5.95263	5.63043		5.85034	5.64103	5.60333	5.33333
6.3	6.23158	6.08696	6.26420		6.36364		6.00176 6.74074	6.25455	6.11111	6.75824	6.52308
7.1		7.08300	7.16498	6.78114	7.06612	6.98684	7.48485	7.46032	7.04000	7.32143	7.06667
8.0	7.62201		8.48485	8.03030		7.75120		8.00433	7.62667	8.32615	8.35165
9.0	8.83422	8.65455	9.29644	8.79842	8.64198	8.79040	8.84211	9.52381	8.86447	9.02000	9.04762
10.0	10.05682	9.64593		10.60000	9.59596	9.75207	9.81818	10.20707	9.60317	10.36264	10.09231
11.2		11.08021	11.20000	11.66507	11.15942	11.83642	10.88889	11.20879	11.09402	11.22619	10.93333
12.5	11.87662	12.40909	12.32536	13.32086	12.39130	13.13131	12.09091	13.03030	12.01852	12.79060	12.45421
14.0	13.40909	14.54545	14.07487	14.75568	14.24561	14.96377	14.34568	14.09524	13.76410 14.91111	13.85648	13.49206
16.0	15.42045	15.83838	15.59091		15.81818	16.60079	15.92929	15.33566 16.70330	16.66272	15.97949	15.21368 16.48148
18.0	17.16364 18.38961	18.13636	18.18182	17.20779	17.79167	18.89035	17.65217		18.05128	17.31111 18.68047	18.66667
20.0	20.62937	20.02424	20.08081	19.00505	19.75568	20.95694 21.81606	19.60079	19.28485	20.53333	20.23718	20.22222
22.4	23.24242	21.45455	22.90909	22.13187	22.55556	23.35417 23.89242	22.35088	22.85315	22.24444	22.91795	22.24852
25.0	25.35537	24.27972	25.11515	26.20879	25.04545	25.90909	24.81818 26.77895		23.95266 25.94872	24.82778	24.10256
28.0	29.50000	27.15152 29.61983	26.90909	28.71572	28.31111 28.49003	27.44759 29.77315	27.41667 29.35385	27.71901		27.17160 29.43590	29.55556
31.5	32.77778	33.09091	29.76224 33.09091		31.22945 31.43636	30.05994 33.03030	30.44318 32.97778		31.33333		
35.5	37.00909	36.76768	36.09917	34.59560	33.38462 36.78930	36.38333 36.95862	34.22222 36.14872	34.74747		35.09848	34.29705 36.93529
40.0	42.31313		40.72727	38.07172	37.06993 40.32673	40.36364 40.47619	38.00000	41.26263	39.11111	39.40239	42.92328
45.0		43.27273	45.25253	43.47576	44.75207 46.96356	43.11538 46.72360	43.44691	44.70118	43.49074	42.98443	46.22507
50.0	47.60227	48.64646	52.43636	48.15865	51.47929	47.83217 51.40152	47.62450	52.16479	47.44444	50.30093	53.25397
56.0	55.16883	54.72727	59.39394	56.16170	58.65385	57.02479 58.98416	53.46087 58.60134	56.51186	57.29733	54.87374 59.20032	57.35043
63.0	66.15152	60.00000 63.27273	66.81818	62.02747	64.29364	64.59803		65.85315	62.50617	64.58217	64.46886
71.0		65.33333 74.81250	74.74747	70.76374	74.35897	72.92219	67.69123 74.20000	71.34091	70.50362	74.44537	69.42801
80.0		82.60000	82.55443	77.57802 83.11931	81.50888	79.86264	83.03333	81.41434	76.91304	81.21313	79.44444
90.0		88.50000	94.18182	91.93238	93.33333	92.96514	91.01731	88.19886	89.27047	88.22009	85.55556 92.67399
100.0		100.15385	103.25118	102.21429	102.30769	101.81319	103.64444	103.79138	97.38596	96.24009	99.80276

2x 3x



i_N	C12	C22	C32	C36	C41	C51	C61	C70	C80	C90	C100
112.2		112.00000	110.62626	111.50649	110.05917	113.60510	113.61026	112.44066	109.50347	107.00379 116.73140	111.90476
125.5		122.18182	122.35587	125.80220	120.64178	124.41758	128.14222	126.83497	119.45833		120.51282
140.0		136.50000	136.04040 148.40771	139.78022	132.86713 145.64282	134.62559 147.43872	140.46359	137.40455	136.68519 149.11111	134.13580 146.32997	139.68254
160.0		151.66667	167.43434	161.97033	164.10256	160.49861	150.03077 164.45680	150.30339 162.82867	168.99259	157.76199	150.42735 162.10526
180.0		178.50000	186.03816	183.46154	179.88166	175.77423	178.59394	179.18945	184.35556	172.10399	185.37037
200.0		200.66667		206.39423	190.76923 209.11243	197.87075	195.76643	194.12190	197.85897	212.38169	199.62963
225.0		225.75000	215.57172	230.88697		216.70330	217.40754	220.91375	215.84615	231.68911	
250.0		261.00000	244.17508	255.00183	239.94755	240.85197 263.77530	238.31211	239.32323 251.28438	261.85613	268.49591	244.21811 263.00412
280.0			274.69697	290.91758	263.01943		275.27766	272.22475	285.66123	292.90463	300.50725
315.0				318.93187	304.19580 333.44540	297.76563 326.10577	301.74667	317.86109	334.27376	338.95085	323.62319
355.0				341.71272			337.66889 370.13705	344.34951	364.66228	369.76457	380.49708
400.0				377.94421 420.21429	381.81818 418.53147	379.60764 415.73718	421.48741	409.39931	417.48199	419.04541	409.76608
450.0				458.41558	450.24207	463.88750	462.01504	443.51592	455.43490	457.14044	466.73611
500.0				517.18681	493.53457	508.03846	521.11170	512.03745	529.26678		502.63889
560.0				574.65201	543.54736	549.72115	571.21860	554.70724	577.38194	534.22163 582.78723	582.59259
630.0				665.87802	595.81153	602.04142 655.36932	610.12513 668.79101	606.78035 657.34538	664.32106	652.82863	627.40741
710.0				754.23077	671.32867 735.87951	717.74476	726.28202	735.97521	724.71389	712.17669	720.29630
800.0				848.50962	780.41958	807.97222	796.11683	797.30647	783.37099	773.62229 843.95159	775.70370 843.33333
900.0					855.45992	884.87179		922.59000	854.58654 945.71181	922.30089	908.20513
1000.0								999.47250 1069.05117	1031.68561	1006.14643	1003.88889
1125.0								1158.13876	1168.03704	1137.05888	1081.11111
1250.0									1274.22222	1240.42787	
1400.0								1362.26180 1475.78362	1357.84306 1481.28333		

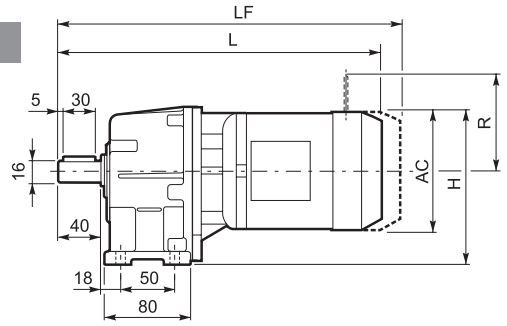
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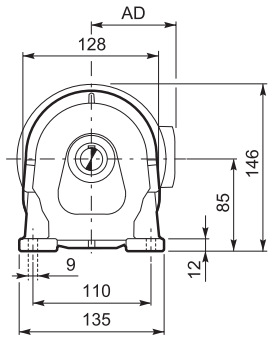


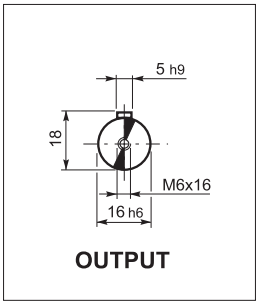
30 DIMENSÕES

C 05...M

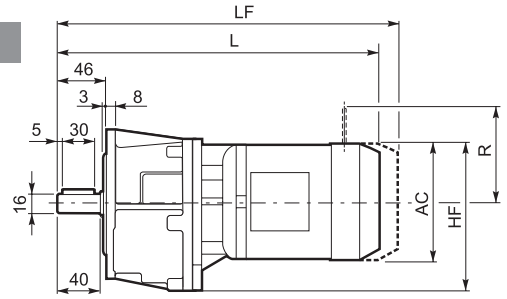
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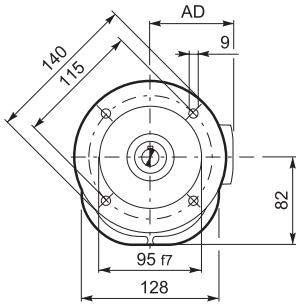






F



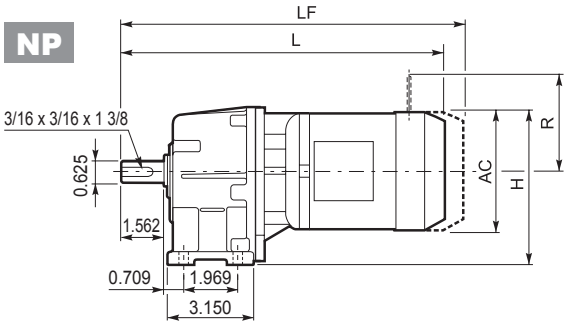


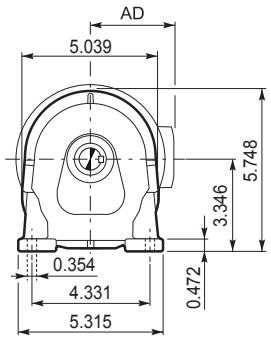
Dimensões em mm

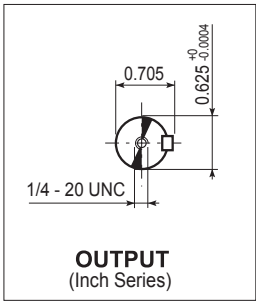
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 05 2	**S0**	**M0**	110	140	137	287	91	7	—	—	—	—	—	—
C 05 2	**S05**	**M05**	121	145.5	142.5	332	95	8	398	10	96	122	116	95
C 05 2	**S1**	**M1**	138	154	151	360.5	108	11	423	13	103	135	124	108

C 05...M

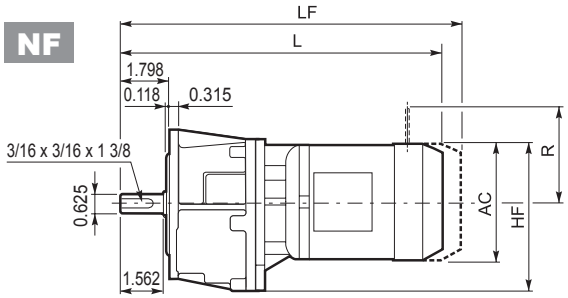
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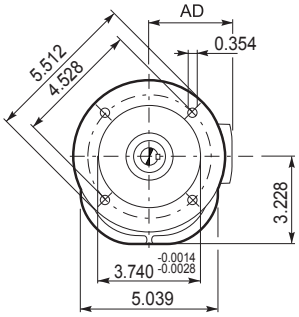






NF



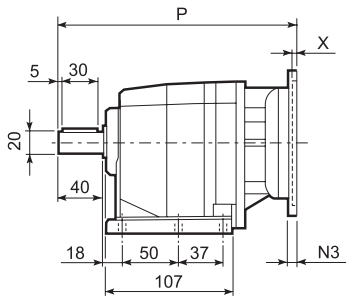


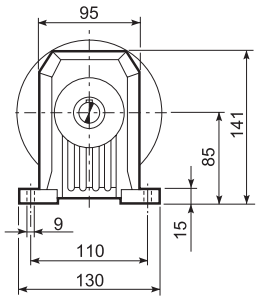
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

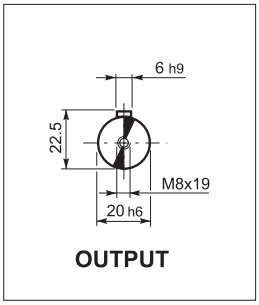
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 05 2	**S0**	**M0**	4.331	5.512	5.394	11.287	3.583	15	—	—	—	—	—	—
C 05 2	**S05**	**M05**	4.764	5.728	5.610	13.058	3.740	18	15.657	22	3.780	4.803	4.567	3.740
C 05 2	**S1**	**M1**	5.433	6.063	5.945	14.180	4.252	24	16.641	29	4.055	5.315	4.882	4.252

C 12...P (IEC)

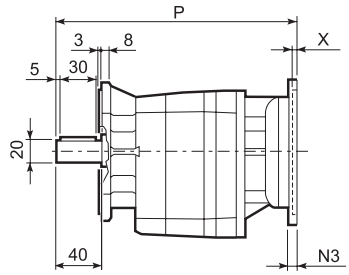
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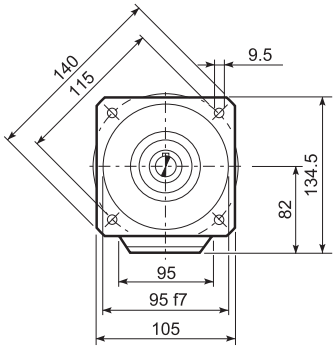


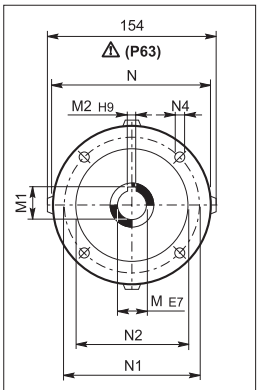




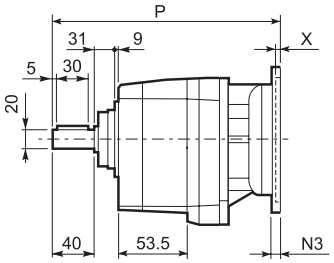
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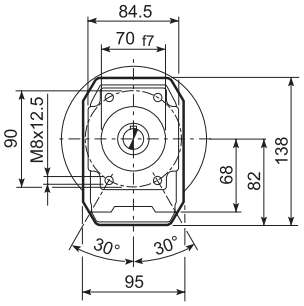




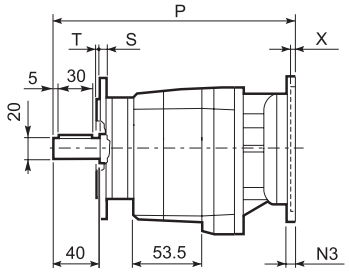


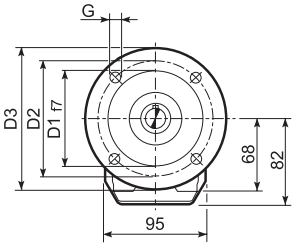
U





UF





C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

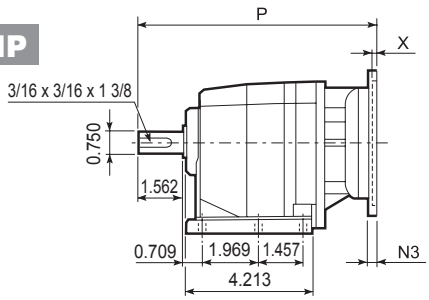
Dimensões em mm

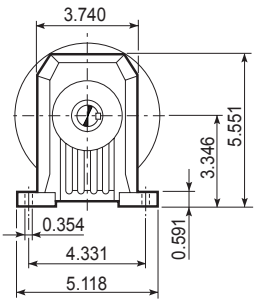
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 12 2	P63	11	12.8	4	140	115	95	—	M8x19	4	244.5	6
C 12 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	244.5	6
C 12 2	P80	19	21.8	6	200	165	130	—	M10x12	4	264	7
C 12 2	P90	24	27.3	8	200	165	130	—	M10x12	4	264	7
C 12 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	274	11
C 12 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	274	11

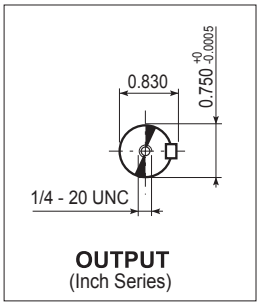
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 12...N(NEMA Input)

NP

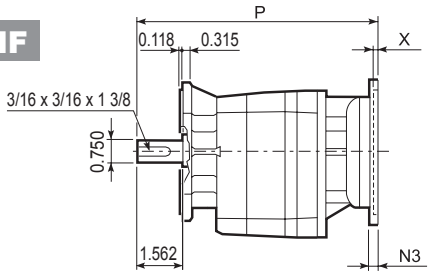


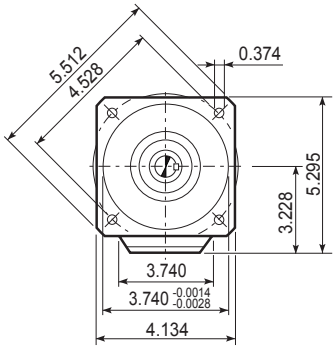


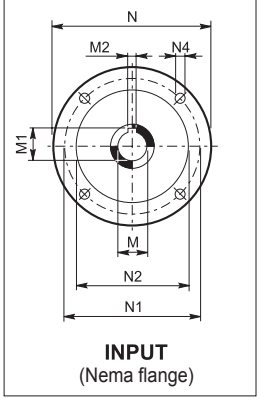


OUTPUT
(Inch Series)

NF

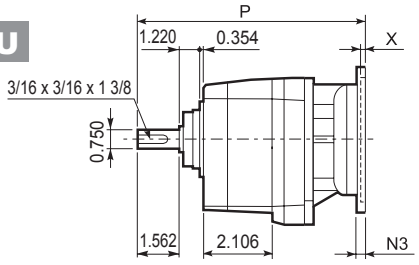


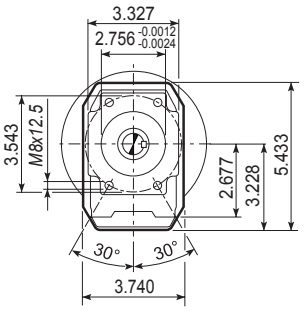




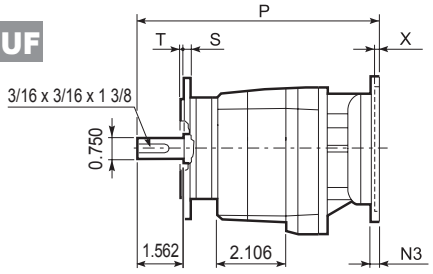
INPUT
(Nema flange)

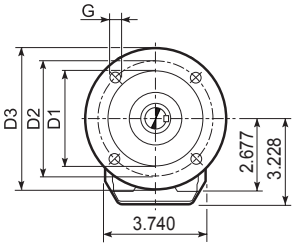
NU





NUF



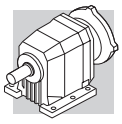


C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

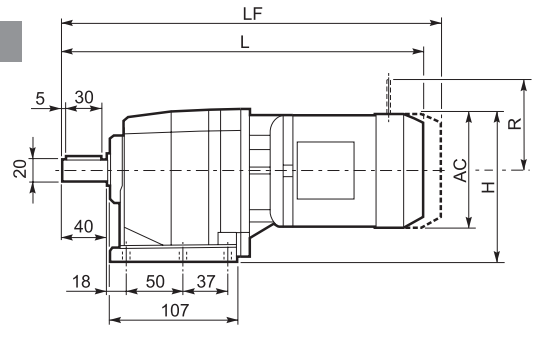
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 12 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.401	13
C 12 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.401	15
C 12 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	11.228	24

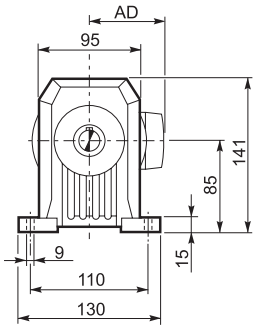
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

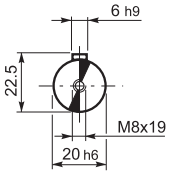


C 12...M/ME

P

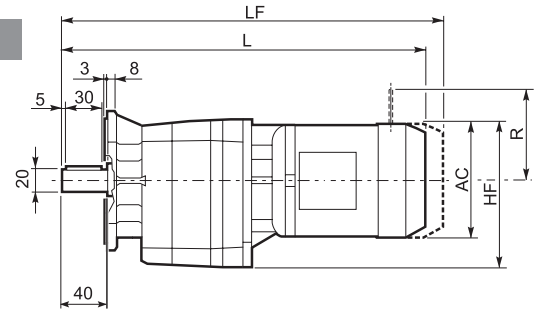


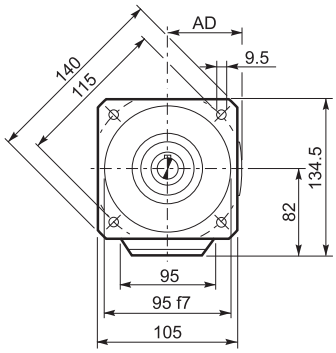




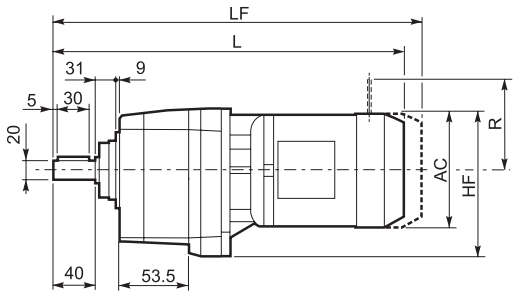
OUTPUT

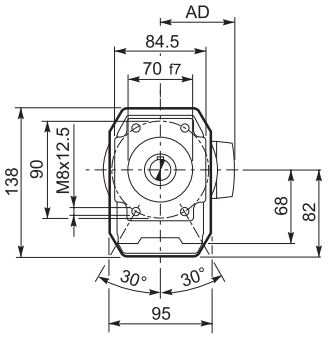
F



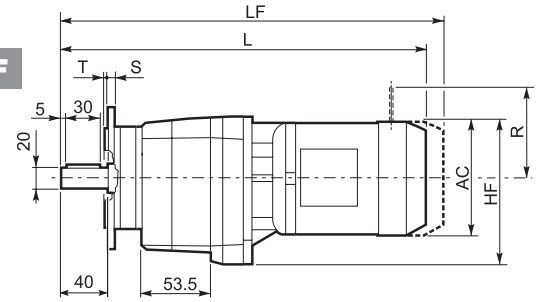


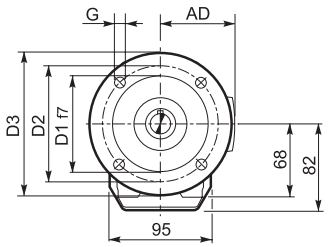
U





UF



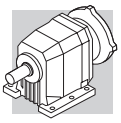


C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

Dimensões em mm

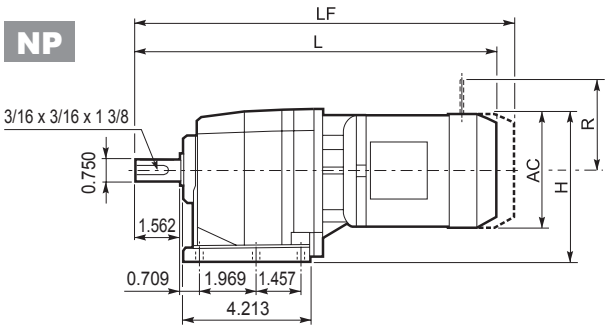
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 12 2	S05	M05	121	145.5	142.5	370.5	95	9	436.5	10	96	122	116	95
C 12 2	S1	M1	138	154	151	404.5	108	11	460.5	13	103	135	124	108
C 12 2	S2	M2S	156	163	160	428.5	119	15	498.5	18	129	146	134	119
C 12 2	S2	ME2S	156	163	160	428.5	119	15	—	—	—	—	—	—
C 12 2	S3	ME3S	195	182.5	179.5	471.5	142	21.5	—	—	—	—	—	—
C 12 2	S3	ME3L	195	182.5	179.5	503.5	142	22	—	—	—	—	—	—

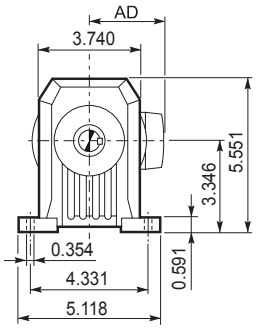
Bonfiglioli Riduttori

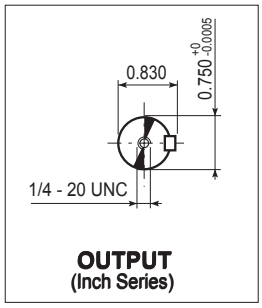


C 12...M/ME

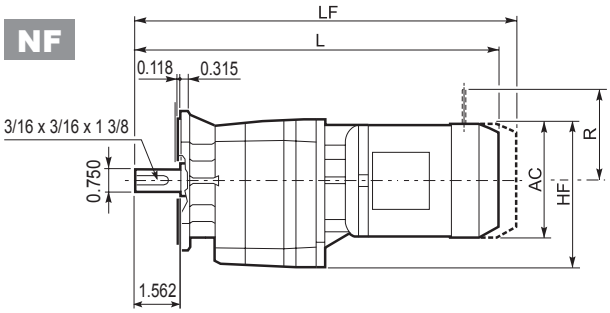
NP

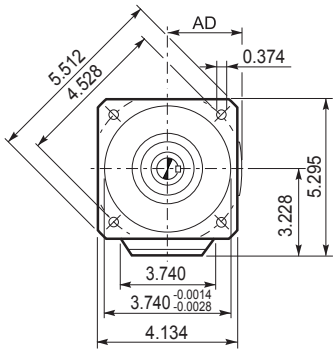




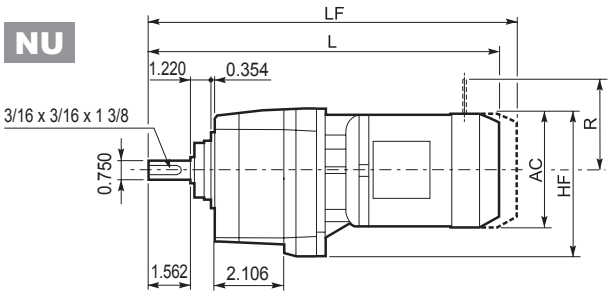


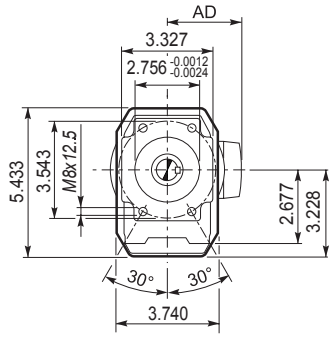
NF



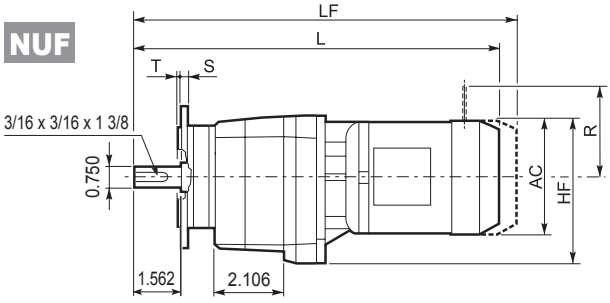


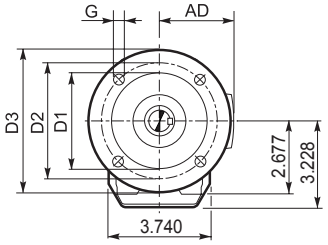
NU





NUF

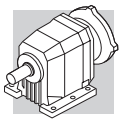




C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

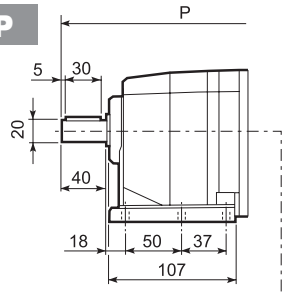
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 12 2	S05	M05	4.764	5.728	5.610	14.574	3.740	20	17.172	22	3.780	4.803	4.567	3.740
C 12 2	S1	M1	5.433	6.063	5.945	15.913	4.252	24	18.117	29	4.055	5.315	4.882	4.252
C 12 2	S2	M2S	6.142	6.417	6.299	16.857	4.685	33	19.613	40	5.079	5.748	5.276	4.685
C 12 2	S2	ME2S	6.142	6.417	6.299	16.857	4.685	33	—	—	—	—	—	—
C 12 2	S3	ME3S	7.677	7.185	7.067	18.550	5.591	47	—	—	—	—	—	—
C 12 2	S3	ME3L	7.677	7.185	7.067	19.810	5.591	49	—	—	—	—	—	—

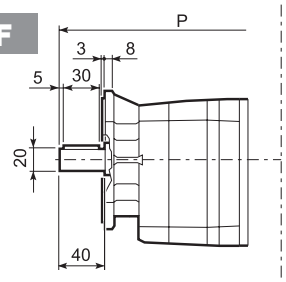


C 12...SK / SC

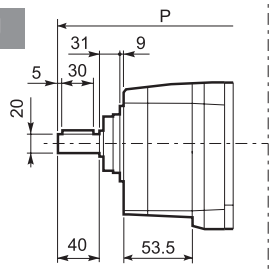
P



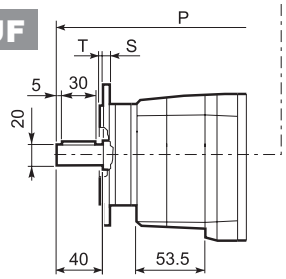
F

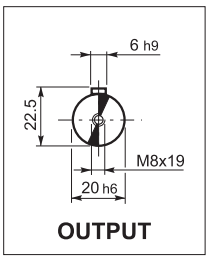


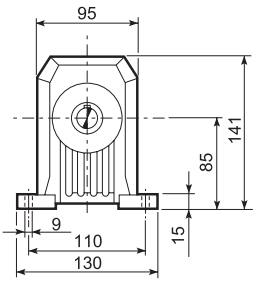
U

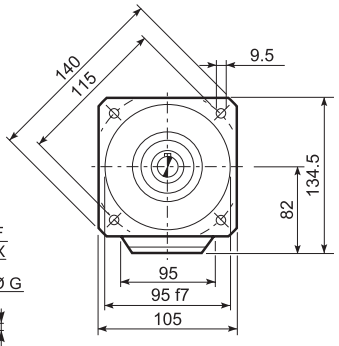


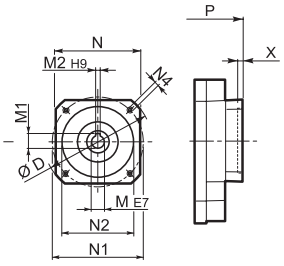
UF



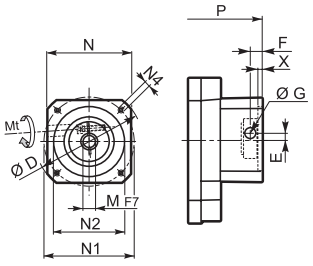




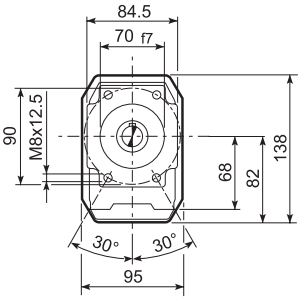




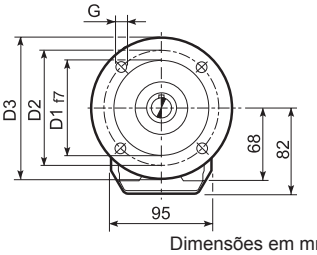
SK...



SC...



C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

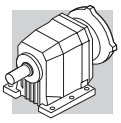


Dimensões em mm

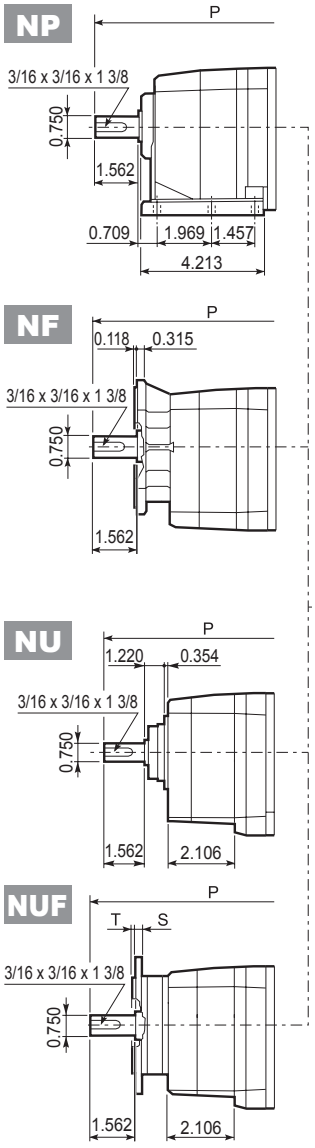
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
C 12 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	216	6
C 12 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	223	5
C 12 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	223	5
C 12 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	264	7
C 12 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	264	6
C 12 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	264	7
C 12 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	264	7
C 12 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	264	7
C 12 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	264	7

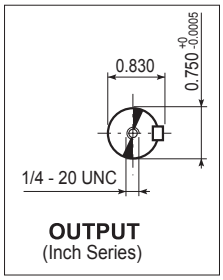
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
C 12 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	243	7
C 12 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	243	6
C 12 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	243	6
C 12 2	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	287.5	8
C 12 2	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	287.5	7
C 12 2	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	287.5	8
C 12 2	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	287.5	8
C 12 2	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	287.5	10
C 12 2	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	287.5	10

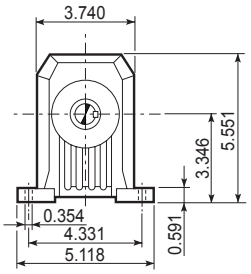
Bonfiglioli Riduttori

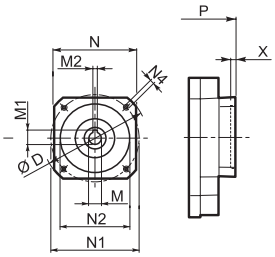


C 12...SK / SC

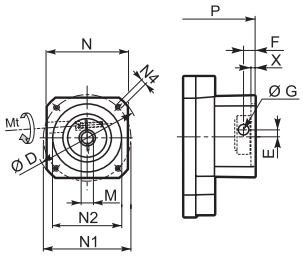




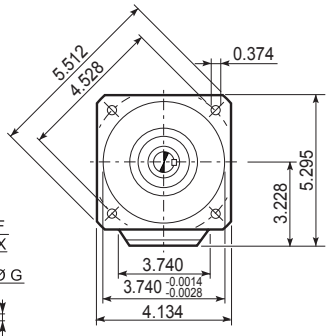


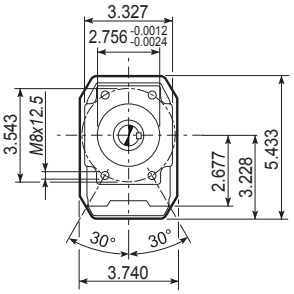


SK...

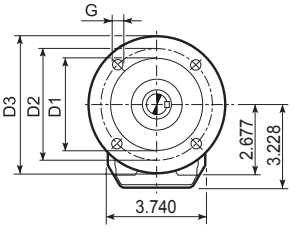


SC...





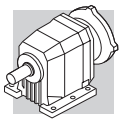
C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

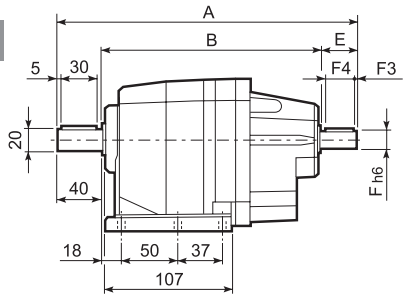
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
C 12 2	SK60A	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	8.491	13
C 12 2	SK60B	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	8.767	11
C 12 2	SK80A	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	8.767	11
C 12 2	SK80C	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	10.381	15
C 12 2	SK95A	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	10.381	13
C 12 2	SK95B	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	10.381	15
C 12 2	SK95C	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	10.381	15
C 12 2	SK110A	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	10.381	15
C 12 2	SK110B	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	10.381	15

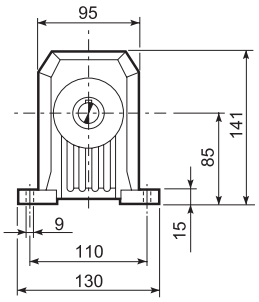
			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
C 12 2	SC60A	M6	133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	9.554	15
C 12 2	SC60B	M6	133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	9.554	13
C 12 2	SC80A	M6	133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	9.554	13
C 12 2	SC80C	M6	133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	11.306	18
C 12 2	SC95A	M6	133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	11.306	15
C 12 2	SC95B	M6	133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	11.306	18
C 12 2	SC95C	M6	133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	11.306	18
C 12 2	SC110A	M6	133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	11.306	22
C 12 2	SC110B	M6	133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	11.306	22

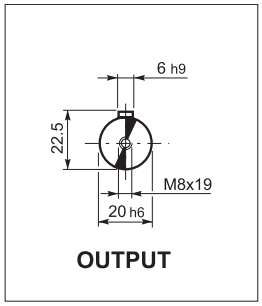


C 12...HS

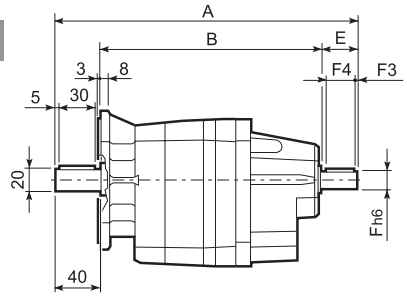
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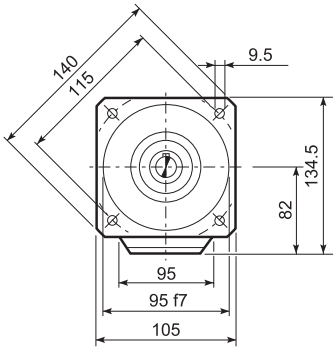


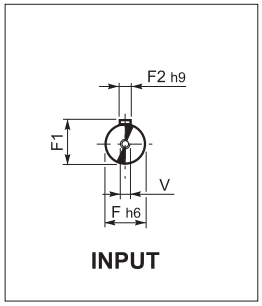




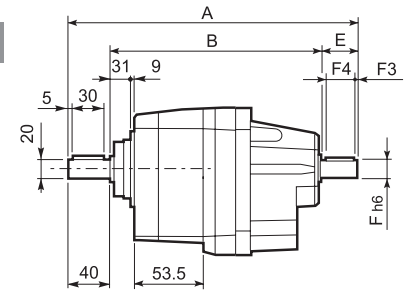
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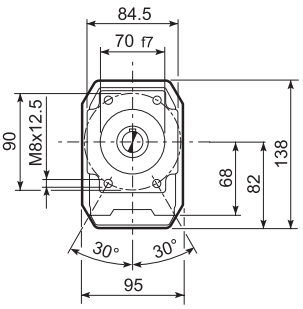




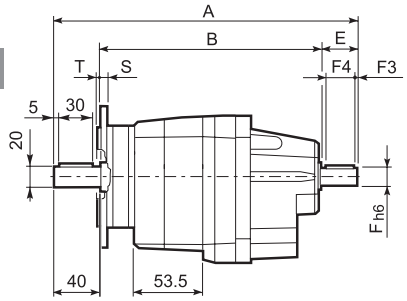


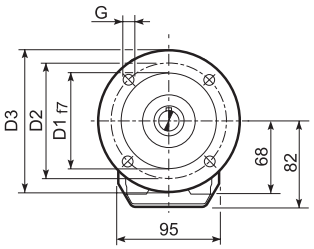
U





UF





C 12 2_U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

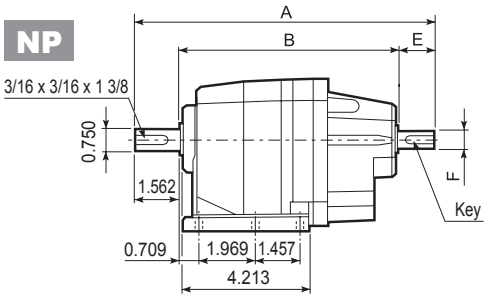
Dimensões em mm

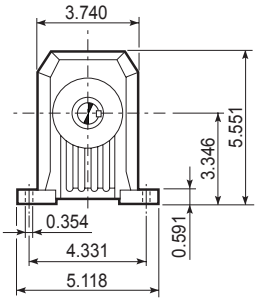
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 12 2	HS	251.5	171.5	40	16	18	5	2.5	35	M6x16	7.8

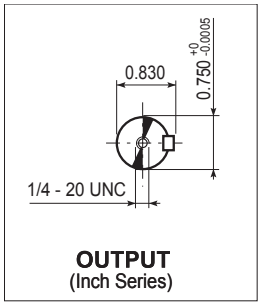
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 12...NHS

NP

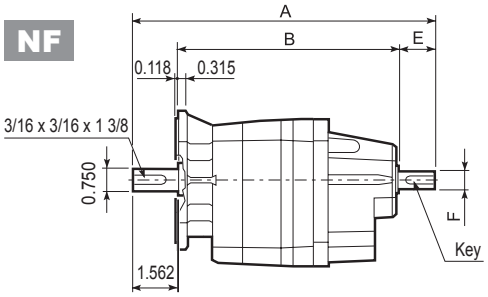


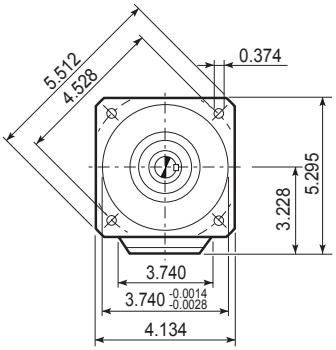


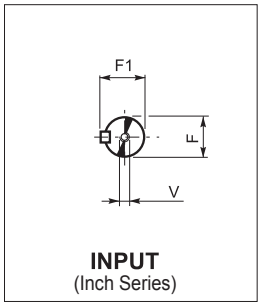


OUTPUT
(Inch Series)

NF

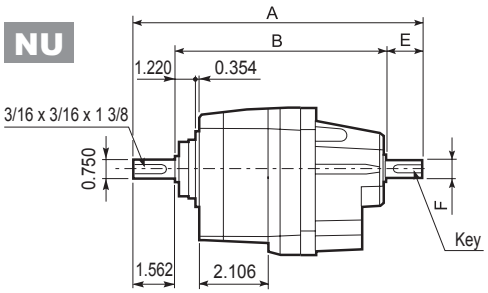


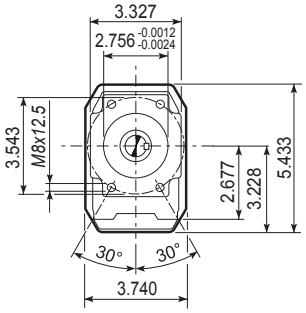




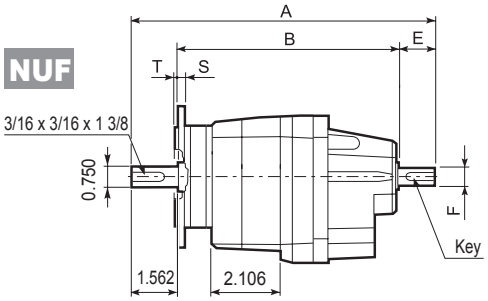
INPUT
(Inch Series)

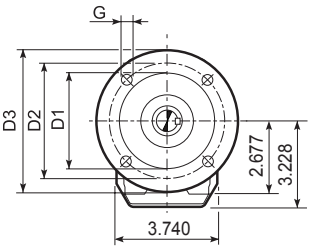
NU





NUF



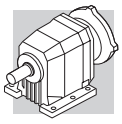


C 12 2_NU						
	D1	D2	D3	G	T	S
FA	3.150 -0.0012 -0.0024	3.937	4.724	0.276	0.118	0.315
FB	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FC	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

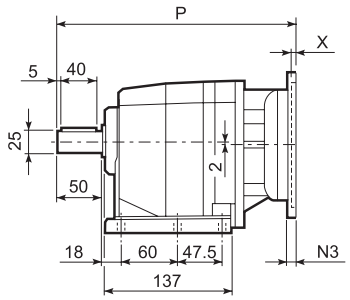
		A	B	E	F	F1	V	Key	lbs
C 12 2	NHS	9.889	6.752	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17.196

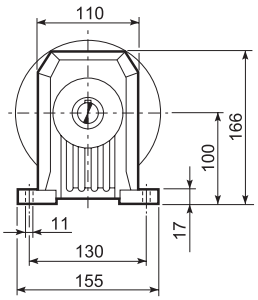
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

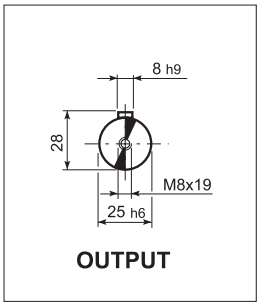


C 22...P(IEC)

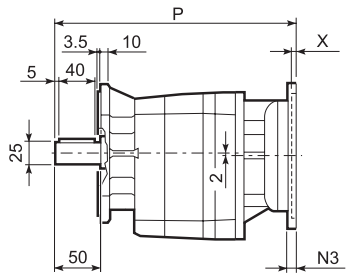
P

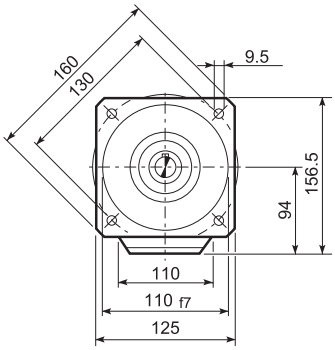


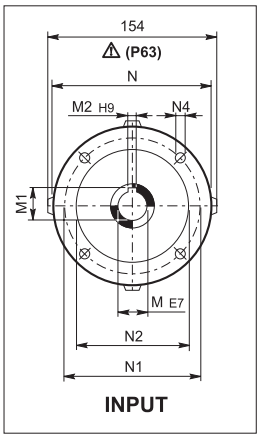




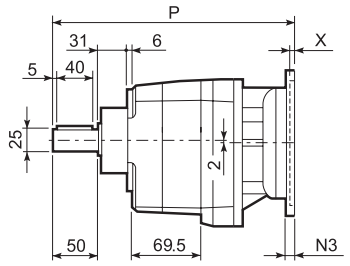
F

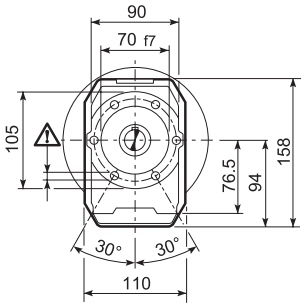


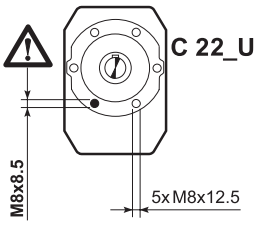




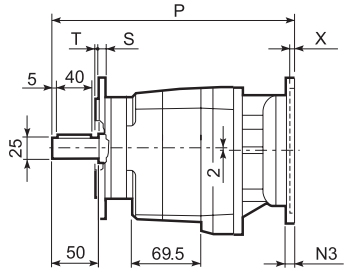
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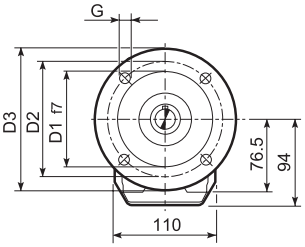






UF





C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

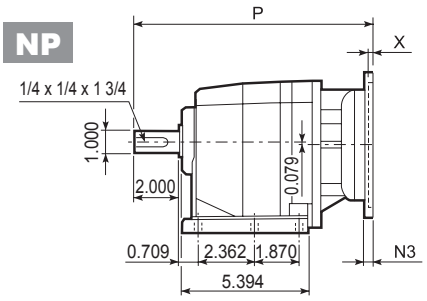
Dimensões em mm

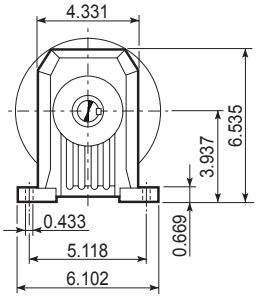
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 22 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	273	7
C 22 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	273	7
C 22 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	292.5	8
C 22 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	292.5	8
C 22 2	**P100**	28	31.3	8	250	215	180	—	M12X16	4.5	302.5	12
C 22 2	**P112**	28	31.3	8	250	215	180	—	M12X16	4.5	302.5	12
C 22 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	328.5	8
C 22 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	328.5	8
C 22 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	348	9
C 22 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	348	9
C 22 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	358	13
C 22 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	358	13

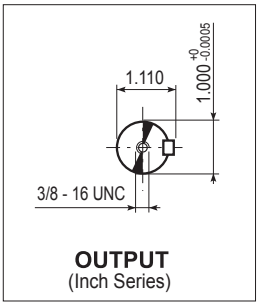
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 22...N(NEMA Input)

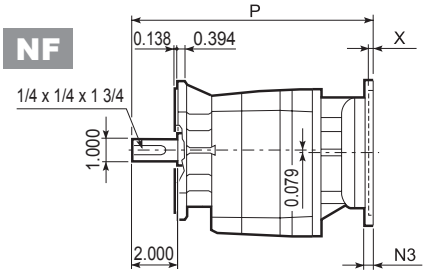
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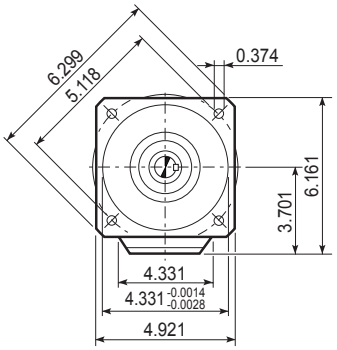


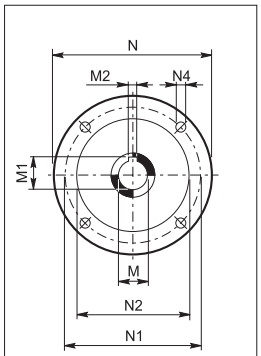




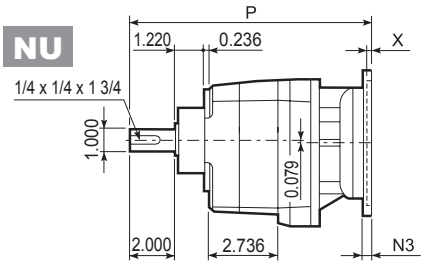
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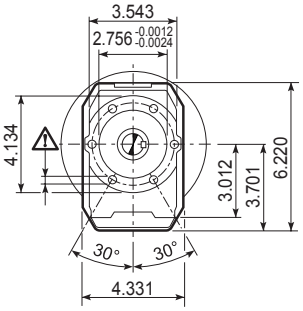


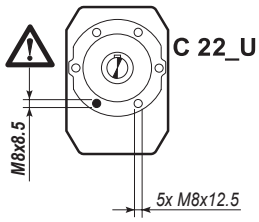




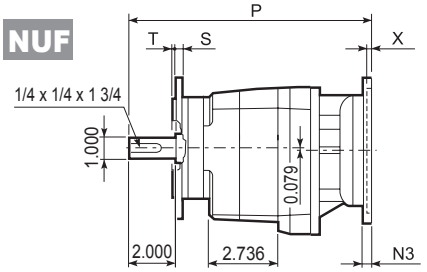
NU

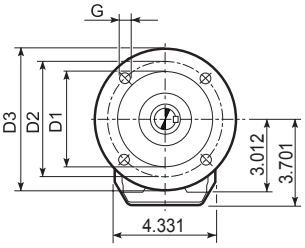






NUF





C 22_NU						
	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

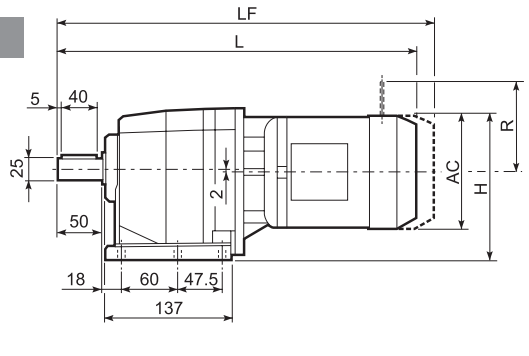
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

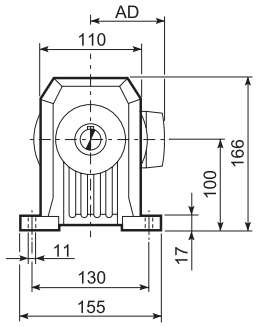
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 22 2	N56C	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.567	15
C 22 2	N140TC	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.567	18
C 22 2	N180TC	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	12.394	26
C 22 3	N56C	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.752	18
C 22 3	N140TC	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.752	20
C 22 3	N180TC	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.579	29

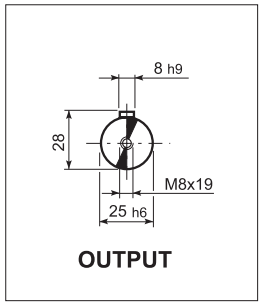
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

C 22...M/ME

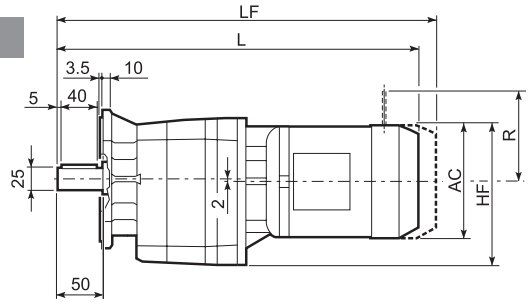
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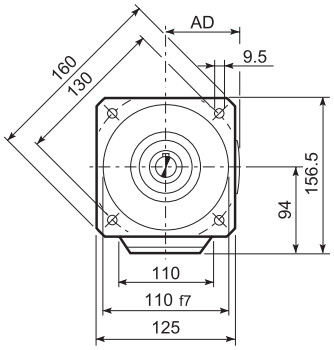




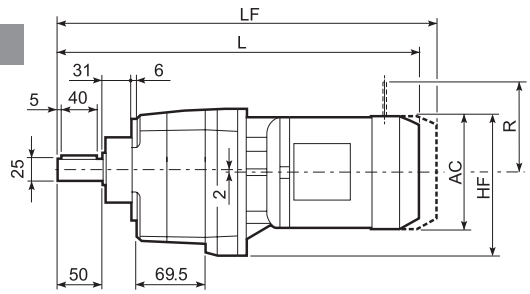


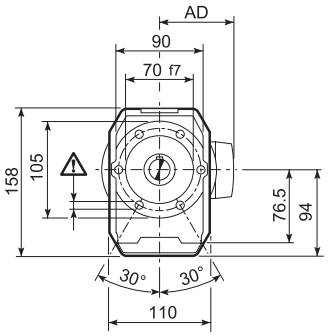
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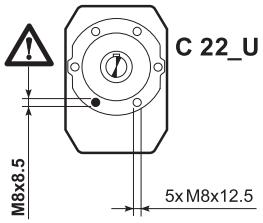




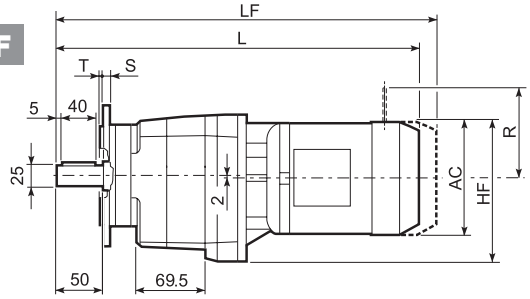
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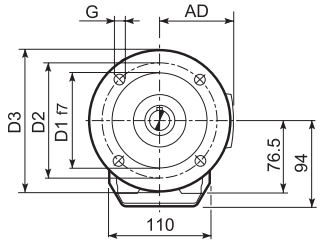






UF





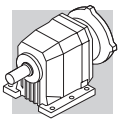
C 22_U

	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

Dimensões em mm

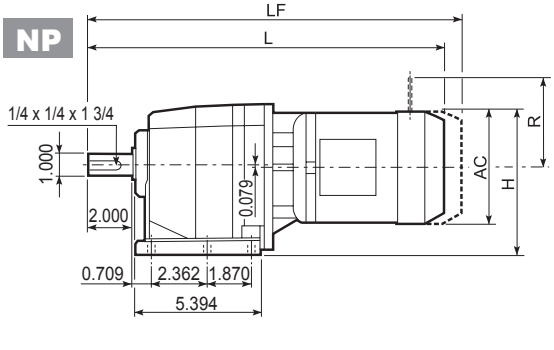
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 22 2	**S05**	**M05**	121	160.5	154.5	399	95	8	465	10	96	119	116	95
C 22 2	**S1**	**M1**	138	169	163	428	108	11	489	14	103	135	124	108
C 22 2	**S2**	**M2S**	156	178	170	456	119	16	527	19	129	146	134	119
C 22 2	**S2**	**ME2S**	156	178	170	456	119	16	—	—	—	—	—	—
C 22 2	**S3**	**ME3S**	195	197.5	191.5	500	142	22.5	—	—	—	—	—	—
C 22 2	**S3**	**ME3L**	195	197.5	191.5	532	142	27	—	—	—	—	—	—
C 22 3	**S05**	**M05**	121	160.5	154.5	454.5	95	11	520.5	12	96	122	116	95
C 22 3	**S1**	**M1**	138	169	163	483.5	108	13	544.5	15	103	135	124	108
C 22 3	**S2**	**ME2S**	156	178	170	511.5	119	18	—	—	—	—	—	—
C 22 3	**S3**	**ME3S**	195	197.5	191.5	555.5	142	24.5	—	—	—	—	—	—
C 22 3	**S3**	**ME3L**	195	197.5	191.5	587.5	142	29	—	—	—	—	—	—

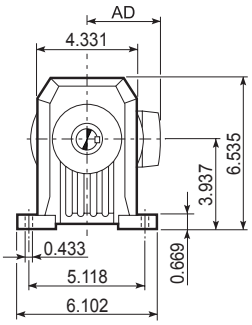
Bonfiglioli Riduttori

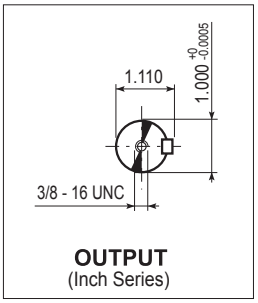


C 22...M/ME

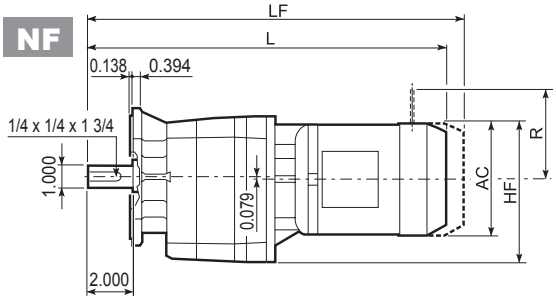
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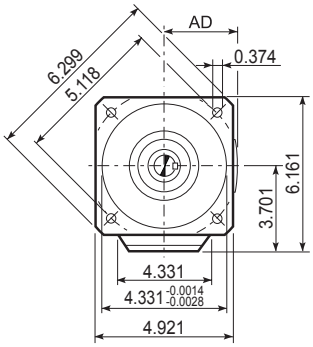




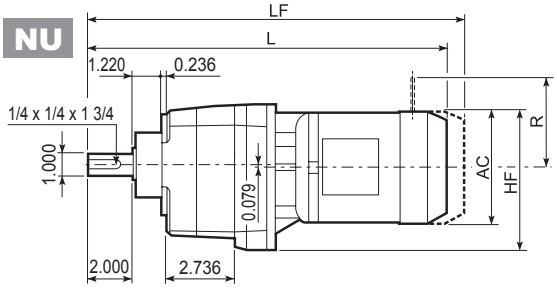


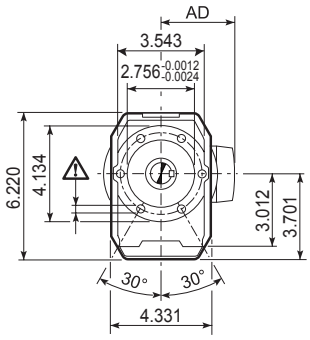
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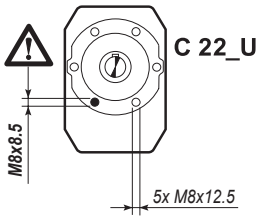




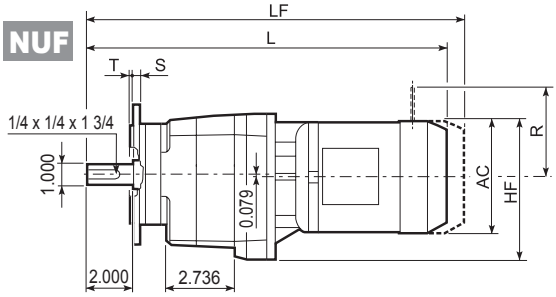
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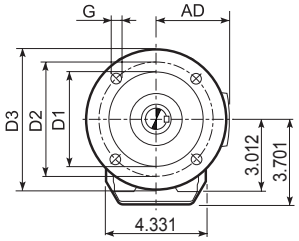






NUF



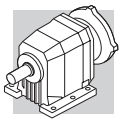


C 22_NU

	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

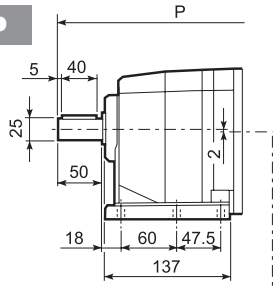
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 22 2	**S05**	**M05**	4.764	6.319	6.083	15.740	3.740	18	18.339	22	3.780	4.685	4.567	3.740
C 22 2	**S1**	**M1**	5.433	6.654	6.417	16.882	4.252	24	19.283	31	4.055	5.315	4.882	4.252
C 22 2	**S2**	**M2S**	6.142	7.008	6.693	17.984	4.685	35	20.780	42	5.079	5.748	5.276	4.685
C 22 2	**S2**	**ME2S**	6.142	7.008	6.693	17.984	4.685	35	—	—	—	—	—	—
C 22 2	**S3**	**ME3S**	7.677	7.776	7.539	19.717	5.591	50	—	—	—	—	—	—
C 22 2	**S3**	**ME3L**	7.677	7.776	7.539	20.976	5.591	60	—	—	—	—	—	—
C 22 3	**S05**	**M05**	4.764	6.319	6.083	17.925	3.740	24	20.524	26	3.780	4.803	4.567	3.740
C 22 3	**S1**	**M1**	5.433	6.654	6.417	19.067	4.252	29	21.469	33	4.055	5.315	4.882	4.252
C 22 3	**S2**	**ME2S**	6.142	7.008	6.693	20.169	4.685	40	—	—	—	—	—	—
C 22 3	**S3**	**ME3S**	7.677	7.776	7.539	21.902	5.591	54	—	—	—	—	—	—
C 22 3	**S3**	**ME3L**	7.677	7.776	7.539	23.161	5.591	64	—	—	—	—	—	—

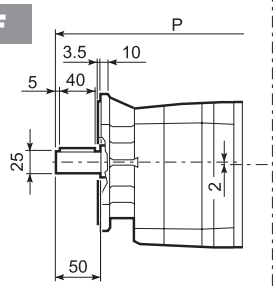


C 22...SK / SC

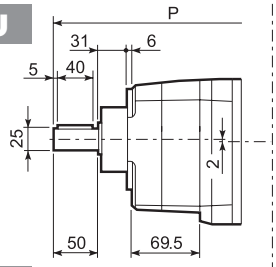
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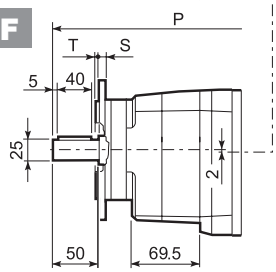
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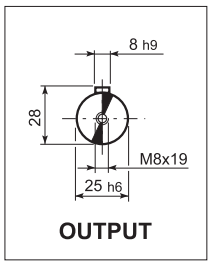


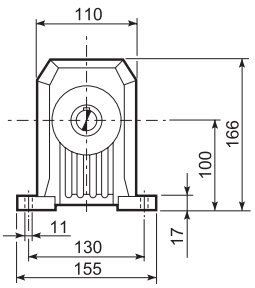
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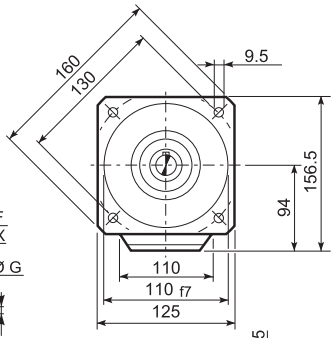


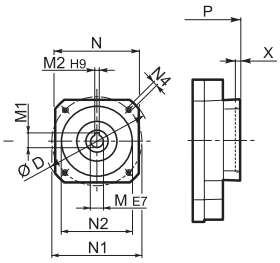
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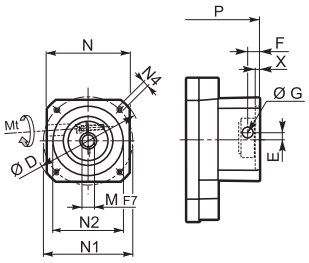




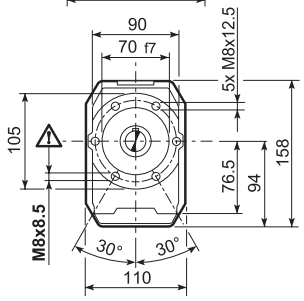




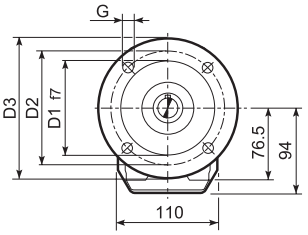
SK...



SC...



C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

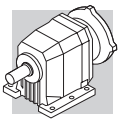


Dimensões em mm

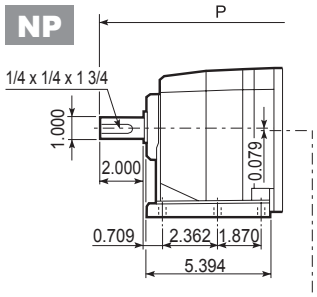
		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 22 2/3	SK60A*	102	11	12.8	4	82	75	60	M5x10	3.5	224.5	300	6/9
C 22 2/3	SK60B*	102	14	16.3	5	82	75	60	M5x10	4	251.5	307	7/8
C 22 2/3	SK80A*	115	14	16.3	5	90	100	80	M6x12	4	251.5	307	7/8
C 22 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	292.5	348	8/9
C 22 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	292.5	348	8/9
C 22 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	292.5	348	8/9

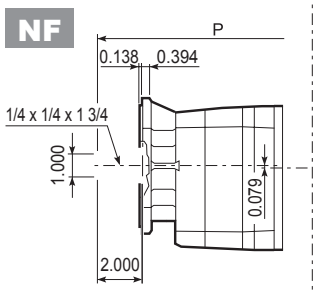
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 22 2/3	SC60A*	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	271.5	327	7/8
C 22 2/3	SC60B*	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	271.5	327	8/9
C 22 2/3	SC80A*	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	271.5	327	8/9
C 22 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	316	371.5	9/10
C 22 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	316	371.5	10/11
C 22 2/3	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	316	371.5	10/11

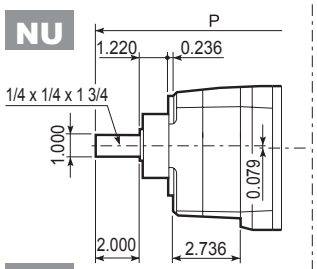
* Contactar nuestro Servicio Técnico comunicando los datos relativos a la aplicación

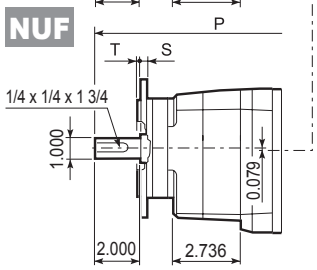


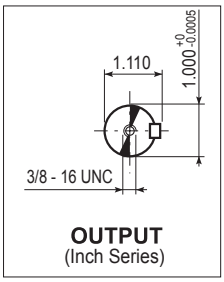
C 22...SK / SC

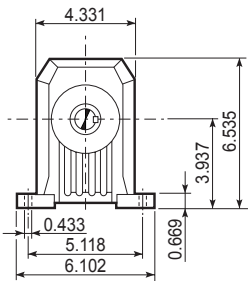


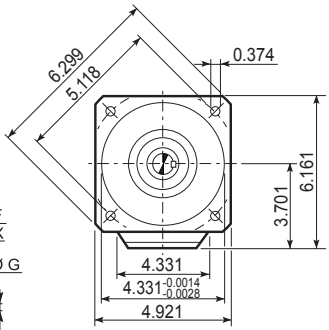


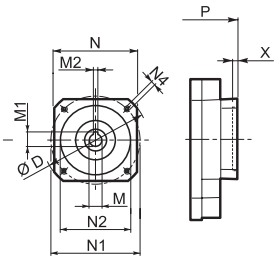




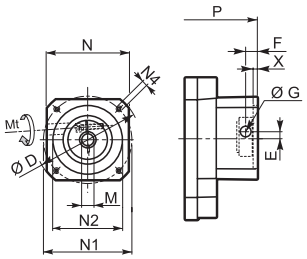




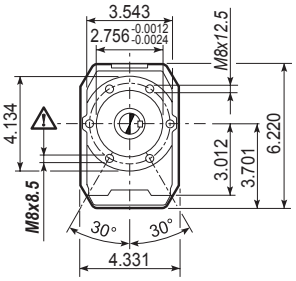


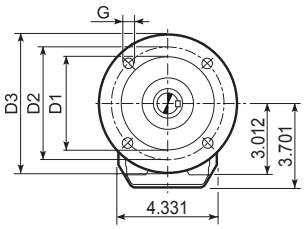


SK...



SC...





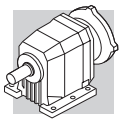
C 22_NU	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 22 2/3	SK60A*	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	8.870	11.843	13/20
C 22 2/3	SK60B*	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	9.933	12.118	15/18
C 22 2/3	SK80A*	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	9.933	12.118	15/18
C 22 2/3	SK80C	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK95A	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK95B	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK95C	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	11.547	13.732	18/20
C 22 2/3	SK110A	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	11.547	13.732	18/20
C 22 2/3	SK110B	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	11.547	13.732	18/20

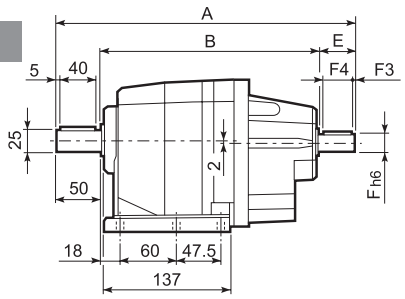
			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 22 2/3	SC60A*	*M6*	133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	10.720	12.906	15/18
C 22 2/3	SC60B*	*M6*	133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	10.720	12.906	18/20
C 22 2/3	SC80A*	*M6*	133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	10.720	12.906	18/20
C 22 2/3	SC80C	*M6*	133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	12.472	14.657	20/22
C 22 2/3	SC95A	*M6*	133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	12.472	14.657	20/22
C 22 2/3	SC95B	*M6*	133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	12.472	14.657	20/22
C 22 2/3	SC95C	*M6*	133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	12.472	14.657	20/22
C 22 2/3	SC110A	*M6*	133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	12.472	14.657	22/24
C 22 2/3	SC110B	*M6*	133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	12.472	14.657	22/24

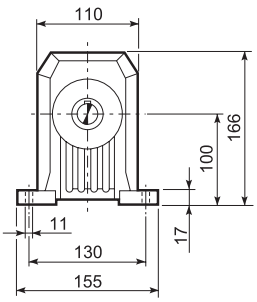
* Contactar nuestro Servicio Técnico comunicando los datos relativos a la aplicación

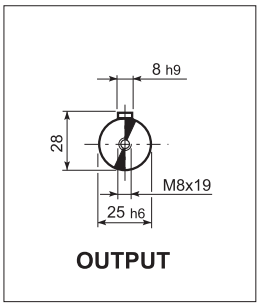


C 22...HS

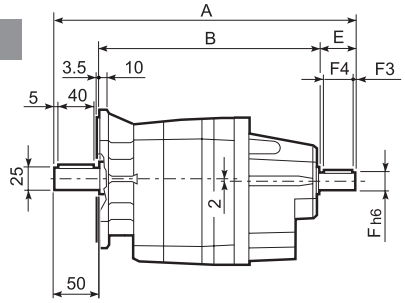
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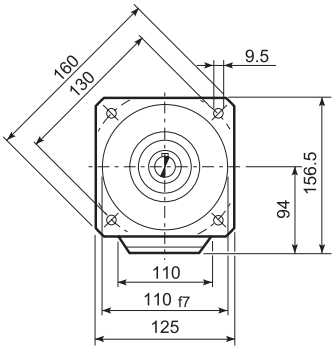


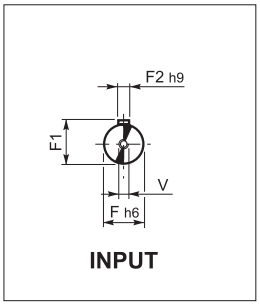




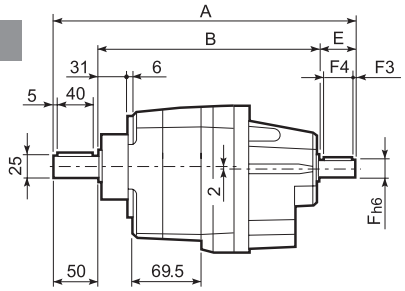
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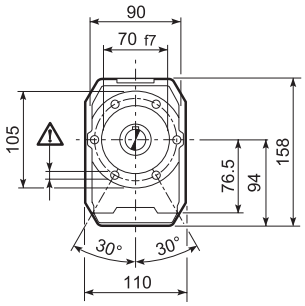


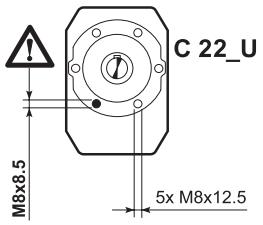




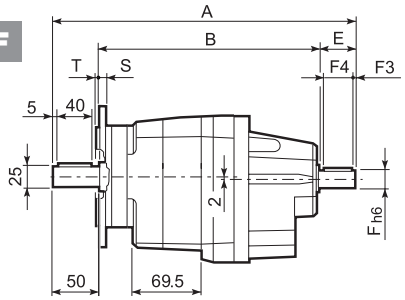
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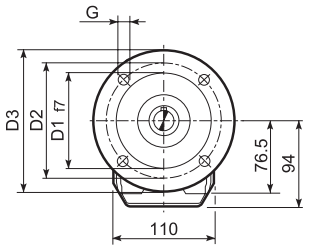






UF





C 22_U

	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

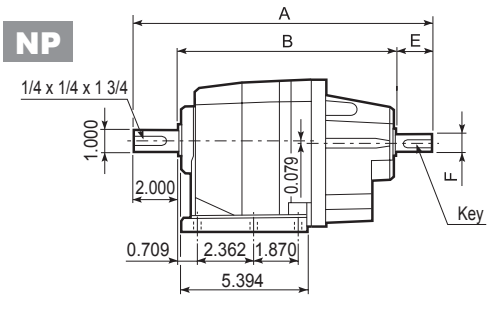
Dimensões em mm

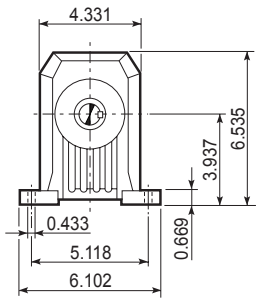
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 22 2	**HS**	323	233	40	19	21.5	6	2.5	35	M6x16	7.2
C 22 3		335.5	245.5	40	16	18	6	2.5	36	M6x16	7.5

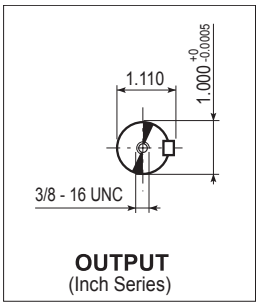
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 22...NHS

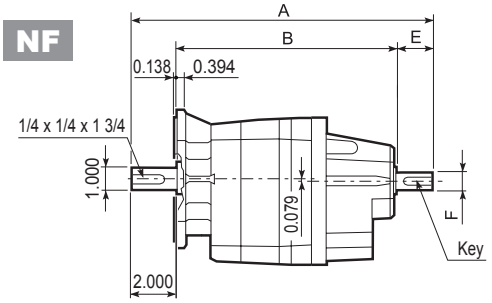
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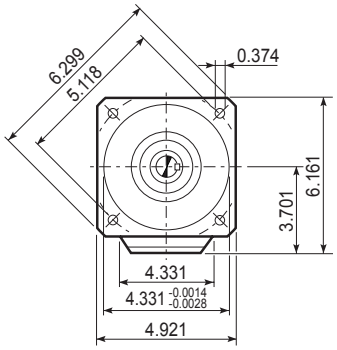


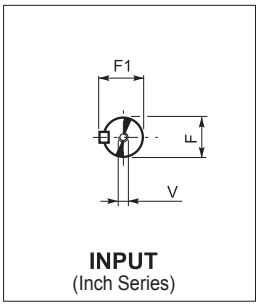




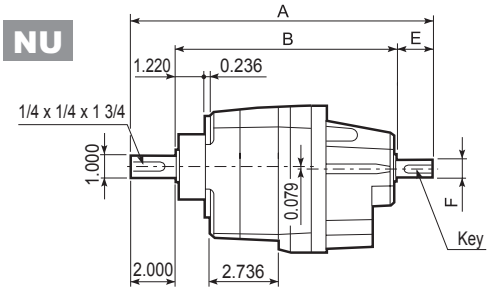
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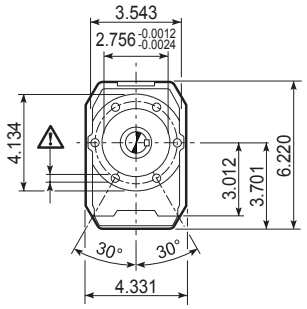


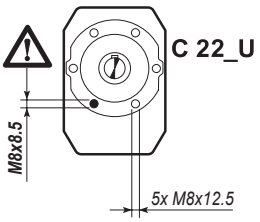




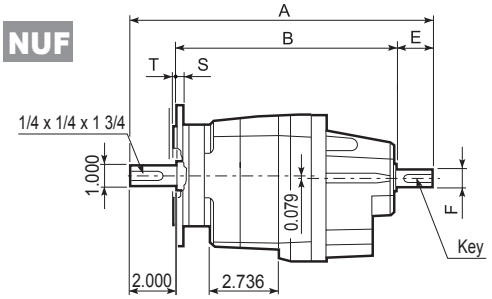
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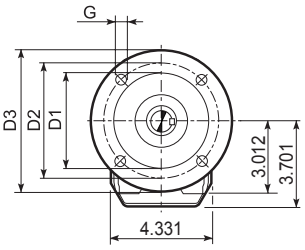






NUF





C 22_NU						
	D1	D2	D3	G	T	S
FA	3.740 -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

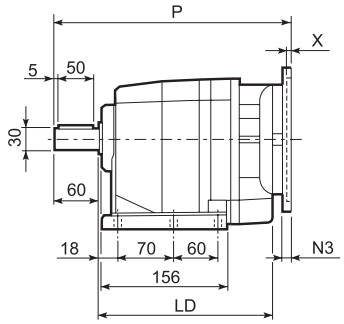
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

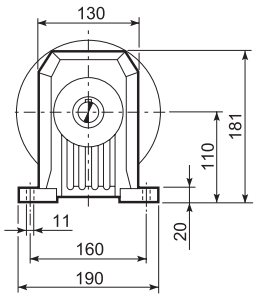
		A	B	E	F	F1	V	Key	lbs
C 22 2	NHS	12.748	9.173	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	16
C 22 3		13.240	9.665	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

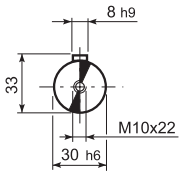
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

C 32...P(IEC)

P

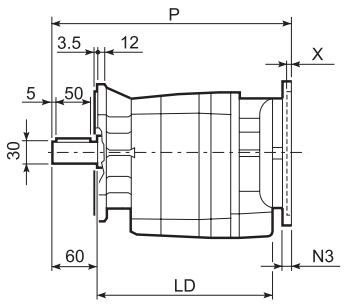


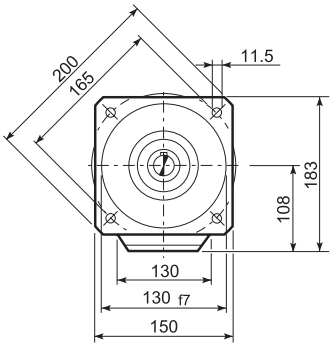


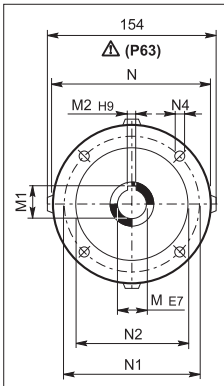


OUTPUT

F

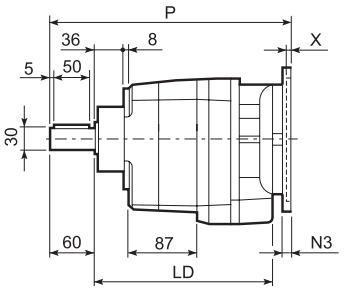


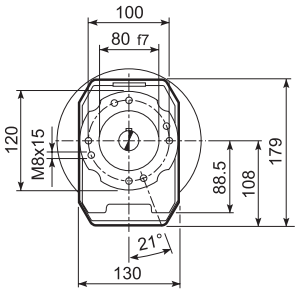




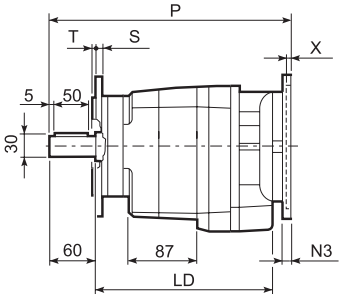
INPUT

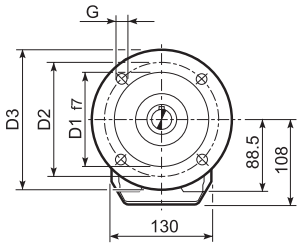
U





UF





C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

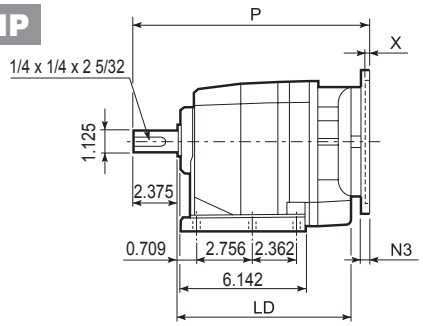
Dimensões em mm

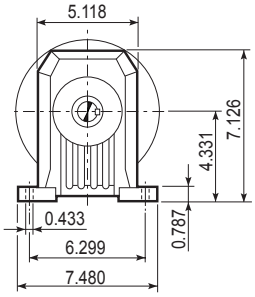
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 32 2	P63	217.5	11	12.8	4	140	115	95	—	M8x19	4	307.5	9
C 32 2	P71	217.5	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	9
C 32 2	P80	227.5	19	21.8	6	200	165	130	—	M10x12	4	327	10
C 32 2	P90	227.5	24	27.3	8	200	165	130	—	M10x12	4	327	10
C 32 2	P100	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P112	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P132	—	38	41.3	10	300	265	230	16	14	5	373	17
C 32 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	365	10
C 32 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	365	10
C 32 3	P80	—	19	21.8	6	200	165	130	—	M10x12	4	384.5	11
C 32 3	P90	—	24	27.3	8	200	165	130	—	M10x12	4	384.5	11
C 32 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15
C 32 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15

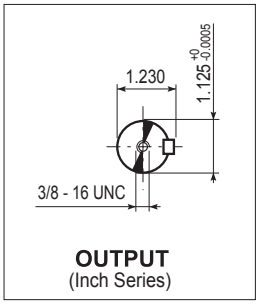
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 32...N(NEMA Input)

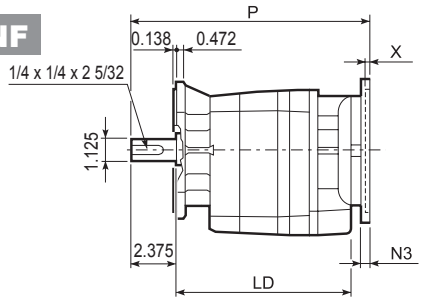
NP

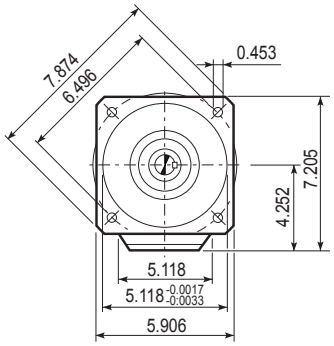


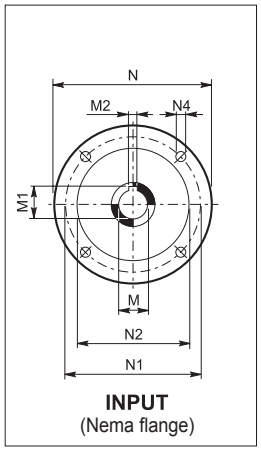




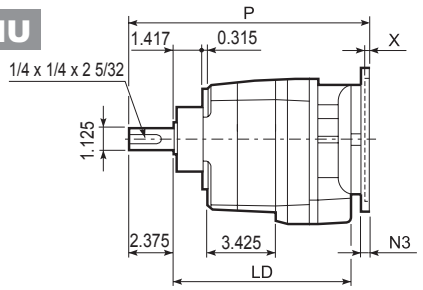
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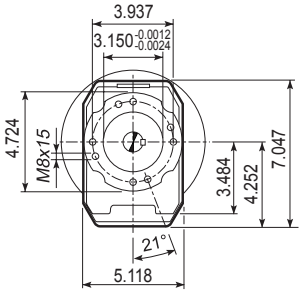




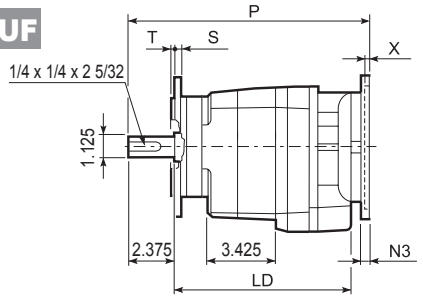


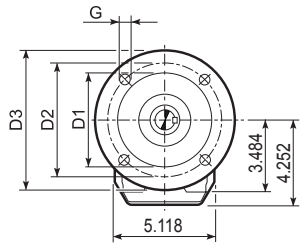
NU





NUF



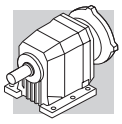


C 32_NU						
	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

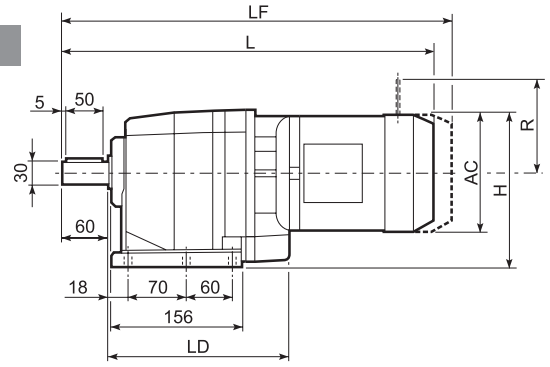
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 32 2	N56C	8.563	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.906	20
C 32 2	N140TC	8.563	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.906	22
C 32 2	N180TC	8.957	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	13.733	31
C 32 2	N210TC	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	14.875	37
C 32 3	N56C	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.170	22
C 32 3	N140TC	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.170	24
C 32 3	N180TC	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	15.997	33

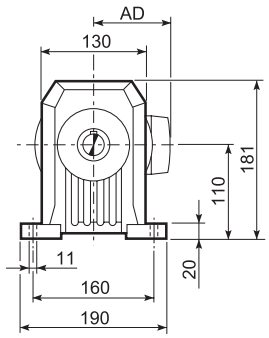
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

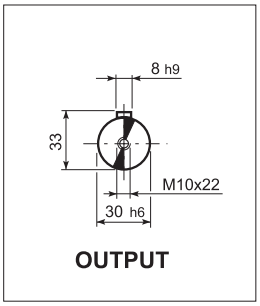


C 32...M/ME

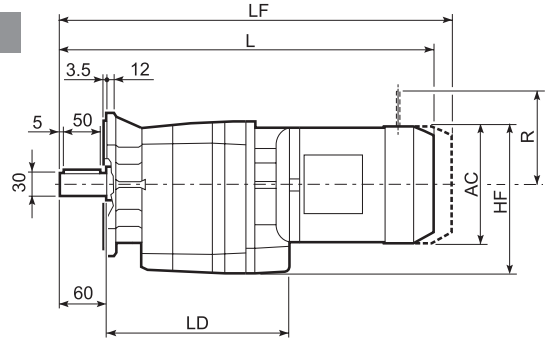
P

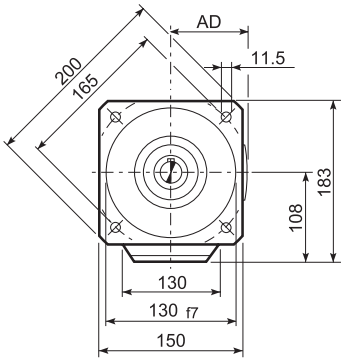




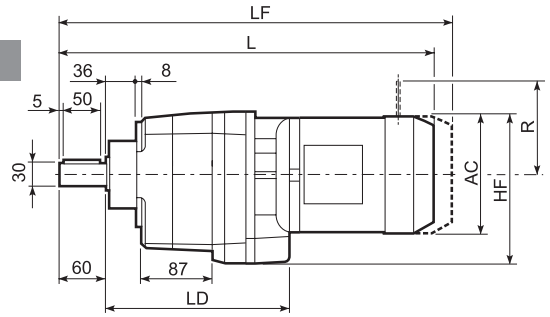


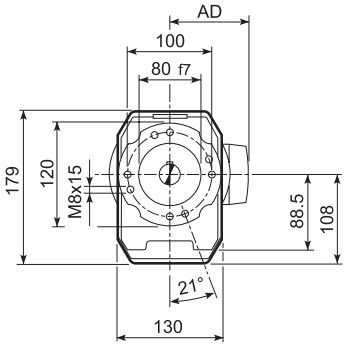
F



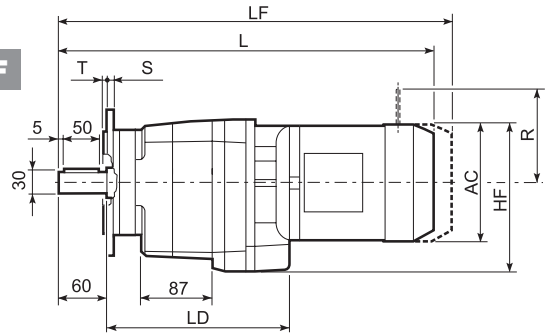


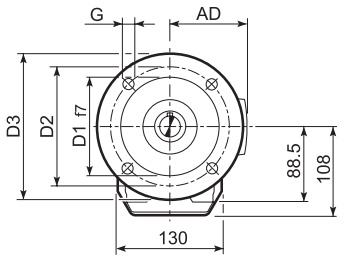
U





UF



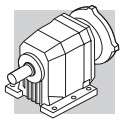


C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

Dimensões em mm

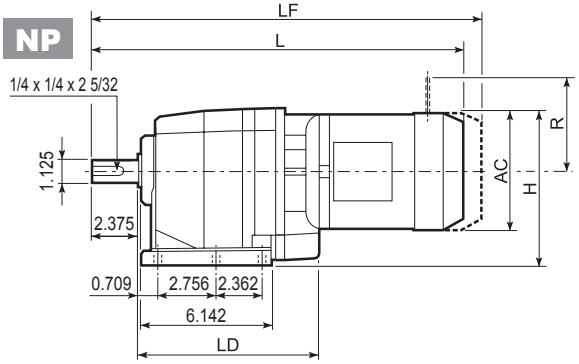
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 32 2	S1	M1	138	179	177	462.5	205.5	108	14	523.5	16	103	135	124	108
C 32 2	S2	M2S	156	188	186	490.5	217.5	119	18	561.5	21	129	146	134	119
C 32 2	S2	ME2S	156	188	186	490.5	217.5	119	18	—	—	—	—	—	—
C 32 2	S3	ME3S	195	207.5	205.5	534.5	227.5	142	24.5	—	—	—	—	—	—
C 32 2	S3	ME3L	195	207.5	205.5	566.5	227.5	142	32	—	—	—	—	—	—
C 32 2	S4	ME4	258	239	237	674.5	—	193	66	—	—	—	—	—	—
C 32 2	S4	ME4LB	258	239	237	709.5	—	193	74	—	—	—	—	—	—
C 32 3	S05	M05	121	170.5	168.5	491	—	95	13	557	15	96	122	116	95
C 32 3	S1	M1	138	179	177	520	—	108	15	581	17	103	135	124	108
C 32 3	S2	ME2S	156	188	186	548	—	119	18	—	—	—	—	—	—
C 32 3	S3	ME3S	195	207.5	205.5	592	—	142	25.5	—	—	—	—	—	—
C 32 3	S3	ME3L	195	207.5	205.5	624	—	142	33	—	—	—	—	—	—

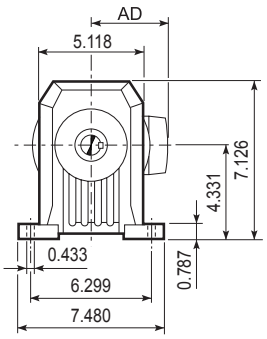
Bonfiglioli Riduttori

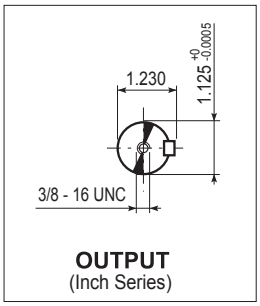


C 32...M/ME

NP

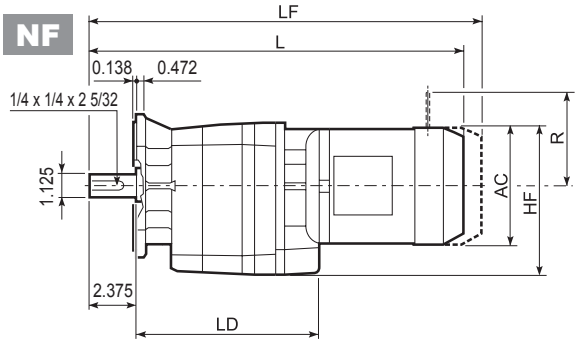


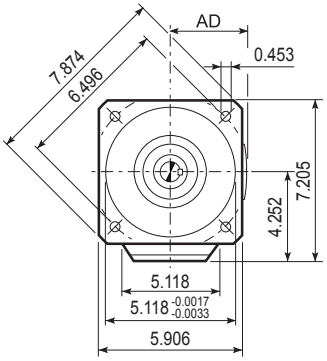




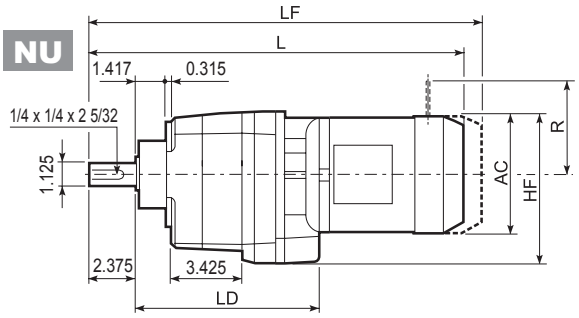
OUTPUT
(Inch Series)

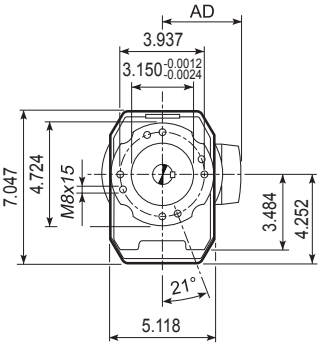
NF



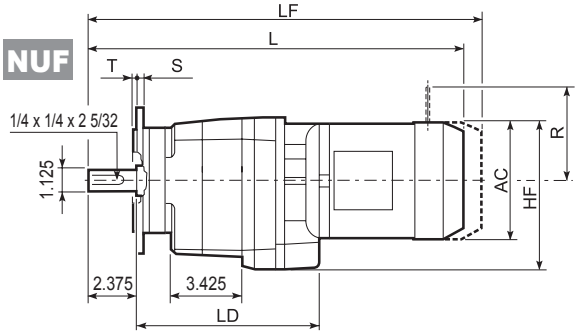


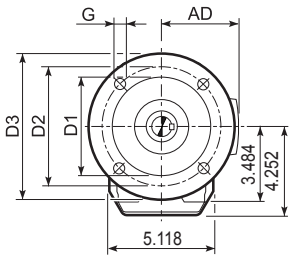
NU





NUF

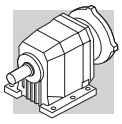




C 32_NU	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

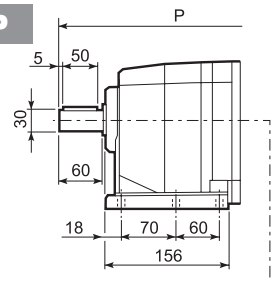
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 32 2	S1	M1	5.433	7.047	6.969	18.221	8.091	4.252	31	20.623	35	4.055	5.315	4.882	4.252
C 32 2	S2	M2S	6.142	7.402	7.323	19.324	8.563	4.685	40	22.119	46	5.079	5.748	5.276	4.685
C 32 2	S2	ME2S	6.142	7.402	7.323	19.324	8.563	4.685	40	—	—	—	—	—	—
C 32 2	S3	ME3S	7.677	8.169	8.091	21.056	8.957	5.591	54	—	—	—	—	—	—
C 32 2	S3	ME3L	7.677	8.169	8.091	22.316	8.957	5.591	71	—	—	—	—	—	—
C 32 2	S4	ME4	10.157	9.409	9.331	26.568	—	7.598	146	—	—	—	—	—	—
C 32 2	S4	ME4LB	10.157	9.409	9.331	27.946	—	7.598	163	—	—	—	—	—	—
C 32 3	S05	M05	4.764	6.713	6.634	19.344	—	3.740	29	21.942	33	3.780	4.803	4.567	3.740
C 32 3	S1	M1	5.433	7.047	6.969	20.485	—	4.252	33	22.887	37	4.055	5.315	4.882	4.252
C 32 3	S2	ME2S	6.142	7.402	7.323	21.588	—	4.685	40	—	—	—	—	—	—
C 32 3	S3	ME3S	7.677	8.169	8.091	23.320	—	5.591	56	—	—	—	—	—	—
C 32 3	S3	ME3L	7.677	8.169	8.091	24.580	—	5.591	73	—	—	—	—	—	—

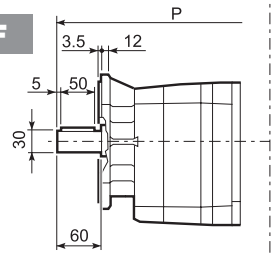


C 32...SK / SC

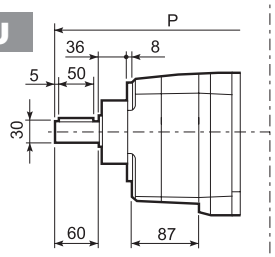
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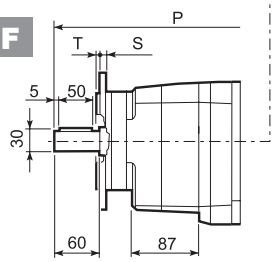
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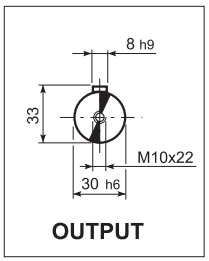


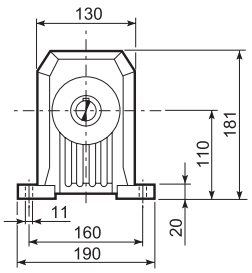
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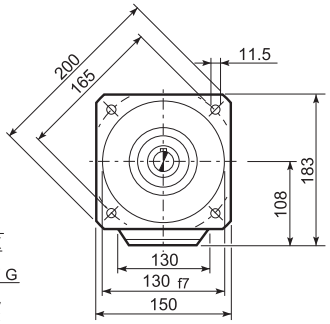


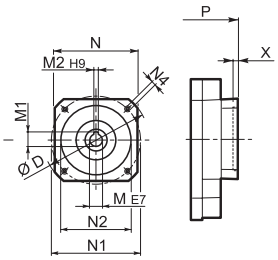
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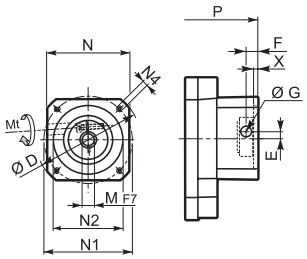




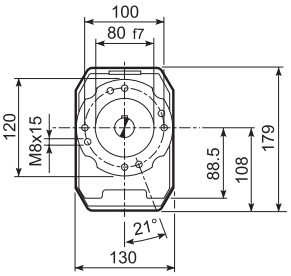




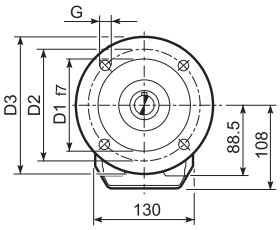
SK...



SC...



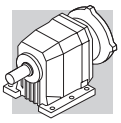
C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13



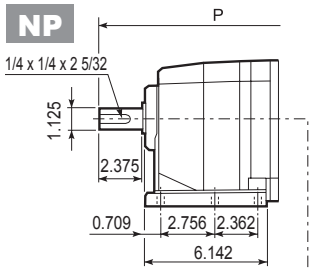
Dimensões em mm

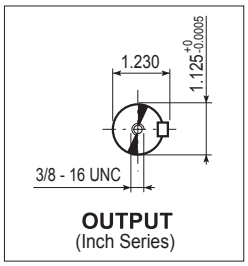
		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 32 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	279	336.5	8/9
C 32 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	286	343.5	9/10
C 32 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	286	343.5	9/10
C 32 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	327	384.5	10/11
C 32 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	327	384.5	10/11
C 32 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	327	384.5	10/11
C 32 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	327	—	11

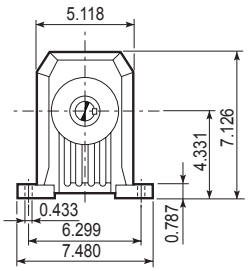
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
C 32 2/3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	306	363.5	9/10
C 32 2/3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	306	363.5	10/11
C 32 2/3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	306	363.5	10/11
C 32 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	350.5	408	11/12
C 32 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	350.5	408	12/13
C 32 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	350.5	408	12/13
C 32 2	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	350.5	—	13

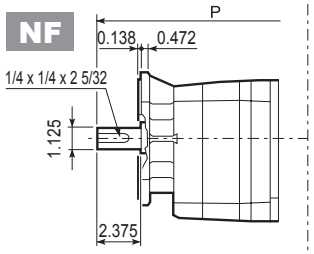


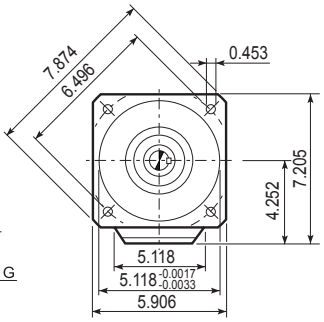
C 32...SK / SC

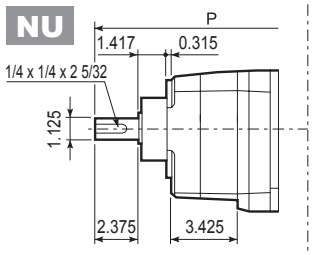


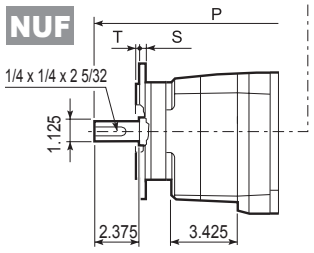


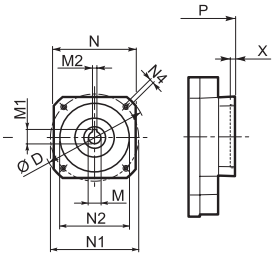




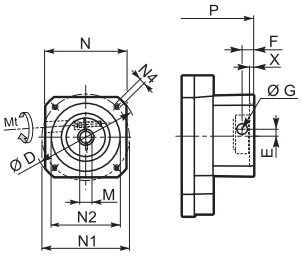




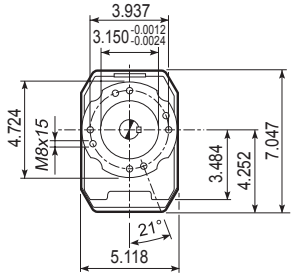


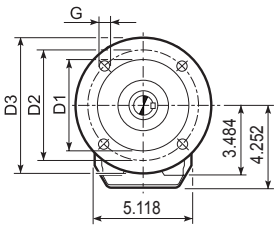


SK...



SC...





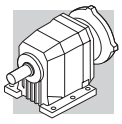
C 32_NU

	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

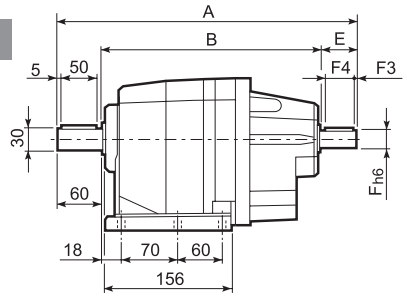
		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 32 2/3	**SK60A**	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	11.309	13.573	18/20
C 32 2/3	**SK60B**	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	11.585	13.849	20/22
C 32 2/3	**SK80A**	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	11.585	13.849	20/22
C 32 2/3	**SK80C**	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK95A**	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK95B**	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK95C**	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	13.199	15.463	22/24
C 32 2/3	**SK110A**	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	13.199	15.463	22/24
C 32 2/3	**SK110B**	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	13.199	15.463	22/24
C 32 2	**SK130A**	7.402	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	5.591	6.496	5.118	*M10x20*	0.197	13.199	—	24

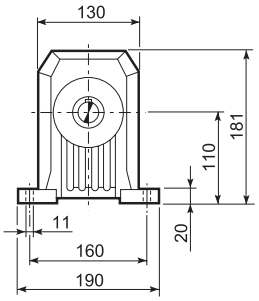
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
C 32 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	12.372	14.636	20/22
C 32 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	12.372	14.636	22/24
C 32 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	12.372	14.636	22/24
C 32 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	14.124	16.388	24/26
C 32 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	14.124	16.388	24/26
C 32 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	14.124	16.388	24/26
C 32 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	14.124	16.388	24/26
C 32 2/3	**SC 110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	14.124	16.388	26/29
C 32 2/3	**SC 110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	14.124	16.388	26/29
C 32 2	**SC 130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 +0.0016 +0.0008	5.591	6.496	5.118	*M10x20*	0.197	14.124	—	29

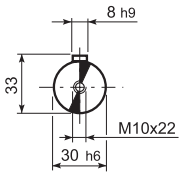


C 32...HS

P

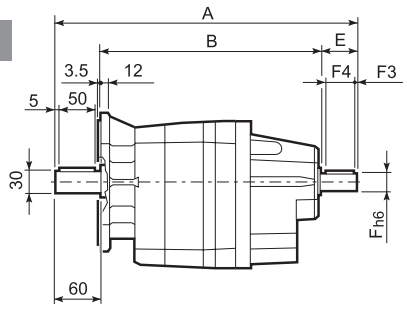


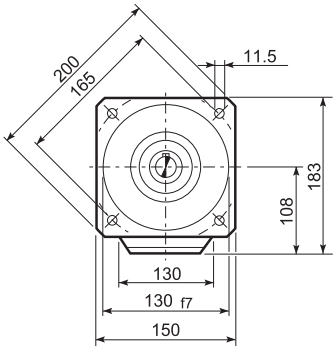


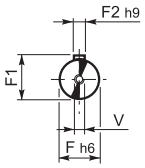


OUTPUT

F

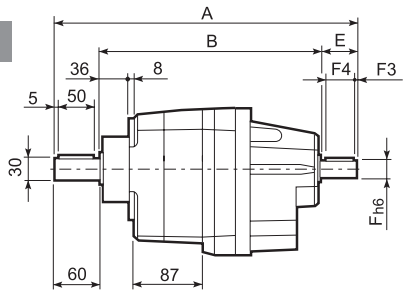


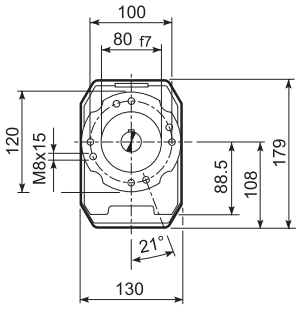




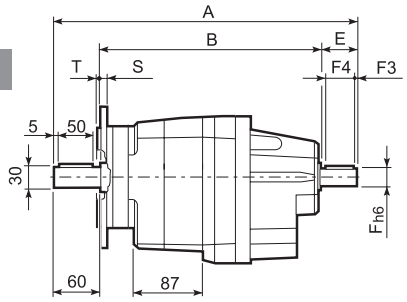
INPUT

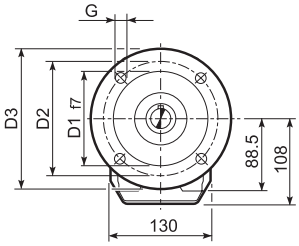
U





UF





C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

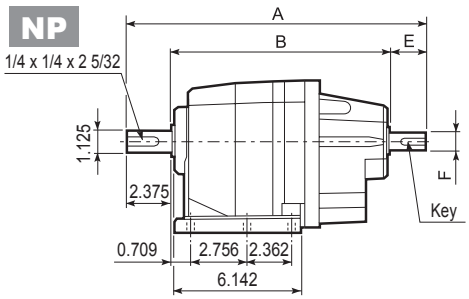
Dimensões em mm

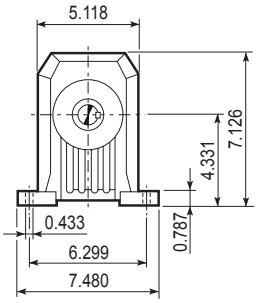
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 32 2	HS	357.5	257.5	40	19	21.5	6	2.5	35	M6x16	11.1
C 32 3		372	272	40	16	18	5	2.5	35	M6x16	10.6

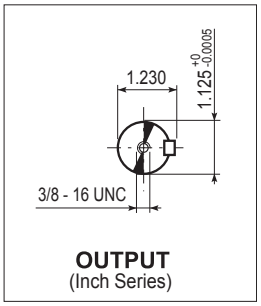
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 32...NHS

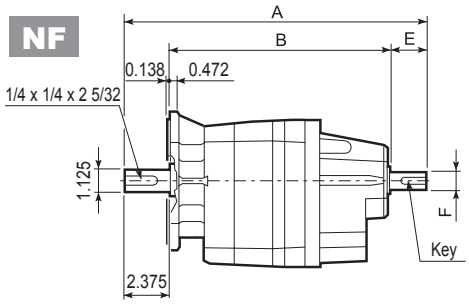
NP

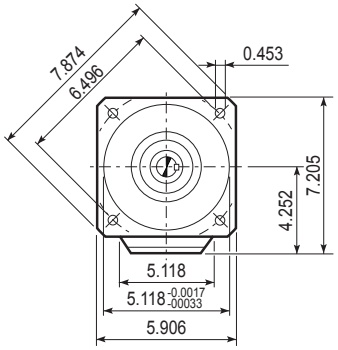


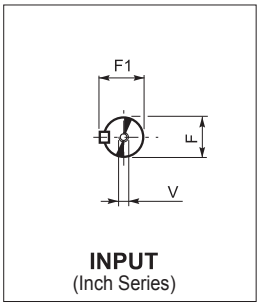




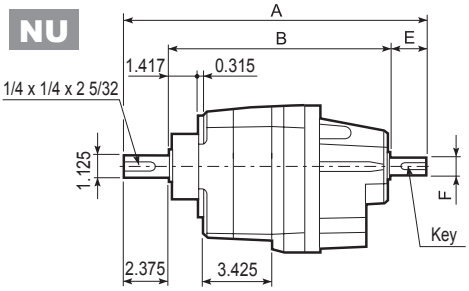
NF

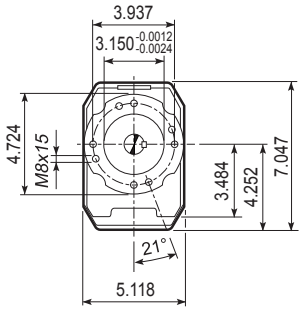




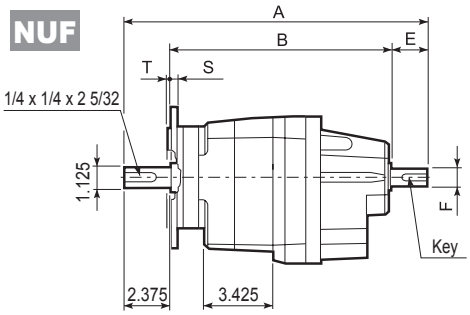


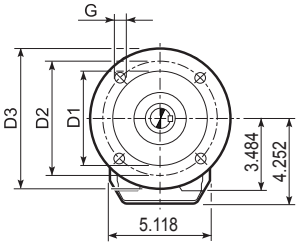
NU





NUF



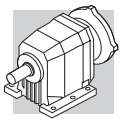


C 32_NU						
	D1	D2	D3	G	T	S
FA	4.331 -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

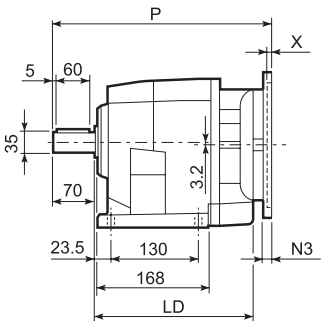
		A	B	E	F	F1	V	Key	lbs
C 32 2	NHS	14.088	10.138	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	24
C 32 3		14.658	10.709	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	23

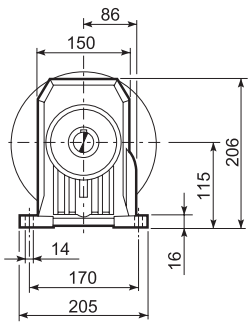
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

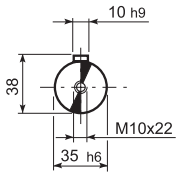


C 36...P(IEC)

P

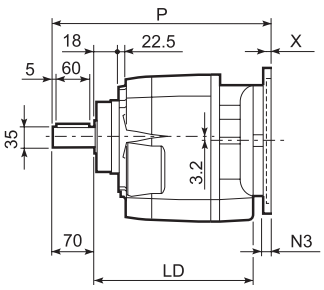


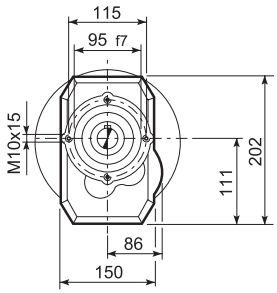


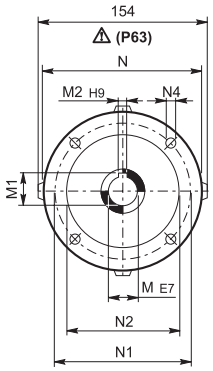


OUTPUT

U

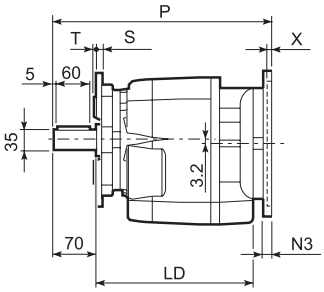


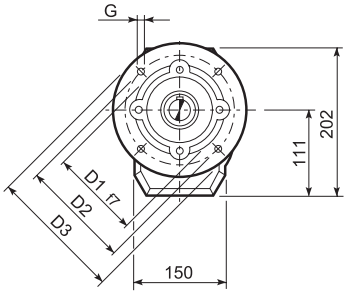




INPUT

UF





C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

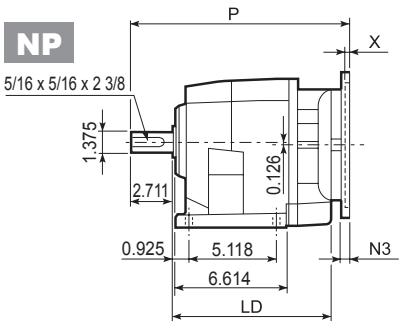
Dimensões em mm

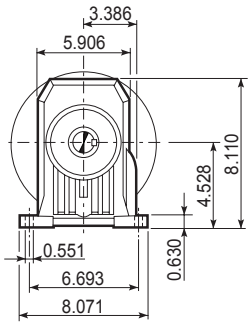
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 36 2/3	**P63**	226	11	12.8	4	140	115	95	—	M8x19	4	326	17
C 36 2/3	**P71**	226	14	16.3	5	160	130	110	—	M8x16	4.5	326	17
C 36 2/3	**P80**	236	19	21.8	6	200	165	130	—	M10x12	4	345.5	18
C 36 2/3	**P90**	236	24	27.3	8	200	165	130	—	M10x12	4	345.5	18
C 36 2/3	**P100**	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	**P112**	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	**P132**	—	38	41.3	10	300	265	230	16	14	5	392.5	25
C 36 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	383.5	20
C 36 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	383.5	20
C 36 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	403	21
C 36 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	403	21
C 36 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25
C 36 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25

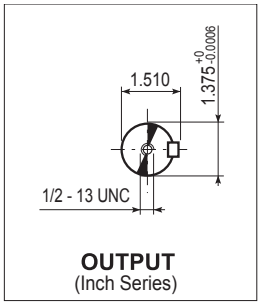
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 36...N(NEMA Input)

NP

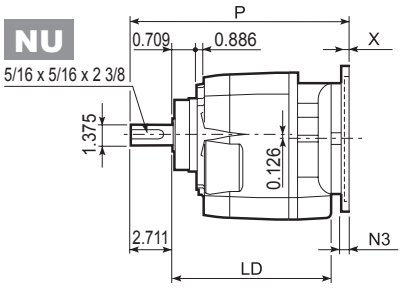


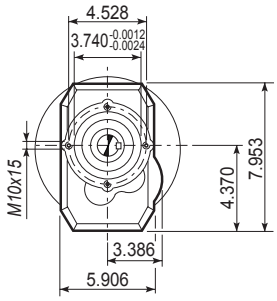


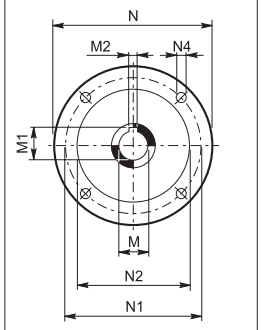


OUTPUT
(Inch Series)

NU

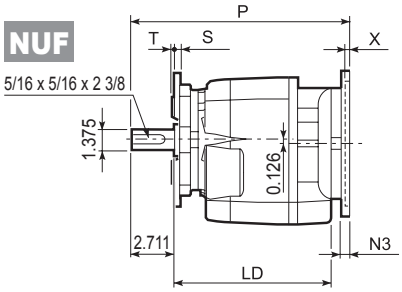


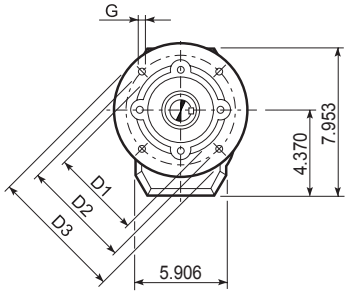




INPUT
(Nema flange)

NUF



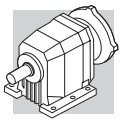


C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

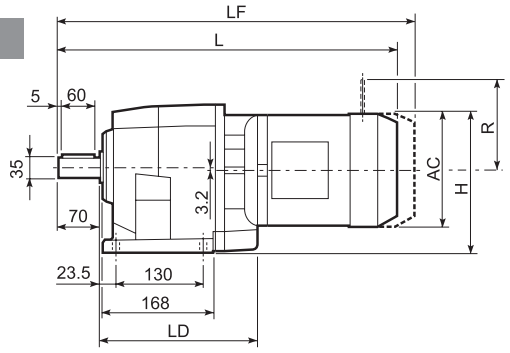
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 36 2/3	**N56C**	8.898	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.577	37
C 36 2/3	**N140TC**	8.898	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.577	40
C 36 2/3	**N180TC**	9.291	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.404	49
C 36 2/3	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	15.585	55
C 36 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.841	44
C 36 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	15.841	46
C 36 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	16.667	55

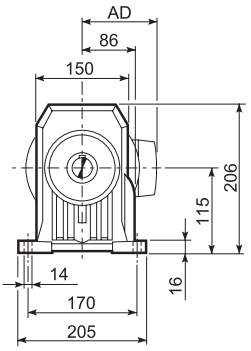
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

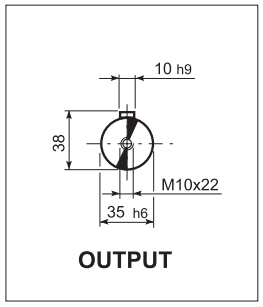


C 36...M/ME

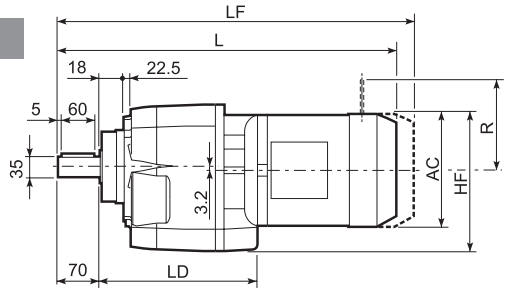
P

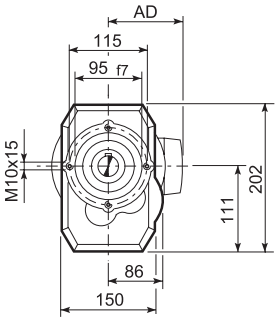




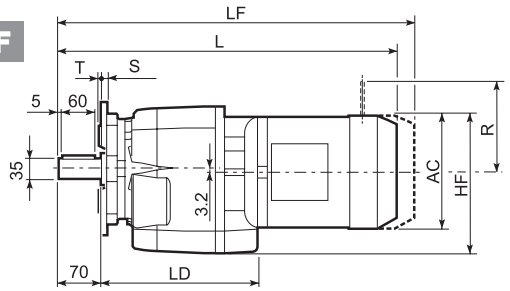


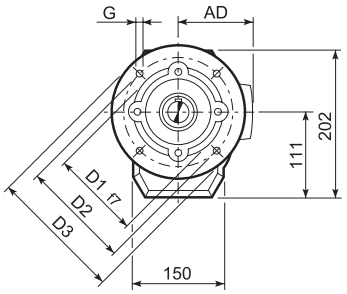
U





UF





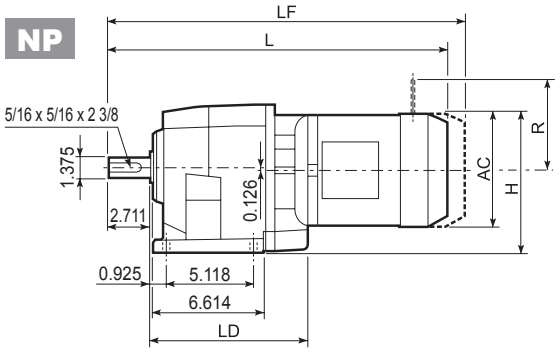
C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

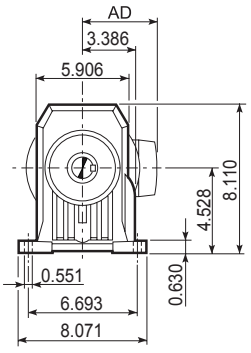
Dimensões em mm

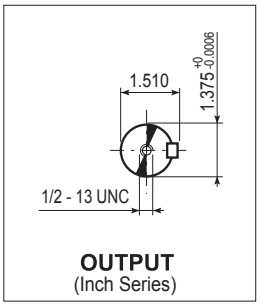
										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 36 2/3	S1	M1	138	184	177	481	214	108	20	542	21	103	135	124	108
C 36 2/3	S2	ME2S	156	193	186	509	226	119	23	—	—	—	—	—	—
C 36 2/3	S3	ME3S	195	212.5	205.5	553	236	142	29.5	—	—	—	—	—	—
C 36 2/3	S3	ME3L	195	212.5	205.5	585	236	142	37	—	—	—	—	—	—
C 36 2/3	S4	ME4	258	244	240	693.5	—	193	71	—	—	—	—	—	—
C 36 2/3	S4	ME4LB	258	244	240	728.5	—	193	79	—	—	—	—	—	—
C 36 4	S05	M05	121	175.5	168.5	509.5	—	95	19	575.5	20	96	122	116	95
C 36 4	S1	M1	138	184	177	538.5	—	108	21	599.5	22	103	135	124	108
C 36 4	S2	ME2S	156	193	186	566.5	—	119	24	—	—	—	—	—	—
C 36 4	S3	ME3S	195	212.5	205.5	610.5	—	142	30.5	—	—	—	—	—	—
C 36 4	S3	ME3L	195	212.5	205.5	642.5	—	142	38	—	—	—	—	—	—

C 36...M/ME

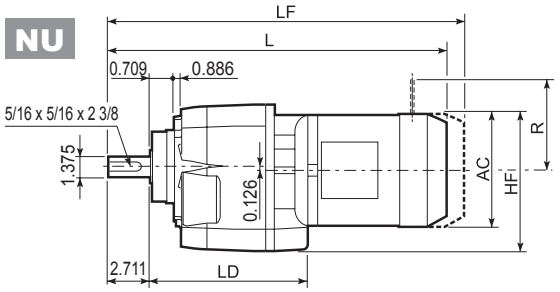
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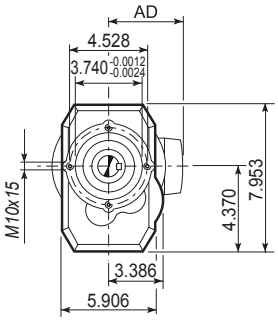




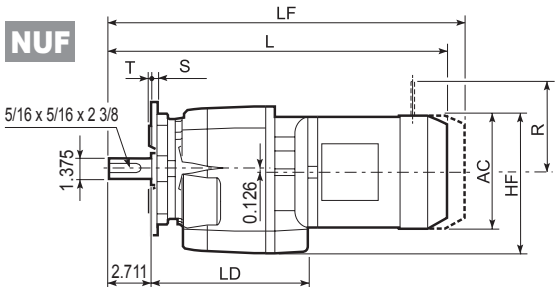


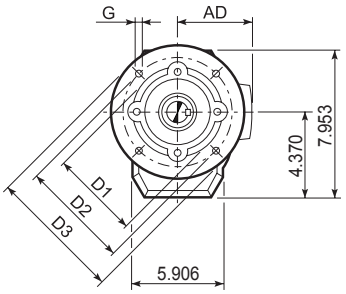
NU





NUF

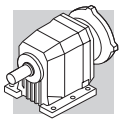




C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551

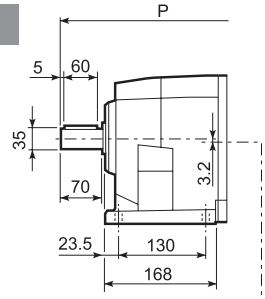
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

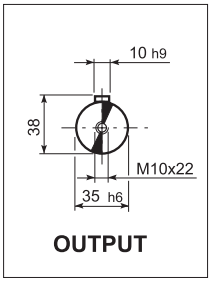
										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 36 2/3	S1	M1	5.433	7.244	6.969	18.892	8.425	4.252	44	21.293	46	4.055	5.315	4.882	4.252
C 36 2/3	S2	ME2S	6.142	7.598	7.323	19.994	8.898	4.685	51	—	—	—	—	—	—
C 36 2/3	S3	ME3S	7.677	8.366	8.091	21.726	9.291	5.591	65	—	—	—	—	—	—
C 36 2/3	S3	ME3L	7.677	8.366	8.091	22.986	9.291	5.591	82	—	—	—	—	—	—
C 36 2/3	S4	ME4	10.157	9.606	9.449	27.303	—	7.598	157	—	—	—	—	—	—
C 36 2/3	S4	ME4LB	10.157	9.606	9.449	28.636	—	7.598	174	—	—	—	—	—	—
C 36 4	S05	M05	4.764	6.909	6.634	20.014	—	3.740	42	22.612	44	3.780	4.803	4.567	3.740
C 36 4	S1	M1	5.433	7.244	6.969	21.156	—	4.252	46	23.557	49	4.055	5.315	4.882	4.252
C 36 4	S2	ME2S	6.142	7.598	7.323	22.258	—	4.685	53	—	—	—	—	—	—
C 36 4	S3	ME3S	7.677	8.366	8.091	23.990	—	5.591	67	—	—	—	—	—	—
C 36 4	S3	ME3L	7.677	8.366	8.091	25.250	—	5.591	84	—	—	—	—	—	—

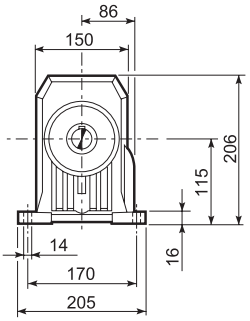


C 36...SK / SC

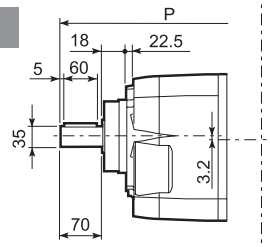
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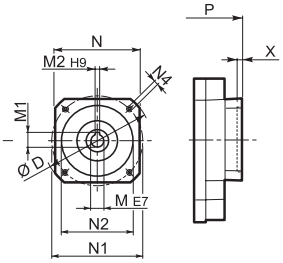




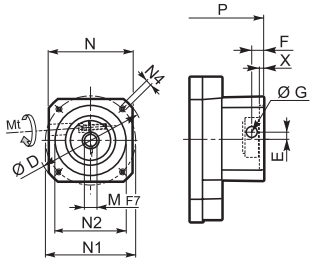


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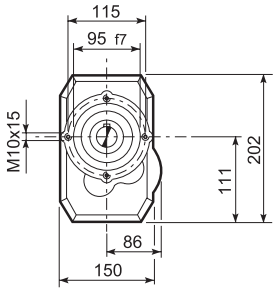




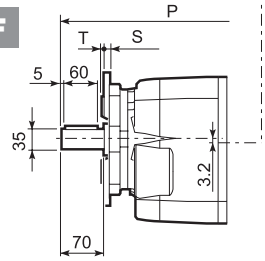
SK...



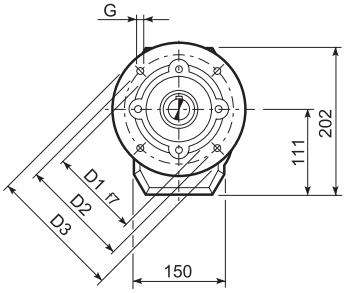
SC...



UF



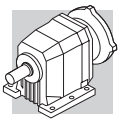
C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14



Dimensões em mm

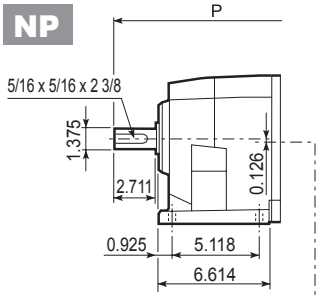
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 36 2/3/4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	297.5	355	16/16/19
C 36 2/3/4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	304.5	362	17/17/20
C 36 2/3/4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	304.5	362	18/18/21
C 36 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	304.5	403	18/18/21
C 36 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	345.5	—	19/19

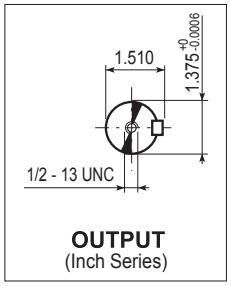
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 36 2/3/4	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	324.5	382	17/17/20
C 36 2/3/4	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	324.5	382	18/18/21
C 36 2/3/4	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	324.5	426.5	18/18/21
C 36 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	369	426.5	19/19/22
C 36 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	369	—	22/22

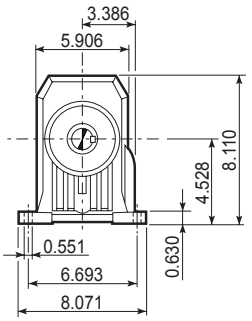


C 36...SK / SC

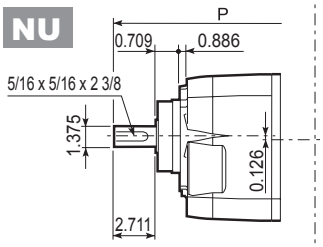
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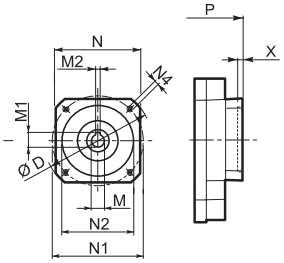




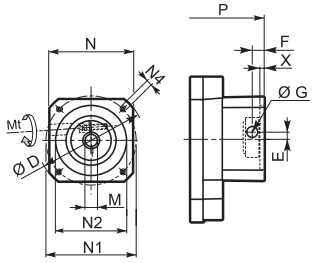


NU

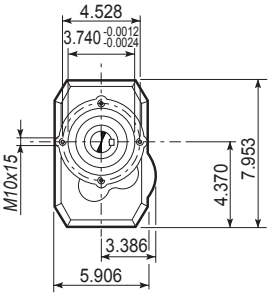




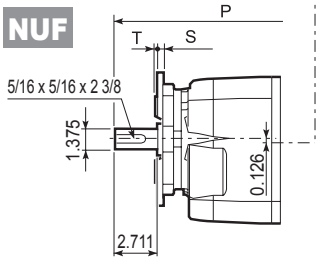
SK...



SC...

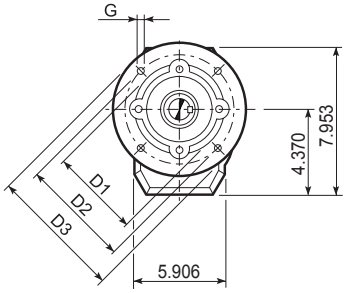


NUF



C 36_NU

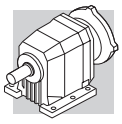
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

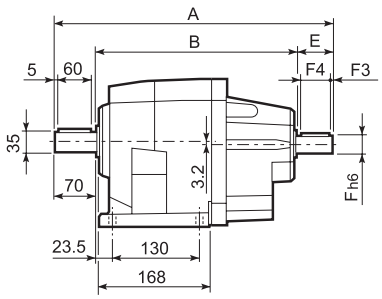
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 36 2/3/4	**SK60A**	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	11.667	13.931	35/35/42
C 36 2/3/4	**SK60B**	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	11.943	14.207	37/37/44
C 36 2/3/4	**SK80A**	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	11.943	14.207	40/40/46
C 36 2/3/4	**SK80C**	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	11.943	15.821	40/40/46
C 36 2/3/4	**SK95A**	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	13.557	15.821	40/40/46
C 36 2/3/4	**SK95B**	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	13.557	15.821	40/40/46
C 36 2/3/4	**SK95C**	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	13.557	15.821	40/40/46
C 36 2/3/4	**SK110A**	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	13.557	15.821	40/40/46
C 36 2/3/4	**SK110B**	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	13.557	15.821	40/40/46
C 36 2/3	**SK130A**	7.402	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	5.591	6.496	5.118	*M10x20*	0.197	13.557	—	42/42

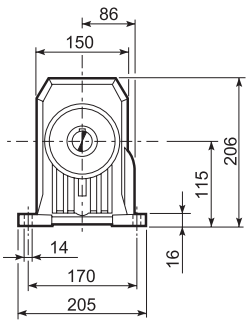
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 36 2/3/4	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	12.730	14.994	37/37/44
C 36 2/3/4	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	12.730	14.994	40/40/46
C 36 2/3/4	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	12.730	16.746	40/40/46
C 36 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	14.482	16.746	42/42/49
C 36 2/3/4	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	14.482	16.746	46/46/53
C 36 2/3/4	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	14.482	16.746	46/46/53
C 36 2/3	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 +0.0016 +0.0008	5.591	6.496	5.118	*M10x20*	0.197	14.482	—	49/49

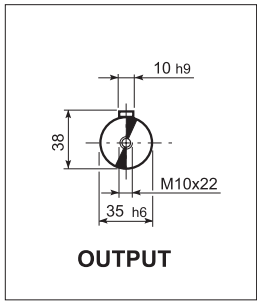


C 36...HS

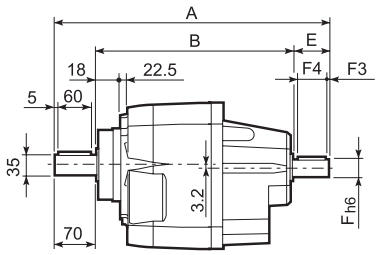
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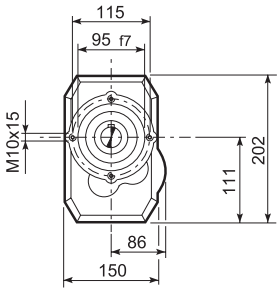


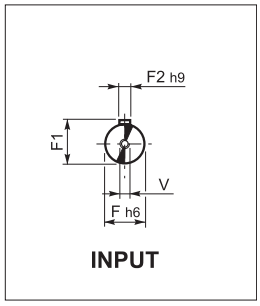




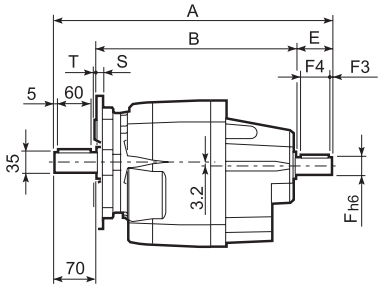
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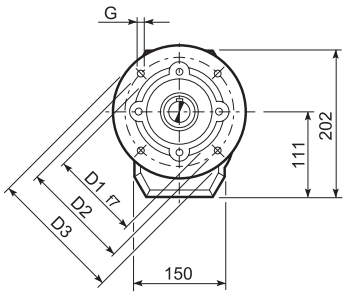






UF



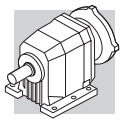


C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

Dimensões em mm

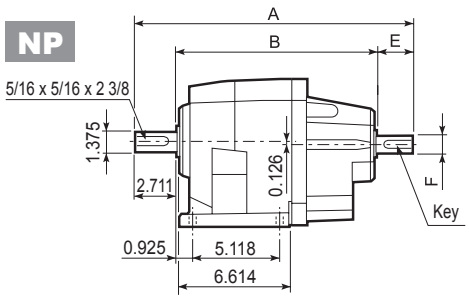
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 36 2	HS	415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 3		415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 4		390.5	280.5	40	16	18	5	2.5	36	M6x16	26.5

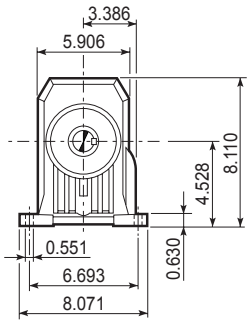
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

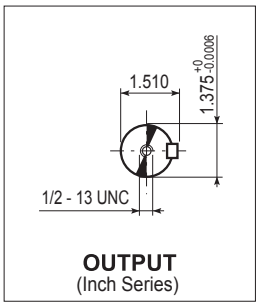


C 36...NHS

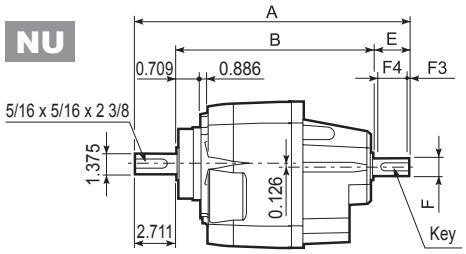
NP

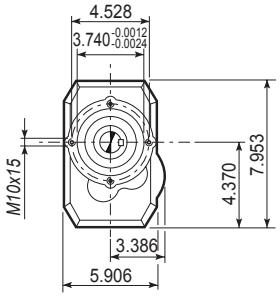


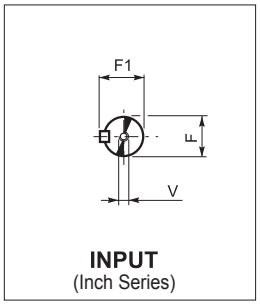




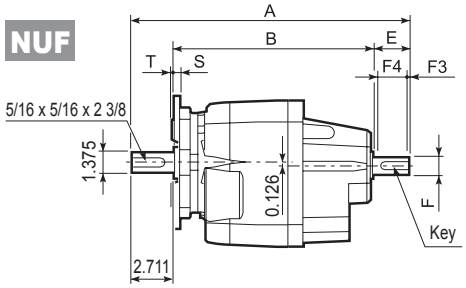
NU

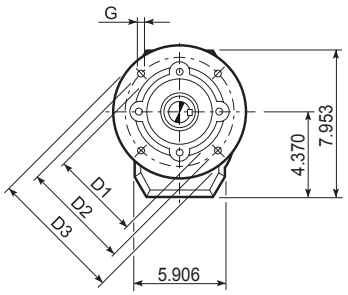






NUF



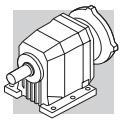


C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.551

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

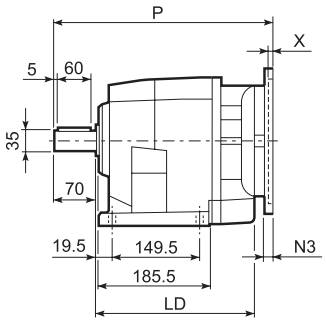
		A	B	E	F	F1	V	Key	lbs
C 36 2	NHS	16.313	11.634	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	56
C 36 3		16.313	11.634	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	56
C 36 4		15.329	11.043	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	58

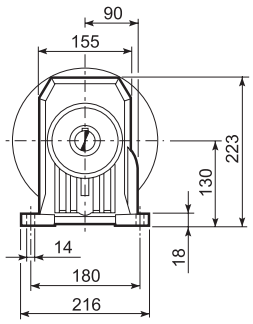
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

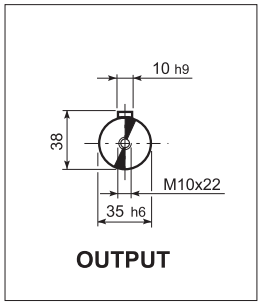


C 41...P(IEC)

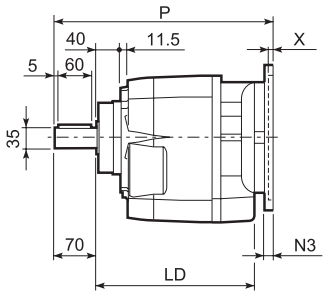
P

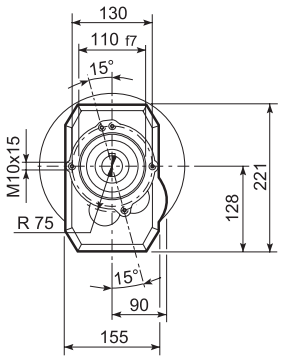


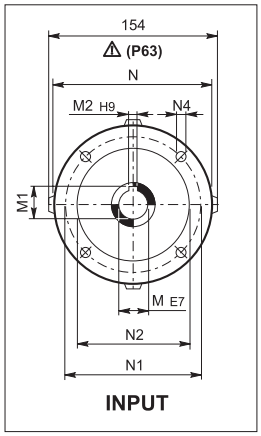




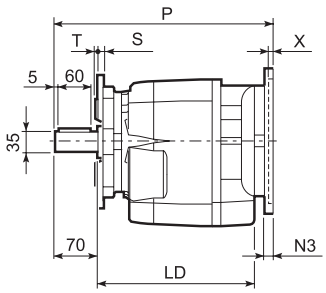
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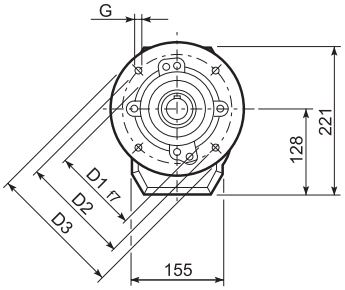






UF





C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

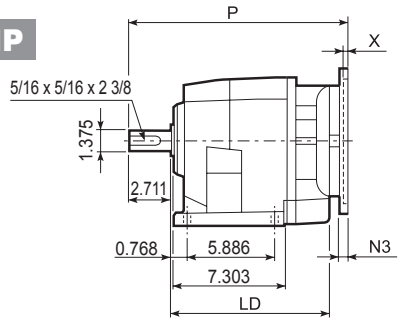
Dimensões em mm

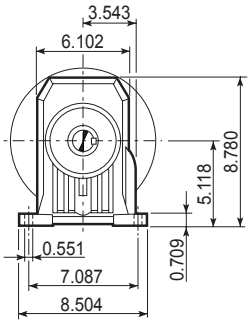
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 41 2/3	**P63**	235.5	11	12.8	4	140	115	95	—	M8x19	4	336.5	27
C 41 2/3	**P71**	235.5	14	16.3	5	160	130	110	—	M8x16	4.5	336.5	28
C 41 2/3	**P80**	251.5	19	21.8	6	200	165	130	—	M10x12	4	356	29
C 41 2/3	**P90**	251.5	24	27.3	8	200	165	130	—	M10x12	4	356	29
C 41 2/3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	**P132**	—	38	41.3	10	300	265	230	16	14	5	402.5	35
C 41 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	395	30
C 41 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	395	31
C 41 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	414.5	32
C 41 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	414.5	32
C 41 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36
C 41 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36

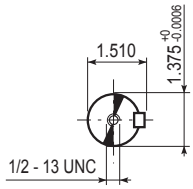
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 41...N(NEMA Input)

NP

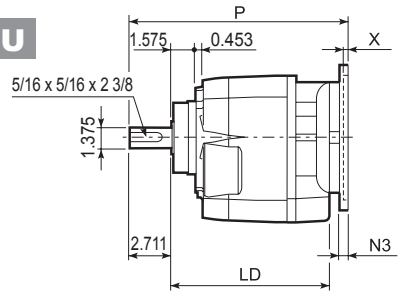


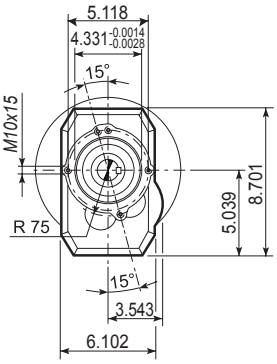


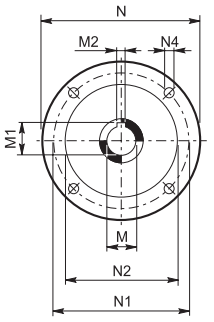


OUTPUT
(Inch Series)

NU

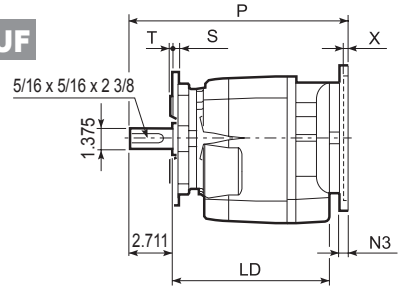


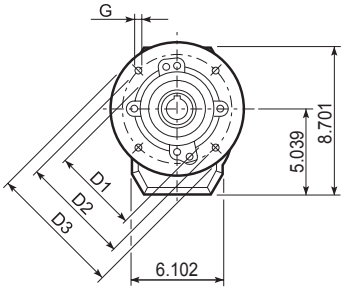




INPUT
(Nema flange)

NUF



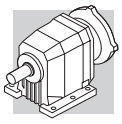


C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

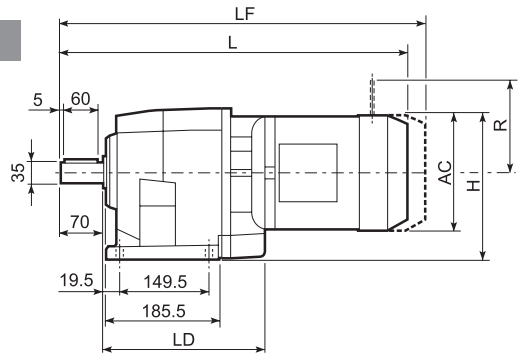
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 41 2/3	**N56C**	9.272	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.990	62
C 41 2/3	**N140TC**	9.272	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.990	64
C 41 2/3	**N180TC**	9.902	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.738	73
C 41 2/3	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	15.978	77
C 41 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.293	68
C 41 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.293	71
C 41 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	17.120	79

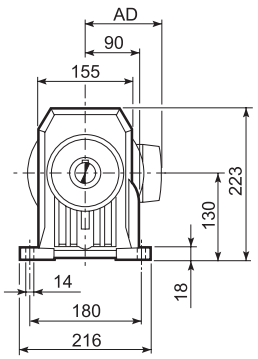
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

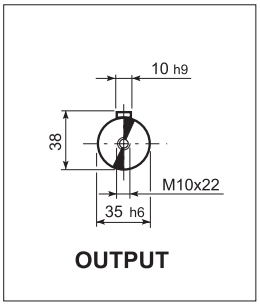


C 41...M/ME

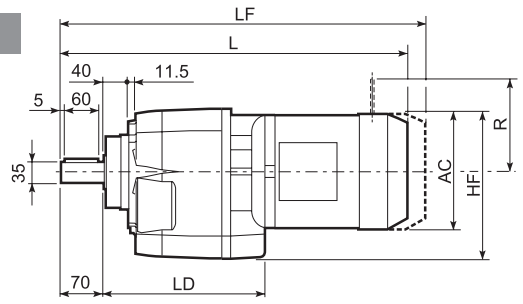
P

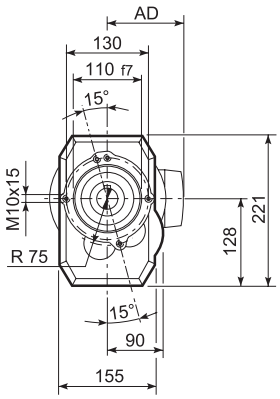




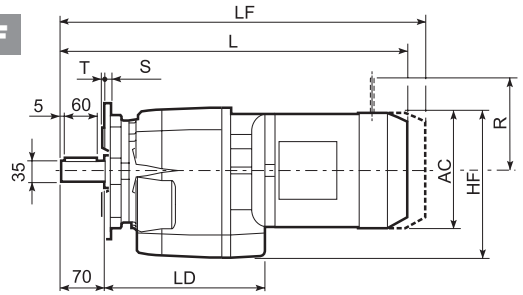


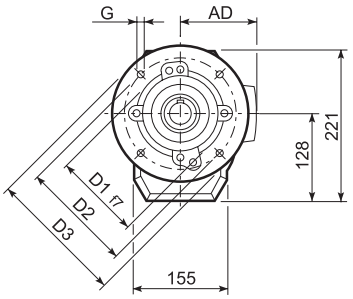
U





UF





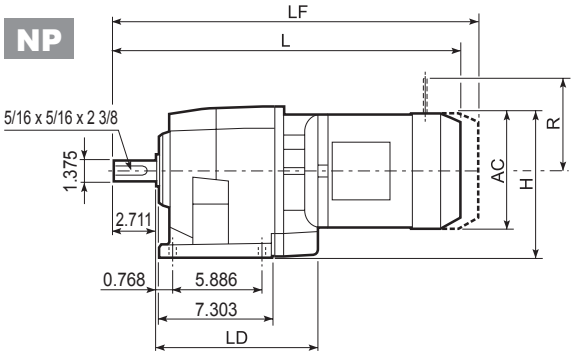
C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

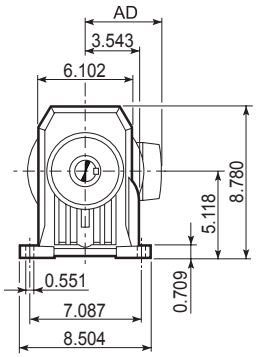
Dimensões em mm

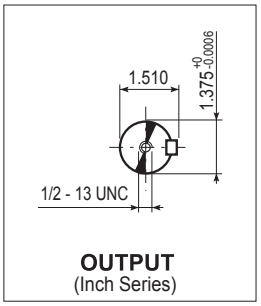
										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 41 2/3	S1	M1	138	199	197	491.5	220	108	25	552.5	28	103	135	124	108
C 41 2/3	S2	ME2S	156	208	206	519.5	235.5	119	31	—	—	—	—	—	—
C 41 2/3	S3	ME3S	195	227.5	225.5	563.5	251.5	142	37.5	—	—	—	—	—	—
C 41 2/3	S3	ME3L	195	227.5	225.5	595.5	251.5	142	45	—	—	—	—	—	—
C 41 2/3	S4	ME4	258	259	257	703.5	—	193	71	—	—	—	—	—	—
C 41 2/3	S4	ME4LB	258	259	257	739	—	193	78	—	—	—	—	—	—
C 41 4	S05	M05	231	245.5	243.5	524	—	95	27	590	28	96	122	116	95
C 41 4	S1	M1	138	199	197	553	—	108	28	614	31	103	135	124	108
C 41 4	S2	ME2S	156	208	206	581	—	119	34	—	—	—	—	—	—
C 41 4	S3	ME3S	195	227.5	225.5	625	—	142	40.5	—	—	—	—	—	—
C 41 4	S3	ME3L	195	227.5	225.5	657	—	142	48	—	—	—	—	—	—

C 41...M/ME

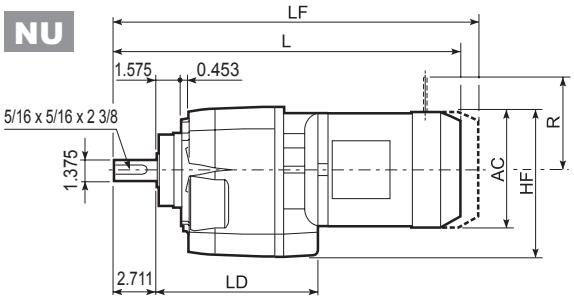
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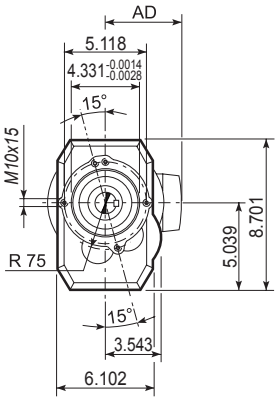




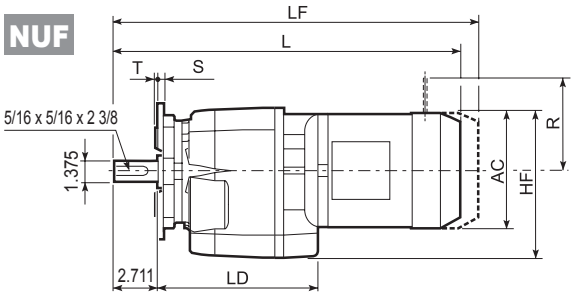


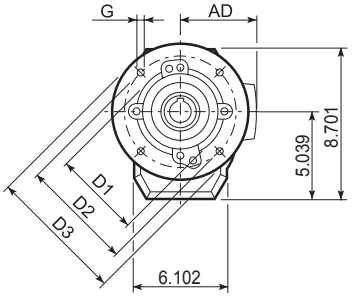
NU





NUF

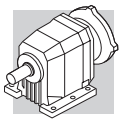




C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 $^{-0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512

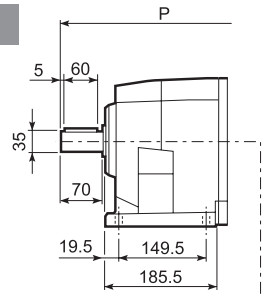
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

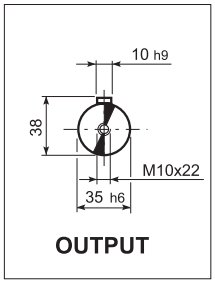
										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 41 2/3	S1	M1	5.433	7.835	7.756	19.305	8.661	4.252	55	21.707	62	4.055	5.315	4.882	4.252
C 41 2/3	S2	ME2S	6.142	8.189	8.110	20.407	9.272	4.685	68	—	—	—	—	—	—
C 41 2/3	S3	ME3S	7.677	8.957	8.878	22.140	9.902	5.591	83	—	—	—	—	—	—
C 41 2/3	S3	ME3L	7.677	8.957	8.878	23.400	9.902	5.591	99	—	—	—	—	—	—
C 41 2/3	S4	ME4	10.157	10.197	10.118	27.652	—	7.598	157	—	—	—	—	—	—
C 41 2/3	S4	ME4LB	10.157	10.197	10.118	29.049	—	7.598	172	—	—	—	—	—	—
C 41 4	S05	M05	9.094	9.665	9.587	20.585	—	3.740	60	23.183	62	3.780	4.803	4.567	3.740
C 41 4	S1	M1	5.433	7.835	7.756	21.726	—	4.252	62	24.128	68	4.055	5.315	4.882	4.252
C 41 4	S2	ME2S	6.142	8.189	8.110	22.829	—	4.685	75	—	—	—	—	—	—
C 41 4	S3	ME3S	7.677	8.957	8.878	24.561	—	5.591	89	—	—	—	—	—	—
C 41 4	S3	ME3L	7.677	8.957	8.878	25.821	—	5.591	106	—	—	—	—	—	—

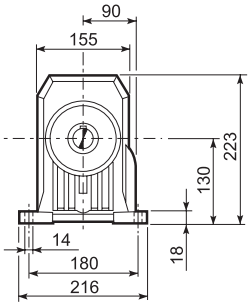


C 41...SK / SC

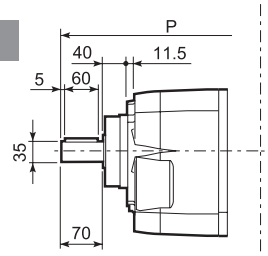
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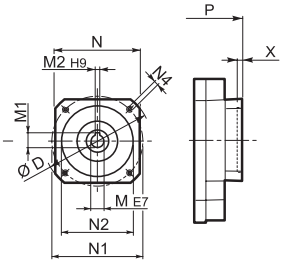


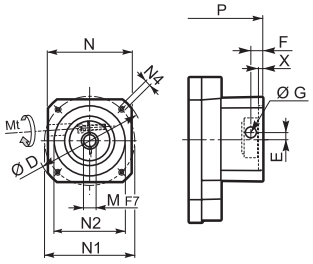


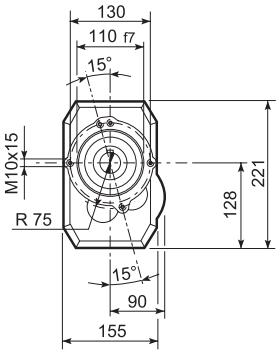


U



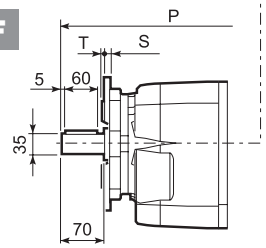




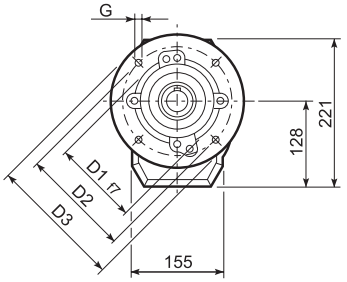


SK... **SC...**

UF



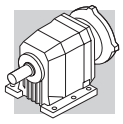
C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13



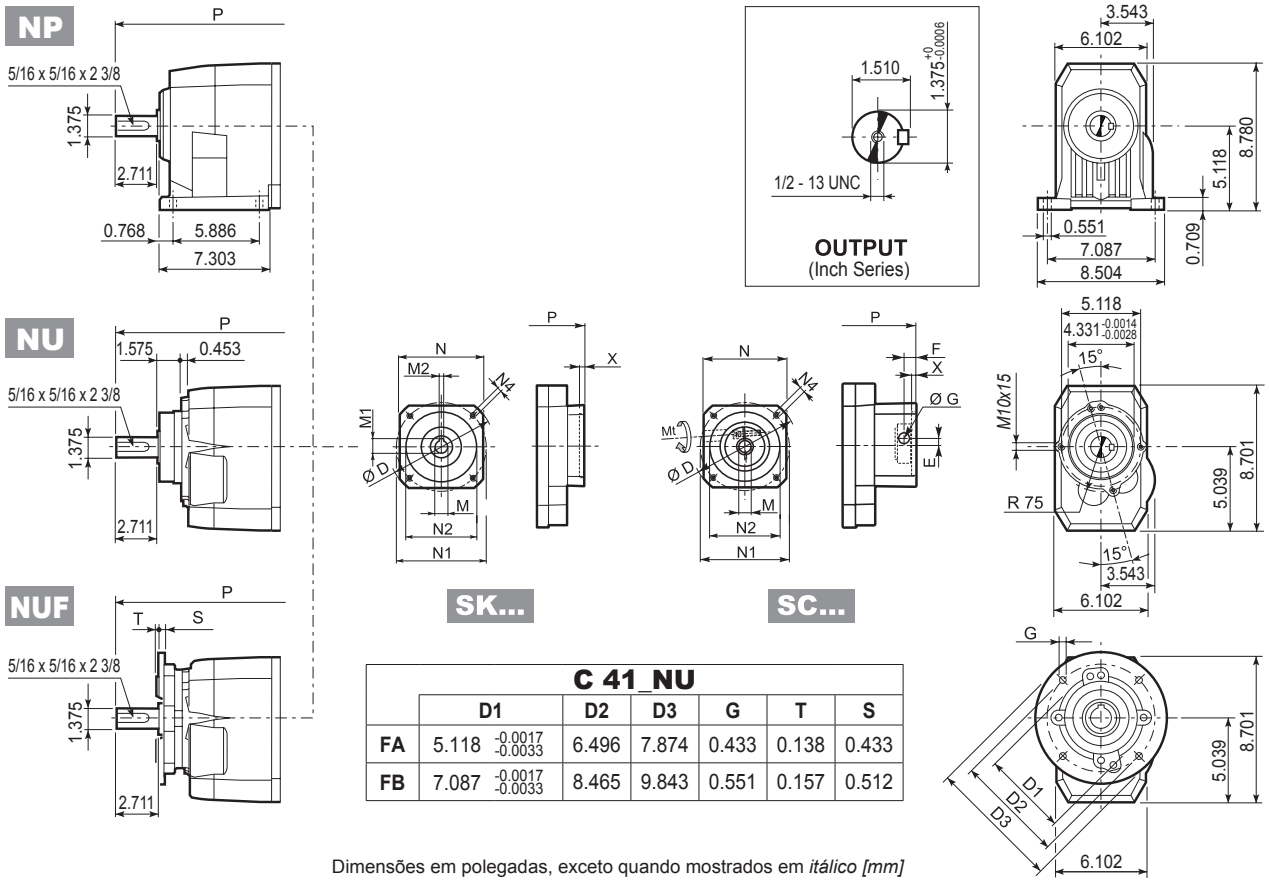
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C41 4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	370	31
C41 4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	—	377	32
C41 4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	—	377	32
C41 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	356.5	—	29/29
C41 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	356.5	418	29/29/32
C41 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	356.5	418	29/29/32
C41 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	356.5	418	29/29/33
C41 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	356.5	418	29/29/36
C41 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	356.5	—	31/31
C41 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	403	—	33/33
C41 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	403	—	33/33
C41 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	403	—	38/38

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C41 4	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	397	32
C41 4	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	397	33
C41 4	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	397	33
C41 2/3	SC80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	380	—	30/30
C41 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	380	441.5	30/30/33
C41 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	380	441.5	30/30/35
C41 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	380	—	32/32
C41 2/3	SC130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	426	—	36/36
C41 2/3	SC180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	430	—	36/36
C41 2/3	SC180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	430	—	35/35



C 41...SK / SC

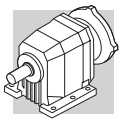


C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 $^{-0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

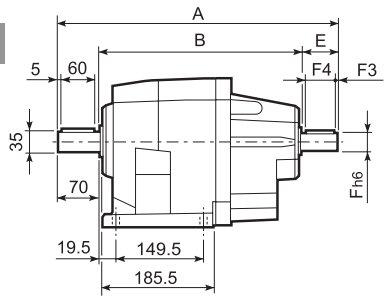
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C41 4	SK60A	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	—	14.522	68
C41 4	SK60B	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	—	14.797	71
C41 4	SK80A	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	—	14.797	71
C41 2/3	SK80B	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.990	—	64/64
C41 2/3/4	SK80C	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.990	16.411	64/64/71
C41 2/3/4	SK95A	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.990	16.411	64/64/71
C41 2/3/4	SK95B	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.990	16.411	64/64/73
C41 2/3/4	SK95C	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.990	16.411	64/64/79
C41 2/3/4	SK110A	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.990	16.411	64/64/79
C41 2/3/4	SK110B	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.990	16.411	64/64/79
C41 2/3	SK130A	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	13.990	—	68/68
C41 2/3	SK130B	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	15.821	—	73/73
C41 2/3	SK180A	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	15.821	—	73/73
C41 2/3	SK180B	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	15.821	—	84/84

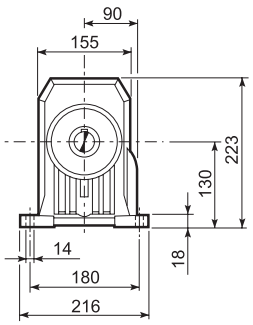
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C41 4	SC60A	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	15.585	71
C41 4	SC60B	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	15.585	73
C41 4	SC80A	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	—	15.585	73
C41 2/3	SC80B	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	14.915	—	66/66
C41 2/3/4	SC80C	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	14.915	17.337	66/66/73
C41 2/3/4	SC95A	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	14.915	17.337	66/66/75
C41 2/3/4	SC95B	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.915	17.337	66/66/75
C41 2/3/4	SC95C	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.915	17.337	66/66/77
C41 2/3/4	SC110A	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.915	17.337	68/68/86
C41 2/3/4	SC110B	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.915	17.337	68/68/86
C41 2/3	SC130A	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	14.915	—	71/71
C41 2/3	SC130B	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	16.726	—	79/79
C41 2/3	SC180A	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	16.884	—	79/79
C41 2/3	SC180B	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	16.884	—	77/77

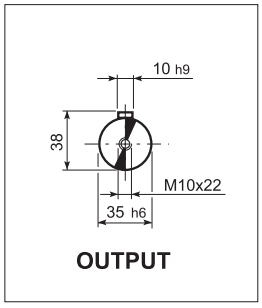


C 41...HS

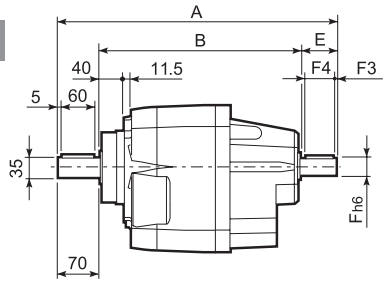
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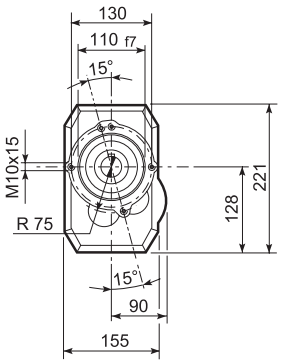


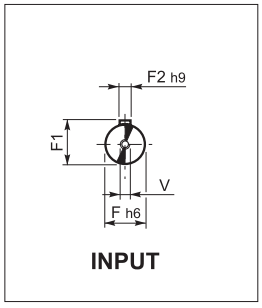




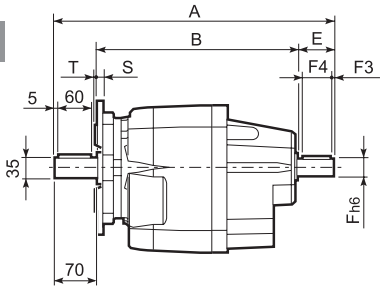
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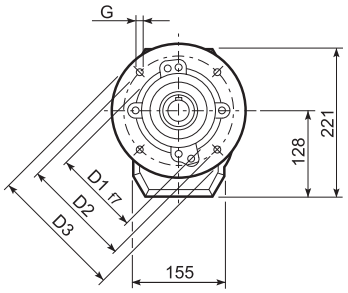






UF





C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

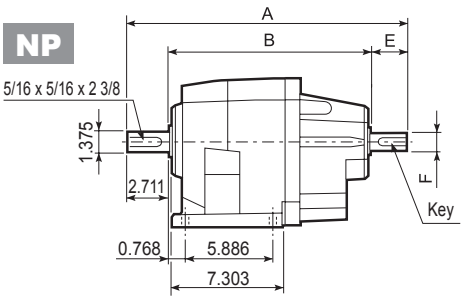
Dimensões em mm

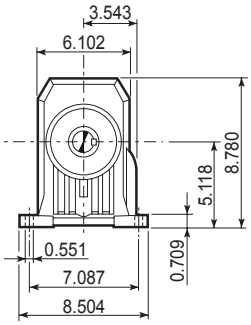
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 41 2	HS	425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 3		425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 4		448	338	40	19	21.5	6	2.5	35	M6x16	33

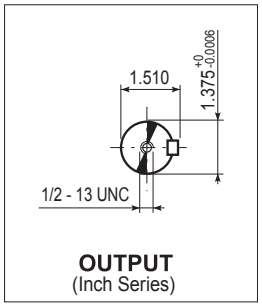
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 41...NHS

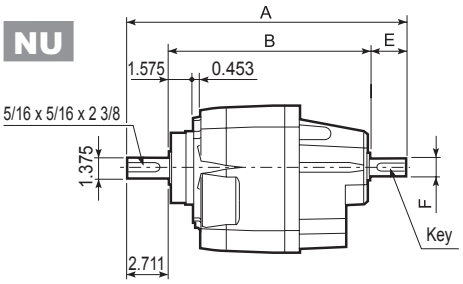
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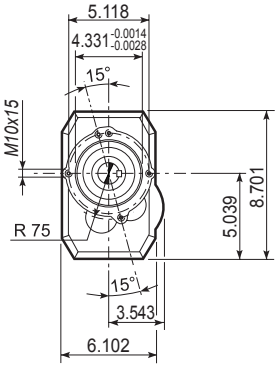


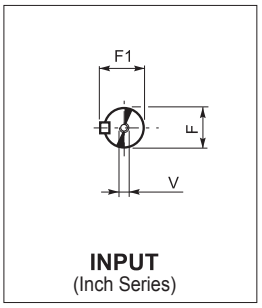




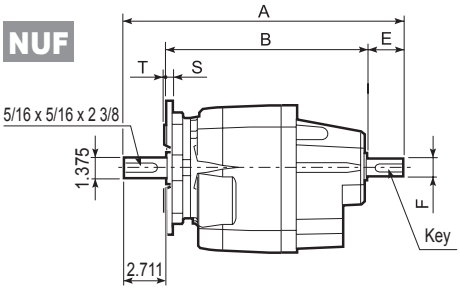
NU

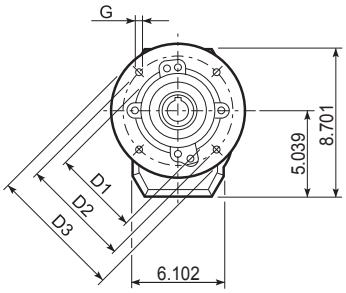






NUF



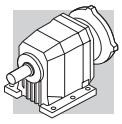


C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433
FB	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

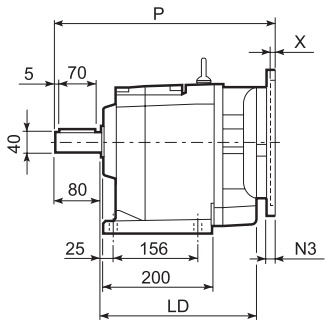
		A	B	E	F	F1	V	Key	lbs
C 41 2	NHS	16.707	12.028	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	66
C 41 3		16.707	12.028	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	66
C 41 4		17.593	13.307	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	73

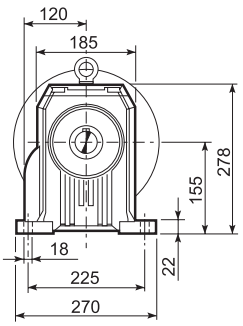
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

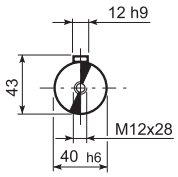


C 51...P(IEC)

P

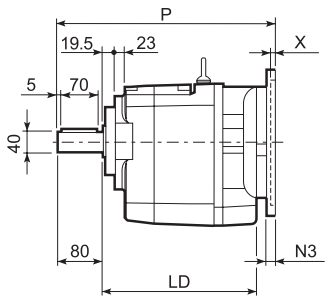


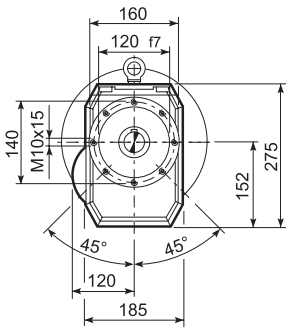


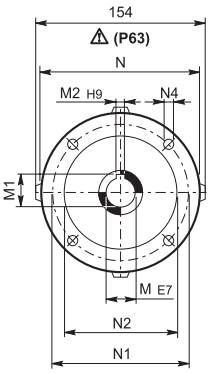


OUTPUT

U

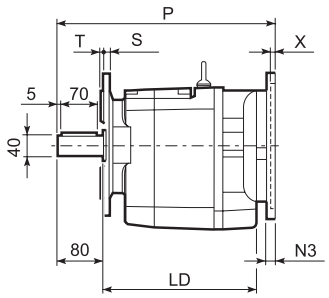


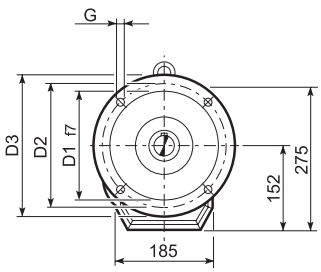




INPUT

UF





C 51_U

	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

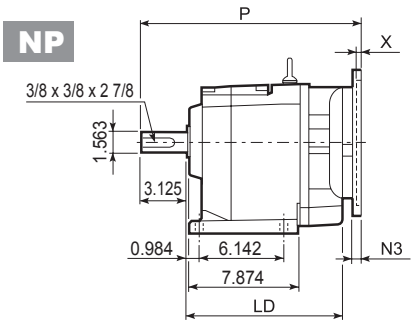
Dimensões em mm

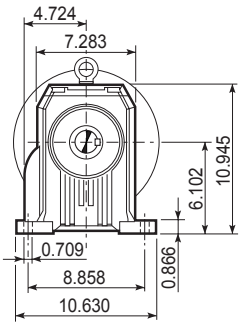
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 51 2/3	**P63**	252.5	11	12.8	4	140	115	95	—	M8x19	4	362.5	45
C 51 2/3	**P71**	252.5	14	16.3	5	160	130	110	—	M8x16	4.5	362.5	45
C 51 2/3	**P80**	267.5	19	21.8	6	200	165	130	—	M10x12	4	382	47
C 51 2/3	**P90**	267.5	24	27.3	8	200	165	130	—	M10x12	4	382	47
C 51 2/3	**P100**	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	**P112**	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	**P132**	252.5	38	41.3	10	300	265	230	16	14	5	428.5	54
C 51 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	479	58
C 51 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	479	58
C 51 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	434	47
C 51 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	434	47
C 51 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	453.5	49
C 51 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	463.5	49
C 51 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53
C 51 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53

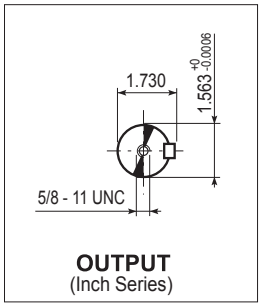
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 51...N(NEMA Input)

NP

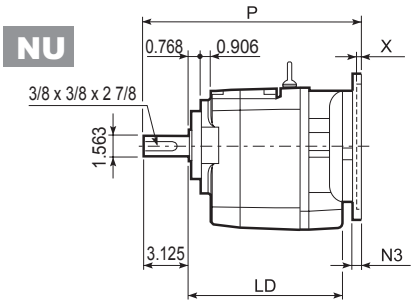


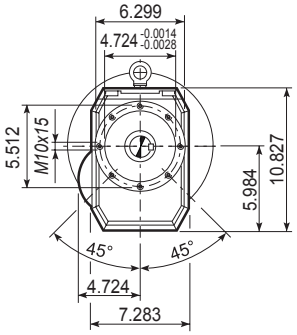


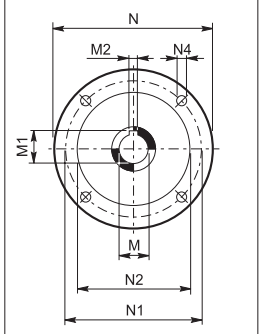


OUTPUT
(Inch Series)

NU

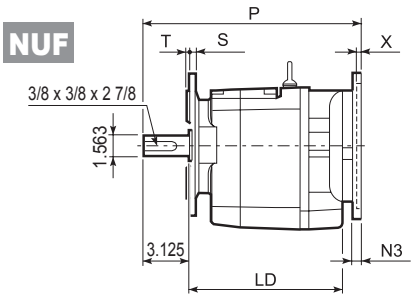


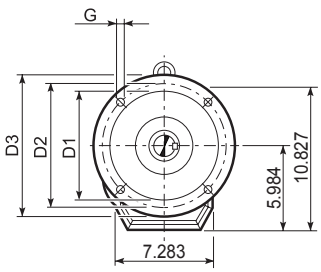




INPUT
(Nema flange)

NUF





C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 $^{-0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512
FB	9.055 $^{-0.0020}_{-0.0038}$	10.433	11.811	0.551	0.157	0.630

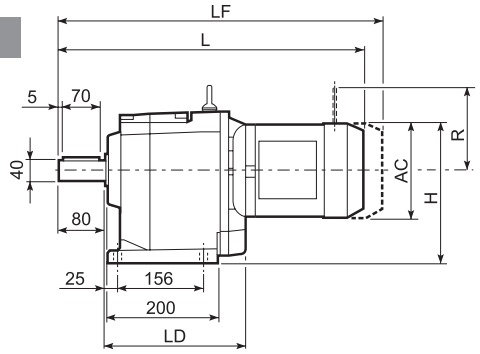
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

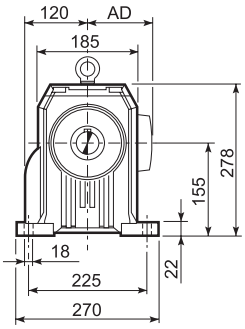
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 51 2/3	**N56C**	9.941	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	15.034	99
C 51 2/3	**N140TC**	9.941	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	15.034	104
C 51 2/3	**N180TC**	10.531	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	15.782	112
C 51 2/3	**N210TC**	9.941	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	17.023	119
C 51 2/3	**N250TC**	—	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	19.818	158
C 51 2/3	**N280TC**	—	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	20.015	161
C 51 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	17.849	104
C 51 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	17.849	108
C 51 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	18.676	117

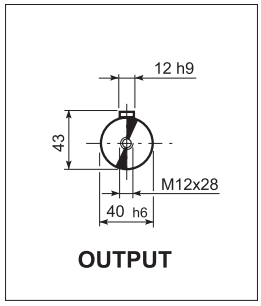
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

C 51...M/ME

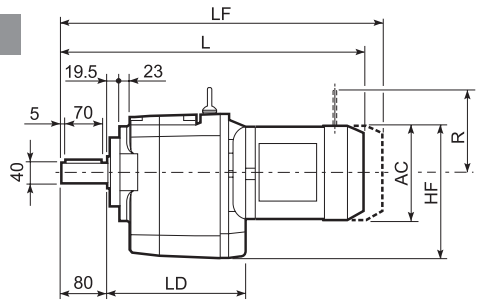
P

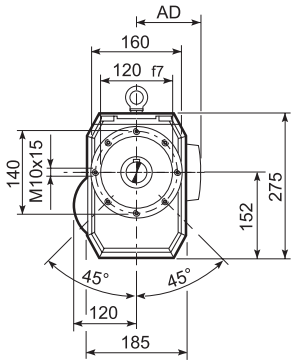




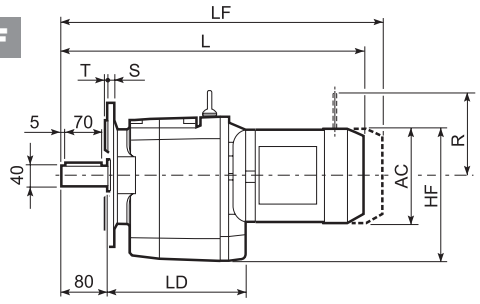


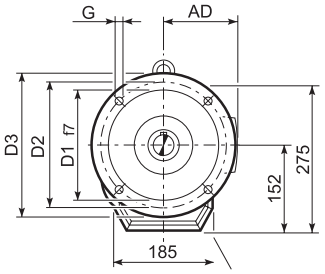
U





UF



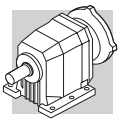


C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

Dimensões em mm

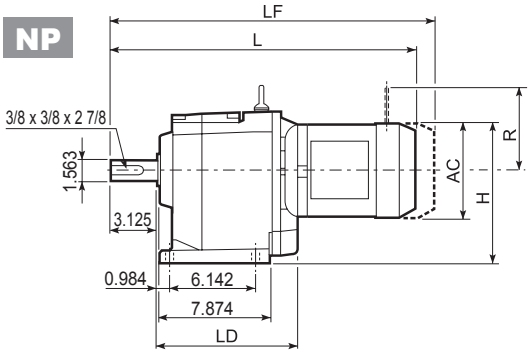
										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 51 2/3	S1	M1	138	224	221	517.5	—	108	49	578.5	52	103	135	124	108
C 51 2/3	S2	ME2S	156	233	230	545.5	252.5	119	53	—	—	—	—	—	—
C 51 2/3	S3	ME3S	195	252.5	249.5	589.5	267.5	142	59.5	—	—	—	—	—	—
C 51 2/3	S3	ME3L	195	252.5	249.5	621.5	267.5	142	65	—	—	—	—	—	—
C 51 2/3	S4	ME4	258	284	281	729.5	—	193	99	—	—	—	—	—	—
C 51 2/3	S4	ME4LB	258	284	281	764.5	—	193	107	—	—	—	—	—	—
C 51 2/3	S5	ME5S	310	310	307	816	—	245	127	—	—	—	—	—	—
C 51 2/3	S5	ME5L	310	310	307	860	—	245	143	—	—	—	—	—	—
C 51 4	S1	M1	138	224	221	589	—	108	52	650	55	103	135	124	108
C 51 4	S2	ME2S	156	233	230	617	—	119	56	—	—	—	—	—	—
C 51 4	S3	ME3S	195	252.5	249.5	661	—	142	62.5	—	—	—	—	—	—
C 51 4	S3	ME3L	195	252.5	249.5	693	—	142	68	—	—	—	—	—	—

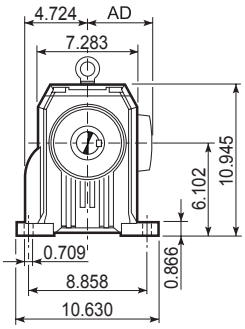
Bonfiglioli Riduttori

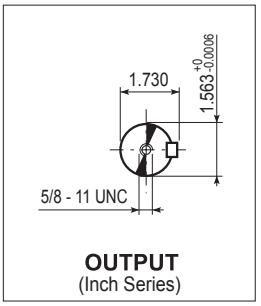


C 51...M/ME

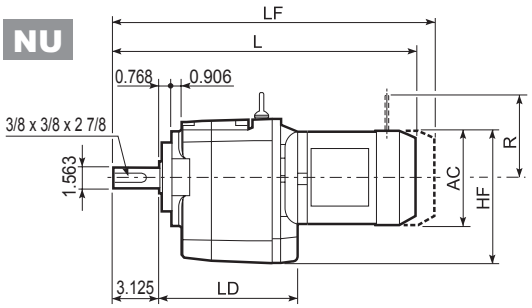
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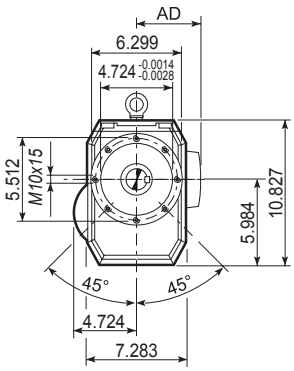




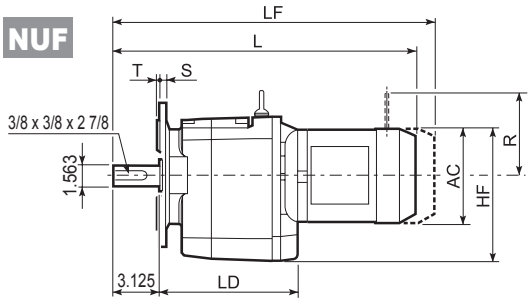


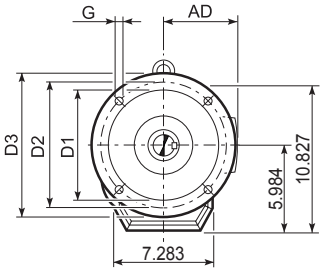
NU





NUF





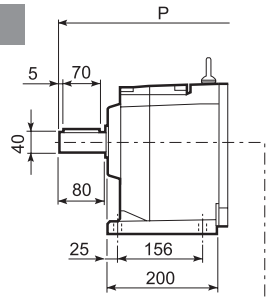
C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512
FB	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630

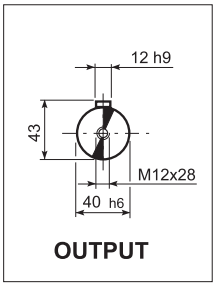
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

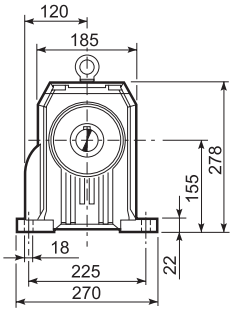
										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
C 51 2/3	S1	M1	5.433	8.819	8.701	20.349	—	4.252	108	22.751	115	4.055	5.315	4.882	4.252
C 51 2/3	S2	ME2S	6.142	9.173	9.055	21.452	9.941	4.685	117	—	—	—	—	—	—
C 51 2/3	S3	ME3S	7.677	9.941	9.823	23.184	10.531	5.591	131	—	—	—	—	—	—
C 51 2/3	S3	ME3L	7.677	9.941	9.823	24.444	10.531	5.591	143	—	—	—	—	—	—
C 51 2/3	S4	ME4	10.157	11.181	11.063	28.696	—	7.598	218	—	—	—	—	—	—
C 51 2/3	S4	ME4LB	10.157	11.181	11.063	30.074	—	7.598	236	—	—	—	—	—	—
C 51 2/3	S5	ME5S	12.205	12.205	12.087	32.101	—	9.646	280	—	—	—	—	—	—
C 51 2/3	S5	ME5L	12.205	12.205	12.087	33.834	—	9.646	315	—	—	—	—	—	—
C 51 4	S1	M1	5.433	8.819	8.701	23.164	—	4.252	115	25.566	121	4.055	5.315	4.882	4.252
C 51 4	S2	ME2S	6.142	9.173	9.055	24.267	—	4.685	123	—	—	—	—	—	—
C 51 4	S3	ME3S	7.677	9.941	9.823	25.999	—	5.591	138	—	—	—	—	—	—
C 51 4	S3	ME3L	7.677	9.941	9.823	27.259	—	5.591	150	—	—	—	—	—	—

C 51...SK / SC

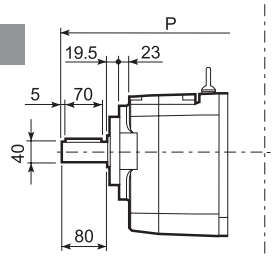
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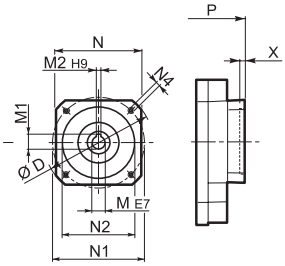




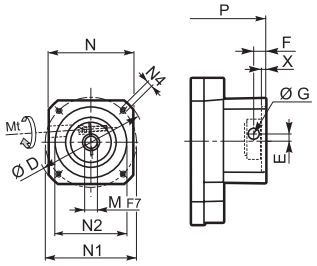


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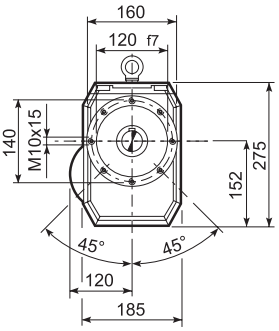




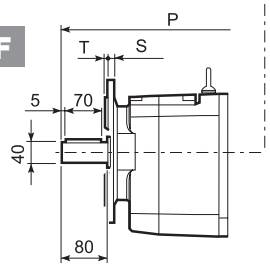
SK...



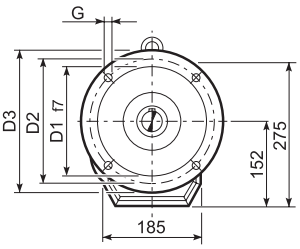
SC...



UF



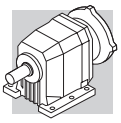
C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16



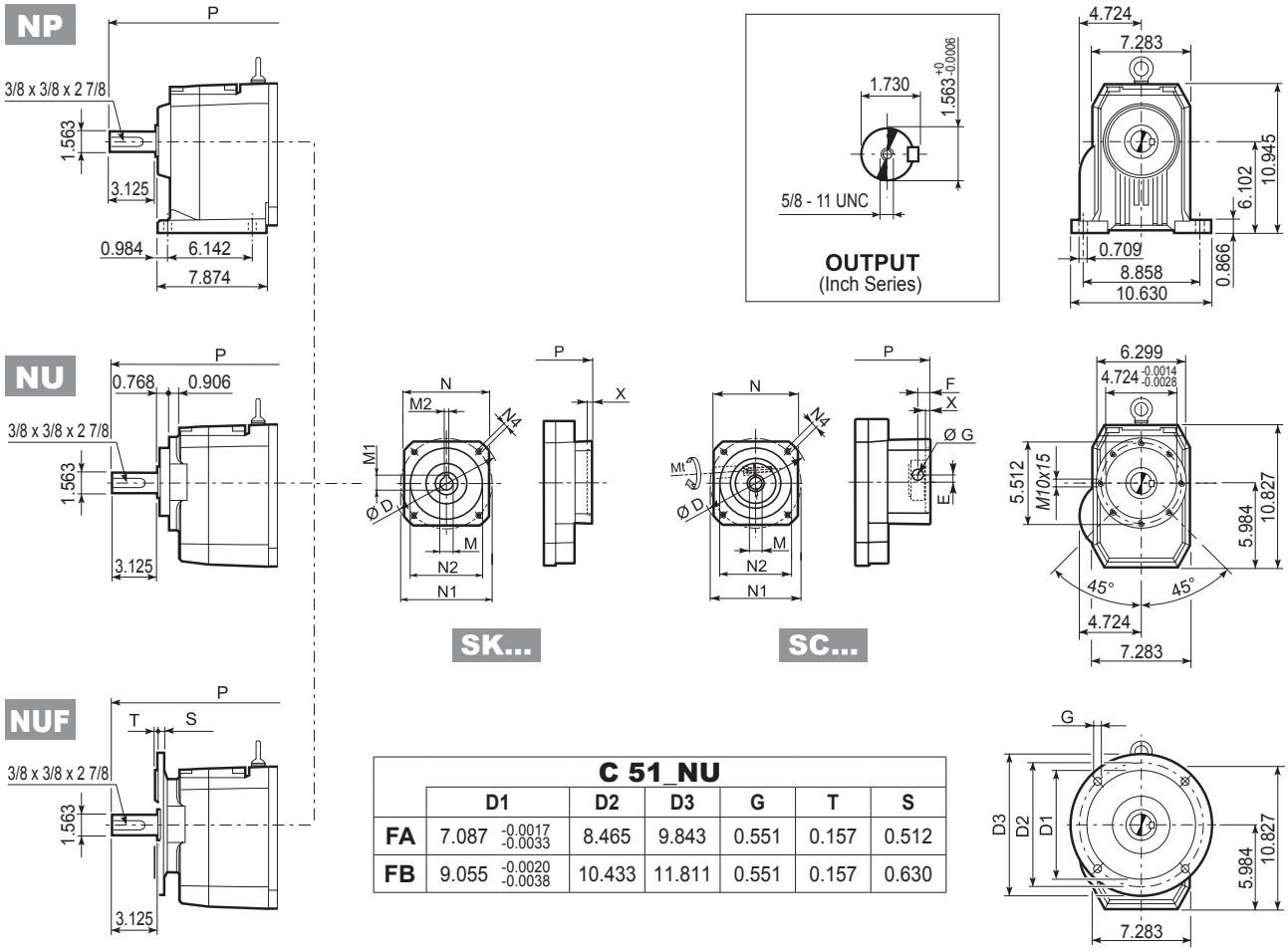
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 51 2/3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	382	—	46/46
C 51 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	382	453.5	47/47/49
C 51 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	382	453.5	46/46/48
C 51 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	382	453.5	49/49/52
C 51 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	428.5	—	55/55
C 51 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	428.5	—	55/55
C 51 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	428.5	—	55/55

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 51 2/3	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	405.5	—	47/47
C 51 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	405.5	477	48/48/50
C 51 2/3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	405.5	477	47/47/49
C 51 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	405.5	477	50/50/53
C 51 2/3	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	451.5	—	54/54
C 51 2/3	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	455.5	—	54/54
C 51 2/3	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	455.5	—	54/54



C 51...SK / SC

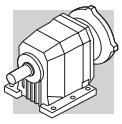


C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512
FB	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

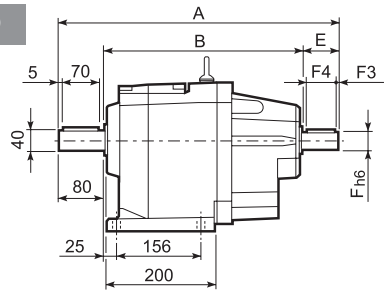
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 51 2/3	SK80B	4.724	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	15.015	—	101/101
C 51 2/3/4	SK80C	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	15.015	17.830	104/104/108
C 51 2/3/4	SK95A	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	15.015	17.830	101/101/106
C 51 2/3/4	SK95B	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	15.015	17.830	104/104/108
C 51 2/3/4	SK95C	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	15.015	17.830	104/104/108
C 51 2/3/4	SK110A	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	15.015	17.830	104/104/112
C 51 2/3/4	SK110B	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	15.015	17.830	104/104/112
C 51 2/3/4	SK130A	7.402	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	5.591	6.496	5.118	*M10x20*	0.197	15.015	17.830	108/108/115
C 51 2/3	SK130B	7.441	1.260 +0.0030 +0.0020	1.390	0.394 +0.0014 +0	6.299	6.496	5.118	*M10x20*	0.197	16.845	—	121/121
C 51 2/3	SK180A	9.449	1.260 +0.0030 +0.0020	1.390	0.394 +0.0014 +0	7.559	8.465	7.087	*M12x19*	0.197	16.845	—	121/121
C 51 2/3	SK180B	9.449	1.496 +0.0030 +0.0020	1.626	0.394 +0.0014 +0	7.559	8.465	7.087	*M12x19*	0.197	16.845	—	121/121

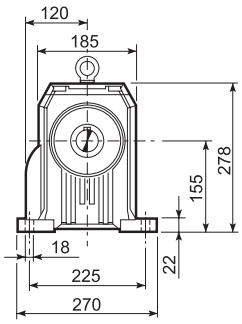
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 51 2/3	SC80B	*M6* 133	4.724	0.610	0.571	0.699	0.551 +0.0013 +0.0006	3.780	3.937	3.150	*M6x12*	0.157	15.940	—	104/104
C 51 2/3/4	SC80C	*M6* 133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	15.940	18.755	106/106/110
C 51 2/3/4	SC95A	*M6* 133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	15.940	18.755	104/104/108
C 51 2/3/4	SC95B	*M6* 133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	15.940	18.755	106/106/110
C 51 2/3/4	SC95C	*M6* 133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	15.940	18.755	106/106/110
C 51 2/3/4	SC110A	*M6* 133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	15.940	18.755	108/108/115
C 51 2/3/4	SC110B	*M6* 133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	15.940	18.755	108/108/115
C 51 2/3/4	SC130A	*M6* 133	7.402	0.748	0.630	0.699	0.945 +0.0016 +0.0008	5.591	6.496	5.118	*M10x20*	0.197	15.940	18.755	110/110/117
C 51 2/3	SC130B	*M8* 319	7.441	0.787	0.669	0.699	1.260 +0.0020 +0.0010	6.299	6.496	5.118	*M10x20*	0.197	17.751	—	119/119
C 51 2/3	SC180A	*M8* 319	9.449	0.787	0.689	0.699	1.260 +0.0020 +0.0010	7.559	8.465	7.087	*M12x24*	0.197	17.908	—	119/119
C 51 2/3	SC180B	*M8* 319	9.449	0.787	0.689	0.699	1.496 +0.0020 +0.0010	7.559	8.465	7.087	*M12x24*	0.197	17.908	—	119/119

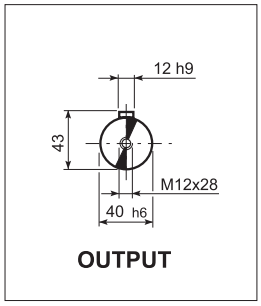


C 51...HS

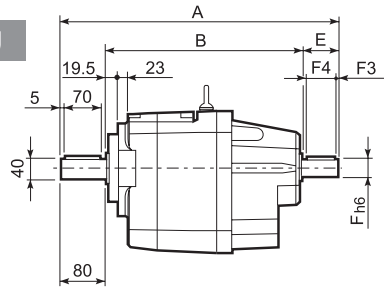
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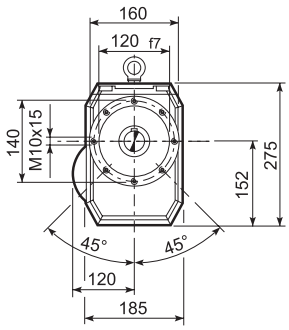


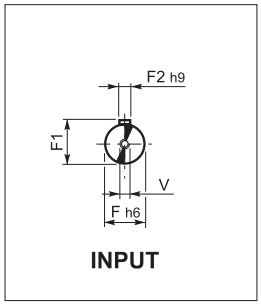




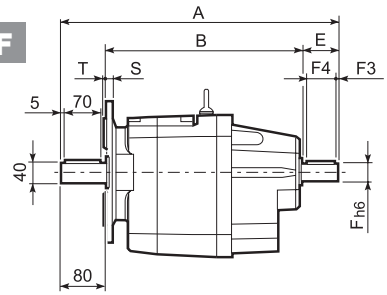
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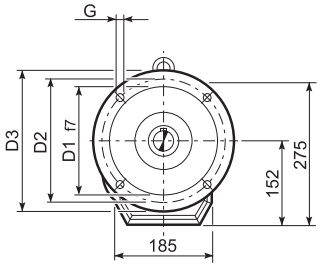






UF





C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

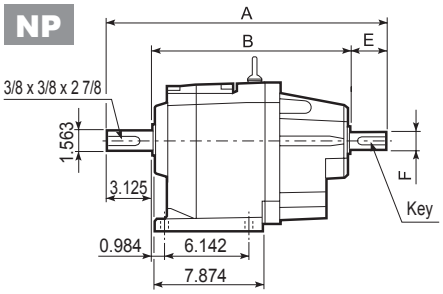
Dimensões em mm

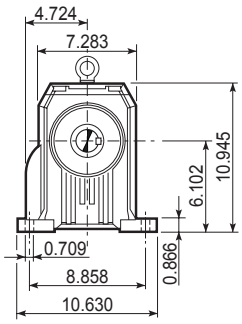
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 51 2	HS	451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 3		451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 4		484	364	40	19	21.5	6	2.5	35	M6x16	48

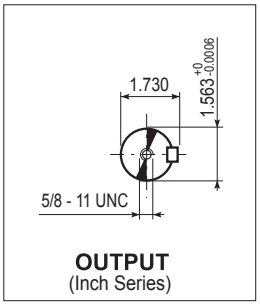
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 51...NHS

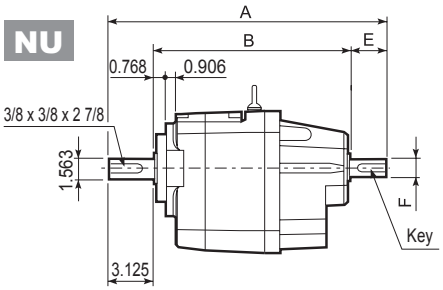
NP

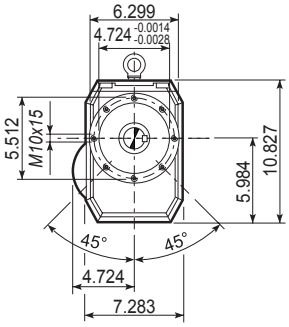


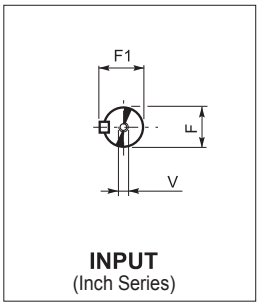




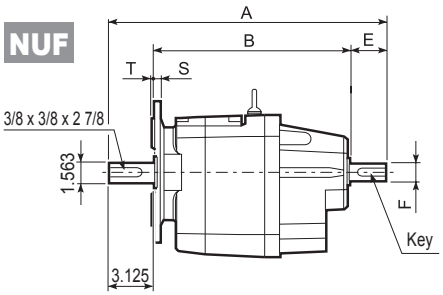
NU

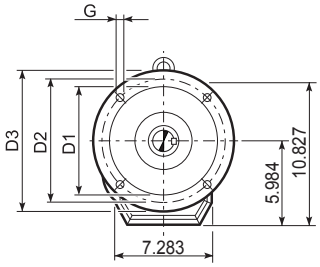






NUF



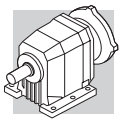


C 51_NU						
	D1	D2	D3	G	T	S
FA	7.087 -0.0017 -0.0033	8.465	9.843	0.551	0.157	0.512
FB	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

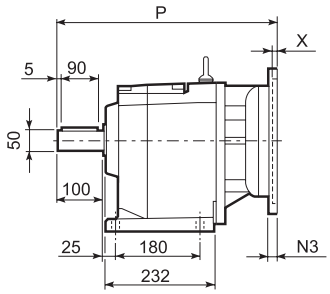
		A	B	E	F	F1	V	Key	lbs
C 51 2	NHS	17.751	12.657	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
C 51 3		17.751	12.657	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
C 51 4		19.031	14.331	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	106

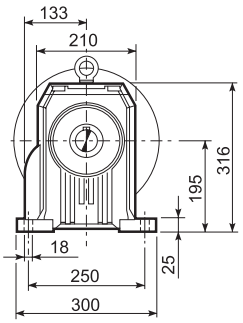
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

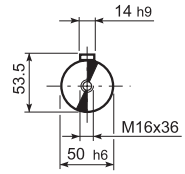


C 61...P(IEC)

P

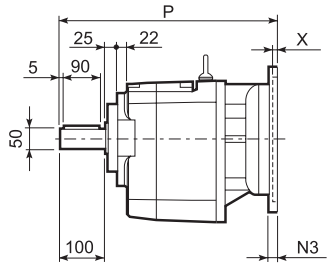


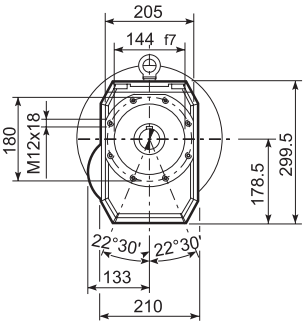


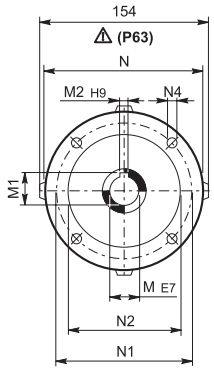


OUTPUT

U

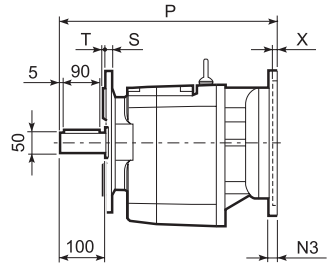


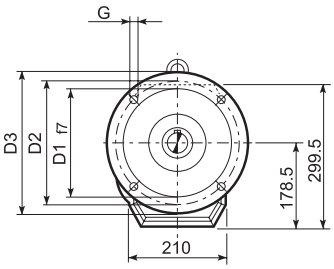




INPUT

UF





C 61_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

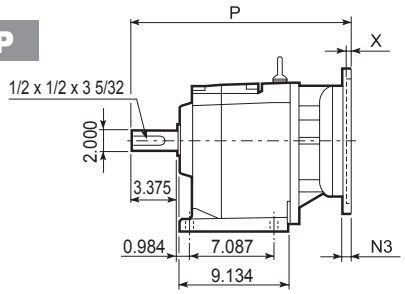
Dimensões em mm

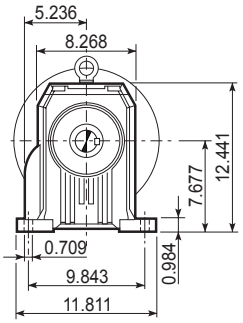
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 61 2/3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	415.5	55
C 61 2/3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	415.5	57
C 61 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	435	61
C 61 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	435	61
C 61 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	481.5	68
C 61 2/3	**P160**	42	45.3	12	350	300	250	23	18	5.5	532	73
C 61 2/3	**P180**	48	51.8	14	350	300	250	23	18	5.5	532	73
C 61 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	486	61
C 61 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	489	63
C 61 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	505.5	67
C 61 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	505.5	67
C 61 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71
C 61 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71

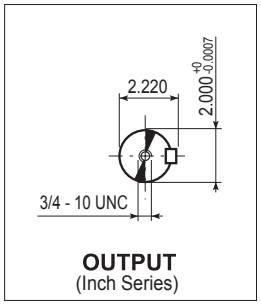
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 61...N(NEMA Input)

P

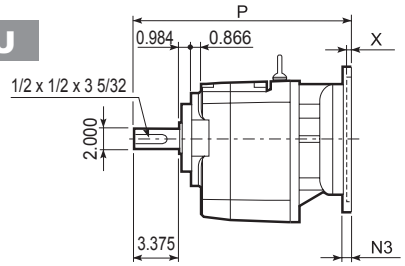


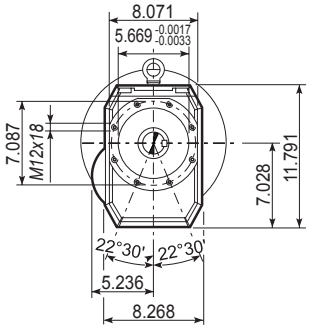


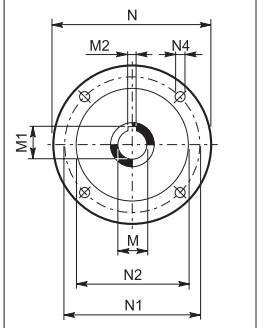


OUTPUT
(Inch Series)

U

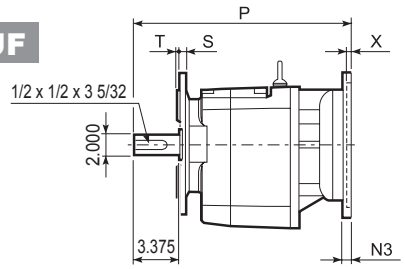


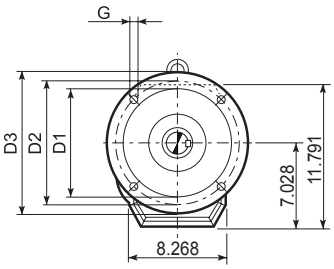




INPUT
(Nema flange)

UF





C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

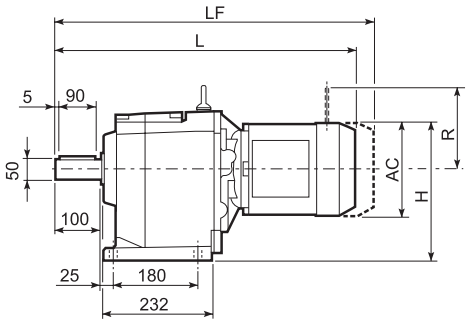
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

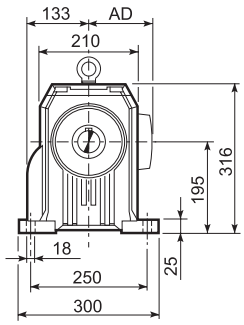
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 61 2/3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.584	126
C 61 2/3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.584	134
C 61 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	17.332	143
C 61 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	18.572	150
C 61 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	21.367	191
C 61 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	21.564	194
C 61 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	19.477	139
C 61 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	19.477	148
C 61 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	20.186	157

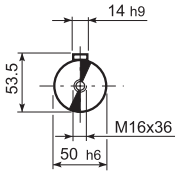
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

C 61...M/ME

P

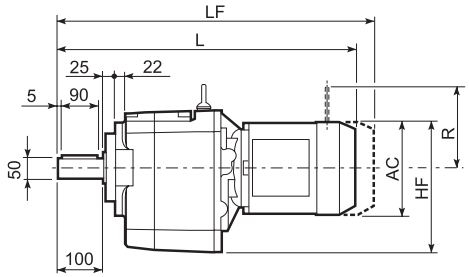


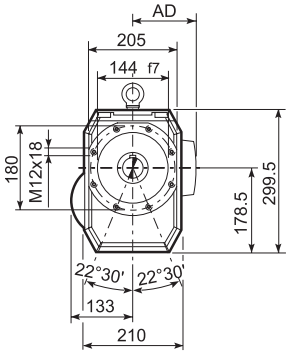




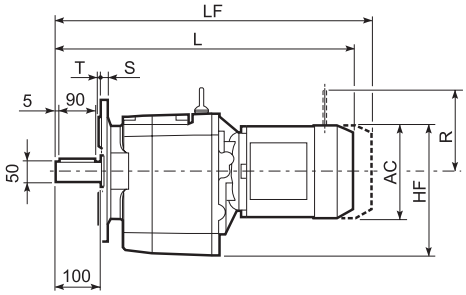
OUTPUT

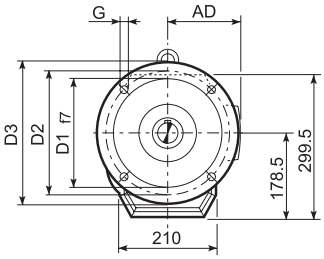
U





UF

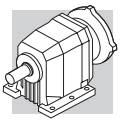




C 61_U						
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

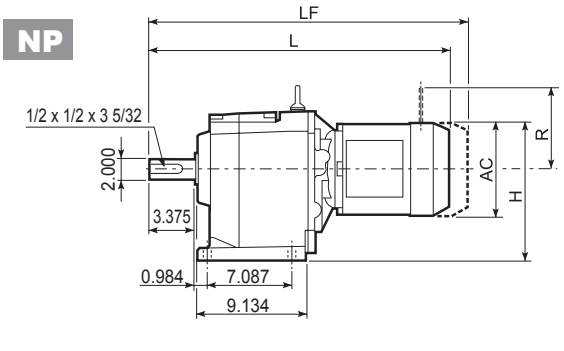
Dimensões em mm

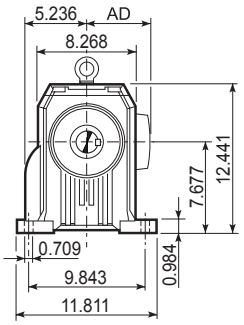
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 61 2/3	S2	ME2S	156	273	256.5	598.5	119	61	—	—	—	—	—	—
C 61 2/3	S3	ME3S	195	292.5	276	642.5	142	67.5	—	—	—	—	—	—
C 61 2/3	S3	ME3L	195	292.5	276	674.5	142	74	—	—	—	—	—	—
C 61 2/3	S4	ME4	258	324	307.5	782.5	193	108	—	—	—	—	—	—
C 61 2/3	S4	ME4LB	258	324	307.5	817.5	193	116	—	—	—	—	—	—
C 61 2/3	S5	ME5S	310	350	333.5	869	245	136	—	—	—	—	—	—
C 61 2/3	S5	ME5L	310	350	333.5	913	245	152	—	—	—	—	—	—
C 61 4	S1	M1	138	264	247.5	641	108	71	702	74	103	135	124	108
C 61 4	S2	ME2S	156	273	256.5	669	119	75	—	—	—	—	—	—
C 61 4	S3	ME3S	195	292.5	276	713	142	80.5	—	—	—	—	—	—
C 61 4	S3	ME3L	195	292.5	276	745	142	87	—	—	—	—	—	—

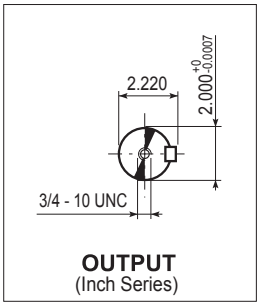


C 61...M/ME

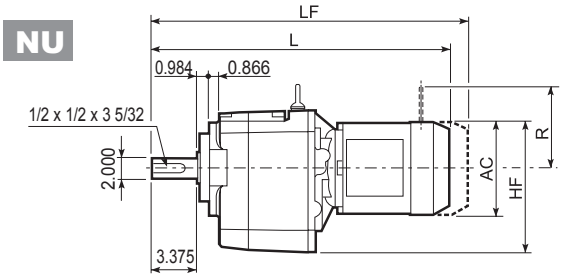
NP

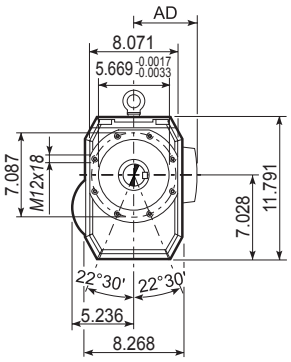




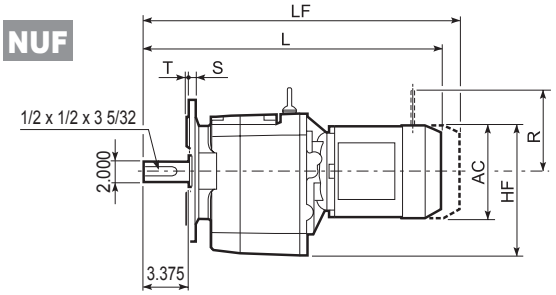


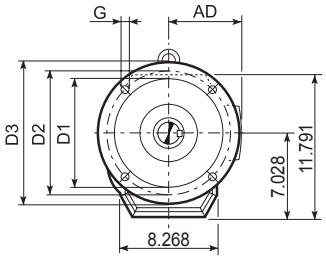
NU





NUF

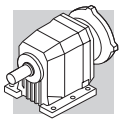




C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

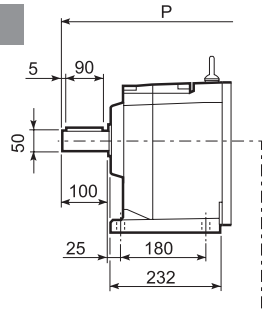
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

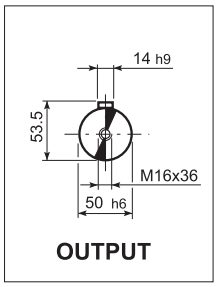
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 61 2/3	S2	ME2S	6.142	10.748	10.098	23.001	4.685	134	—	—	—	—	—	—
C 61 2/3	S3	ME3S	7.677	11.516	10.866	24.733	5.591	149	—	—	—	—	—	—
C 61 2/3	S3	ME3L	7.677	11.516	10.866	25.993	5.591	163	—	—	—	—	—	—
C 61 2/3	S4	ME4	10.157	12.756	12.106	30.245	7.598	238	—	—	—	—	—	—
C 61 2/3	S4	ME4LB	10.157	12.756	12.106	31.623	7.598	256	—	—	—	—	—	—
C 61 2/3	S5	ME5S	12.205	13.780	13.130	33.651	9.646	300	—	—	—	—	—	—
C 61 2/3	S5	ME5L	12.205	13.780	13.130	35.383	9.646	335	—	—	—	—	—	—
C 61 4	S1	M1	5.433	10.394	9.744	24.674	4.252	157	27.076	163	4.055	5.315	4.882	4.252
C 61 4	S2	ME2S	6.142	10.748	10.098	25.777	4.685	165	—	—	—	—	—	—
C 61 4	S3	ME3S	7.677	11.516	10.866	27.509	5.591	177	—	—	—	—	—	—
C 61 4	S3	ME3L	7.677	11.516	10.866	28.769	5.591	192	—	—	—	—	—	—

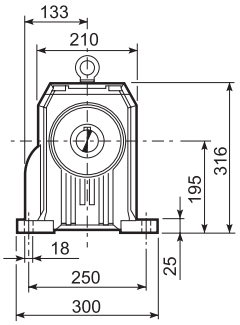


C 61...SK / SC

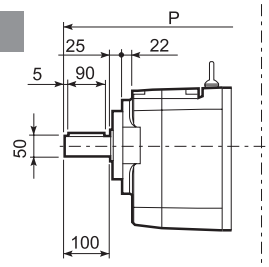
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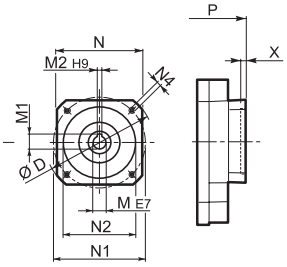




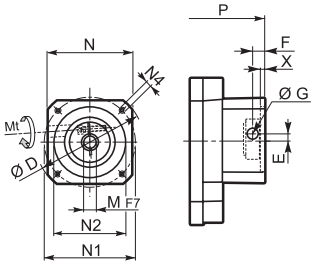


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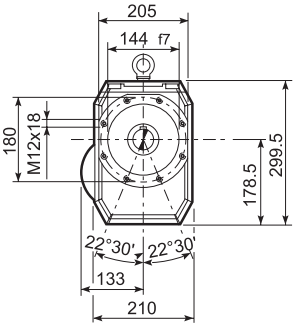




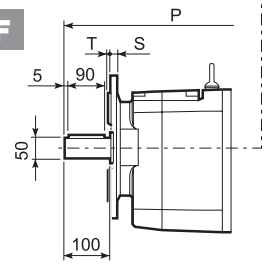
SK...



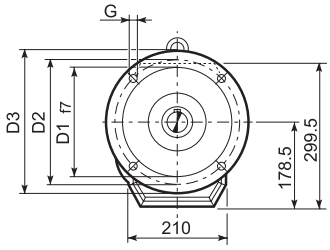
SC...



UF



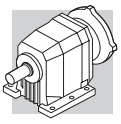
C 61_U						
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18



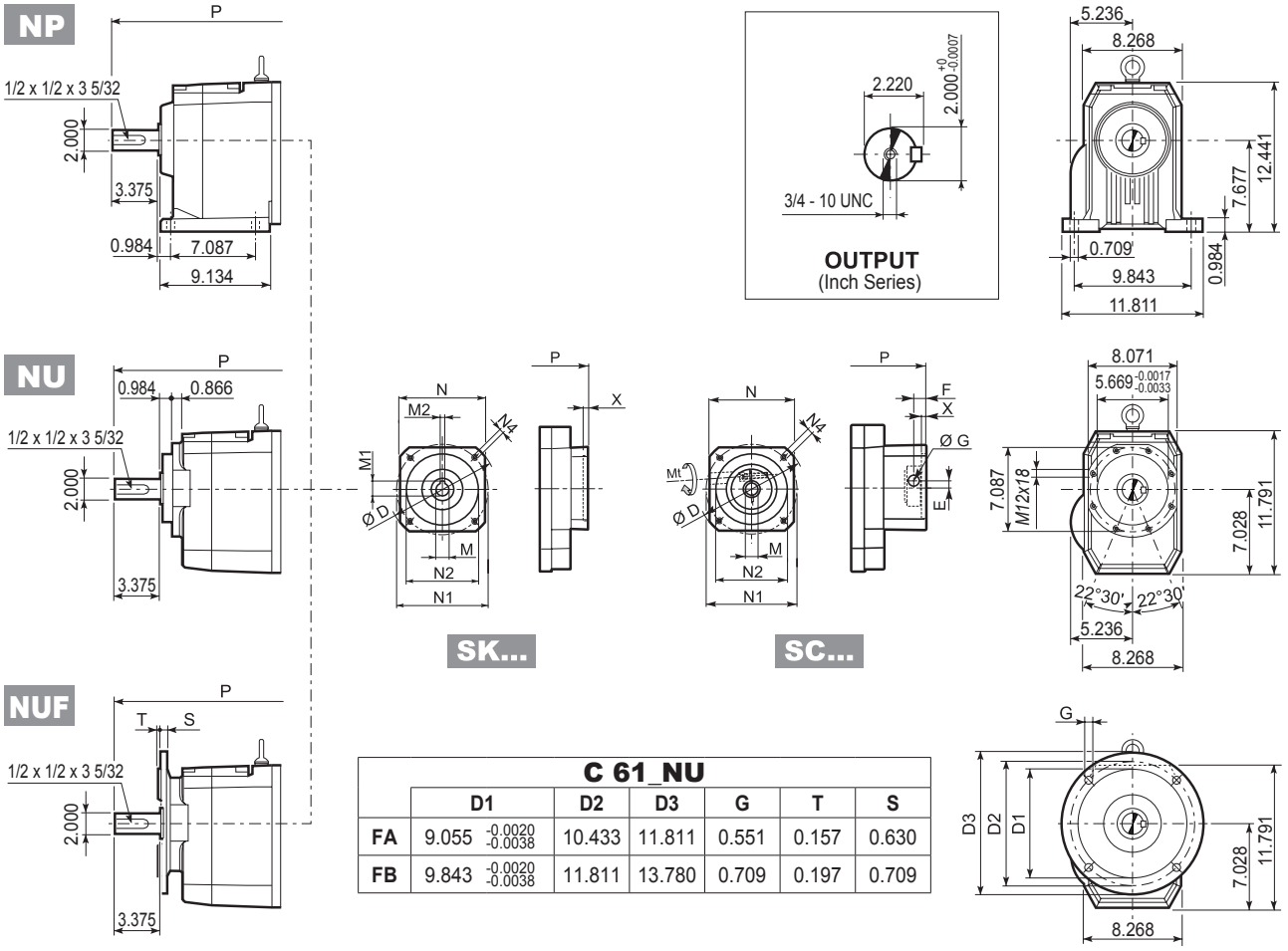
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 61 4	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	—	505.5	62
C 61 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	435	505.5	63/63/69
C 61 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	435	505.5	60/60/67
C 61 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	**SK110A**	140	19	21.8	6	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	**SK110B**	140	24	27.3	8	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	435	505.5	67/67/80
C 61 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	481.5	—	72/72
C 61 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	481.5	—	72/72
C 61 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	481.5	—	66/66

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
C 61 4	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	529	63
C 61 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	458.5	529	64/64/70
C 61 2/3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	458.5	529	61/61/68
C 61 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	**SC110A**	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	**SC110B**	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	458.5	529	66/66/81
C 61 2/3	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	504.5	—	75/75
C 61 2/3	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	508.5	—	75/75
C 61 2/3	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	508.5	—	69/69



C 61...SK / SC



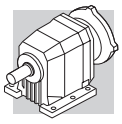
C 61_NU

	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

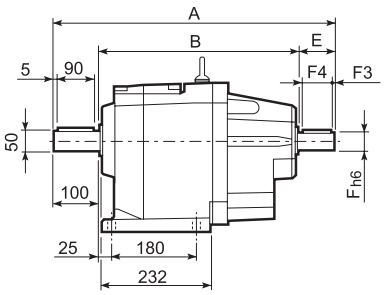
		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 61 4	**SK80B**	4.724	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	—	19.340	137
C 61 2/3/4	**SK80C**	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	16.564	19.340	139/139/152
C 61 2/3/4	**SK95A**	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	16.564	19.340	132/132/148
C 61 2/3/4	**SK95B**	5.118	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	16.564	19.340	139/139/152
C 61 2/3/4	**SK95C**	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	16.564	19.340	139/139/152
C 61 2/3/4	**SK110A**	5.512	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	16.564	19.340	139/139/152
C 61 2/3/4	**SK110B**	5.512	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	16.564	19.340	139/139/152
C 61 2/3/4	**SK130A**	7.402	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	5.591	6.496	5.118	*M10x20*	0.197	16.564	19.340	148/148/176
C 61 2/3	**SK130B**	7.441	1.260 +0.0030 +0.0020	1.390	0.394 +0.0014 +0	6.299	6.496	5.118	*M10x20*	0.197	18.395	—	159/159
C 61 2/3	**SK180A**	9.449	1.260 +0.0030 +0.0020	1.390	0.394 +0.0014 +0	7.559	8.465	7.087	*M12x19*	0.197	18.395	—	159/159
C 61 2/3	**SK180B**	9.449	1.496 +0.0030 +0.0020	1.626	0.394 +0.0014 +0	7.559	8.465	7.087	*M12x19*	0.197	18.395	—	146/146

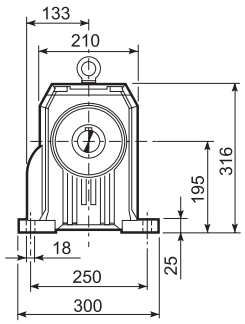
		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
C 61 4	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 +0.0013 +0.0006	3.780	3.937	3.150	*M6x12*	0.157	—	20.265	139/104
C 61 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	17.489	20.265	141/141/154
C 61 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	17.489	20.265	134/134/150
C 61 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	17.489	20.265	141/141/154
C 61 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	17.489	20.265	141/141/154
C 61 2/3/4	**SC110A**	*M6* 133	5.512	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	17.489	20.265	143/143/154
C 61 2/3/4	**SC110B**	*M6* 133	5.512	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	17.489	20.265	143/143/154
C 61 2/3/4	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 +0.0016 +0.0008	5.591	6.496	5.118	*M10x20*	0.197	17.489	20.265	146/146/179
C 61 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 +0.0020 +0.0010	6.299	6.496	5.118	*M10x20*	0.197	19.300	—	165/165
C 61 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 +0.0020 +0.0010	7.559	8.465	7.087	*M12x24*	0.197	19.458	—	165/165
C 61 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 +0.0020 +0.0010	7.559	8.465	7.087	*M12x24*	0.197	19.458	—	152/152

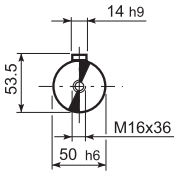


C 61...HS

P

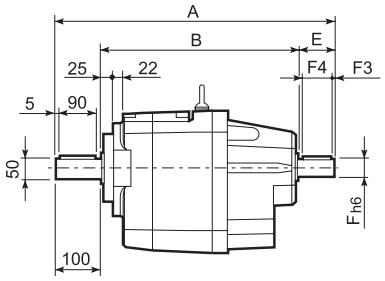


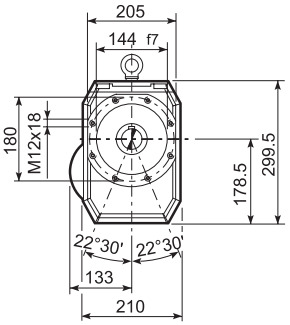


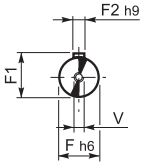


OUTPUT

U

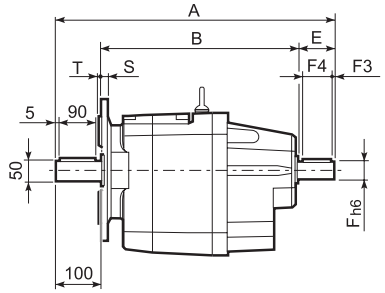


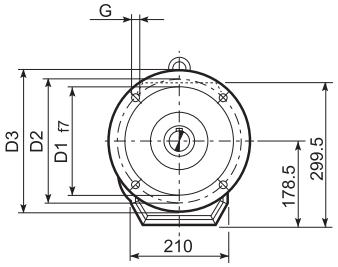




INPUT

UF





C 61_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

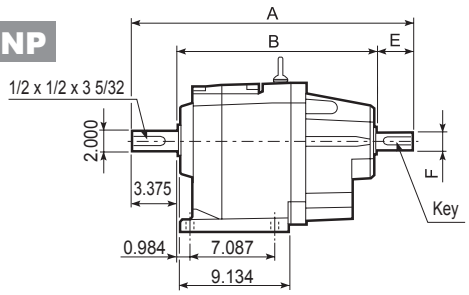
Dimensões em mm

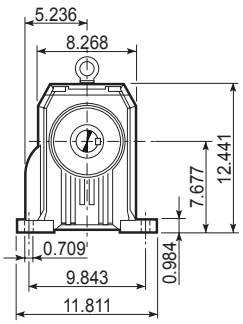
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 61 2		532	372	60	28	31	8	5	50	M10x22	66
C 61 3	**HS**	532	372	60	28	31	8	5	50	M10x22	66
C 61 4		575	425	50	24	27	8	2.5	45	M8x19	72

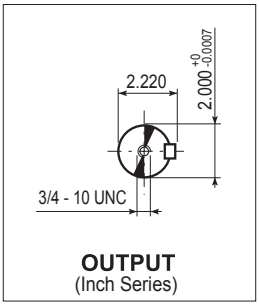
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 61...NHS

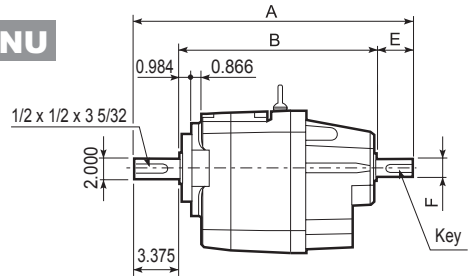
NP

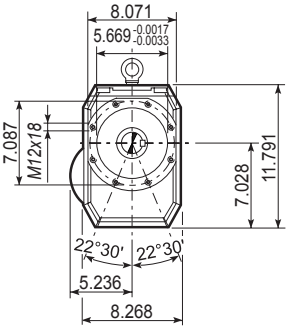


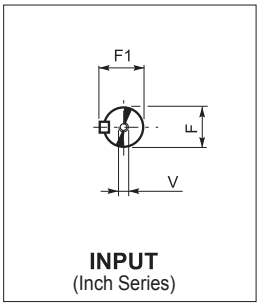




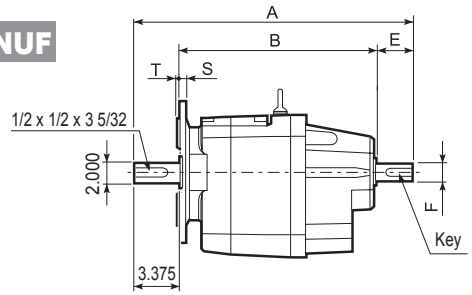
NU

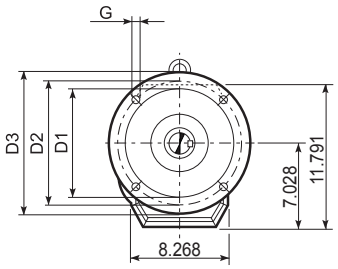






NUF





C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 -0.0020 -0.0038	10.433	11.811	0.551	0.157	0.630
FB	9.843 -0.0020 -0.0038	11.811	13.780	0.709	0.197	0.709

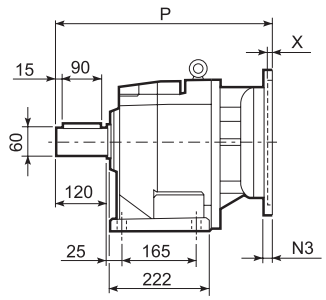
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

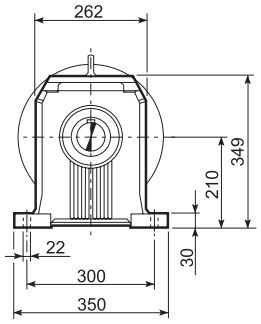
		A	B	E	F	F1	V	Key	lbs
C 61 2	NHS	20.383	14.646	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	146
C 61 3		20.383	14.646	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	146
C 61 4		22.076	16.732	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	159

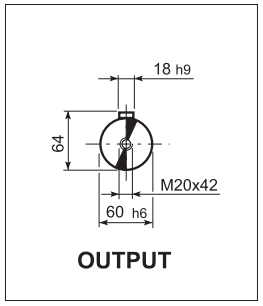
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

C 70...P(IEC)

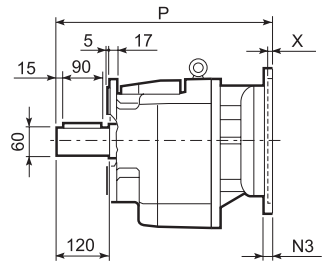
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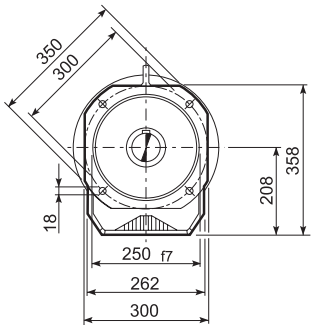


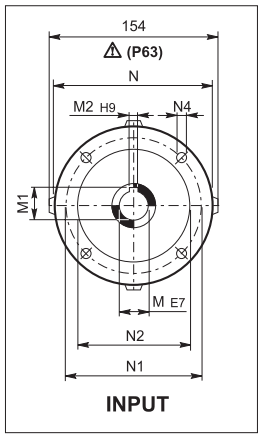




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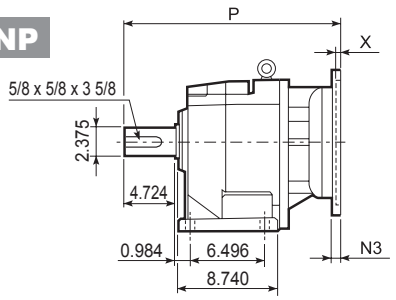
Dimensões em mm

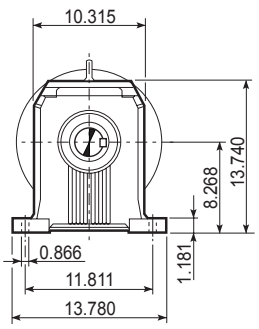
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 70 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	473	88
C 70 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	473	88
C 70 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	519.5	95
C 70 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	575	107
C 70 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	575	107
C 70 2	**P200**	55	59.3	16	400	350	300	—	M16x25	7	600	129
C 70 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	504.5	91
C 70 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	504.5	91
C 70 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	524	92
C 70 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	524	92
C 70 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	**P132**	38	41.3	10	300	265	230	16	14	5	570.5	98

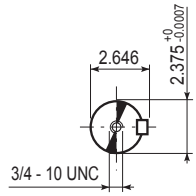
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 70...N(NEMA Input)

NP

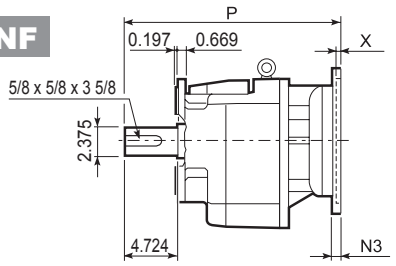


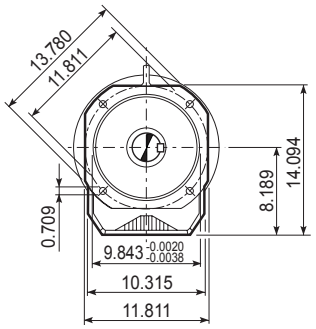


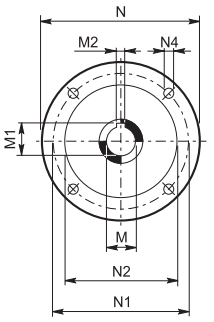


OUTPUT
(Inch Series)

NF





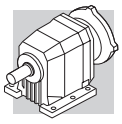


INPUT
(Nema flange)

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

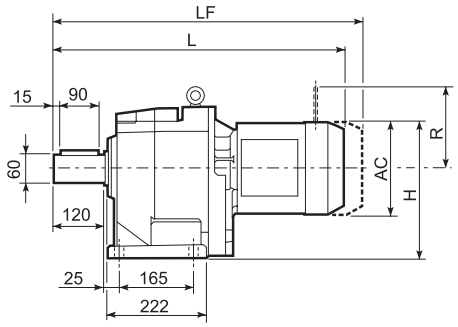
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 70 2/3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	18.819	194
C 70 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	19.390	203
C 70 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	20.630	209
C 70 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	23.622	266
C 70 2	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	23.819	269
C 70 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	20.650	201
C 70 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	20.650	203
C 70 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.398	212
C 70 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	22.638	216

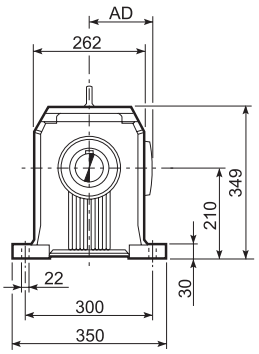
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

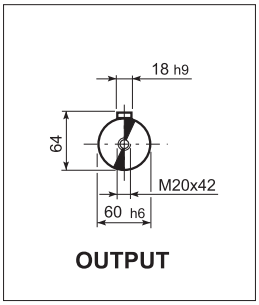


C 70...M/ME

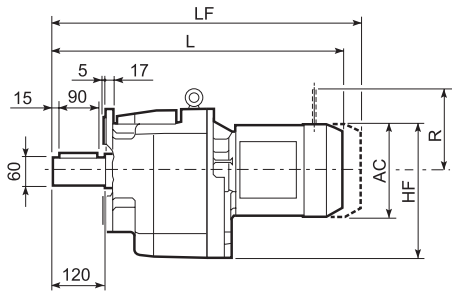
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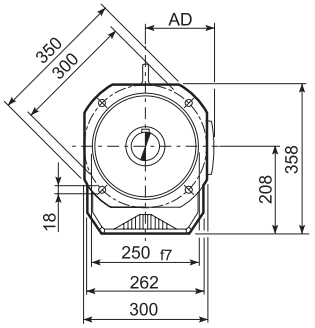






F



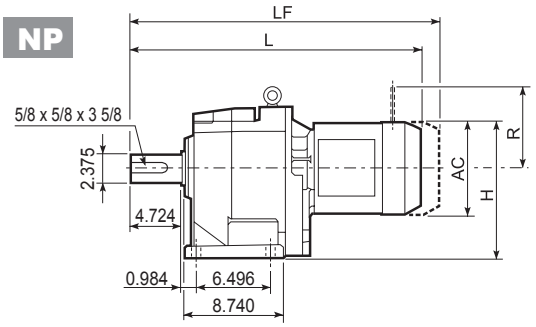


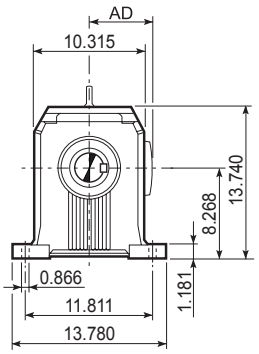
Dimensões em mm

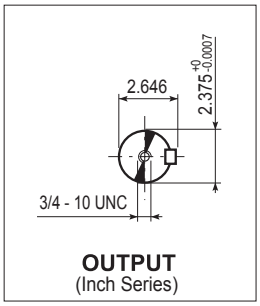
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 70 2/3	**S2**	**ME2S**	156	288	286	636.5	119	88	—	—	—	—	—	—
C 70 2/3	**S3**	**ME3S**	195	307.5	305.5	680.5	142	94.5	—	—	—	—	—	—
C 70 2/3	**S3**	**ME3L**	195	307.5	305.5	712.5	142	101	—	—	—	—	—	—
C 70 2/3	**S4**	**ME4**	258	339	337	820.5	193	135	—	—	—	—	—	—
C 70 2/3	**S4**	**ME4LB**	258	339	337	855.5	193	143	—	—	—	—	—	—
C 70 2/3	**S5**	**ME5S**	310	365	363	907	245	163	—	—	—	—	—	—
C 70 2/3	**S5**	**ME5L**	310	365	363	951	245	179	—	—	—	—	—	—
C 70 4	**S1**	**M1**	138	279	277	659.5	108	88	720.5	91	103	135	124	108
C 70 4	**S2**	**ME2S**	156	288	286	687.5	119	92	—	—	—	—	—	—
C 70 4	**S3**	**ME3S**	195	307.5	305.5	731.5	142	98.5	—	—	—	—	—	—
C 70 4	**S3**	**ME3L**	195	307.5	305.5	763.5	142	104	—	—	—	—	—	—
C 70 4	**S4**	**ME4**	258	339	337	871.5	193	138	—	—	—	—	—	—
C 70 4	**S4**	**ME4LB**	258	339	337	906.5	193	146	—	—	—	—	—	—

C 70...M/ME

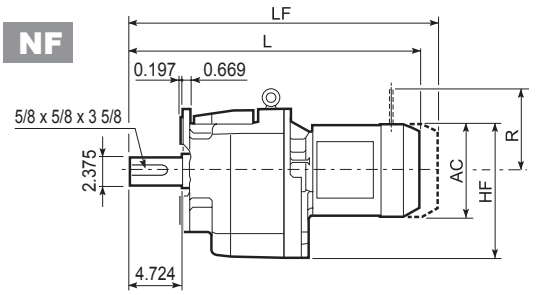
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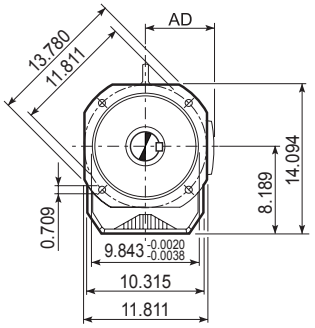






NF



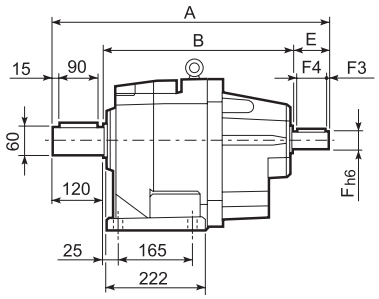


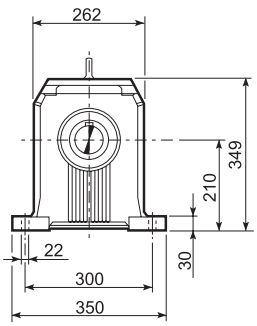
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

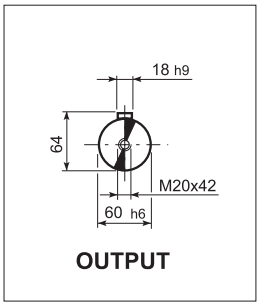
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 70 2/3	**S2**	**ME2S**	6.142	11.339	11.260	25.059	4.685	194	—	—	—	—	—	—
C 70 2/3	**S3**	**ME3S**	7.677	12.106	12.028	26.791	5.591	208	—	—	—	—	—	—
C 70 2/3	**S3**	**ME3L**	7.677	12.106	12.028	28.051	5.591	223	—	—	—	—	—	—
C 70 2/3	**S4**	**ME4**	10.157	13.346	13.268	32.303	7.598	298	—	—	—	—	—	—
C 70 2/3	**S4**	**ME4LB**	10.157	13.346	13.268	33.681	7.598	315	—	—	—	—	—	—
C 70 2/3	**S5**	**ME5S**	12.205	14.370	14.291	35.709	9.646	359	—	—	—	—	—	—
C 70 2/3	**S5**	**ME5L**	12.205	14.370	14.291	37.441	9.646	395	—	—	—	—	—	—
C 70 4	**S1**	**M1**	5.433	10.984	10.906	25.965	4.252	194	28.366	201	4.055	5.315	4.882	4.252
C 70 4	**S2**	**ME2S**	6.142	11.339	11.260	27.067	4.685	203	—	—	—	—	—	—
C 70 4	**S3**	**ME3S**	7.677	12.106	12.028	28.799	5.591	217	—	—	—	—	—	—
C 70 4	**S3**	**ME3L**	7.677	12.106	12.028	30.059	5.591	229	—	—	—	—	—	—
C 70 4	**S4**	**ME4**	10.157	13.346	13.268	34.311	7.598	304	—	—	—	—	—	—
C 70 4	**S4**	**ME4LB**	10.157	13.346	13.268	35.689	7.598	322	—	—	—	—	—	—

C 70...HS

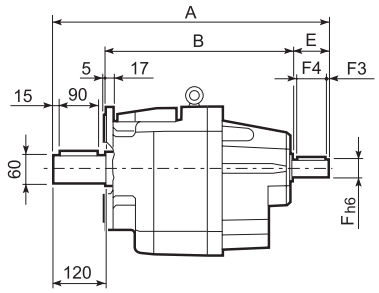
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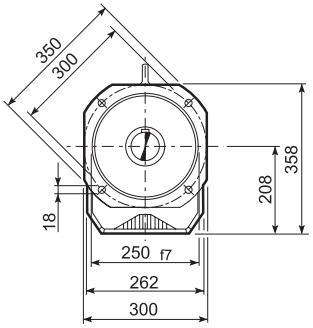


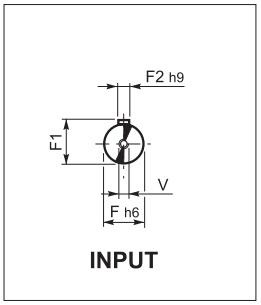




F







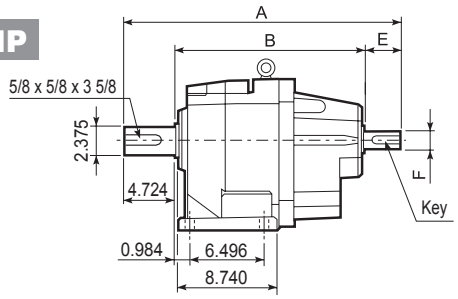
Dimensões em mm

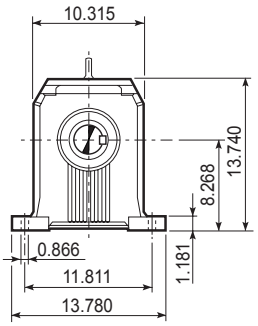
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 70 2	**HS**	657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 3		657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 4		593.5	423.5	50	24	27	8	2.5	45	M8x19	94

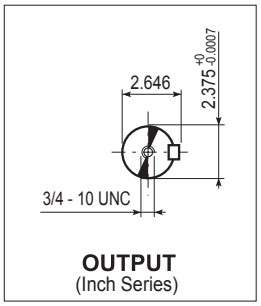
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 70...NHS

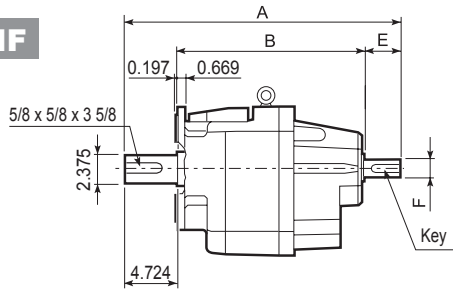
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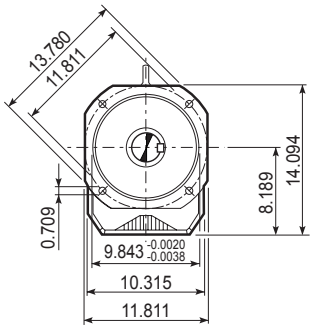


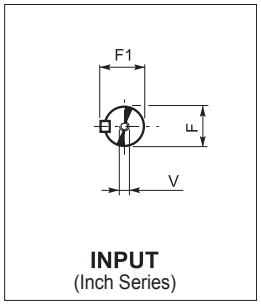




NF







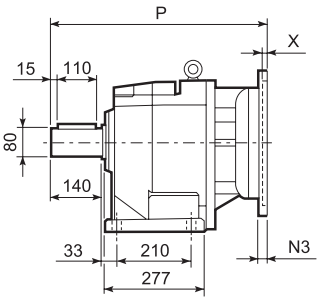
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

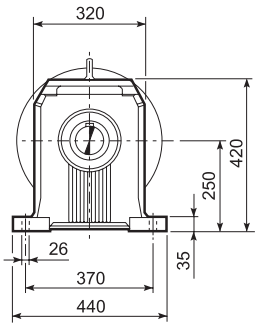
		A	B	E	F	F1	V	Key	lbs
C 70 2		25.805	16.831	4.250	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	238
C 70 3	**NHS**	25.805	16.831	4.250	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	238
C 70 4		23.366	16.673	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	207

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

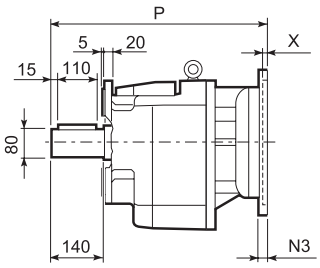
C 80...P(IEC)

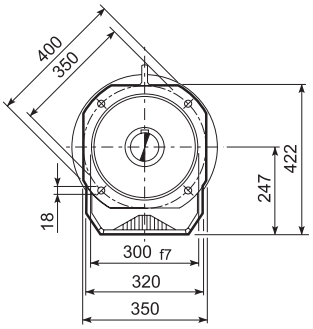
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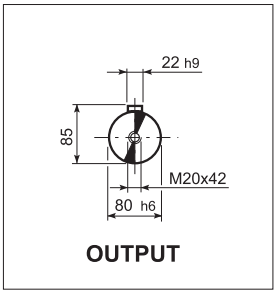




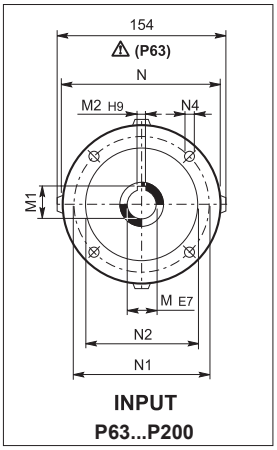
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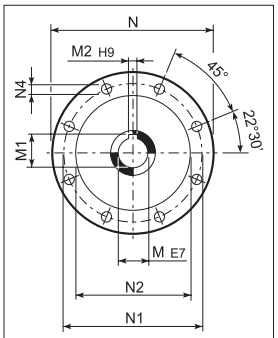




OUTPUT



INPUT
P63...P200



INPUT
P225

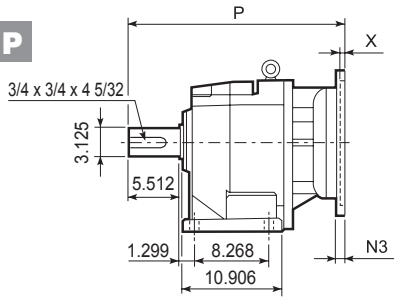
Dimensões em mm

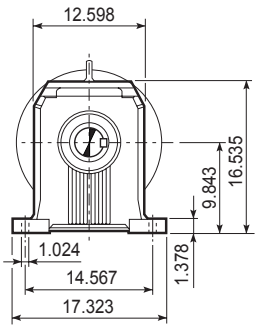
		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 80 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	533	135
C 80 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	533	135
C 80 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	579.5	141
C 80 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	635	154
C 80 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	635	154
C 80 2	**P200**	55	59.3	16	400	350	300	—	M16x25	7	660	176
C 80 2	**P225**	60	64.4	18	450	400	350	25	18	6	705.5	178
C 80 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	576.5	138
C 80 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	576.5	138
C 80 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	596	140
C 80 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	596	140
C 80 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	**P132**	38	41.3	10	300	265	230	16	M12x16	5	642.5	146

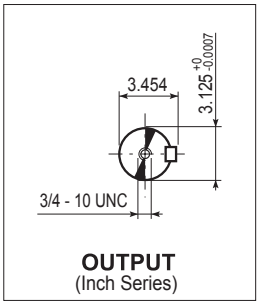
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 80...N(NEMA Input)

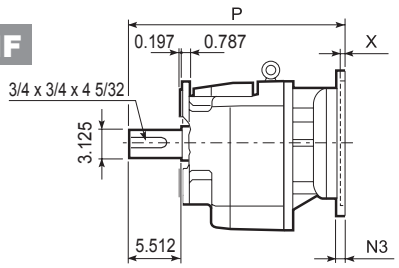
NP

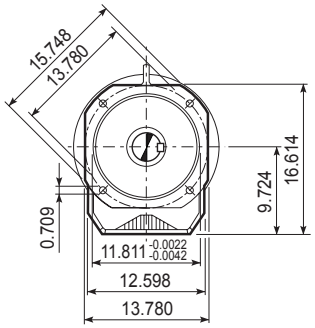


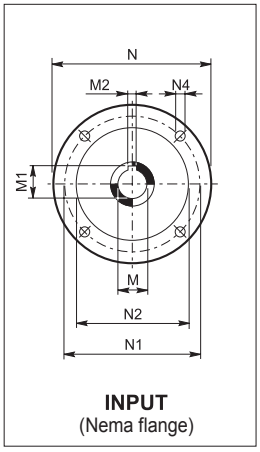




NF



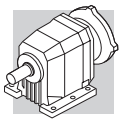




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

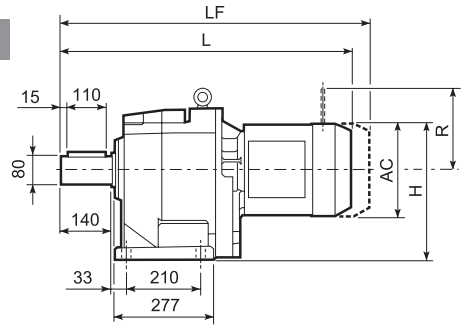
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 80 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.752	306
C 80 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	22.992	311
C 80 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	25.984	369
C 80 2	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	26.181	373
C 80 2	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	29.035	459
C 80 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.484	304
C 80 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.484	309
C 80 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	24.232	317
C 80 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	25.472	322

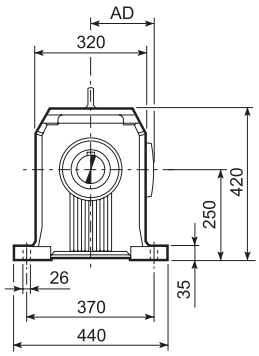
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

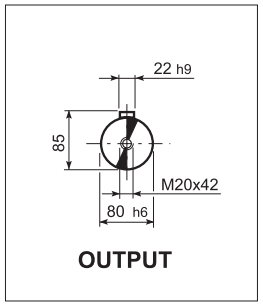


C 80...M/ME

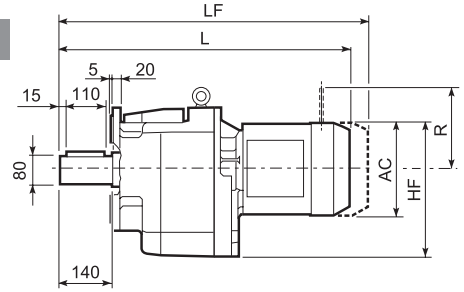
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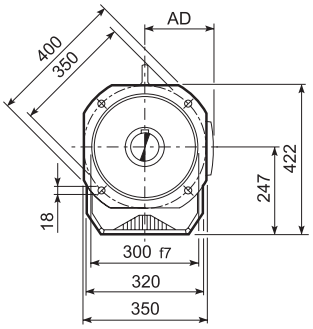






F



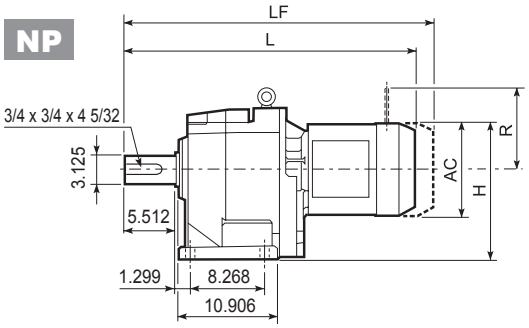


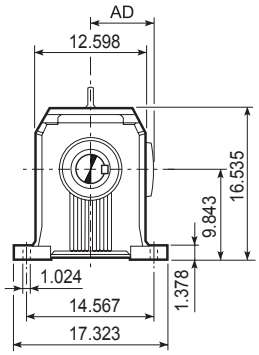
Dimensões em mm

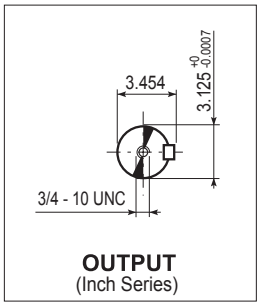
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 80 2/3	**S3**	**ME3S**	195	347.5	344.5	742.5	142	140.5	—	—	—	—	—	—
C 80 2/3	**S3**	**ME3L**	195	347.5	344.5	774.5	142	146	—	—	—	—	—	—
C 80 2/3	**S4**	**ME4**	258	379	376	882.5	193	180	—	—	—	—	—	—
C 80 2/3	**S4**	**ME4LB**	258	379	376	917.5	193	188	—	—	—	—	—	—
C 80 2/3	**S5**	**ME5S**	310	405	402	969	245	208	—	—	—	—	—	—
C 80 2/3	**S5**	**ME5L**	310	405	402	1013	245	224	—	—	—	—	—	—
C 80 4	**S1**	**M1**	138	319	316	733.5	108	133	794.5	136	103	135	124	108
C 80 4	**S2**	**ME2S**	156	328	325	761.5	119	137	—	—	—	—	—	—
C 80 4	**S3**	**ME3S**	195	347.5	344.5	805.5	142	143.5	—	—	—	—	—	—
C 80 4	**S3**	**ME3L**	195	347.5	344.5	837.5	142	149	—	—	—	—	—	—
C 80 4	**S4**	**ME4**	258	379	376	945.5	193	183	—	—	—	—	—	—
C 80 4	**S4**	**ME4LB**	258	379	376	980.5	193	191	—	—	—	—	—	—

C 80...M/ME

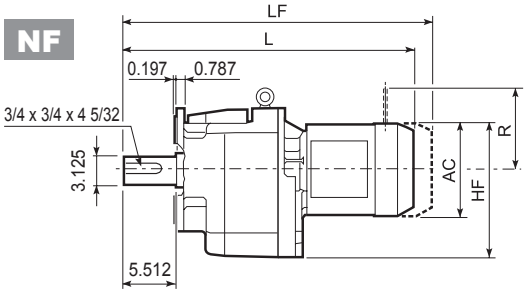
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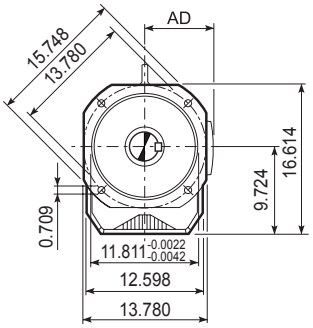






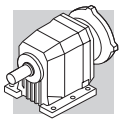
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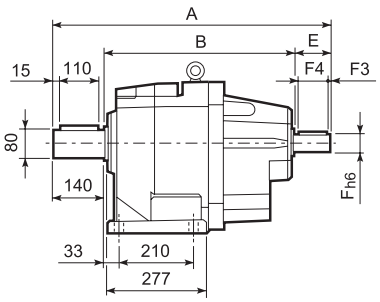
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

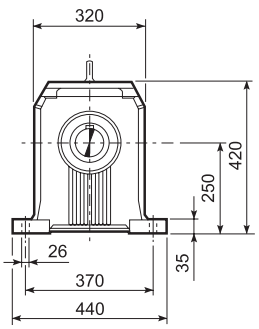
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 80 2/3	**S3**	**ME3S**	7.677	13.681	13.563	29.232	5.591	310	—	—	—	—	—	—
C 80 2/3	**S3**	**ME3L**	7.677	13.681	13.563	30.492	5.591	322	—	—	—	—	—	—
C 80 2/3	**S4**	**ME4**	10.157	14.921	14.803	34.744	7.598	397	—	—	—	—	—	—
C 80 2/3	**S4**	**ME4LB**	10.157	14.921	14.803	36.122	7.598	414	—	—	—	—	—	—
C 80 2/3	**S5**	**ME5S**	12.205	15.945	15.827	38.150	9.646	459	—	—	—	—	—	—
C 80 2/3	**S5**	**ME5L**	12.205	15.945	15.827	39.882	9.646	494	—	—	—	—	—	—
C 80 4	**S1**	**M1**	5.433	12.559	12.441	28.878	4.252	293	31.280	300	4.055	5.315	4.882	4.252
C 80 4	**S2**	**ME2S**	6.142	12.913	12.795	29.980	4.685	302	—	—	—	—	—	—
C 80 4	**S3**	**ME3S**	7.677	13.681	13.563	31.713	5.591	316	—	—	—	—	—	—
C 80 4	**S3**	**ME3L**	7.677	13.681	13.563	32.972	5.591	328	—	—	—	—	—	—
C 80 4	**S4**	**ME4**	10.157	14.921	14.803	37.224	7.598	403	—	—	—	—	—	—
C 80 4	**S4**	**ME4LB**	10.157	14.921	14.803	38.602	7.598	421	—	—	—	—	—	—

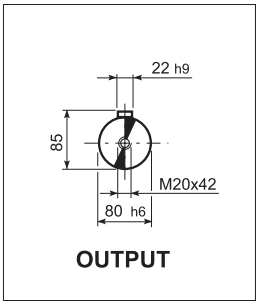


C 80...HS

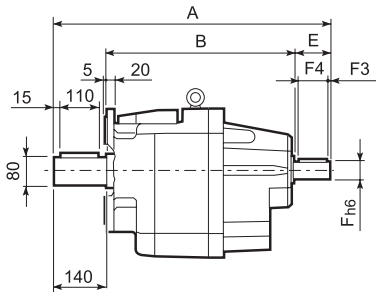
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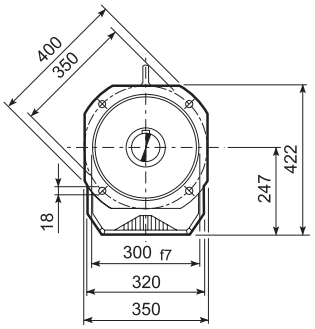


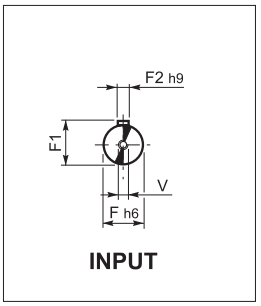




F







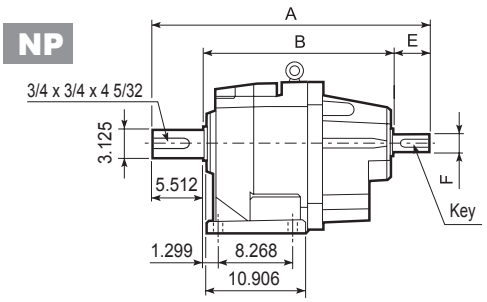
Dimensões em mm

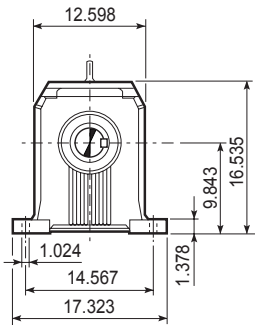
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 80 2		718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 3	**HS**	718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 4		666.5	476.5	50	24	27	8	2.5	45	M8x19	141

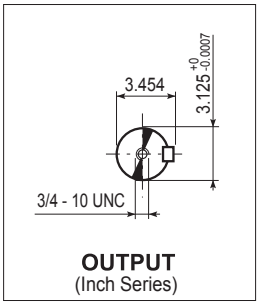
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 80...NHS

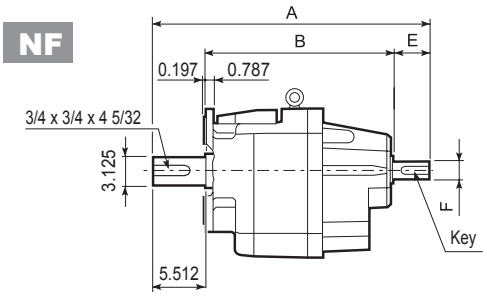
NP

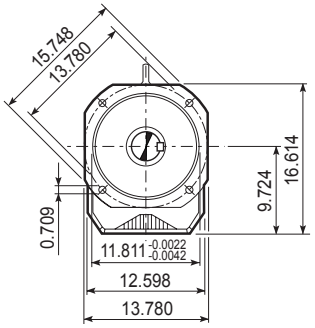


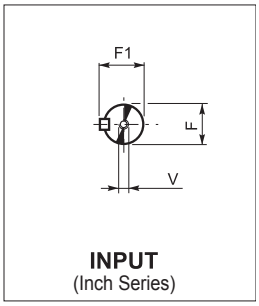




NF



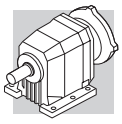




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

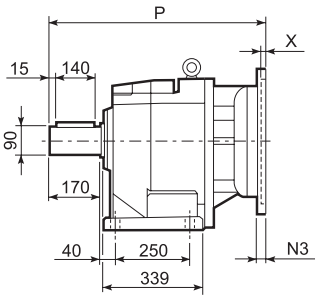
		A	B	E	F	F1	V	Key	lbs
C 80 2	**NHS**	28.207	18.445	4.250	1.625 +0 -0.0006	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	340
C 80 3		28.207	18.445	4.250	1.625 +0 -0.0006	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	340
C 80 4		26.240	18.760	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	311

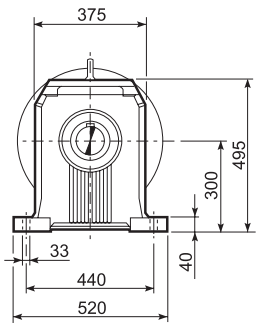
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



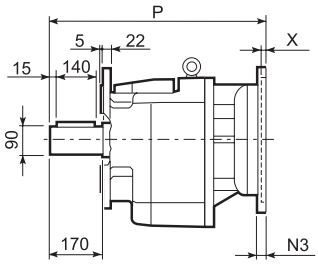
C 90...P(IEC)

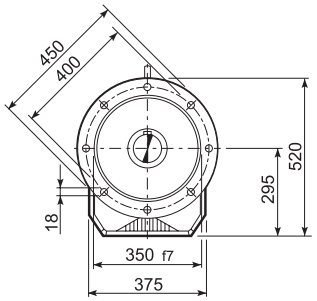
P

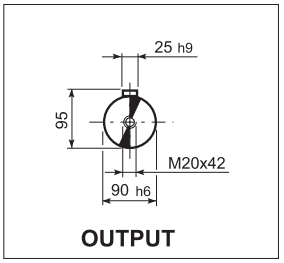




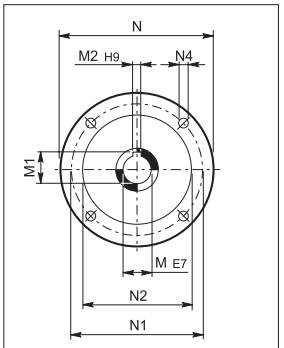
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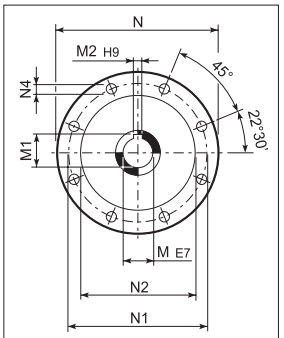




OUTPUT



INPUT
P71...P200



INPUT
P225...P250

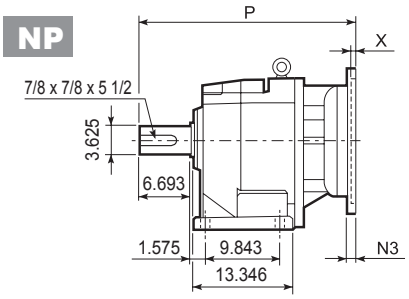
Dimensões em mm

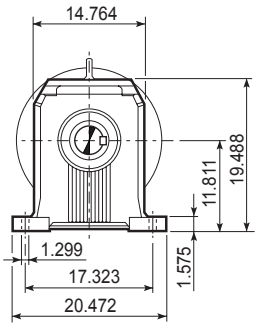
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 90 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	644.5	229
C 90 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	644.5	229
C 90 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	691	236
C 90 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	746.5	251
C 90 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	746.5	251
C 90 2/3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	771.5	272
C 90 2/3	**P225**	60	64.4	18	450	400	350	30	18	6	817	273
C 90 2/3	**P250**	65	69.4	18	550	500	450	30	18	6	847	295
C 90 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	707.5	236
C 90 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	707.5	236
C 90 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	727	238
C 90 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	727	238
C 90 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	**P132**	38	41.3	10	300	265	230	16	14	5	773.5	244
C 90 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	824	248
C 90 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	824	248

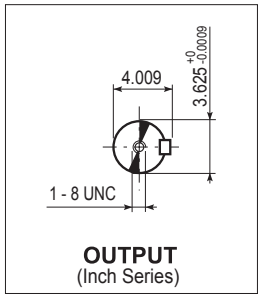
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 90...N(NEMA Input)

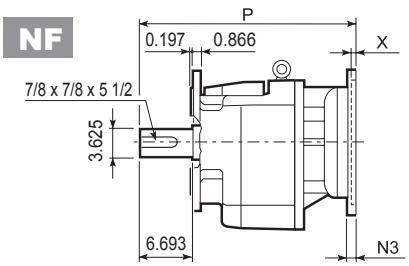
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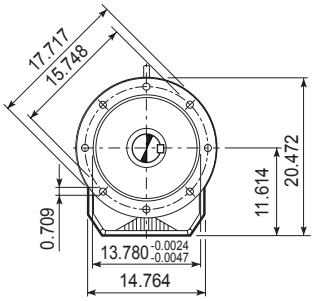


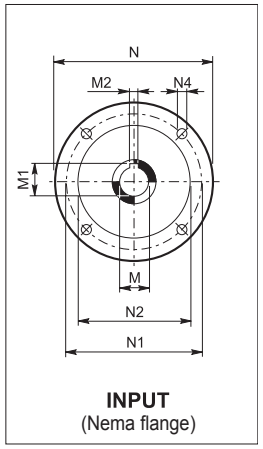




NF



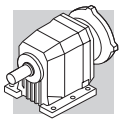




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

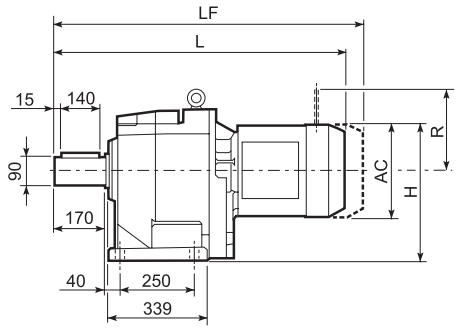
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 90 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	26.142	516
C 90 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	27.382	520
C 90 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	30.374	583
C 90 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	30.571	587
C 90 2/3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	33.425	668
C 90 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	28.642	520
C 90 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	28.642	525
C 90 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	29.390	534
C 90 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	30.630	538
C 90 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	33.425	577
C 90 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	33.622	580

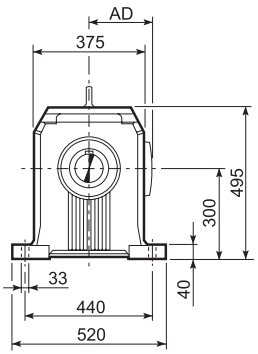
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

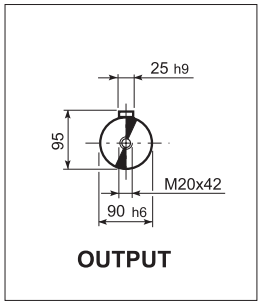


C 90...M/ME

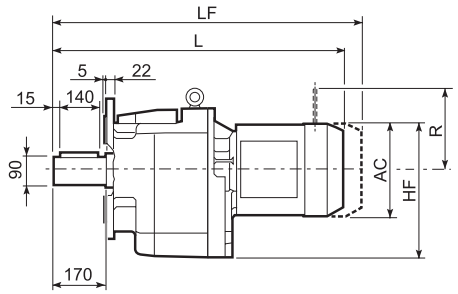
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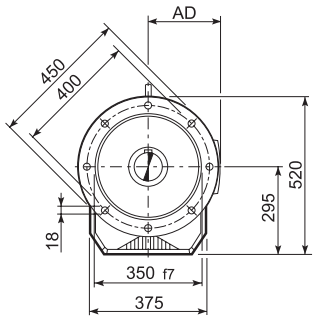






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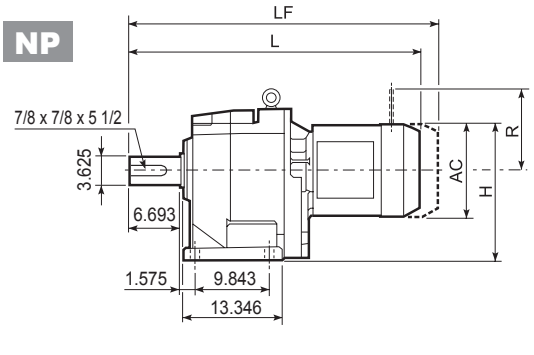


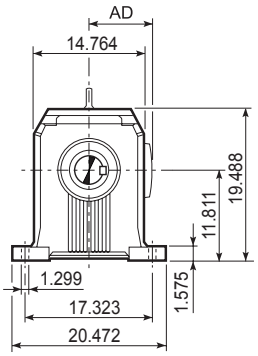
Dimensões em mm

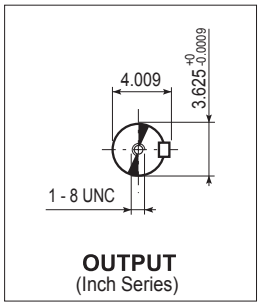
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 90 2/3	**S3**	**ME3S**	195	397.5	392.5	852	142	229.5	—	—	—	—	—	—
C 90 2/3	**S3**	**ME3L**	195	397.5	392.5	884	142	236	—	—	—	—	—	—
C 90 2/3	**S4**	**ME4**	258	429	424	992	193	270	—	—	—	—	—	—
C 90 2/3	**S4**	**ME4LB**	258	429	424	1027	193	278	—	—	—	—	—	—
C 90 2/3	**S5**	**ME5S**	310	455	450	1078.5	245	298	—	—	—	—	—	—
C 90 2/3	**S5**	**ME5L**	310	455	450	1122.5	245	314	—	—	—	—	—	—
C 90 4	**S1**	**M1**	138	369	364	862	108	226	923	228	103	135	124	108
C 90 4	**S2**	**M2S**	156	378	373	891	119	234	962	238	129	146	134	119
C 90 4	**S2**	**ME2S**	156	378	373	891	119	234	—	—	—	—	—	—
C 90 4	**S3**	**ME3S**	195	397.5	392.5	935	142	240.5	—	—	—	—	—	—
C 90 4	**S3**	**ME3L**	195	397.5	392.5	967	142	246	—	—	—	—	—	—
C 90 4	**S4**	**ME4**	258	429	424	1075	193	280	—	—	—	—	—	—
C 90 4	**S4**	**ME4LB**	258	429	424	1126.5	193	288	—	—	—	—	—	—

C 90...M/ME

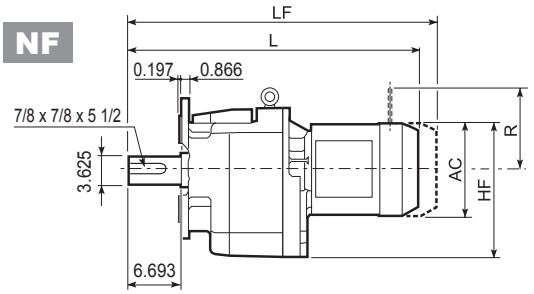
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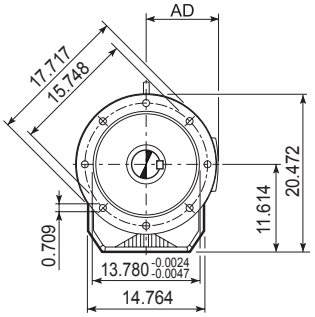






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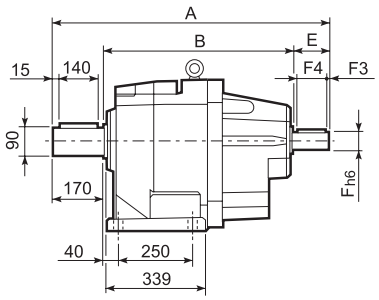


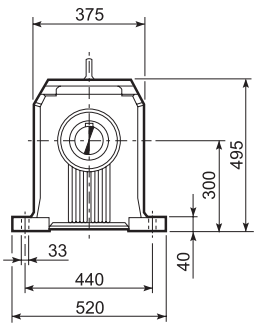
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

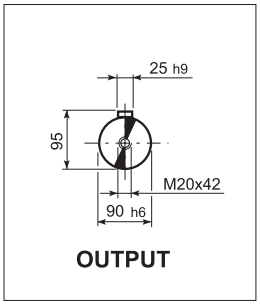
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 90 2/3	**S3**	**ME3S**	7.677	15.650	15.453	33.543	5.591	506	—	—	—	—	—	—
C 90 2/3	**S3**	**ME3L**	7.677	15.650	15.453	34.803	5.591	520	—	—	—	—	—	—
C 90 2/3	**S4**	**ME4**	10.157	16.890	16.693	39.055	7.598	595	—	—	—	—	—	—
C 90 2/3	**S4**	**ME4LB**	10.157	16.890	16.693	40.433	7.598	613	—	—	—	—	—	—
C 90 2/3	**S5**	**ME5S**	12.205	17.913	17.717	42.461	9.646	657	—	—	—	—	—	—
C 90 2/3	**S5**	**ME5L**	12.205	17.913	17.717	44.193	9.646	692	—	—	—	—	—	—
C 90 4	**S1**	**M1**	5.433	14.528	14.331	33.937	4.252	498	36.339	503	4.055	5.315	4.882	4.252
C 90 4	**S2**	**M2S**	6.142	14.882	14.685	35.079	4.685	516	37.874	525	5.079	5.748	5.276	4.685
C 90 4	**S2**	**ME2S**	6.142	14.882	14.685	35.079	4.685	516	—	—	—	—	—	—
C 90 4	**S3**	**ME3S**	7.677	15.650	15.453	36.811	5.591	530	—	—	—	—	—	—
C 90 4	**S3**	**ME3L**	7.677	15.650	15.453	38.071	5.591	542	—	—	—	—	—	—
C 90 4	**S4**	**ME4**	10.157	16.890	16.693	42.323	7.598	617	—	—	—	—	—	—
C 90 4	**S4**	**ME4LB**	10.157	16.890	16.693	44.350	7.598	635	—	—	—	—	—	—

C 90...HS

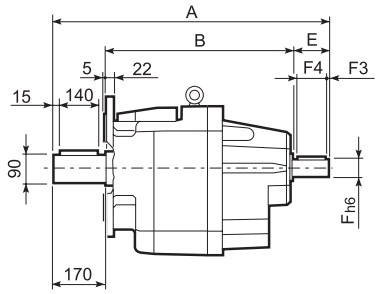
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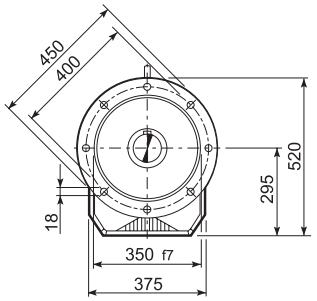


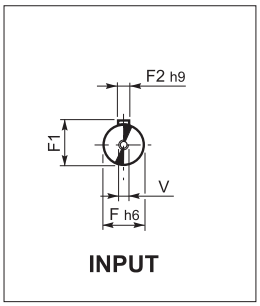




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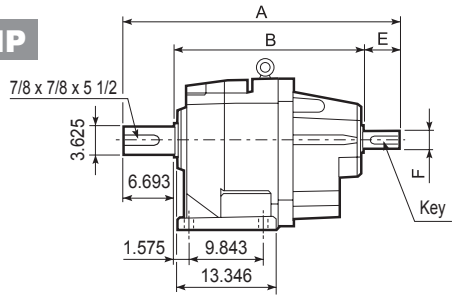
Dimensões em mm

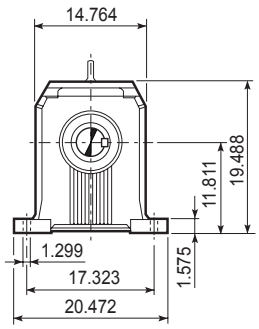
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 90 2		930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 3	**HS**	930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 4		797	577	50	24	27	8	2.5	45	M8x19	240

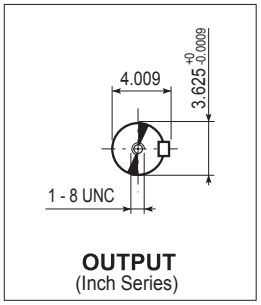
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 90...NHS

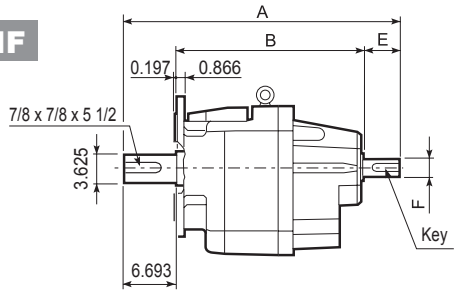
NP

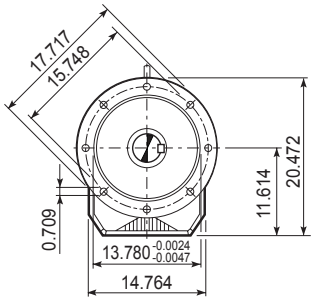


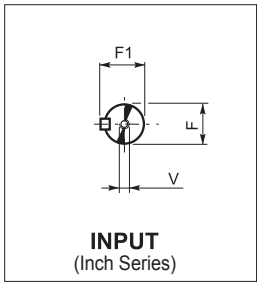




NF



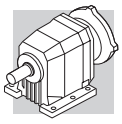




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

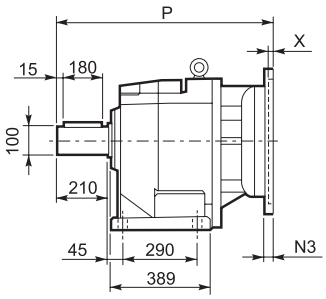
		A	B	E	F	F1	V	Key	lbs
C 90 2		36.122	24.429	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	602
C 90 3	**NHS**	36.122	24.429	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	602
C 90 4		31.378	22.717	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	529

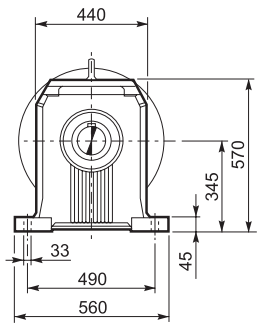
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

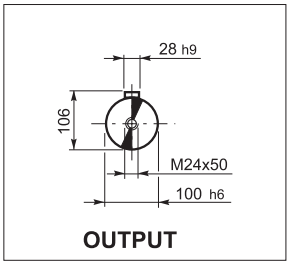


C 100...P(IEC)

P

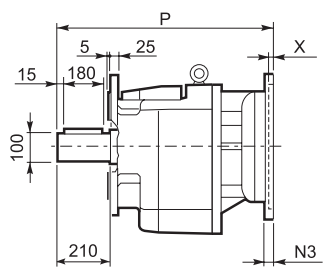


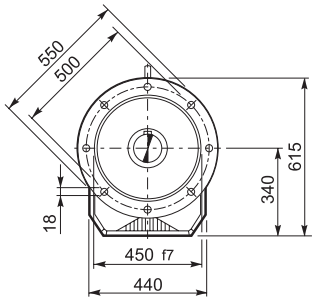


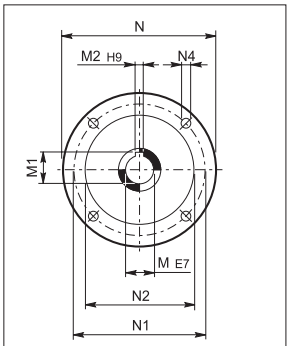


OUTPUT

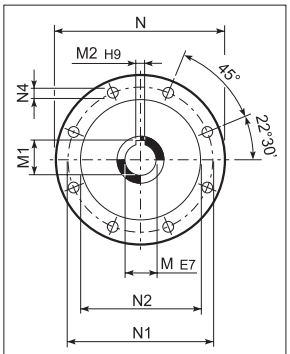
F







INPUT
P80...P200



INPUT
P225...P280

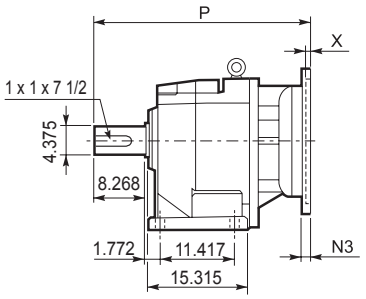
Dimensões em mm

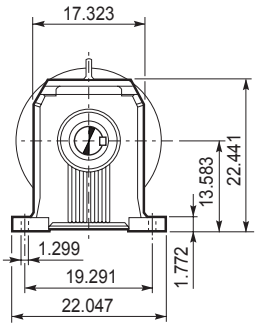
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 100 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	786	367
C 100 2/3	**P160**	42	45.3	12	350	300	250	23	18	6	841.5	382
C 100 2/3	**P180**	48	51.8	14	350	300	250	23	18	6	841.5	382
C 100 2/3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	866.5	403
C 100 2/3	**P225**	60	64.4	18	450	400	350	30	18	7	912	403
C 100 2/3	**P250**	65	69.4	18	550	500	450	30	18	7	942	426
C 100 2/3	**P280**	75	79.9	20	550	500	450	30	18	6	942	426
C 100 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	803	369
C 100 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	803	369
C 100 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	822.5	371
C 100 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	822.5	371
C 100 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	**P132**	38	41.3	10	300	265	230	16	14	5	869	377
C 100 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	919.5	381
C 100 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	919.5	381

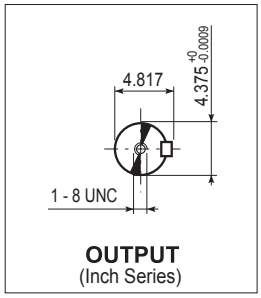
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

C 100...N(NEMA Input)

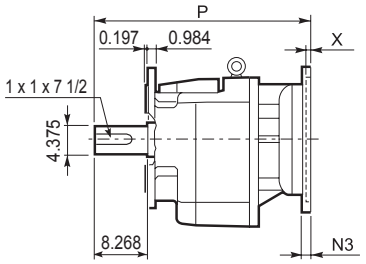
NP

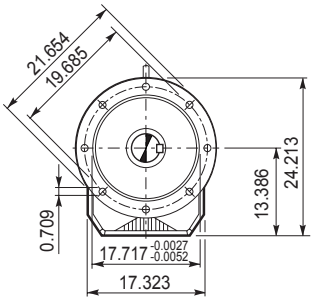


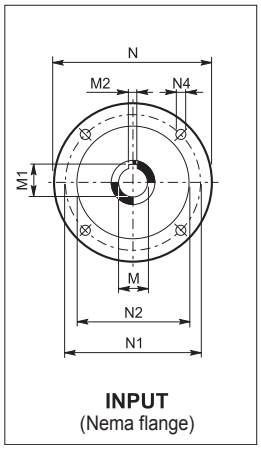




NF



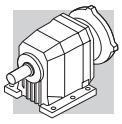




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

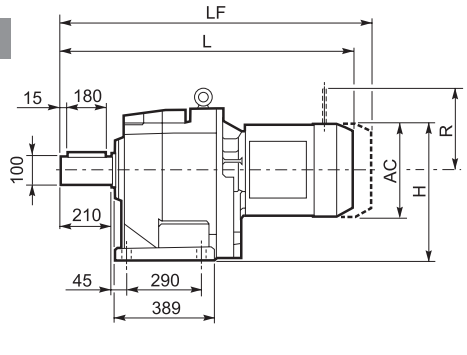
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 100 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	31.122	809
C 100 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	34.114	872
C 100 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	34.311	875
C 100 2/3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	37.165	955
C 100 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	32.402	813
C 100 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	32.402	818
C 100 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	33.150	827
C 100 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	34.390	831
C 100 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	37.185	870
C 100 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	37.382	873

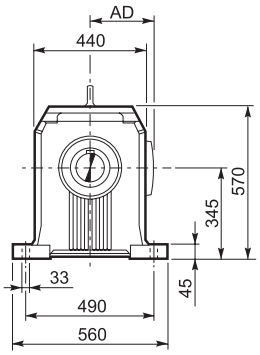
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

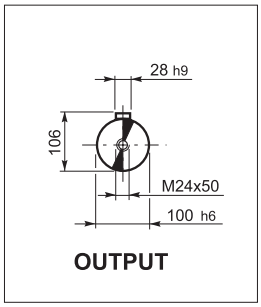


C 100...M/ME

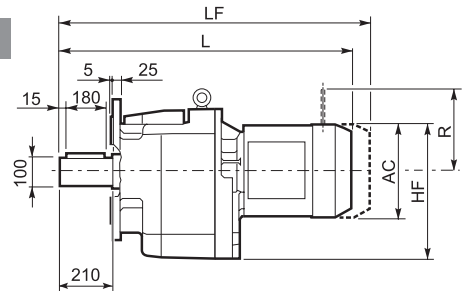
P

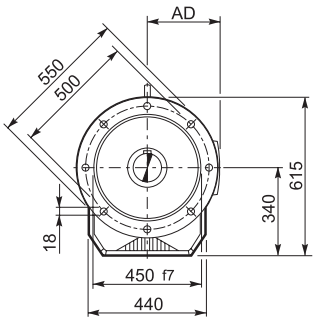






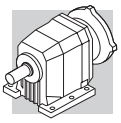
F





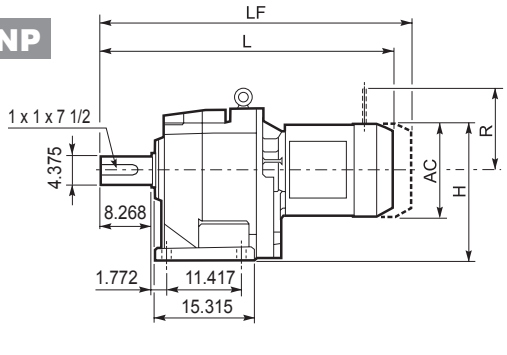
Dimensões em mm

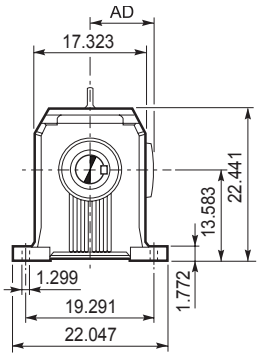
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
C 100 2/3	**S4**	**ME4**	258	474	469	1087	193	392	—	—	—	—	—	—
C 100 2/3	**S4**	**ME4LB**	258	474	469	1122	193	400	—	—	—	—	—	—
C 100 2/3	**S5**	**ME5S**	310	500	495	1173.5	245	420	—	—	—	—	—	—
C 100 2/3	**S5**	**ME5L**	310	500	495	1217.5	245	436	—	—	—	—	—	—
C 100 4	**S1**	**M1**	138	414	409	956.5	108	346	1027.5	348	103	135	124	108
C 100 4	**S2**	**M2S**	156	423	418	985.5	119	354	1056.5	357	129	146	134	119
C 100 4	**S2**	**ME2S**	156	423	418	985.5	119	354	—	—	—	—	—	—
C 100 4	**S3**	**ME3S**	195	442.5	437.5	1029.5	142	359.5	—	—	—	—	—	—
C 100 4	**S3**	**ME3L**	195	442.5	437.5	1061.5	142	366	—	—	—	—	—	—
C 100 4	**S4**	**ME4**	258	474	469	1169.5	193	400	—	—	—	—	—	—
C 100 4	**S4**	**ME4LB**	258	474	469	1204.5	245	408	—	—	—	—	—	—

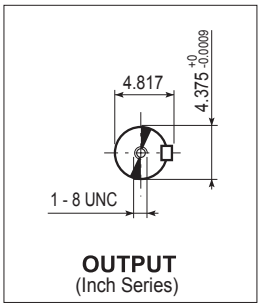


C 100...M/ME

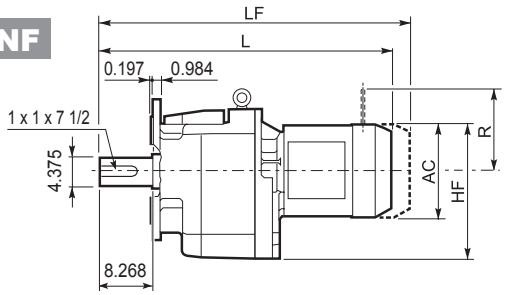
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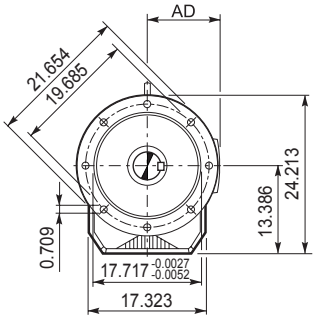






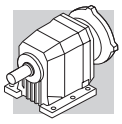
NF





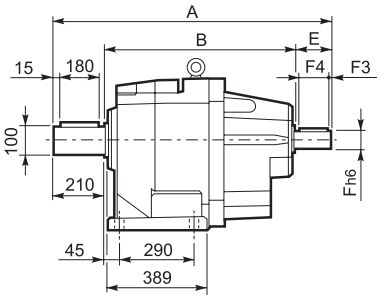
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

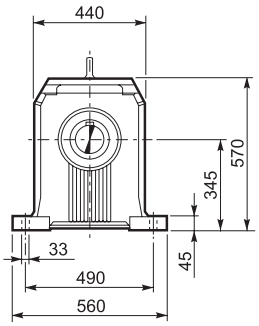
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	lbs	LF	lbs	R	AD	R	AD
C 100 2/3	**S4**	**ME4**	10.157	18.661	18.465	42.795	7.598	864	—	—	—	—	—	—
C 100 2/3	**S4**	**ME4LB**	10.157	18.661	18.465	44.173	7.598	882	—	—	—	—	—	—
C 100 2/3	**S5**	**ME5S**	12.205	19.685	19.488	46.201	9.646	926	—	—	—	—	—	—
C 100 2/3	**S5**	**ME5L**	12.205	19.685	19.488	47.933	9.646	961	—	—	—	—	—	—
C 100 4	**S1**	**M1**	5.433	16.299	16.102	37.657	4.252	763	40.453	767	4.055	5.315	4.882	4.252
C 100 4	**S2**	**M2S**	6.142	16.654	16.457	38.799	4.685	780	41.594	787	5.079	5.748	5.276	4.685
C 100 4	**S2**	**ME2S**	6.142	16.654	16.457	38.799	4.685	780	—	—	—	—	—	—
C 100 4	**S3**	**ME3S**	7.677	17.421	17.224	40.531	5.591	793	—	—	—	—	—	—
C 100 4	**S3**	**ME3L**	7.677	17.421	17.224	41.791	5.591	807	—	—	—	—	—	—
C 100 4	**S4**	**ME4**	10.157	18.661	18.465	46.043	7.598	882	—	—	—	—	—	—
C 100 4	**S4**	**ME4LB**	10.157	18.661	18.465	47.421	9.646	899	—	—	—	—	—	—

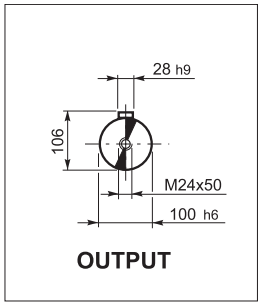


C 100...HS

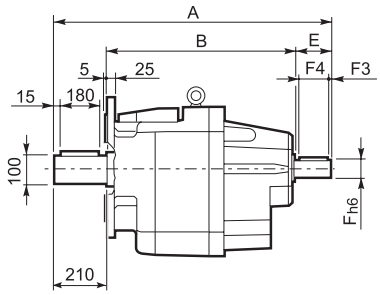
P

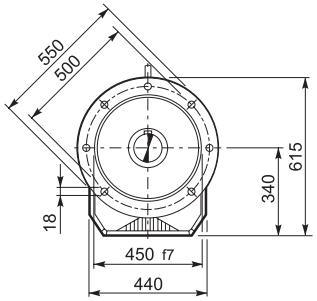


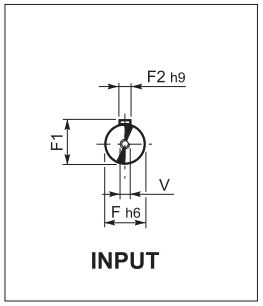




F







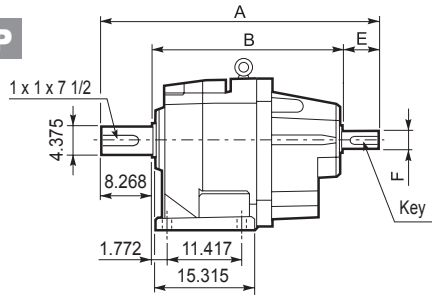
Dimensões em mm

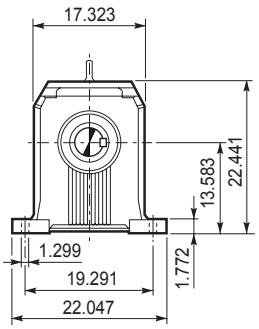
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 100 2		1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 3	**HS**	1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 4		892	632	50	24	27	8	2.5	45	M8x19	372

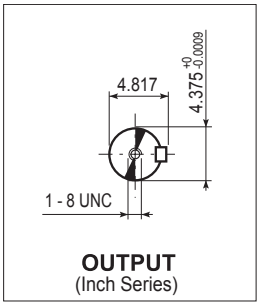
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

C 100...NHS

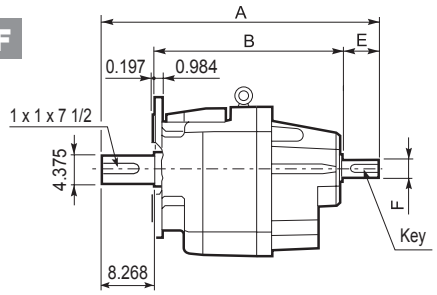
NP

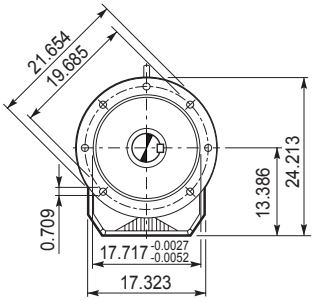


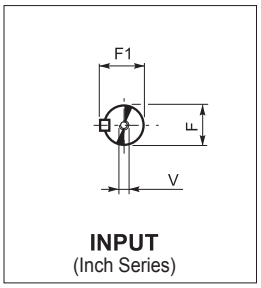




NF







Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

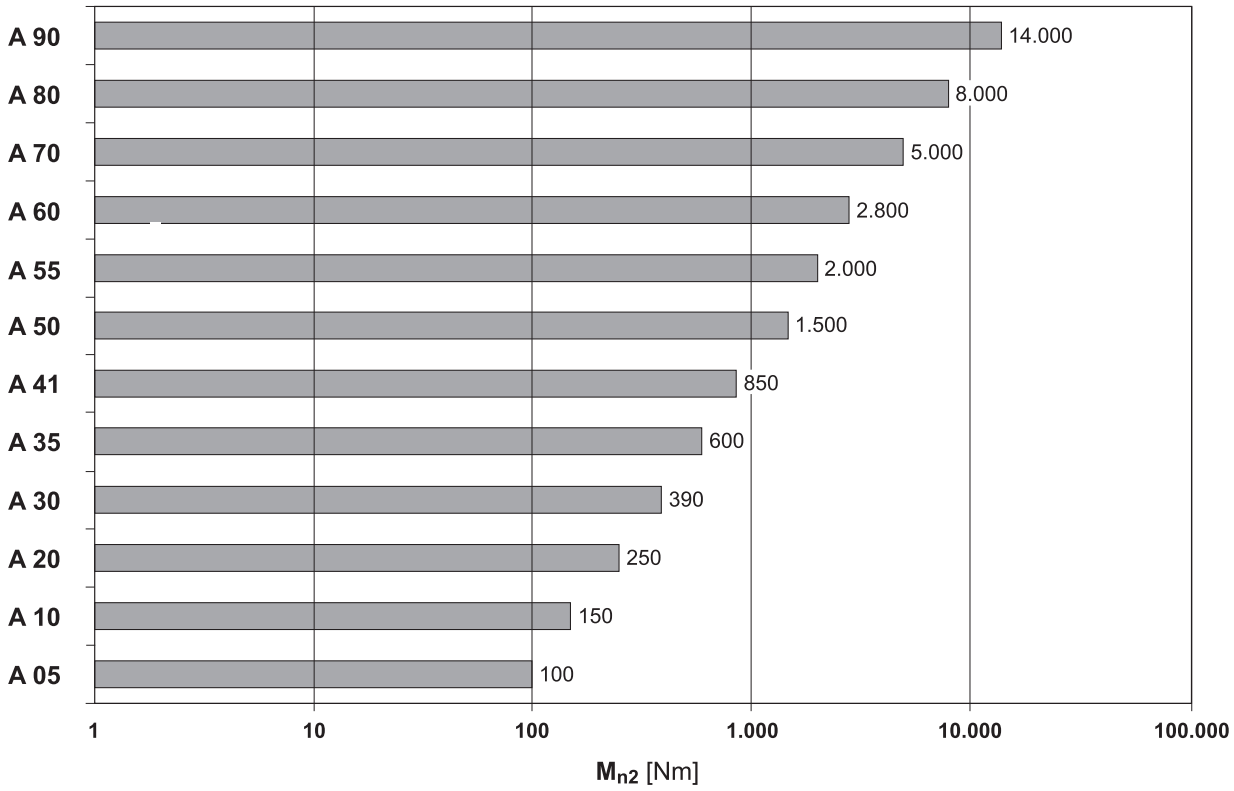
		A	B	E	F	F1	V	Key	lbs
C 100 2		39.862	26.594	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	902
C 100 3	**NHS**	39.862	26.594	5.000	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	902
C 100 4		35.118	24.882	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	820

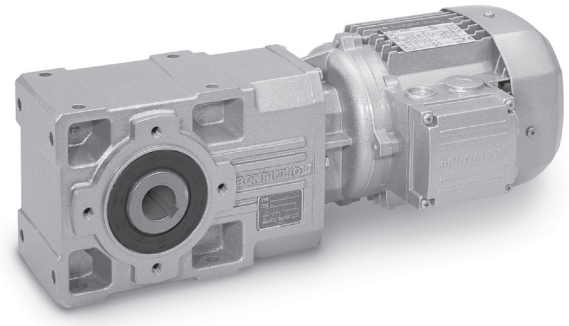
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

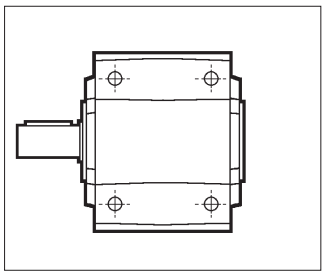
31 CARACTERÍSTICAS DE PROJETO

As principais características de projeto são:
- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 05, 10, 20, 30, sem pintura
- caixas em ferro fundido de alta resistência pintadas para tamanhos de quadro maiores
- eixos de entrada e saída feitos com aço de alta qualidade.

(C 26)



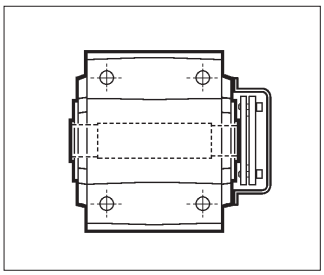




UR / NUR

Eixo de saída com extensão única

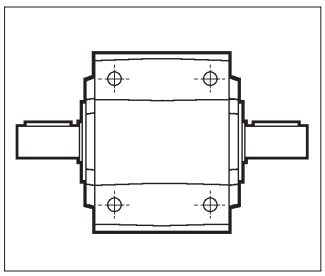
A 10 ... A 90



US

Eixo de saída oco e disco de contração

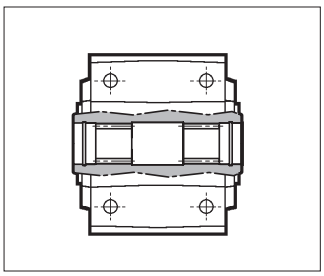
A 05 ... A 90



UD / NUD

Eixo de saída com extensão dupla

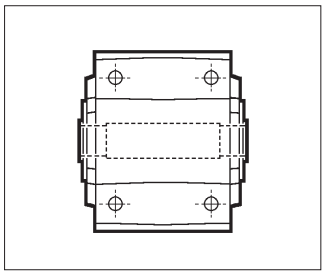
A 10 ... A 90



UV

Eixo oco estriado DIN 5480

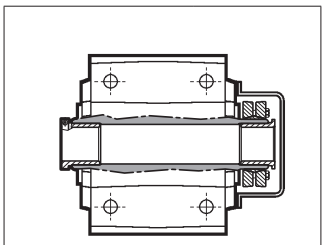
A 20 ... A 60



UH / NUH

Eixo de saída oco e chaveta

A 05 ... A 90



$M_{n2\ max}$ [Nm]	
A 35 QF35	550
A 35 NQF 1-3/8	
A 55 QF55	1900

QF / NQF
(Quick-fit)

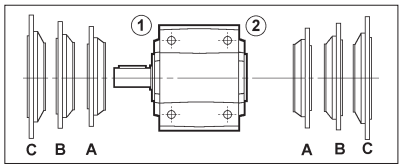
Eixo oco de encaixe rápido com buchas adaptadoras e disco de contração

A 10 ... A 60

Versões básicas com flange parafusado

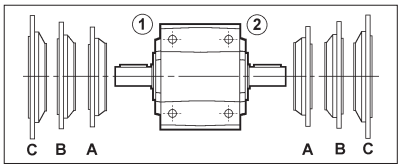
Os desenhos mostram os flanges aplicáveis às versões básicas e suas posições ①, ②.

UR/NUR F1...



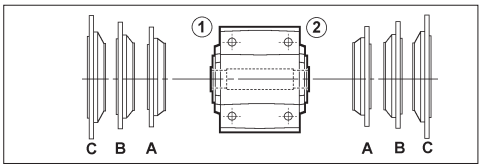
UR/NUR F2...

UD/NUD F1...



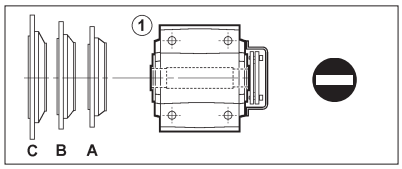
UD/NUD F2...

UH/NUH... F1...



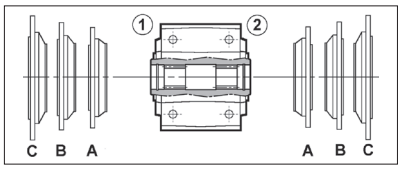
UH/NUH... F2...

US F1...



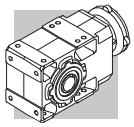
US F2...

UV F1...



UV F2...

QF/NQF...



33 DESIGNAÇÃO

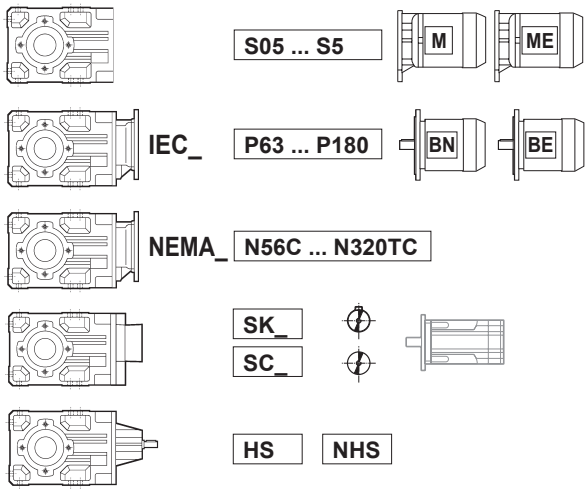
REDUTORES

A 35 2 UH F1A 49.1 S1 VA .....

OPÇÕES

POSIÇÃO DE MONTAGEM
B3 (Padrão), **B6**, **B7**, **B8**, **VA**, **VB**

CONFIGURAÇÃO DE ENTRADA

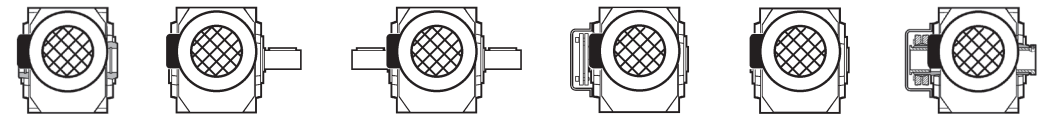


RELAÇÃO DE TRANSMISSÃO

TAMANHO E POSIÇÃO DO FLANGE DE SAÍDA
(especificar somente se solicitado)

F = Versão com flange
1, **2** = Posição do flange
A, **B**, **C** = Tamanho do flange

VERSÃO



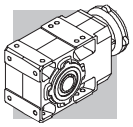
UH_ / NUH	UR / NUR (A 10...A 90)	UD / NUD (A 10...A 90)	US (A 05...A 90)	UV (A 20...A 60)	QF / NQF (A 10...A 60)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
UH25	**UH25**	**UH30**	**UH35**	**UH40**	**UH45**	**UH50**	**UH60**	**UH60**	**UH70**	**UH80**	**UH90**
—	UH30	UH35	UH40	UH35	UH40	UH55	UH50	UH70	UH80	UH90	UH100

REDUÇÕES
2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

TAMANHO DO REDUTOR
05, **10**, **20**, **30**, **35**, **41**, **50**, **55**, **60**, **70**, **80**, **90**

TIPO: **A** = Redutores ortogonais



MOTOR FREIO

M 1LA 4 230/400-60 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPÇÕES

ALIMENTAÇÃO DO FREIO

TIPO DE RETIFICADOR AC/DC
NB, **SB**, **NBR**, **SBR**

LIBERAÇÃO MANUAL DO FREIO
R, **RM**

TORQUE DE FRENAGEM

TIPO DE FREIO
FD (freio d.c.)
FA (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS
W (padrão), **N**, **E**, **S**

MONTAGEM DO MOTOR
— (motor compacto
B5 (motor - IEC)

CLASSE DE ISOLAMENTO
CL F padrão
CL H opção

GRAU DE PROTEÇÃO
IP55 padrão (**IP56** opção)
IP54, **IP55** freio motor

TENSÃO - FREQUÊNCIA

NÚMERO DE POLOS
2, **4**, **6**

TAMANHO DO MOTOR
0B ... 5LA (motor compacto)
63A ... 280M (motor IEC)

TIPO DE MOTOR
ME = trifásico compacto, classe IE2 **M** = trifásico compacto
BE = IEC trifásico, classe IE2 **BN** = trifásico IEC

NEMA = Trifásico a ser especificado conforme ordem

33.1 Opções de redutor

AL, AR

A pedido, o redutor pode ser fornecido completo com um dispositivo contrarrecuo que permite que o eixo de saída gire somente no sentido especificado no pedido. A tabela abaixo mostra os redutores em que o dispositivo contrarrecuo pode ser instalado. O dispositivo contrarrecuo exclui a opção RB.

(C 27)

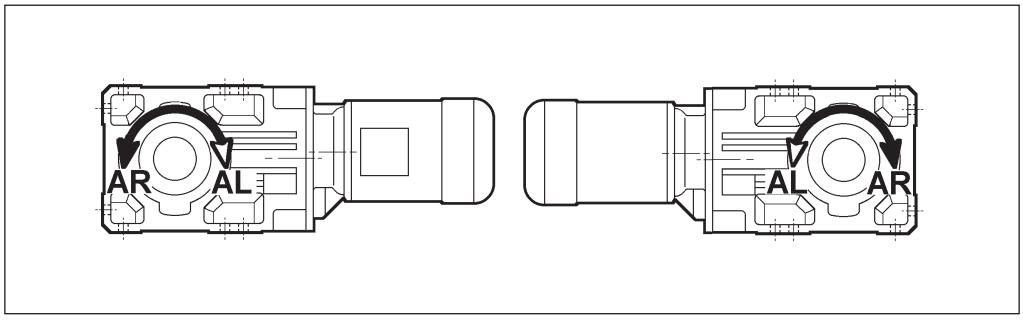
A 30 2*	**A 35 2*** ⛔ (5.4_11.8)	**A 41 2** ⛔ (5.2; 10.1)	**A 50 3**	**A 55 3**	**A 60 3**	**A 70 3**	**A 80 3**	**A 90 3**
			A 50 4	**A 55 4**	**A 60 4**	**A 70 4**	**A 80 4**	**A 90 4**

* O fornecimento do contrarrecuo impedirá a configuração dos adaptadores de servomotor tipos S_60A, S_ 60B, S_80A.

Ao encomendar o redutor, o sentido da rotação livre deve ser especificado através das opções AR ou AL (Tabela C27).

⚠ Obs: Quando o dispositivo contrarrecuo operar com muita frequência, certifique-se de que o torque de retorno do redutor não exceda 70% do torque nominal M_{n2} do redutor em questão.

(C 28)



SO

Os redutores A05, A10, A20, A30, A35 e A41, geralmente já preenchidos com óleo, são, neste caso, fornecidos sem lubrificação.

LO

Os redutores A50, A55, A60, A70, A80 e A90, geralmente fornecidos sem óleo, devem ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI RIDUTTORI de acordo com a posição de montagem especificada.

DV

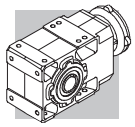
Retentores de óleo duplos no eixo de entrada. (Disponível apenas para motorredutores integrais).

VV

Retentor de óleo em fluorelastômero no eixo de entrada.

PV

Todos os retentores de óleo no material fluorelastômero.



TKL

Vedações do tipo Taconite estão disponíveis para eixos de saída de redutores tamanhos A70 até A90, para uso em ambientes caracterizados pela presença de poeira ou pós abrasivos. Vedações Taconite incorporam uma combinação de anéis de vedação, labirintos e câmaras de graxa. Lubrificação deve ser assegurada como parte do programa de manutenção programada. Esta opção inclui retentores de óleo em fluorelastômero em todos os eixos.
Para a posição de montagem B6, consulte a Assistência Técnica Bonfiglioli.

HDB

Alguns redutores estão disponíveis com maiores classificações de carga radial para uso em aplicações caracterizadas por altas cargas radiais além da capacidade dos redutores padrão. Especifique a opção HDB ao fazer o pedido para obter esta maior capacidade de carga radial. A opção HDB está disponível para redutores tamanhos A10 até A50 com um eixo de saída unilateral ou eixo de saída sólido. A tabela a seguir especifica as cargas máximas para as versões de redutores reforçadas com HDB. Os dados referem-se às forças ao longo da linha central do eixo de saída.

(C 29)

HDB	R_{N2}					
	A 10	A 20	A 30	A 35	A 41	A 50
n1 = 1800	**5500 N**	**6200 N**	**9600 N**	**12000 N**	**15000 N**	**20000 N**
n1 = 1200	**5500 N**	**6200 N**	**9600 N**	**12000 N**	**15000 N**	**20000 N**

Rolamentos reforçados também permitem que estas versões suportem cargas axiais mais altas, e especificamente

$$A_{N2} = 0.35 \times R_{n2} \quad (24)$$

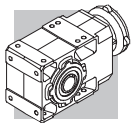
em aplicações sem carga radial, a capacidade da carga axial aumenta para:

$$A_{N2} = 0.70 \times R_{n2} \quad (25)$$

Se a carga for aplicada simultaneamente nas duas pontas de um eixo de saída sólido, entre em contato com a Assistência Técnica da Bonfiglioli para verificar a aplicação.

RB

Os redutores A10, A20, A30, A35, A41, A50, A55 e A60, geralmente fornecidos com valores padrão de folga angular, são, neste caso, fornecidos com valores reduzidos de folga angular (exclui as opções de redutores AL e AR descritos neste parágrafo). A tabela a abaixo especifica os respectivos valores de folga angular.



(C 30)

		standard		RB	
A05	i =	5.5_12.3 - ⛀(10.6)	10.6_91.6 - ⛀(12.3)	—	
	φ [’]	**28**	**18**		
A10	i =	5.5_12.3 - ⛀(10.6)	10.6_91.6 - ⛀(12.3)	5.5_12.3 - ⛀(10.6)	10.6_91.6 - ⛀(12.3)
	φ [’]	**27**	**17**	**12**	**8**
A20	i =	5.4_12 - ⛀(10.3)	10.3_380.9 - ⛀(12)	5.4_12 - ⛀(10.3)	10.3_380.9 - ⛀(12)
	φ [’]	**23**	**15**	**11**	**7**
A30	i =	5.4_11.8 - ⛀(10.5)	10.5_400.8 - ⛀(11.8)	5.4_11.8 - ⛀(10.5)	10.5_400.8 - ⛀(11.8)
	φ [’]	**22**	**15**	**10**	**7**
A35	i =	5.4_11.8	13.1_393.2	5.4_11.8	13.1_393.2
	φ [’]	**20**	**11**	**9**	**6**
A41	i =	5.2_11.7 - ⛀(10.1)	10.1_376.8 - ⛀(11.7)	5.2-11.7 - ⛀(10.1)	10.1_376.8 - ⛀(11.7)
	φ [’]	**19**	**13**	**9**	**6**
A50	i =	7.7_778.2		7.7_778.2	
	φ [’]	**16**		**7**	
A55	i =	4.9_19.2	23.8_793	4.9_19.2	23.8_793
	φ [’]	**17**	**11**	**8**	**6**
A60	i =	7.9_20.6	25.7_755.4	7.9_20.6	25.7_755.4
	φ [’]	**12**	**9**	**5**	**4**
A70	i =	9.4_21.3	23.5_1715	—	
	φ [’]	**14**	**12**		
A80	i =	9.8_20.9	22.6_1558	—	
	φ [’]	**13**	**11**		
A90	i =	9.7_21	22.3_1632	—	
	φ [’]	**12**	**10**		

Para informações sobre o prazo de entrega, entre em contato com a rede de vendas Bonfiglioli.

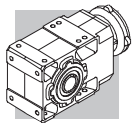
PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(C 31)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
C3	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
C4	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção “PINTURA”), os redutores serão acabados na cor RAL 7042. Os redutores também podem ser fornecidos com proteção de superfície para corrosividade de classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.



PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(C 32)

PINTURA	Cor	número RAL
RAL7042*	Cinza Tráfego A	7042
RAL5010	Azul Genciano	5010
RAL9005	Preto de Jato	9005
RAL9006	Alumínio Branco	9006
RAL9010	Branco Puro	9010

* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

AC - Certificado de Conformidade
O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

CC - Certificado de Inspeção
O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

33.2 Acessórios

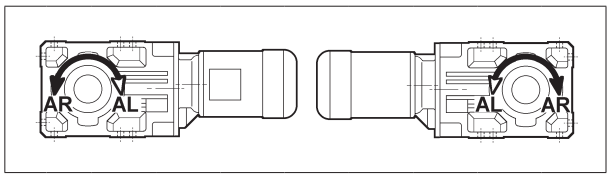
Ver capítulo 45 deste catálogo.

33.3 Opções de motor

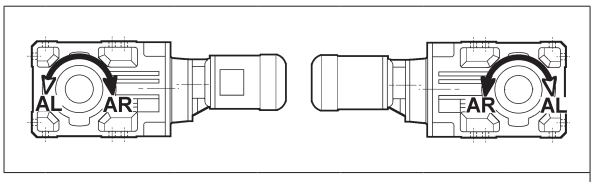
AA, AC, AD
Posição angular da alavanca de liberação do freio em relação à caixa de terminais, olhando pelo lado da ventoinha.
Posição padrão = 90° no sentido horário.
AA = 0°, AC = 180°,
AD = 90° no sentido anti-horário.

AL, AR
A opção contrarrecuo está também disponível para os motores M ou ME e não esta compatível com a presença da mesma opção de reductor. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

(C 33)



2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x	A 60	A 70	A 80	A 90				
4x	A 50	A 55						



2x	A 55					
3x	A 20	A 30	A 35	A 41	A 50	A 55
4x	A 60	A 70	A 80	A 90		

CF
Filtro capacitivo.

D3
3 sensores bimetálicos de temperatura bobinagem, calibrados a 150°C.

E3
3 termistores de temperatura de bobinagem, calibrados a 150°C.

F1
Volante de inércia para partida e parada suaves.

H1
Aquecedores anticondensação. Tensão padrão: 1~ 230V ±10%.

PN
60 Hz de potência correspondente à potência normalizada de 50 Hz.

PS
Extensão de eixo duplo (exceto opções RC e U1).

RC
Tampa de gotejamento (exceto opção PS).

RV
Balanceamento do rotor em vibração classe B.

TC
A opção TC é uma variante de cobertura contra chuva para ambientes da indústria têxtil. Esta opção não é compatível com as variantes EN_ .

TP
Tropicalização.

U1
Refrigeração forçada (exceto opções PS e CUS).

U2
Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

34 LUBRIFICAÇÃO

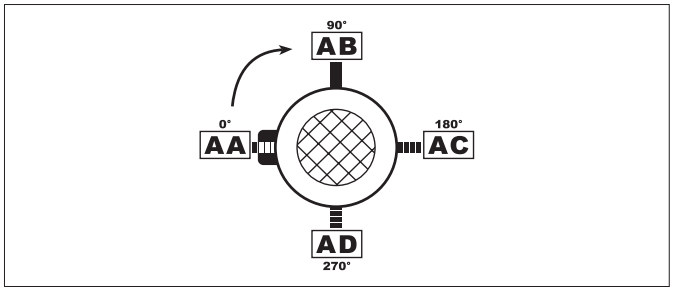
As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrifo. Quadros tamanhos A 05, A 10, A 20, A 30, A 35 e A 41 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo. Salvo especificado de outro modo, unidades tamanho A 50 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto.
Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: www.bonfiglioli.com).
O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor.
A operação dos redutores é permitida a temperaturas ambiente entre -20°C e +40°C. Entretanto, para temperaturas entre -20°C e -10°C, a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga.
A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de -10°C, ou superior.

35 POSIÇÃO DE MONTAGEM E LOCALIZAÇÃO ANGULAR DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

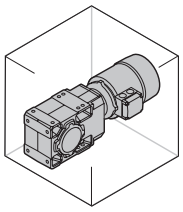
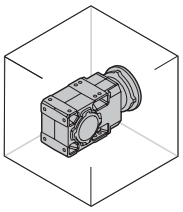
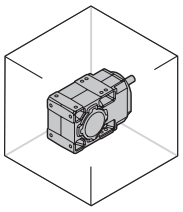
Localização angular da alavanca de liberação do freio.
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de 90° da caixa de terminais. Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.

(C 34)

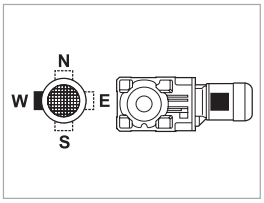


A ...

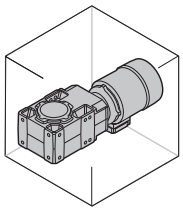
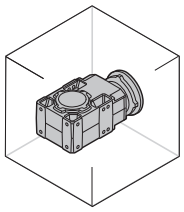
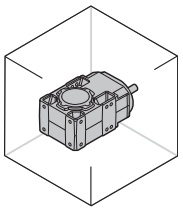
B3

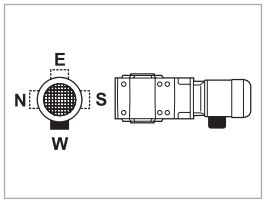
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



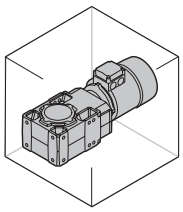
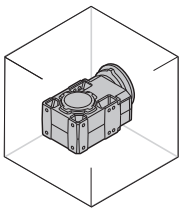
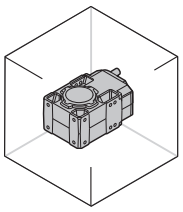
B6

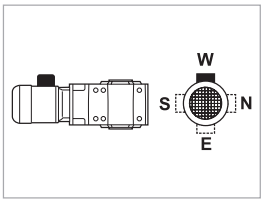
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



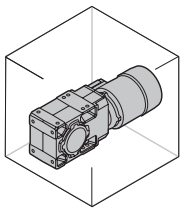
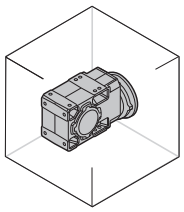
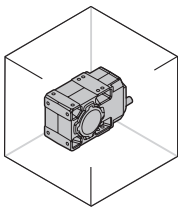
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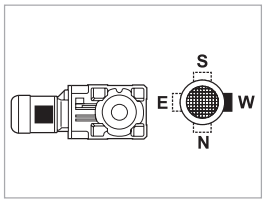
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



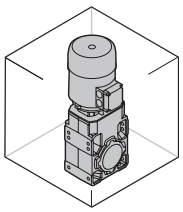
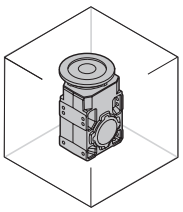
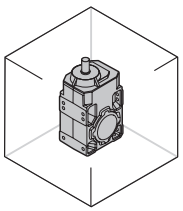
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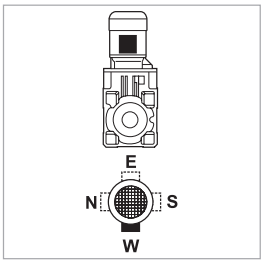
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



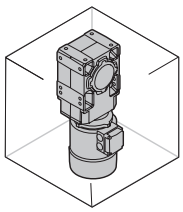
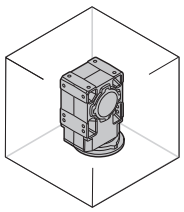
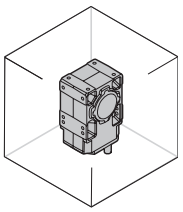
VA

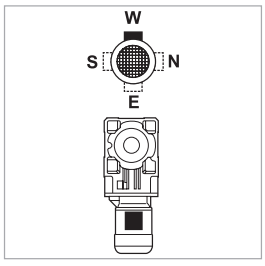
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



VB

_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



W = Default

36 CARGAS RADIAIS

Transmissões externas chavetadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo.
A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo (R_{c1} para o eixo de entrada, R_{c2} para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo (R_{n1} para o eixo de entrada, R_{n2} para o eixo de saída). Capacidade OHL informada na tabela de classificação.
Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.
A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

$$R_{c1}\,[N] = \frac{2000 \cdot M_1[Nm] \cdot K_r}{d\,[mm]} \quad ; \quad R_{c2}\,[N] = \frac{2000 \cdot M_2[Nm] \cdot K_r}{d\,[mm]} \qquad (26)$$

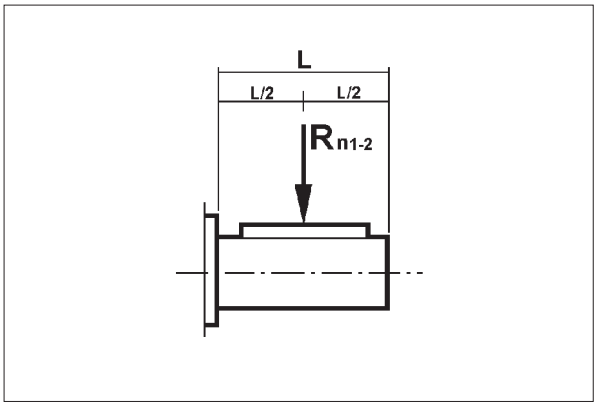
(C 35)

M_1 [Nm]	Torque aplicado ao eixo de entrada
M_2 [Nm]	Torque produzido no eixo de saída
d [mm]	Diâmetro primitivo do elemento chavetado no eixo
K_r = 1	Transmissão por corrente

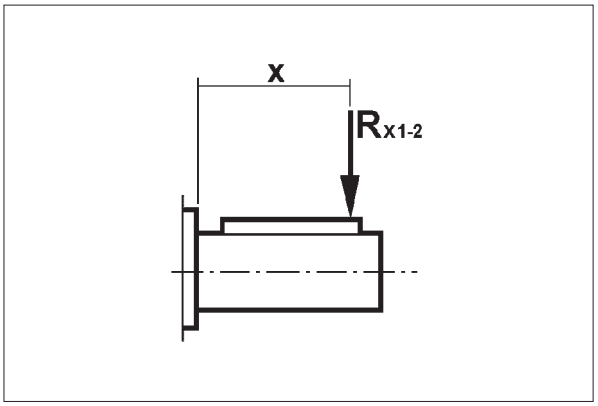
K_r = 1.25	Transmissão por engrenagem
K_r = 1.5	Transmissão por correia tipo V
K_r = 2.0	Transmissão por correia plana

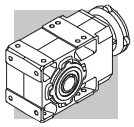
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(C 36)



(C 37)





a) Carga aplicada no ponto médio do eixo, com guia. (C35)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$R_{c1} \leq R_{n1}$ [eixo de entrada]

ou

$R_{c2} \leq R_{n2}$ [eixo de saída]

b) Carga fora da guia de ponto médio (C36)

Quando a carga é deslocada a uma distância "x" do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância.
Cargas radiais permitidas revisadas R_{x1} (entrada) e R_{x2} (saída) são calculadas respectivamente a partir dos valores nominais originais R_{n1} e R_{n2} com o fator:

$$\frac{a}{b+x} \qquad (27)$$

(C 38)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	**b**	**c**	**a**	**b**	**c**
A 05 2	116	86	450	—	—	—
A 10 2	123	101	600	21	1	300
A 20 2	150	120	750	40	20	350
A 20 3	150	120	750	21	1	300
A 30 2	168	138	900	38.5	18.5	350
A 30 3	168	138	900	21	1	300
A 35 2	182.5	147.5	950	38.5	18.5	350
A 35 3	182.5	147.5	950	21	1	300
A 41 2	198	158	1050	49.5	24.5	450
A 41 3	198	158	1050	40	20	350
A 50 2 - A 50 3	242.5	201.5	1300	49.5	24.5	450
A 50 4	242.5	201.5	1300	38.5	18.5	350
A 55 2 - A 55 3	231.5	179	1300	49.5	24.5	450
A 55 4	231.5	179	1300	38.5	18.5	350
A 60 2 - A 60 3	242.5	190	1550	55.5	25.5	600
A 60 4	242.5	190	1550	49.5	24.5	450
A 70 3	295.5	230.5	1900	86	31	1000
A 70 4	295.5	230.5	1900	49.5	24.5	450
A 80 3	345	280	2400	86	31	1000
A 80 4	345	280	2400	49.5	24.5	450
A 90 3	432	327	3000	116	46	1400
A 90 4	432	327	3000	49.5	24.5	450

O procedimento de verificação é descrito abaixo.

EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \quad (28)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (29)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (30)$$

EIXO DE SAÍDA

1. Calcular:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (31)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (32)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (33)$$

37 CARGAS AXIAIS, A_{n1}, A_{n2}

As cargas axiais permitidas nos eixos de entrada [A_{n1}] e de saída [A_{n2}] são obtidas a partir da carga radial do eixo em consideração [R_{n1}] e [R_{n2}] por meio da seguinte equação:

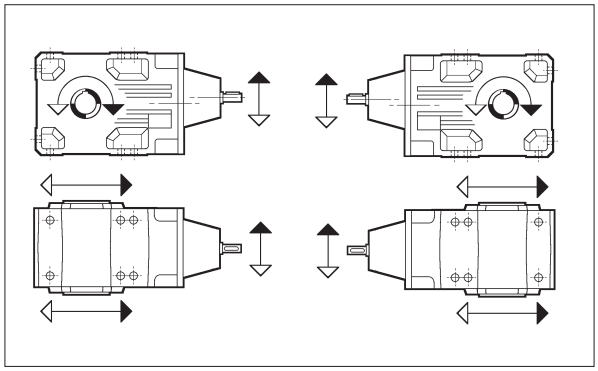
$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \qquad (34)$$

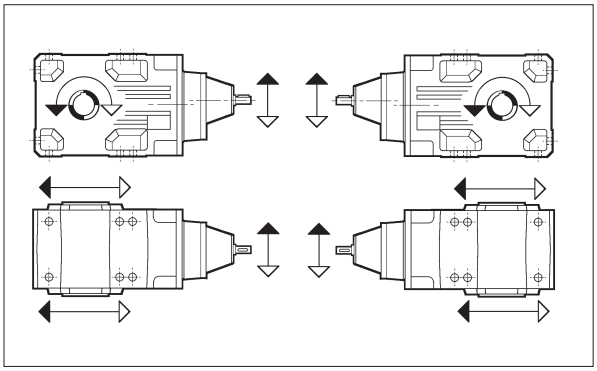
As cargas axiais calculadas com estas fórmulas aplicam-se às cargas axiais ocorridas ao mesmo tempo que as cargas radiais nominais. No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [An] equivale a 50% de OHL nominal [Rn] sobre o mesmo eixo. Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.

38 ARRANJO DE EIXOS

A tabela abaixo mostra os sentidos de rotação padrão dos redutores ortogonais de 2, 3 e 4 estágios.

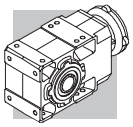
(C 39)





2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x	A 60	A 70	A 80	A 90				
4x	A 50	A 55						

2x	A 55					
3x	A 20	A 30	A 35	A 41	A 50	A 55
4x	A 60	A 70	A 80	A 90		



39 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

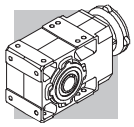
A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos. Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.

0.12 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
4.2	248	1.3	400.8	8794	**A303_400.8 S05 M05A4**	322	**A303_400.8 P63 BN63A4**	320
4.3	243	1.8	393.2	11112	**A353_393.2 S05 M05A4**	332	**A353_393.2 P63 BN63A4**	330
4.4	236	1.0	380.8	5679	**A203_380.8 S05 M05A4**	312	**A203_380.8 P63 BN63A4**	310
4.7	220	1.6	356.3	8794	**A303_356.3 S05 M05A4**	322	**A303_356.3 P63 BN63A4**	320
5.0	210	2.3	339.3	11112	**A353_339.3 S05 M05A4**	332	**A353_339.3 P63 BN63A4**	330
5.1	204	1.1	329.4	5679	**A203_329.4 S05 M05A4**	312	**A203_329.4 P63 BN63A4**	310
5.4	195	1.9	314.6	8794	**A303_314.6 S05 M05A4**	322	**A303_314.6 P63 BN63A4**	320
5.8	181	1.3	292.8	5679	**A203_292.8 S05 M05A4**	312	**A203_292.8 P63 BN63A4**	310
6.2	168	2.1	271.5	8794	**A303_271.5 S05 M05A4**	322	**A303_271.5 P63 BN63A4**	320
6.5	161	1.4	260.5	5679	**A203_260.5 S05 M05A4**	312	**A203_260.5 P63 BN63A4**	310
6.9	151	2.3	244.3	8794	**A303_244.3 S05 M05A4**	322	**A303_244.3 P63 BN63A4**	320
7.6	137	1.7	221.3	5679	**A203_221.3 S05 M05A4**	312	**A203_221.3 P63 BN63A4**	310
7.8	134	2.5	216.6	8794	**A303_216.6 S05 M05A4**	322	**A303_216.6 P63 BN63A4**	320
8.5	123	1.9	199.2	5679	**A203_199.2 S05 M05A4**	312	**A203_199.2 P63 BN63A4**	310
8.5	123	2.6	198.5	8794	**A303_198.5 S05 M05A4**	322	**A303_198.5 P63 BN63A4**	320
9.5	110	2.9	178.5	8794	**A303_178.5 S05 M05A4**	322	**A303_178.5 P63 BN63A4**	320
9.5	110	2.1	178.3	5679	**A203_178.3 S05 M05A4**	312	**A203_178.3 P63 BN63A4**	310
10.3	101	2.2	163.4	5679	**A203_163.4 S05 M05A4**	312	**A203_163.4 P63 BN63A4**	310
11.6	90	2.4	146.1	5679	**A203_146.1 S05 M05A4**	312	**A203_146.1 P63 BN63A4**	310
13.1	80	2.5	129.1	5679	**A203_129.1 S05 M05A4**	312	**A203_129.1 P63 BN63A4**	310
14.0	75	2.6	120.5	5679	**A203_120.5 S05 M05A4**	312	**A203_120.5 P63 BN63A4**	310
15.5	68	2.8	109.2	5679	**A203_109.2 S05 M05A4**	312	**A203_109.2 P63 BN63A4**	310
18.4	59	1.7	91.6	3996	**A052_91.6 S05 M05A4**	295	**A052_91.6 P63 BN63A4**	294
18.4	59	2.2	91.6	4972	**A102_91.6 S05 M05A4**	302	**A102_91.6 P63 BN63A4**	300
22.1	49	2.0	76.4	3824	**A052_76.4 S05 M05A4**	295	**A052_76.4 P63 BN63A4**	294
25.6	42	2.4	65.9	3679	**A052_65.9 S05 M05A4**	295	**A052_65.9 P63 BN63A4**	294
28.8	37	2.7	58.6	3571	**A052_58.6 S05 M05A4**	295	**A052_58.6 P63 BN63A4**	294

0.18 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.1	748	2.7	793.0	27780			**A554_793.0 P63 BN63B4**	360
2.1	734	2.0	778.2	18320			**A504_778.2 P63 BN63B4**	350
2.3	674	2.9	714.7	27780			**A554_714.7 P63 BN63B4**	360
2.4	668	2.2	707.9	18320			**A504_707.9 P63 BN63B4**	350
2.6	596	2.5	631.2	18320			**A504_631.2 P63 BN63B4**	350

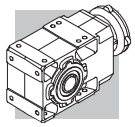


0.18 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.9	542	2.8	574.2	18320			**A504_574.2 P63 BN63B4**	350
4.2	379	1.1	393.2	11112	**A353_393.2 S05 M05B4**	332	**A353_393.2 P63 BN63B4**	330
4.4	363	2.3	376.8	13755	**A413_376.8 S05 M05B4**	342	**A413_376.8 P63 BN63B4**	340
4.7	344	1.0	356.3	8794	**A303_356.3 S05 M05B4**	322	**A303_356.3 P63 BN63B4**	320
4.9	327	1.5	339.3	11112	**A353_339.3 S05 M05B4**	332	**A353_339.3 P63 BN63B4**	330
5.2	313	2.7	324.2	13755	**A413_324.2 S05 M05B4**	342	**A413_324.2 P63 BN63B4**	340
5.3	303	1.2	314.6	8794	**A303_314.6 S05 M05B4**	322	**A303_314.6 P63 BN63B4**	320
5.5	295	2.0	305.4	11112	**A353_305.4 S05 M05B4**	332	**A353_305.4 P63 BN63B4**	330
6.2	262	1.3	271.5	8794	**A303_271.5 S05 M05B4**	322	**A303_271.5 P63 BN63B4**	320
6.2	261	2.2	270.7	11112	**A353_270.7 S05 M05B4**	332	**A353_270.7 P63 BN63B4**	330
6.4	251	0.9	260.5	5679	**A203_260.5 S05 M05B4**	312	**A203_260.5 P63 BN63B4**	310
6.7	239	2.4	248.1	11112	**A353_248.1 S05 M05B4**	332	**A353_248.1 P63 BN63B4**	330
6.8	236	1.5	244.3	8794	**A303_244.3 S05 M05B4**	322	**A303_244.3 P63 BN63B4**	320
7.5	215	2.6	223.2	11112	**A353_223.2 S05 M05B4**	332	**A353_223.2 P63 BN63B4**	330
7.5	213	1.1	221.3	5679	**A203_221.3 S05 M05B4**	312	**A203_221.3 P63 BN63B4**	310
7.7	209	1.6	216.6	8794	**A303_216.6 S05 M05B4**	322	**A303_216.6 P63 BN63B4**	320
8.3	195	2.9	201.8	11112	**A353_201.8 S05 M05B4**	332	**A353_201.8 P63 BN63B4**	330
8.4	192	1.2	199.2	5679	**A203_199.2 S05 M05B4**	312	**A203_199.2 P63 BN63B4**	310
8.4	191	1.7	198.5	8794	**A303_198.5 S05 M05B4**	322	**A303_198.5 P63 BN63B4**	320
9.4	172	1.9	178.5	8794	**A303_178.5 S05 M05B4**	322	**A303_178.5 P63 BN63B4**	320
9.4	172	1.3	178.3	5679	**A203_178.3 S05 M05B4**	312	**A203_178.3 P63 BN63B4**	310
10.2	158	1.4	163.4	5679	**A203_163.4 S05 M05B4**	312	**A203_163.4 P63 BN63B4**	310
10.3	156	2.0	161.4	8794	**A303_161.4 S05 M05B4**	322	**A303_161.4 P63 BN63B4**	320
11.1	145	2.1	150.7	8794	**A303_150.7 S05 M05B4**	322	**A303_150.7 P63 BN63B4**	320
11.4	141	1.5	146.1	5679	**A203_146.1 S05 M05B4**	312	**A203_146.1 P63 BN63B4**	310
12.2	133	2.2	137.4	8794	**A303_137.4 S05 M05B4**	322	**A303_137.4 P63 BN63B4**	320
12.9	125	1.6	129.1	5679	**A203_129.1 S05 M05B4**	312	**A203_129.1 P63 BN63B4**	310
13.9	116	1.7	120.5	5679	**A203_120.5 S05 M05B4**	312	**A203_120.5 P63 BN63B4**	310
13.9	116	2.4	120.5	8794	**A303_120.5 S05 M05B4**	322	**A303_120.5 P63 BN63B4**	320
15.3	105	1.8	109.2	5679	**A203_109.2 S05 M05B4**	312	**A203_109.2 P63 BN63B4**	310
15.3	105	2.6	109.1	8794	**A303_109.1 S05 M05B4**	322	**A303_109.1 P63 BN63B4**	320
18.1	92	2.0	92.3	5679	**A202_92.3 S05 M05B4**	312	**A202_92.3 P63 BN63B4**	310
18.2	91	1.1	91.6	3724	**A052_91.6 S05 M05B4**	295	**A052_91.6 P63 BN63B4**	294
18.2	91	1.4	91.6	4972	**A102_91.6 S05 M05B4**	302	**A102_91.6 P63 BN63B4**	300
20.9	80	2.4	79.9	5679	**A202_79.9 S05 M05B4**	312	**A202_79.9 P63 BN63B4**	310
21.9	76	1.3	76.4	3598	**A052_76.4 S05 M05B4**	295	**A052_76.4 P63 BN63B4**	294
21.9	76	2.0	76.4	4972	**A102_76.4 S05 M05B4**	302	**A102_76.4 P63 BN63B4**	300
23.5	71	2.8	71.0	5679	**A202_71.0 S05 M05B4**	312	**A202_71.0 P63 BN63B4**	310
25.3	66	1.5	65.9	3489	**A052_65.9 S05 M05B4**	295	**A052_65.9 P63 BN63B4**	294
25.3	66	2.3	65.9	4972	**A102_65.9 S05 M05B4**	302	**A102_65.9 P63 BN63B4**	300
28.5	58	1.7	58.6	3399	**A052_58.6 S05 M05B4**	295	**A052_58.6 P63 BN63B4**	294
28.5	58	2.6	58.6	4972	**A102_58.6 S05 M05B4**	302	**A102_58.6 P63 BN63B4**	300
33	51	2.0	51.3	3291	**A052_51.3 S05 M05B4**	295	**A052_51.3 P63 BN63B4**	294
33	51	2.9	51.3	4972	**A102_51.3 S05 M05B4**	302	**A102_51.3 P63 BN63B4**	300
37	45	2.2	45.4	3200	**A052_45.4 S05 M05B4**	295	**A052_45.4 P63 BN63B4**	294
41	41	2.5	40.9	3110	**A052_40.9 S05 M05B4**	295	**A052_40.9 P63 BN63B4**	294
48	35	2.9	35.1	2992	**A052_35.1 S05 M05B4**	295	**A052_35.1 P63 BN63B4**	294

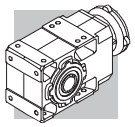
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.0	2137	2.3	1715.0	46350			**A704_1715 P71 BN71A4**	380
1.1	1973	2.5	1583.1	46350			**A704_1583 P71 BN71A4**	380
1.2	1677	3.0	1345.9	46350			**A704_1346 P71 BN71A4**	380
2.1	988	2.0	793.0	27780			**A554_793.0 P71 BN71A4**	360
2.1	970	1.5	778.2	18320			**A504_778.2 P71 BN71A4**	350
2.2	941	3.0	755.4	27810			**A604_755.4 P71 BN71A4**	370
2.3	890	2.2	714.7	27780			**A554_714.7 P71 BN71A4**	360
2.4	882	1.7	707.9	18320			**A504_707.9 P71 BN71A4**	350



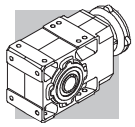
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.5	816	2.4	655.1	27780			**A554_655.1 P71 BN71A4**	360
2.6	787	1.9	631.2	18320			**A504_631.2 P71 BN71A4**	350
2.8	747	2.6	599.5	27780			**A554_599.5 P71 BN71A4**	360
2.9	715	2.1	574.2	18320			**A504_574.2 P71 BN71A4**	350
3.1	675	2.8	542.0	27780			**A554_542.0 P71 BN71A4**	360
3.2	660	2.3	529.5	18320			**A504_529.5 P71 BN71A4**	350
3.5	600	2.5	481.6	18320			**A504_481.6 P71 BN71A4**	350
3.7	557	2.7	446.8	18320			**A504_446.8 P71 BN71A4**	350
4.1	506	3.0	406.4	18320			**A504_406.4 P71 BN71A4**	350
4.4	480	1.8	376.8	13755	**A413_376.8 S05 M05C4**	342	**A413_376.8 P71 BN71A4**	340
4.9	432	1.1	339.3	11112	**A353_339.3 S05 M05C4**	332	**A353_339.3 P71 BN71A4**	330
5.2	413	2.1	324.2	13755	**A413_324.2 S05 M05C4**	342	**A413_324.2 P71 BN71A4**	340
5.3	401	0.9	314.6	8794	**A303_314.6 S05 M05C4**	322	**A303_314.6 P71 BN71A4**	320
5.5	389	1.5	305.4	11112	**A353_305.4 S05 M05C4**	332	**A353_305.4 P71 BN71A4**	330
5.7	372	2.3	291.7	13755	**A413_291.7 S05 M05C4**	342	**A413_291.7 P71 BN71A4**	340
6.2	346	1.0	271.5	8794	**A303_271.5 S05 M05C4**	322	**A303_271.5 P71 BN71A4**	320
6.2	345	1.7	270.7	11112	**A353_270.7 S05 M05C4**	332	**A353_270.7 P71 BN71A4**	330
6.4	334	2.5	262.5	13755	**A413_262.5 S05 M05C4**	342	**A413_262.5 P71 BN71A4**	340
6.7	316	1.8	248.1	11112	**A353_248.1 S05 M05C4**	332	**A353_248.1 P71 BN71A4**	330
6.8	311	1.1	244.3	8794	**A303_244.3 S05 M05C4**	322	**A303_244.3 P71 BN71A4**	320
6.9	307	2.8	240.6	13755	**A413_240.6 S05 M05C4**	342	**A413_240.6 P71 BN71A4**	340
7.5	284	2.0	223.2	11112	**A353_223.2 S05 M05C4**	332	**A353_223.2 P71 BN71A4**	330
7.7	276	1.2	216.6	8794	**A303_216.6 S05 M05C4**	322	**A303_216.6 P71 BN71A4**	320
8.3	257	2.2	201.8	11112	**A353_201.8 S05 M05C4**	332	**A353_201.8 P71 BN71A4**	330
8.4	254	0.9	199.2	5679	**A203_199.2 S05 M05C4**	312	**A203_199.2 P71 BN71A4**	310
8.4	253	1.3	198.5	8794	**A303_198.5 S05 M05C4**	322	**A303_198.5 P71 BN71A4**	320
8.9	240	2.3	188.3	11112	**A353_188.3 S05 M05C4**	332	**A353_188.3 P71 BN71A4**	330
9.4	227	1.4	178.5	8794	**A303_178.5 S05 M05C4**	322	**A303_178.5 P71 BN71A4**	320
9.4	227	1.0	178.3	5679	**A203_178.3 S05 M05C4**	312	**A203_178.3 P71 BN71A4**	310
9.7	219	2.5	171.8	11112	**A353_171.8 S05 M05C4**	332	**A353_171.8 P71 BN71A4**	330
10.2	208	1.0	163.4	5679	**A203_163.4 S05 M05C4**	312	**A203_163.4 P71 BN71A4**	310
10.3	206	1.5	161.4	8794	**A303_161.4 S05 M05C4**	322	**A303_161.4 P71 BN71A4**	320
11.1	192	1.6	150.7	8794	**A303_150.7 S05 M05C4**	322	**A303_150.7 P71 BN71A4**	320
11.1	192	2.9	150.6	11112	**A353_150.6 S05 M05C4**	332	**A353_150.6 P71 BN71A4**	330
11.4	186	1.1	146.1	5679	**A203_146.1 S05 M05C4**	312	**A203_146.1 P71 BN71A4**	310
12.2	175	1.7	137.4	8794	**A303_137.4 S05 M05C4**	322	**A303_137.4 P71 BN71A4**	320
12.9	165	1.2	129.1	5679	**A203_129.1 S05 M05C4**	312	**A203_129.1 P71 BN71A4**	310
13.9	154	1.3	120.5	5679	**A203_120.5 S05 M05C4**	312	**A203_120.5 P71 BN71A4**	310
13.9	153	1.8	120.5	8794	**A303_120.5 S05 M05C4**	322	**A303_120.5 P71 BN71A4**	320
15.3	139	1.4	109.2	5679	**A203_109.2 S05 M05C4**	312	**A203_109.2 P71 BN71A4**	310
15.3	139	2.0	109.1	8794	**A303_109.1 S05 M05C4**	322	**A303_109.1 P71 BN71A4**	320
17.1	128	2.3	97.5	8794			**A302_97.5 P71 BN71A4**	320
18.1	122	1.5	92.3	5679	**A202_92.3 S05 M05C4**	312	**A202_92.3 P71 BN71A4**	310
18.2	121	1.1	91.6	4972	**A102_91.6 S05 M05C4**	302	**A102_91.6 P71 BN71A4**	300
19.3	114	2.8	86.7	8794			**A302_86.7 P71 BN71A4**	320
20.9	105	1.9	79.9	5679	**A202_79.9 S05 M05C4**	312	**A202_79.9 P71 BN71A4**	310
21.9	101	1.0	76.4	3498	**A052_76.4 S05 M05C4**	295		
21.9	101	1.5	76.4	4972	**A102_76.4 S05 M05C4**	302	**A102_76.4 P71 BN71A4**	300
23.5	93	2.1	71.0	5679	**A202_71.0 S05 M05C4**	312	**A202_71.0 P71 BN71A4**	310
25.3	87	1.2	65.9	3390	**A052_65.9 S05 M05C4**	295		
25.3	87	1.7	65.9	4972	**A102_65.9 S05 M05C4**	302	**A102_65.9 P71 BN71A4**	300
26.4	83	2.7	63.1	5679	**A202_63.1 S05 M05C4**	312	**A202_63.1 P71 BN71A4**	310
28.5	77	1.3	58.6	3327	**A052_58.6 S05 M05C4**	295		
28.5	77	1.9	58.6	4972	**A102_58.6 S05 M05C4**	302	**A102_58.6 P71 BN71A4**	300
33	67	1.5	51.3	3119	**A052_51.3 S05 M05C4**	295	**A052_51.3 P71 BN71A4**	294
33	67	2.2	51.3	4972	**A102_51.3 S05 M05C4**	302	**A102_51.3 P71 BN71A4**	300
37	60	1.7	45.4	3046	**A052_45.4 S05 M05C4**	295	**A052_45.4 P71 BN71A4**	294
37	60	2.5	45.4	4972	**A102_45.4 S05 M05C4**	302	**A102_45.4 P71 BN71A4**	300
41	54	1.9	40.9	2974	**A052_40.9 S05 M05C4**	295	**A052_40.9 P71 BN71A4**	294
41	54	2.8	40.9	4972	**A102_40.9 S05 M05C4**	302	**A102_40.9 P71 BN71A4**	300
48	46	2.2	35.1	2875	**A052_35.1 S05 M05C4**	295	**A052_35.1 P71 BN71A4**	294
52	42	2.4	32.2	2820	**A052_32.2 S05 M05C4**	295	**A052_32.2 P71 BN71A4**	294
58	38	2.7	28.6	2739	**A052_28.6 S05 M05C4**	295	**A052_28.6 P71 BN71A4**	294
66	34	3.0	25.5	2658	**A052_25.5 S05 M05C4**	295	**A052_25.5 P71 BN71A4**	294



0.37 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.0	3190	1.6	1715.0	46350	**A704_1715 S1 M1SD4**	382	**A704_1715 P71 BN71B4**	380
1.1	2945	1.7	1583.1	46350	**A704_1583 S1 M1SD4**	382	**A704_1583 P71 BN71B4**	380
1.1	2897	2.8	1557.7	60320	**A804_1558 S1 M1SD4**	390	**A804_1558 P71 BN71B4**	388
1.2	2675	3.0	1437.8	60320	**A804_1438 S1 M1SD4**	390	**A804_1438 P71 BN71B4**	388
1.3	2503	2.0	1345.9	46350	**A704_1346 S1 M1SD4**	382	**A704_1346 P71 BN71B4**	380
1.4	2311	2.2	1242.3	46350	**A704_1242 S1 M1SD4**	382	**A704_1242 P71 BN71B4**	380
1.5	2160	2.3	1161.5	46350	**A704_1161 S1 M1SD4**	382	**A704_1161 P71 BN71B4**	380
1.6	1994	2.5	1072.1	46350	**A704_1072 S1 M1SD4**	382	**A704_1072 P71 BN71B4**	380
1.8	1723	2.9	926.5	46350	**A704_926.5 S1 M1SD4**	382	**A704_926.5 P71 BN71B4**	380
2.1	1475	1.4	793.0	27780	**A554_793.0 S1 M1SD4**	362	**A554_793.0 P71 BN71B4**	360
2.2	1448	1.0	778.2	18320	**A504_778.2 S1 M1SD4**	352	**A504_778.2 P71 BN71B4**	350
2.3	1405	2.0	755.4	27810	**A604_755.4 S1 M1SD4**	372	**A604_755.4 P71 BN71B4**	370
2.4	1329	1.5	714.7	27780	**A554_714.7 S1 M1SD4**	362	**A554_714.7 P71 BN71B4**	360
2.4	1317	1.1	707.9	18320	**A504_707.9 S1 M1SD4**	352	**A504_707.9 P71 BN71B4**	350
2.4	1297	2.2	697.3	27810	**A604_697.3 S1 M1SD4**	372	**A604_697.3 P71 BN71B4**	370
2.6	1219	1.6	655.1	27780	**A554_655.1 S1 M1SD4**	362	**A554_655.1 P71 BN71B4**	360
2.7	1180	2.4	634.6	27810	**A604_634.6 S1 M1SD4**	372	**A604_634.6 P71 BN71B4**	370
2.7	1174	1.3	631.2	18320	**A504_631.2 S1 M1SD4**	352	**A504_631.2 P71 BN71B4**	350
2.8	1115	1.7	599.5	27780	**A554_599.5 S1 M1SD4**	362	**A554_599.5 P71 BN71B4**	360
2.9	1090	2.6	585.8	27810	**A604_585.8 S1 M1SD4**	372	**A604_585.8 P71 BN71B4**	370
3.0	1068	1.4	574.2	18320	**A504_574.2 S1 M1SD4**	352	**A504_574.2 P71 BN71B4**	350
3.1	1008	2.8	542.0	27810	**A604_542.0 S1 M1SD4**	372	**A604_542.0 P71 BN71B4**	370
3.1	1008	1.9	542.0	27780	**A554_542.0 S1 M1SD4**	362	**A554_542.0 P71 BN71B4**	360
3.2	985	1.5	529.5	18320	**A504_529.5 S1 M1SD4**	352	**A504_529.5 P71 BN71B4**	350
3.4	941	2.0	505.9	27780	**A554_505.9 S1 M1SD4**	362	**A554_505.9 P71 BN71B4**	360
3.5	896	1.7	481.6	18320	**A504_481.6 S1 M1SD4**	352	**A504_481.6 P71 BN71B4**	350
3.8	831	1.8	446.8	18320	**A504_446.8 S1 M1SD4**	352	**A504_446.8 P71 BN71B4**	350
4.1	770	2.4	414.0	27780	**A554_414.0 S1 M1SD4**	362	**A554_414.0 P71 BN71B4**	360
4.2	756	2.0	406.4	18320	**A504_406.4 S1 M1SD4**	352	**A504_406.4 P71 BN71B4**	350
4.5	717	1.2	376.8	13755	**A413_376.8 S1 M1SD4**	342	**A413_376.8 P71 BN71B4**	340
4.6	680	2.2	365.6	18320	**A504_365.6 S1 M1SD4**	352	**A504_365.6 P71 BN71B4**	350
5.1	619	2.4	332.6	18320	**A504_332.6 S1 M1SD4**	352	**A504_332.6 P71 BN71B4**	350
5.2	617	1.4	324.2	13755	**A413_324.2 S1 M1SD4**	342	**A413_324.2 P71 BN71B4**	340
5.6	581	1.0	305.4	11112	**A353_305.4 S1 M1SD4**	332	**A353_305.4 P71 BN71B4**	330
5.8	555	1.5	291.7	13755	**A413_291.7 S1 M1SD4**	342	**A413_291.7 P71 BN71B4**	340
5.9	533	2.8	286.8	18320	**A504_286.8 S1 M1SD4**	352	**A504_286.8 P71 BN71B4**	350
6.3	515	1.1	270.7	11112	**A353_270.7 S1 M1SD4**	332	**A353_270.7 P71 BN71B4**	330
6.5	499	1.7	262.5	13755	**A413_262.5 S1 M1SD4**	342	**A413_262.5 P71 BN71B4**	340
6.9	472	1.2	248.1	11112	**A353_248.1 S1 M1SD4**	332	**A353_248.1 P71 BN71B4**	330
7.1	458	1.9	240.6	13755	**A413_240.6 S1 M1SD4**	342	**A413_240.6 P71 BN71B4**	340
7.6	424	1.3	223.2	11112	**A353_223.2 S1 M1SD4**	332	**A353_223.2 P71 BN71B4**	330
7.8	413	2.1	217.4	13755	**A413_217.4 S1 M1SD4**	342	**A413_217.4 P71 BN71B4**	340
8.4	384	1.4	201.8	11112	**A353_201.8 S1 M1SD4**	332	**A353_201.8 P71 BN71B4**	330
8.6	376	2.3	197.5	13755	**A413_197.5 S1 M1SD4**	342	**A413_197.5 P71 BN71B4**	340
9.0	358	1.6	188.3	11112	**A353_188.3 S1 M1SD4**	332	**A353_188.3 P71 BN71B4**	330
9.2	351	2.4	184.4	13755	**A413_184.4 S1 M1SD4**	342	**A413_184.4 P71 BN71B4**	340
9.5	340	0.9	178.5	8061	**A303_178.5 S1 M1SD4**	322	**A303_178.5 P71 BN71B4**	320
9.9	327	1.7	171.8	11112	**A353_171.8 S1 M1SD4**	332	**A353_171.8 P71 BN71B4**	330
10.5	307	1.0	161.4	8381	**A303_161.4 S1 M1SD4**	322	**A303_161.4 P71 BN71B4**	320
11.3	287	1.1	150.7	8794	**A303_150.7 S1 M1SD4**	322	**A303_150.7 P71 BN71B4**	320
11.3	286	1.9	150.6	11112	**A353_150.6 S1 M1SD4**	332	**A353_150.6 P71 BN71B4**	330
12.4	261	1.1	137.4	8794	**A303_137.4 S1 M1SD4**	322	**A303_137.4 P71 BN71B4**	320
12.5	259	2.1	136.3	11112	**A353_136.3 S1 M1SD4**	332	**A353_136.3 P71 BN71B4**	330
14.1	229	1.2	120.5	8794	**A303_120.5 S1 M1SD4**	322	**A303_120.5 P71 BN71B4**	320
14.5	222	2.3	116.9	11112	**A353_116.9 S1 M1SD4**	332	**A353_116.9 P71 BN71B4**	330
15.6	208	0.9	109.2	5175	**A203_109.2 S1 M1SD4**	312	**A203_109.2 P71 BN71B4**	310
15.6	207	1.3	109.1	8794	**A303_109.1 S1 M1SD4**	322	**A303_109.1 P71 BN71B4**	320
16.1	201	2.4	105.5	11112	**A353_105.5 S1 M1SD4**	332	**A353_105.5 P71 BN71B4**	330
17.4	192	1.6	97.5	8794			**A302_97.5 P71 BN71B4**	320
17.8	188	2.9	95.6	11112	**A352_95.6 S1 M1SD4**	332	**A352_95.6 P71 BN71B4**	330
18.4	181	1.0	92.3	5404			**A202_92.3 P71 BN71B4**	310
19.6	170	1.9	86.7	8794			**A302_86.7 P71 BN71B4**	320
21.3	157	1.2	79.9	5679			**A202_79.9 P71 BN71B4**	310
22.2	150	2.3	76.5	8794	**A302_76.5 S1 M1SD4**	322	**A302_76.5 P71 BN71B4**	320
22.2	150	1.0	76.4	4656			**A102_76.4 P71 BN71B4**	300
23.9	139	1.4	71.0	5679			**A202_71.0 P71 BN71B4**	310
25.8	130	1.2	65.9	4800			**A102_65.9 P71 BN71B4**	300
26.9	124	1.8	63.1	5679	**A202_63.1 S1 M1SD4**	312	**A202_63.1 P71 BN71B4**	310
29.0	115	1.3	58.6	4873			**A102_58.6 P71 BN71B4**	300
32	105	2.4	53.7	5578	**A202_53.7 S1 M1SD4**	312	**A202_53.7 P71 BN71B4**	310
33	101	1.0	51.3	2802	**A052_51.3 S1 M1SD4**	295	**A052_51.3 P71 BN71B4**	294

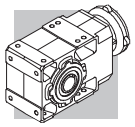


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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
33	101	1.5	51.3	4963	**A102_51.3 S1 M1SD4**	302	**A102_51.3 P71 BN71B4**	300
35	95	2.6	48.3	5441	**A202_48.3 S1 M1SD4**	312	**A202_48.3 P71 BN71B4**	310
37	89	1.1	45.4	2766	**A052_45.4 S1 M1SD4**	295	**A052_45.4 P71 BN71B4**	294
37	89	1.7	45.4	4836	**A102_45.4 S1 M1SD4**	302	**A102_45.4 P71 BN71B4**	300
39	85	2.9	43.2	5294	**A202_43.2 S1 M1SD4**	312	**A202_43.2 P71 BN71B4**	310
42	80	1.2	40.9	2730	**A052_40.9 S1 M1SD4**	295	**A052_40.9 P71 BN71B4**	294
42	80	1.9	40.9	4972	**A102_40.9 S1 M1SD4**	302	**A102_40.9 P71 BN71B4**	300
48	69	1.4	35.1	2667	**A052_35.1 S1 M1SD4**	295	**A052_35.1 P71 BN71B4**	294
48	69	2.2	35.1	4556	**A102_35.1 S1 M1SD4**	302	**A102_35.1 P71 BN71B4**	300
53	63	1.6	32.2	2622	**A052_32.2 S1 M1SD4**	295	**A052_32.2 P71 BN71B4**	294
53	63	2.4	32.2	4972	**A102_32.2 S1 M1SD4**	302	**A102_32.2 P71 BN71B4**	300
60	56	1.8	28.6	2567	**A052_28.6 S1 M1SD4**	295	**A052_28.6 P71 BN71B4**	294
60	56	2.7	28.6	4330	**A102_28.6 S1 M1SD4**	302	**A102_28.6 P71 BN71B4**	300
67	50	2.0	25.5	2504	**A052_25.5 S1 M1SD4**	295	**A052_25.5 P71 BN71B4**	294
67	50	3.0	25.5	4972	**A102_25.5 S1 M1SD4**	302	**A102_25.5 P71 BN71B4**	300
72	47	2.1	23.8	2468	**A052_23.8 S1 M1SD4**	295	**A052_23.8 P71 BN71B4**	294
80	42	2.4	21.4	2414	**A052_21.4 S1 M1SD4**	295	**A052_21.4 P71 BN71B4**	294
92	36	2.6	18.6	2341	**A052_18.6 S1 M1SD4**	295	**A052_18.6 P71 BN71B4**	294
103	32	2.9	16.4	2269	**A052_16.4 S1 M1SD4**	295	**A052_16.4 P71 BN71B4**	294

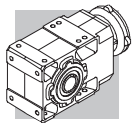
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.0	4762	1.0	1715.0	46350	**A704_1715 S1 M1LA4**	382	**A704_1715 P80 BN80A4**	380
1.1	4396	1.1	1583.1	46350	**A704_1583 S1 M1LA4**	382	**A704_1583 P80 BN80A4**	380
1.1	4325	1.8	1557.7	60320	**A804_1558 S1 M1LA4**	390	**A804_1558 P80 BN80A4**	388
1.2	3993	2.0	1437.8	60320	**A804_1438 S1 M1LA4**	390	**A804_1438 P80 BN80A4**	388
1.3	3737	1.3	1345.9	46350	**A704_1346 S1 M1LA4**	382	**A704_1346 P80 BN80A4**	380
1.3	3721	2.2	1339.9	60320	**A804_1340 S1 M1LA4**	390	**A804_1340 P80 BN80A4**	388
1.4	3450	1.4	1242.3	46350	**A704_1242 S1 M1LA4**	382	**A704_1242 P80 BN80A4**	380
1.4	3435	2.3	1236.9	60320	**A804_1237 S1 M1LA4**	390	**A804_1237 P80 BN80A4**	388
1.5	3225	1.6	1161.5	46350	**A704_1161 S1 M1LA4**	382	**A704_1161 P80 BN80A4**	380
1.6	3013	2.7	1084.9	60320	**A804_1085 S1 M1LA4**	390	**A804_1085 P80 BN80A4**	388
1.6	2977	1.7	1072.1	46350	**A704_1072 S1 M1LA4**	382	**A704_1072 P80 BN80A4**	380
1.7	2781	2.9	1001.4	60320	**A804_1001 S1 M1LA4**	390	**A804_1001 P80 BN80A4**	388
1.8	2573	1.9	926.5	46350	**A704_926.5 S1 M1LA4**	382	**A704_926.5 P80 BN80A4**	380
2.0	2375	2.1	855.3	46350	**A704_855.3 S1 M1LA4**	382	**A704_855.3 P80 BN80A4**	380
2.2	2202	0.9	793.0	27780	**A554_793.0 S1 M1LA4**	362	**A554_793.0 P80 BN80A4**	360
2.2	2121	2.4	763.9	46350	**A704_763.9 S1 M1LA4**	382	**A704_763.9 P80 BN80A4**	380
2.3	2098	1.3	755.4	27810	**A604_755.4 S1 M1LA4**	372	**A604_755.4 P80 BN80A4**	370
2.4	1985	1.0	714.7	27780	**A554_714.7 S1 M1LA4**	362	**A554_714.7 P80 BN80A4**	360
2.4	1958	2.6	705.1	46350	**A704_705.1 S1 M1LA4**	382	**A704_705.1 P80 BN80A4**	380
2.5	1936	1.4	697.3	27810	**A604_697.3 S1 M1LA4**	372	**A604_697.3 P80 BN80A4**	370
2.6	1819	1.1	655.1	27780	**A554_655.1 S1 M1LA4**	362	**A554_655.1 P80 BN80A4**	360
2.7	1790	2.8	644.6	46350	**A704_644.6 S1 M1LA4**	382	**A704_644.6 P80 BN80A4**	380
2.7	1762	1.6	634.6	27810	**A604_634.6 S1 M1LA4**	372	**A604_634.6 P80 BN80A4**	370
2.9	1665	1.2	599.5	27780	**A554_599.5 S1 M1LA4**	362	**A554_599.5 P80 BN80A4**	360
2.9	1627	1.7	585.8	27810	**A604_585.8 S1 M1LA4**	372	**A604_585.8 P80 BN80A4**	370
3.0	1594	0.9	574.2	18320	**A504_574.2 S1 M1LA4**	352	**A504_574.2 P80 BN80A4**	350
3.2	1505	1.9	542.0	27810	**A604_542.0 S1 M1LA4**	372	**A604_542.0 P80 BN80A4**	370
3.2	1505	1.3	542.0	27780	**A554_542.0 S1 M1LA4**	362	**A554_542.0 P80 BN80A4**	360
3.2	1470	1.0	529.5	18320	**A504_529.5 S1 M1LA4**	352	**A504_529.5 P80 BN80A4**	350
3.4	1405	1.4	505.9	27780	**A554_505.9 S1 M1LA4**	362	**A554_505.9 P80 BN80A4**	360
3.4	1389	2.0	500.3	27810	**A604_500.3 S1 M1LA4**	372	**A604_500.3 P80 BN80A4**	370
3.6	1337	1.1	481.6	18320	**A504_481.6 S1 M1LA4**	352	**A504_481.6 P80 BN80A4**	350
3.8	1241	1.2	446.8	18320	**A504_446.8 S1 M1LA4**	352	**A504_446.8 P80 BN80A4**	350
3.9	1217	2.3	438.4	27810	**A604_438.4 S1 M1LA4**	372	**A604_438.4 P80 BN80A4**	370
4.1	1149	1.6	414.0	27780	**A554_414.0 S1 M1LA4**	362	**A554_414.0 P80 BN80A4**	360
4.2	1129	1.3	406.4	18320	**A504_406.4 S1 M1LA4**	352	**A504_406.4 P80 BN80A4**	350
4.2	1124	2.5	404.7	27810	**A604_404.7 S1 M1LA4**	372	**A604_404.7 P80 BN80A4**	370
4.7	1015	1.5	365.6	18320	**A504_365.6 S1 M1LA4**	352	**A504_365.6 P80 BN80A4**	350

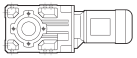


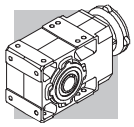
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
4.9	975	2.9	351.2	27810	**A604_351.2 S1 M1LA4**	372	**A604_351.2 P80 BN80A4**	370
5.1	924	1.6	332.6	18320	**A504_332.6 S1 M1LA4**	352	**A504_332.6 P80 BN80A4**	350
5.3	902	2.1	324.7	27780	**A554_324.7 S1 M1LA4**	362	**A554_324.7 P80 BN80A4**	360
5.3	920	0.9	324.2	27810	**A604_324.2 S1 M1LA4**	372	**A604_324.2 P80 BN80A4**	370
5.9	828	1.0	291.7	13755	**A413_291.7 S1 M1LA4**	342	**A413_291.7 P80 BN80A4**	340
6.0	796	1.9	286.8	18320	**A504_286.8 S1 M1LA4**	352	**A504_286.8 P80 BN80A4**	350
6.5	729	2.5	262.6	27780	**A554_262.6 S1 M1LA4**	362	**A554_262.6 P80 BN80A4**	360
6.5	745	1.1	262.5	13755	**A413_262.5 S1 M1LA4**	342	**A413_262.5 P80 BN80A4**	340
6.6	724	2.1	260.9	18320	**A504_260.9 S1 M1LA4**	352	**A504_260.9 P80 BN80A4**	350
7.1	683	1.2	240.6	13755	**A413_240.6 S1 M1LA4**	342	**A413_240.6 P80 BN80A4**	340
7.4	644	2.3	232.0	18320	**A504_232.0 S1 M1LA4**	352	**A504_232.0 P80 BN80A4**	350
7.9	617	1.4	217.4	13755	**A413_217.4 S1 M1LA4**	342	**A413_217.4 P80 BN80A4**	340
8.1	586	2.6	211.0	18320	**A504_211.0 S1 M1LA4**	352	**A504_211.0 P80 BN80A4**	350
8.5	573	1.0	201.8	11112	**A353_201.8 S1 M1LA4**	332	**A353_201.8 P80 BN80A4**	330
8.7	561	1.5	197.5	13755	**A413_197.5 S1 M1LA4**	342	**A413_197.5 P80 BN80A4**	340
9.0	541	2.8	190.6	18320	**A503_190.6 S1 M1LA4**	352	**A503_190.6 P80 BN80A4**	350
9.1	535	1.0	188.3	11112	**A353_188.3 S1 M1LA4**	332	**A353_188.3 P80 BN80A4**	330
9.3	523	1.6	184.4	13755	**A413_184.4 S1 M1LA4**	342	**A413_184.4 P80 BN80A4**	340
10.0	488	1.1	171.8	11112	**A353_171.8 S1 M1LA4**	332	**A353_171.8 P80 BN80A4**	330
11.4	428	1.3	150.6	11112	**A353_150.6 S1 M1LA4**	332	**A353_150.6 P80 BN80A4**	330
11.6	417	2.0	146.9	13755	**A413_146.9 S1 M1LA4**	342	**A413_146.9 P80 BN80A4**	340
12.5	387	1.4	136.3	11112	**A353_136.3 S1 M1LA4**	332	**A353_136.3 P80 BN80A4**	330
14.6	332	1.6	116.9	11112	**A353_116.9 S1 M1LA4**	332	**A353_116.9 P80 BN80A4**	330
14.8	329	2.4	115.9	13755	**A413_115.9 S1 M1LA4**	342	**A413_115.9 P80 BN80A4**	340
16.2	300	1.6	105.5	11112	**A353_105.5 S1 M1LA4**	332	**A353_105.5 P80 BN80A4**	330
17.5	286	1.0	97.5	8794			**A302_97.5 P80 BN80A4**	320
17.9	281	1.9	95.6	11112	**A352_95.6 S1 M1LA4**	332	**A352_95.6 P80 BN80A4**	330
18.4	263	2.8	92.8	13755	**A413_92.8 S1 M1LA4**	342	**A413_92.8 P80 BN80A4**	340
19.7	254	1.3	86.7	8629			**A302_86.7 P80 BN80A4**	320
20.7	242	2.5	82.5	11112	**A352_82.5 S1 M1LA4**	332	**A352_82.5 P80 BN80A4**	330
22.3	224	1.6	76.5	8409	**A302_76.5 S1 M1LA4**	322	**A302_76.5 P80 BN80A4**	320
23.0	218	2.8	74.3	11112	**A352_74.3 S1 M1LA4**	332	**A352_74.3 P80 BN80A4**	330
24.1	208	0.9	71.0	5166			**A202_71.0 P80 BN80A4**	310
25.9	194	2.0	66.0	8134	**A302_66.0 S1 M1LA4**	322	**A302_66.0 P80 BN80A4**	320
27.1	185	1.2	63.1	5349	**A202_63.1 S1 M1LA4**	312	**A202_63.1 P80 BN80A4**	310
28.8	174	2.3	59.4	7933	**A302_59.4 S1 M1LA4**	322	**A302_59.4 P80 BN80A4**	320
32	157	1.6	53.7	5194	**A202_53.7 S1 M1LA4**	312	**A202_53.7 P80 BN80A4**	310
32	154	2.7	52.7	7704	**A302_52.7 S1 M1LA4**	322	**A302_52.7 P80 BN80A4**	320
33	150	1.0	51.3	4402	**A102_51.3 S1 M1LA4**	302	**A102_51.3 P80 BN80A4**	300
35	142	1.8	48.3	5093	**A202_48.3 S1 M1LA4**	312	**A202_48.3 P80 BN80A4**	310
35	142	2.9	48.3	7539	**A302_48.3 S1 M1LA4**	322	**A302_48.3 P80 BN80A4**	320
38	133	1.1	45.4	4439	**A102_45.4 S1 M1LA4**	302	**A102_45.4 P80 BN80A4**	300
40	127	2.0	43.2	4983	**A202_43.2 S1 M1LA4**	312	**A202_43.2 P80 BN80A4**	310
42	120	1.3	40.9	4972	**A102_40.9 S1 M1LA4**	302	**A102_40.9 P80 BN80A4**	300
43	116	2.2	39.6	4891	**A202_39.6 S1 M1LA4**	312	**A202_39.6 P80 BN80A4**	310
48	104	2.4	35.4	4763	**A202_35.4 S1 M1LA4**	312	**A202_35.4 P80 BN80A4**	310
49	103	1.0	35.1	2396	**A052_35.1 S1 M1LA4**	295	**A052_35.1 P80 BN80A4**	294
49	103	1.5	35.1	4249	**A102_35.1 S1 M1LA4**	302	**A102_35.1 P80 BN80A4**	300
53	94	1.1	32.2	2441	**A052_32.2 S1 M1LA4**	295	**A052_32.2 P80 BN80A4**	294
53	94	1.6	32.2	4963	**A102_32.2 S1 M1LA4**	302	**A102_32.2 P80 BN80A4**	300
55	92	2.7	31.3	4635	**A202_31.3 S1 M1LA4**	312	**A202_31.3 P80 BN80A4**	310
59	86	2.9	29.2	4553	**A202_29.2 S1 M1LA4**	312	**A202_29.2 P80 BN80A4**	310
60	84	1.2	28.6	2305	**A052_28.6 S1 M1LA4**	295	**A052_28.6 P80 BN80A4**	294
60	84	1.8	28.6	4077	**A102_28.6 S1 M1LA4**	302	**A102_28.6 P80 BN80A4**	300
67	75	1.3	25.5	2269	**A052_25.5 S1 M1LA4**	295	**A052_25.5 P80 BN80A4**	294
67	75	2.0	25.5	4728	**A102_25.5 S1 M1LA4**	302	**A102_25.5 P80 BN80A4**	300
72	70	1.4	23.8	2251	**A052_23.8 S1 M1LA4**	295	**A052_23.8 P80 BN80A4**	294
72	70	2.2	23.8	3914	**A102_23.8 S1 M1LA4**	302	**A102_23.8 P80 BN80A4**	300
80	63	1.6	21.4	2215	**A052_21.4 S1 M1LA4**	295	**A052_21.4 P80 BN80A4**	294
80	63	2.4	21.4	4538	**A102_21.4 S1 M1LA4**	302	**A102_21.4 P80 BN80A4**	300
92	54	1.7	18.6	2170	**A052_18.6 S1 M1LA4**	295	**A052_18.6 P80 BN80A4**	294
92	54	2.7	18.6	3697	**A102_18.6 S1 M1LA4**	302	**A102_18.6 P80 BN80A4**	300
104	48	1.9	16.4	2115	**A052_16.4 S1 M1LA4**	295	**A052_16.4 P80 BN80A4**	294
104	48	2.9	16.4	4258	**A102_16.4 S1 M1LA4**	302	**A102_16.4 P80 BN80A4**	300
123	41	2.3	13.9	2052	**A052_13.9 S1 M1LA4**	295	**A052_13.9 P80 BN80A4**	294
139	36	2.8	12.3	2007	**A052_12.3 S1 M1LA4**	295	**A052_12.3 P80 BN80A4**	294
162	31	3.0	10.6	1926	**A052_10.6 S1 M1LA4**	295	**A052_10.6 P80 BN80A4**	294



0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
1.1	5956	2.4	1632.3	69675	**A904_1632 S2 ME2SB4**	398	**A904_1632 P80 BE80B4**	396
1.1	5684	1.4	1557.7	60320	**A804_1558 S2 ME2SB4**	390	**A804_1558 P80 BE80B4**	388
1.2	5498	2.5	1506.8	69675	**A904_1507 S2 ME2SB4**	398	**A904_1507 P80 BE80B4**	396
1.2	5247	1.5	1437.8	60320	**A804_1438 S2 ME2SB4**	390	**A804_1438 P80 BE80B4**	388
1.3	4911	1.0	1345.9	46350	**A704_1346 S2 ME2SB4**	382	**A704_1346 P80 BE80B4**	380
1.3	4889	1.6	1339.9	60320	**A804_1340 S2 ME2SB4**	390	**A804_1340 P80 BE80B4**	388
1.3	4831	2.9	1324.0	69675	**A904_1324 S2 ME2SB4**	398	**A904_1324 P80 BE80B4**	396
1.4	4533	1.1	1242.3	46350	**A704_1242 S2 ME2SB4**	382	**A704_1242 P80 BE80B4**	380
1.4	4513	1.8	1236.9	60320	**A804_1237 S2 ME2SB4**	390	**A804_1237 P80 BE80B4**	388
1.5	4238	1.2	1161.5	46350	**A704_1161 S2 ME2SB4**	382	**A704_1161 P80 BE80B4**	380
1.6	3959	2.0	1084.9	60320	**A804_1085 S2 ME2SB4**	390	**A804_1085 P80 BE80B4**	388
1.6	3912	1.3	1072.1	46350	**A704_1072 S2 ME2SB4**	382	**A704_1072 P80 BE80B4**	380
1.7	3654	2.2	1001.4	60320	**A804_1001 S2 ME2SB4**	390	**A804_1001 P80 BE80B4**	388
1.9	3381	1.5	926.5	46350	**A704_926.5 S2 ME2SB4**	382	**A704_926.5 P80 BE80B4**	380
1.9	3279	2.4	898.7	60320	**A804_898.7 S2 ME2SB4**	390	**A804_898.7 P80 BE80B4**	388
2.0	3121	1.6	855.3	46350	**A704_855.3 S2 ME2SB4**	382	**A704_855.3 P80 BE80B4**	380
2.1	3027	2.6	829.5	60320	**A804_829.5 S2 ME2SB4**	390	**A804_829.5 P80 BE80B4**	388
2.3	2787	1.8	763.9	46350	**A704_763.9 S2 ME2SB4**	382	**A704_763.9 P80 BE80B4**	380
2.3	2781	2.9	762.1	60320	**A804_762.1 S2 ME2SB4**	390	**A804_762.1 P80 BE80B4**	388
2.3	2756	1.0	755.4	27810	**A604_755.4 S2 ME2SB4**	372	**A604_755.4 P80 BE80B4**	370
2.5	2573	1.9	705.1	46350	**A704_705.1 S2 ME2SB4**	382	**A704_705.1 P80 BE80B4**	380
2.5	2544	1.1	697.3	27810	**A604_697.3 S2 ME2SB4**	372	**A604_697.3 P80 BE80B4**	370
2.7	2352	2.1	644.6	46350	**A704_644.6 S2 ME2SB4**	382	**A704_644.6 P80 BE80B4**	380
2.7	2316	1.2	634.6	27810	**A604_634.6 S2 ME2SB4**	372	**A604_634.6 P80 BE80B4**	370
2.9	2171	2.3	595.0	46350	**A704_595.0 S2 ME2SB4**	382	**A704_595.0 P80 BE80B4**	380
3.0	2137	1.3	585.8	27810	**A604_585.8 S2 ME2SB4**	372	**A604_585.8 P80 BE80B4**	370
3.2	1978	1.4	542.0	27810	**A604_542.0 S2 ME2SB4**	372	**A604_542.0 P80 BE80B4**	370
3.2	1978	1.0	542.0	27780	**A554_542.0 S2 ME2SB4**	362	**A554_542.0 P80 BE80B4**	360
3.4	1881	2.7	515.4	46350	**A704_515.4 S2 ME2SB4**	382	**A704_515.4 P80 BE80B4**	380
3.4	1846	1.0	505.9	27780	**A554_505.9 S2 ME2SB4**	362	**A554_505.9 P80 BE80B4**	360
3.5	1826	1.5	500.3	27810	**A604_500.3 S2 ME2SB4**	372	**A604_500.3 P80 BE80B4**	370
3.7	1736	2.9	475.8	46350	**A704_475.8 S2 ME2SB4**	382	**A704_475.8 P80 BE80B4**	380
3.9	1630	0.9	446.8	18320	**A504_446.8 S2 ME2SB4**	352	**A504_446.8 P80 BE80B4**	350
4.0	1600	1.8	438.4	27810	**A604_438.4 S2 ME2SB4**	372	**A604_438.4 P80 BE80B4**	370
4.2	1511	1.2	414.0	27780	**A554_414.0 S2 ME2SB4**	362	**A554_414.0 P80 BE80B4**	360
4.3	1483	1.0	406.4	18320	**A504_406.4 S2 ME2SB4**	352	**A504_406.4 P80 BE80B4**	350
4.3	1477	1.9	404.7	27810	**A604_404.7 S2 ME2SB4**	372	**A604_404.7 P80 BE80B4**	370
4.8	1334	1.1	365.6	18320	**A504_365.6 S2 ME2SB4**	352	**A504_365.6 P80 BE80B4**	350
5.0	1282	2.2	351.2	27810	**A604_351.2 S2 ME2SB4**	372	**A604_351.2 P80 BE80B4**	370
5.2	1214	1.2	332.6	18320	**A504_332.6 S2 ME2SB4**	352	**A504_332.6 P80 BE80B4**	350
5.4	1185	1.6	324.7	27780	**A554_324.7 S2 ME2SB4**	362	**A554_324.7 P80 BE80B4**	360
5.4	1183	2.4	324.2	27810	**A604_324.2 S2 ME2SB4**	372	**A604_324.2 P80 BE80B4**	370
6.1	1047	1.4	286.8	18320	**A504_286.8 S2 ME2SB4**	352	**A504_286.8 P80 BE80B4**	350
6.1	1045	2.7	286.3	27810	**A604_286.3 S2 ME2SB4**	372	**A604_286.3 P80 BE80B4**	370
6.6	964	2.9	264.3	27810	**A604_264.3 S2 ME2SB4**	372	**A604_264.3 P80 BE80B4**	370
6.6	958	1.9	262.6	27780	**A554_262.6 S2 ME2SB4**	362	**A554_262.6 P80 BE80B4**	360
6.7	952	1.6	260.9	18320	**A504_260.9 S2 ME2SB4**	352	**A504_260.9 P80 BE80B4**	350
7.3	898	0.9	240.6	13755	**A413_240.6 S2 ME2SB4**	342	**A413_240.6 P80 BE80B4**	340
7.5	847	1.8	232.0	18320	**A504_232.0 S2 ME2SB4**	352	**A504_232.0 P80 BE80B4**	350
8.0	811	1.0	217.4	13755	**A413_217.4 S2 ME2SB4**	342	**A413_217.4 P80 BE80B4**	340
8.3	770	1.9	211.0	18320	**A504_211.0 S2 ME2SB4**	352	**A504_211.0 P80 BE80B4**	350
8.4	759	2.4	208.1	27780	**A554_208.1 S2 ME2SB4**	362	**A554_208.1 P80 BE80B4**	360
8.8	737	1.2	197.5	13755	**A413_197.5 S2 ME2SB4**	342	**A413_197.5 P80 BE80B4**	340
9.0	725	2.8	194.2	27780	**A553_194.2 S2 ME2SB4**	362	**A553_194.2 P80 BE80B4**	360
9.2	711	2.1	190.6	18320	**A503_190.6 S2 ME2SB4**	352	**A503_190.6 P80 BE80B4**	350
9.5	688	1.2	184.4	13755	**A413_184.4 S2 ME2SB4**	342	**A413_184.4 P80 BE80B4**	340
10.1	647	2.3	173.4	18320	**A503_173.4 S2 ME2SB4**	352	**A503_173.4 P80 BE80B4**	350
11.3	577	2.6	154.6	18320	**A503_154.6 S2 ME2SB4**	352	**A503_154.6 P80 BE80B4**	350
11.6	562	1.0	150.6	11112	**A353_150.6 S2 ME2SB4**	332	**A353_150.6 P80 BE80B4**	330
11.9	548	1.6	146.9	13755	**A413_146.9 S2 ME2SB4**	342	**A413_146.9 P80 BE80B4**	340
12.4	525	2.9	140.6	18320	**A503_140.6 S2 ME2SB4**	352	**A503_140.6 P80 BE80B4**	350
12.8	509	1.0	136.3	11112	**A353_136.3 S2 ME2SB4**	332	**A353_136.3 P80 BE80B4**	330
14.9	436	1.2	116.9	11112	**A353_116.9 S2 ME2SB4**	332	**A353_116.9 P80 BE80B4**	330
15.1	432	1.9	115.9	13755	**A413_115.9 S2 ME2SB4**	342	**A413_115.9 P80 BE80B4**	340
16.5	394	1.2	105.5	11112	**A353_105.5 S2 ME2SB4**	332	**A353_105.5 P80 BE80B4**	330

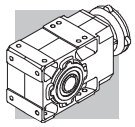


0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
18.2	369	1.5	95.6	11112	**A352_95.6 S2 ME2SB4**	332	**A352_95.6 P80 BE80B4**	330
18.8	346	2.1	92.8	13755	**A413_92.8 S2 ME2SB4**	342	**A413_92.8 P80 BE80B4**	340
20.1	334	1.0	86.7	7969	**A302_86.7 S2 ME2SB4**	322	**A302_86.7 P80 BE80B4**	320
21.1	318	1.9	82.5	11112	**A352_82.5 S2 ME2SB4**	332	**A352_82.5 P80 BE80B4**	330
22.0	305	2.6	79.2	13755	**A412_79.2 S2 ME2SB4**	342	**A412_79.2 P80 BE80B4**	340
22.8	295	1.2	76.5	7859	**A302_76.5 S2 ME2SB4**	322	**A302_76.5 P80 BE80B4**	320
23.5	286	2.1	74.3	11112	**A352_74.3 S2 ME2SB4**	332	**A352_74.3 P80 BE80B4**	330
24.5	275	2.9	71.3	13755	**A412_71.3 S2 ME2SB4**	342	**A412_71.3 P80 BE80B4**	340
26.4	254	1.5	66.0	7658	**A302_66.0 S2 ME2SB4**	322	**A302_66.0 P80 BE80B4**	320
26.5	254	2.4	65.8	11112	**A352_65.8 S2 ME2SB4**	332	**A352_65.8 P80 BE80B4**	330
27.6	243	0.9	63.1	4717	**A202_63.1 S2 ME2SB4**	312	**A202_63.1 P80 BE80B4**	310
28.9	233	2.6	60.4	11112	**A352_60.4 S2 ME2SB4**	332	**A352_60.4 P80 BE80B4**	330
29.4	229	1.7	59.4	7502	**A302_59.4 S2 ME2SB4**	322	**A302_59.4 P80 BE80B4**	320
32	209	2.9	54.3	11112	**A352_54.3 S2 ME2SB4**	332	**A352_54.3 P80 BE80B4**	330
33	207	1.2	53.7	4772	**A202_53.7 S2 ME2SB4**	312	**A202_53.7 P80 BE80B4**	310
33	203	2.0	52.7	7319	**A302_52.7 S2 ME2SB4**	322	**A302_52.7 P80 BE80B4**	320
36	186	1.3	48.3	4708	**A202_48.3 S2 ME2SB4**	312	**A202_48.3 P80 BE80B4**	310
36	186	2.2	48.3	7181	**A302_48.3 S2 ME2SB4**	322	**A302_48.3 P80 BE80B4**	320
40	167	2.4	43.4	7017	**A302_43.4 S2 ME2SB4**	322	**A302_43.4 P80 BE80B4**	320
40	167	1.5	43.2	4635	**A202_43.2 S2 ME2SB4**	312	**A202_43.2 P80 BE80B4**	310
43	157	1.0	40.9	3996	**A102_40.9 S2 ME2SB4**	302	**A102_40.9 P80 BE80B4**	300
44	153	1.6	39.6	4571	**A202_39.6 S2 ME2SB4**	312	**A202_39.6 P80 BE80B4**	310
44	151	2.7	39.3	6852	**A302_39.3 S2 ME2SB4**	322	**A302_39.3 P80 BE80B4**	320
48	141	2.9	36.6	6742	**A302_36.6 S2 ME2SB4**	322	**A302_36.6 P80 BE80B4**	320
49	137	1.8	35.4	4479	**A202_35.4 S2 ME2SB4**	312	**A202_35.4 P80 BE80B4**	310
50	135	1.1	35.1	3905	**A102_35.1 S2 ME2SB4**	302	**A102_35.1 P80 BE80B4**	300
54	124	1.2	32.2	4592	**A102_32.2 S2 ME2SB4**	302	**A102_32.2 P80 BE80B4**	300
56	121	2.1	31.3	4378	**A202_31.3 S2 ME2SB4**	312	**A202_31.3 P80 BE80B4**	310
60	113	2.2	29.2	4314	**A202_29.2 S2 ME2SB4**	312	**A202_29.2 P80 BE80B4**	310
61	110	0.9	28.6	2097	**A052_28.6 S2 ME2SB4**	295	**A052_28.6 P80 BE80B4**	294
61	110	1.4	28.6	3797	**A102_28.6 S2 ME2SB4**	302	**A102_28.6 P80 BE80B4**	300
66	102	2.4	26.5	4232	**A202_26.5 S2 ME2SB4**	312	**A202_26.5 P80 BE80B4**	310
69	98	1.0	25.5	2124	**A052_25.5 S2 ME2SB4**	295	**A052_25.5 P80 BE80B4**	294
69	98	1.5	25.5	4430	**A102_25.5 S2 ME2SB4**	302	**A102_25.5 P80 BE80B4**	300
73	92	1.1	23.8	1989	**A052_23.8 S2 ME2SB4**	295	**A052_23.8 P80 BE80B4**	294
73	92	1.6	23.8	3679	**A102_23.8 S2 ME2SB4**	302	**A102_23.8 P80 BE80B4**	300
76	89	2.6	23.1	4104	**A202_23.1 S2 ME2SB4**	312	**A202_23.1 P80 BE80B4**	310
82	82	1.2	21.4	1998	**A052_21.4 S2 ME2SB4**	295	**A052_21.4 P80 BE80B4**	294
82	82	1.8	21.4	4285	**A102_21.4 S2 ME2SB4**	302	**A102_21.4 P80 BE80B4**	300
82	82	2.8	21.2	4021	**A202_21.2 S2 ME2SB4**	312	**A202_21.2 P80 BE80B4**	310
94	72	1.3	18.6	1980	**A052_18.6 S2 ME2SB4**	295	**A052_18.6 P80 BE80B4**	294
94	72	2.1	18.6	3508	**A102_18.6 S2 ME2SB4**	302	**A102_18.6 P80 BE80B4**	300
106	63	1.5	16.4	1953	**A052_16.4 S2 ME2SB4**	295	**A052_16.4 P80 BE80B4**	294
106	63	2.2	16.4	4059	**A102_16.4 S2 ME2SB4**	302	**A102_16.4 P80 BE80B4**	300
125	54	1.7	13.9	1907	**A052_13.9 S2 ME2SB4**	295	**A052_13.9 P80 BE80B4**	294
125	54	2.6	13.9	3291	**A102_13.9 S2 ME2SB4**	302	**A102_13.9 P80 BE80B4**	300
142	47	2.1	12.3	1880	**A052_12.3 S2 ME2SB4**	295	**A052_12.3 P80 BE80B4**	294
142	47	2.7	12.3	3191	**A102_12.3 S2 ME2SB4**	302	**A102_12.3 P80 BE80B4**	300
165	41	2.3	10.6	1817	**A052_10.6 S2 ME2SB4**	295	**A052_10.6 P80 BE80B4**	294
181	37	2.6	9.6	1799	**A052_9.6 S2 ME2SB4**	295	**A052_9.6 P80 BE80B4**	294
205	33	2.8	8.5	1754	**A052_8.5 S2 ME2SB4**	295	**A052_8.5 P80 BE80B4**	294

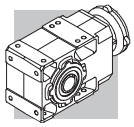
1.1 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.1	8717	1.6	1632.3	69675	**A904_1632 S3 ME3SA4**	398	**A904_1632 P90 BE90S4**	396
1.1	8318	1.0	1557.7	60320	**A804_1558 S3 ME3SA4**	390	**A804_1558 P90 BE90S4**	388



1.1 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.2	8046	1.7	1506.8	69675	**A904_1507 S3 ME3SA4**	398	**A904_1507 P90 BE90S4**	396
1.2	7678	1.0	1437.8	60320	**A804_1438 S3 ME3SA4**	390	**A804_1438 P90 BE90S4**	388
1.3	7155	1.1	1339.9	60320	**A804_1340 S3 ME3SA4**	390	**A804_1340 P90 BE90S4**	388
1.3	7070	2.0	1324.0	69675	**A904_1324 S3 ME3SA4**	398	**A904_1324 P90 BE90S4**	396
1.4	6605	1.2	1236.9	60320	**A804_1237 S3 ME3SA4**	390	**A804_1237 P90 BE90S4**	388
1.4	6526	2.1	1222.2	69675	**A904_1222 S3 ME3SA4**	398	**A904_1222 P90 BE90S4**	396
1.6	5931	2.4	1110.6	69675	**A904_1111 S3 ME3SA4**	398	**A904_1111 P90 BE90S4**	396
1.6	5793	1.4	1084.9	60320	**A804_1085 S3 ME3SA4**	390	**A804_1085 P90 BE90S4**	388
1.7	5474	2.6	1025.2	69675	**A904_1025 S3 ME3SA4**	398	**A904_1025 P90 BE90S4**	396
1.7	5348	1.5	1001.4	60320	**A804_1001 S3 ME3SA4**	390	**A804_1001 P90 BE90S4**	388
1.9	5005	2.8	937.2	69675	**A904_937.2 S3 ME3SA4**	398	**A904_937.2 P90 BE90S4**	396
1.9	4948	1.0	926.5	46350	**A704_926.5 S3 ME3SA4**	382	**A704_926.5 P90 BE90S4**	380
1.9	4799	1.7	898.7	60320	**A804_898.7 S3 ME3SA4**	390	**A804_898.7 P90 BE90S4**	388
2.0	4567	1.1	855.3	46350	**A704_855.3 S3 ME3SA4**	382	**A704_855.3 P90 BE90S4**	380
2.1	4430	1.8	829.5	60320	**A804_829.5 S3 ME3SA4**	390	**A804_829.5 P90 BE90S4**	388
2.3	4079	1.2	763.9	46350	**A704_763.9 S3 ME3SA4**	382	**A704_763.9 P90 BE90S4**	380
2.3	4070	2.0	762.1	60320	**A804_762.1 S3 ME3SA4**	390	**A804_762.1 P90 BE90S4**	388
2.5	3765	1.3	705.1	46350	**A704_705.1 S3 ME3SA4**	382	**A704_705.1 P90 BE90S4**	380
2.5	3756	2.1	703.5	60320	**A804_703.5 S3 ME3SA4**	390	**A804_703.5 P90 BE90S4**	388
2.7	3442	1.5	644.6	46350	**A704_644.6 S3 ME3SA4**	382	**A704_644.6 P90 BE90S4**	380
2.9	3242	2.5	607.2	60320	**A804_607.2 S3 ME3SA4**	390	**A804_607.2 P90 BE90S4**	388
2.9	3177	1.6	595.0	46350	**A704_595.0 S3 ME3SA4**	382	**A704_595.0 P90 BE90S4**	380
3.1	2993	2.7	560.5	60320	**A804_560.5 S3 ME3SA4**	390	**A804_560.5 P90 BE90S4**	388
3.2	2894	1.0	542.0	27810	**A604_542.0 S3 ME3SA4**	372	**A604_542.0 P90 BE90S4**	370
3.4	2752	1.8	515.4	46350	**A704_515.4 S3 ME3SA4**	382	**A704_515.4 P90 BE90S4**	380
3.5	2672	1.0	500.3	27810	**A604_500.3 S3 ME3SA4**	372	**A604_500.3 P90 BE90S4**	370
3.7	2541	2.0	475.8	46350	**A704_475.8 S3 ME3SA4**	382	**A704_475.8 P90 BE90S4**	380
4.0	2341	1.2	438.4	27810	**A604_438.4 S3 ME3SA4**	372	**A604_438.4 P90 BE90S4**	370
4.3	2161	1.3	404.7	27810	**A604_404.7 S3 ME3SA4**	372	**A604_404.7 P90 BE90S4**	370
4.3	2137	2.3	400.2	46350	**A704_400.2 S3 ME3SA4**	382	**A704_400.2 P90 BE90S4**	380
4.7	1973	2.5	369.4	46350	**A704_369.4 S3 ME3SA4**	382	**A704_369.4 P90 BE90S4**	380
5.0	1875	1.5	351.2	27810	**A604_351.2 S3 ME3SA4**	372	**A604_351.2 P90 BE90S4**	370
5.4	1734	1.1	324.7	27780	**A554_324.7 S3 ME3SA4**	362	**A554_324.7 P90 BE90S4**	360
5.4	1731	1.6	324.2	27810	**A604_324.2 S3 ME3SA4**	372	**A604_324.2 P90 BE90S4**	370
5.5	1689	3.0	316.4	46350	**A704_316.4 S3 ME3SA4**	382	**A704_316.4 P90 BE90S4**	380
6.1	1532	1.0	286.8	18320	**A504_286.8 S3 ME3SA4**	352	**A504_286.8 P90 BE90S4**	350
6.1	1529	1.8	286.3	27810	**A604_286.3 S3 ME3SA4**	372	**A604_286.3 P90 BE90S4**	370
6.6	1411	2.0	264.3	27810	**A604_264.3 S3 ME3SA4**	372	**A604_264.3 P90 BE90S4**	370
6.6	1403	1.3	262.6	27780	**A554_262.6 S3 ME3SA4**	362	**A554_262.6 P90 BE90S4**	360
6.7	1393	1.1	260.9	18320	**A504_260.9 S3 ME3SA4**	352	**A504_260.9 P90 BE90S4**	350
7.5	1239	1.2	232.0	18320	**A504_232.0 S3 ME3SA4**	352	**A504_232.0 P90 BE90S4**	350
7.7	1208	2.3	226.1	27810	**A604_226.1 S3 ME3SA4**	372	**A604_226.1 P90 BE90S4**	370
8.2	1127	1.3	211.0	18320	**A504_211.0 S3 ME3SA4**	352	**A504_211.0 P90 BE90S4**	350
8.3	1115	2.5	208.7	27810	**A604_208.7 S3 ME3SA4**	372	**A604_208.7 P90 BE90S4**	370
8.4	1111	1.6	208.1	27780	**A554_208.1 S3 ME3SA4**	362	**A554_208.1 P90 BE90S4**	360
9.0	1060	1.9	194.2	27780	**A553_194.2 S3 ME3SA4**	362	**A553_194.2 P90 BE90S4**	360
9.1	1041	1.4	190.6	18320	**A503_190.6 S3 ME3SA4**	352	**A503_190.6 P90 BE90S4**	350
9.4	1014	2.8	185.8	27810	**A603_185.8 S3 ME3SA4**	372	**A603_185.8 P90 BE90S4**	370
9.9	956	2.1	175.0	27780	**A553_175.0 S3 ME3SA4**	362	**A553_175.0 P90 BE90S4**	360
10.0	947	1.6	173.4	18320	**A503_173.4 S3 ME3SA4**	352	**A503_173.4 P90 BE90S4**	350
10.1	936	3.0	171.5	27810	**A603_171.5 S3 ME3SA4**	372	**A603_171.5 P90 BE90S4**	370
10.8	876	2.3	160.4	27780	**A553_160.4 S3 ME3SA4**	362	**A553_160.4 P90 BE90S4**	360
11.3	844	1.8	154.6	18320	**A503_154.6 S3 ME3SA4**	352	**A503_154.6 P90 BE90S4**	350
11.8	802	1.1	146.9	13755	**A413_146.9 S3 ME3SA4**	342	**A413_146.9 P90 BE90S4**	340
11.9	802	2.5	146.8	27780	**A553_146.8 S3 ME3SA4**	362	**A553_146.8 P90 BE90S4**	360
12.4	768	2.0	140.6	18320	**A503_140.6 S3 ME3SA4**	352	**A503_140.6 P90 BE90S4**	350
13.1	725	2.8	132.7	27780	**A553_132.7 S3 ME3SA4**	362	**A553_132.7 P90 BE90S4**	360
13.4	708	2.1	129.7	18320	**A503_129.7 S3 ME3SA4**	352	**A503_129.7 P90 BE90S4**	350
14.0	676	3.0	123.9	27780	**A553_123.9 S3 ME3SA4**	362	**A553_123.9 P90 BE90S4**	360
14.8	644	2.3	118.0	18320	**A503_118.0 S3 ME3SA4**	352	**A503_118.0 P90 BE90S4**	350
15.0	633	1.3	115.9	13755	**A413_115.9 S3 ME3SA4**	342	**A413_115.9 P90 BE90S4**	340
15.9	597	2.5	109.4	18320	**A503_109.4 S3 ME3SA4**	352	**A503_109.4 P90 BE90S4**	350
17.5	543	2.8	99.5	18320	**A503_99.5 S3 ME3SA4**	352	**A503_99.5 P90 BE90S4**	350
18.2	539	1.0	95.6	11112	**A352_95.6 S3 ME3SA4**	332	**A352_95.6 P90 BE90S4**	330
18.8	507	1.5	92.8	13755	**A413_92.8 S3 ME3SA4**	342	**A413_92.8 P90 BE90S4**	340

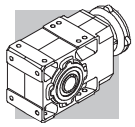


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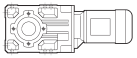
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
21.1	466	1.3	82.5	11112	**A352_82.5 S3 ME3SA4**	332	**A352_82.5 P90 BE90S4**	330
22.0	447	1.8	79.2	13755	**A412_79.2 S3 ME3SA4**	342	**A412_79.2 P90 BE90S4**	340
23.4	419	1.4	74.3	11112	**A352_74.3 S3 ME3SA4**	332	**A352_74.3 P90 BE90S4**	330
24.4	402	2.0	71.3	13755	**A412_71.3 S3 ME3SA4**	342	**A412_71.3 P90 BE90S4**	340
26.4	372	1.0	66.0	6760	**A302_66.0 S3 ME3SA4**	322	**A302_66.0 P90 BE90S4**	320
26.4	371	1.6	65.8	11112	**A352_65.8 S3 ME3SA4**	332	**A352_65.8 P90 BE90S4**	330
27.1	362	2.2	64.2	13755	**A412_64.2 S3 ME3SA4**	342	**A412_64.2 P90 BE90S4**	340
28.8	340	1.8	60.4	11112	**A352_60.4 S3 ME3SA4**	332	**A352_60.4 P90 BE90S4**	330
29.3	335	1.2	59.4	6797	**A302_59.4 S3 ME3SA4**	322	**A302_59.4 P90 BE90S4**	320
29.6	332	2.4	58.8	13755	**A412_58.8 S3 ME3SA4**	342	**A412_58.8 P90 BE90S4**	340
32	306	2.0	54.3	11112	**A352_54.3 S3 ME3SA4**	332	**A352_54.3 P90 BE90S4**	330
33	300	2.6	53.1	13755	**A412_53.1 S3 ME3SA4**	342	**A412_53.1 P90 BE90S4**	340
33	297	1.4	52.7	6696	**A302_52.7 S3 ME3SA4**	322	**A302_52.7 P90 BE90S4**	320
35	277	2.2	49.1	10927	**A352_49.1 S3 ME3SA4**	332	**A352_49.1 P90 BE90S4**	330
36	272	0.9	48.3	4186	**A202_48.3 S3 ME3SA4**	312	**A202_48.3 P90 BE90S4**	310
36	272	1.5	48.3	6614	**A302_48.3 S3 ME3SA4**	322	**A302_48.3 P90 BE90S4**	320
36	272	2.9	48.3	13755	**A412_48.3 S3 ME3SA4**	342	**A412_48.3 P90 BE90S4**	340
38	258	2.3	45.8	10834	**A352_45.8 S3 ME3SA4**	332	**A352_45.8 P90 BE90S4**	330
40	245	1.7	43.4	6504	**A302_43.4 S3 ME3SA4**	322	**A302_43.4 P90 BE90S4**	320
40	244	1.0	43.2	4076	**A202_43.2 S3 ME3SA4**	312	**A202_43.2 P90 BE90S4**	310
42	236	2.5	41.8	10556	**A352_41.8 S3 ME3SA4**	332	**A352_41.8 P90 BE90S4**	330
44	223	1.1	39.6	4122	**A202_39.6 S3 ME3SA4**	312	**A202_39.6 P90 BE90S4**	310
44	221	1.9	39.3	6385	**A302_39.3 S3 ME3SA4**	322	**A302_39.3 P90 BE90S4**	320
47	207	2.0	36.6	6302	**A302_36.6 S3 ME3SA4**	322	**A302_36.6 P90 BE90S4**	320
48	207	2.9	36.6	10279	**A352_36.6 S3 ME3SA4**	332	**A352_36.6 P90 BE90S4**	330
49	200	1.3	35.4	4012	**A202_35.4 S3 ME3SA4**	312	**A202_35.4 P90 BE90S4**	310
52	189	2.1	33.4	6192	**A302_33.4 S3 ME3SA4**	322	**A302_33.4 P90 BE90S4**	320
56	177	1.4	31.3	3957	**A202_31.3 S3 ME3SA4**	312	**A202_31.3 P90 BE90S4**	310
59	165	2.3	29.3	6027	**A302_29.3 S3 ME3SA4**	322	**A302_29.3 P90 BE90S4**	320
60	165	1.5	29.2	3930	**A202_29.2 S3 ME3SA4**	312	**A202_29.2 P90 BE90S4**	310
61	161	0.9	28.6	3372	**A102_28.6 S3 ME3SA4**	302	**A102_28.6 P90 BE90S4**	300
66	150	2.5	26.5	5899	**A302_26.5 S3 ME3SA4**	322	**A302_26.5 P90 BE90S4**	320
66	149	1.6	26.5	3875	**A202_26.5 S3 ME3SA4**	312	**A202_26.5 P90 BE90S4**	310
68	144	1.0	25.5	3272	**A102_25.5 S3 ME3SA4**	302	**A102_25.5 P90 BE90S4**	300
73	134	1.1	23.8	3291	**A102_23.8 S3 ME3SA4**	302	**A102_23.8 P90 BE90S4**	300
75	130	1.8	23.1	3792	**A202_23.1 S3 ME3SA4**	312	**A202_23.1 P90 BE90S4**	310
76	128	3.0	22.8	5698	**A302_22.8 S3 ME3SA4**	322	**A302_22.8 P90 BE90S4**	320
81	120	1.2	21.4	3869	**A102_21.4 S3 ME3SA4**	302	**A102_21.4 P90 BE90S4**	300
82	120	1.9	21.2	3737	**A202_21.2 S3 ME3SA4**	312	**A202_21.2 P90 BE90S4**	310
94	105	1.4	18.6	3200	**A102_18.6 S3 ME3SA4**	302	**A102_18.6 P90 BE90S4**	300
96	102	2.3	18.1	3637	**A202_18.1 S3 ME3SA4**	312	**A202_18.1 P90 BE90S4**	310
106	93	1.5	16.4	3734	**A102_16.4 S3 ME3SA4**	302	**A102_16.4 P90 BE90S4**	300
108	91	2.5	16.2	3554	**A202_16.2 S3 ME3SA4**	312	**A202_16.2 P90 BE90S4**	310
124	79	2.9	14.1	3453	**A202_14.1 S3 ME3SA4**	312	**A202_14.1 P90 BE90S4**	310
125	79	1.8	13.9	3056	**A102_13.9 S3 ME3SA4**	302	**A102_13.9 P90 BE90S4**	300
141	69	1.9	12.3	2983	**A102_12.3 S3 ME3SA4**	302	**A102_12.3 P90 BE90S4**	300
145	67	2.9	12.0	3316	**A202_12.0 S3 ME3SA4**	312	**A202_12.0 P90 BE90S4**	310
165	60	2.3	10.6	2902	**A102_10.6 S3 ME3SA4**	302	**A102_10.6 P90 BE90S4**	300
181	54	2.4	9.6	2839	**A102_9.6 S3 ME3SA4**	302	**A102_9.6 P90 BE90S4**	300
204	48	2.7	8.5	3282	**A102_8.5 S3 ME3SA4**	302	**A102_8.5 P90 BE90S4**	300

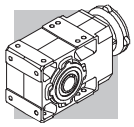
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.1	11913	1.2	1632.3	69675	**A904_1632 S3 ME3SB4**	398	**A904_1632 P90 BE90LA4**	396
1.2	10996	1.3	1506.8	69675	**A904_1507 S3 ME3SB4**	398	**A904_1507 P90 BE90LA4**	396
1.3	9663	1.4	1324.0	69675	**A904_1324 S3 ME3SB4**	398	**A904_1324 P90 BE90LA4**	396
1.4	8919	1.6	1222.2	69675	**A904_1222 S3 ME3SB4**	398	**A904_1222 P90 BE90LA4**	396
1.6	8105	1.7	1110.6	69675	**A904_1111 S3 ME3SB4**	398	**A904_1111 P90 BE90LA4**	396



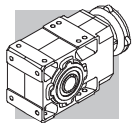
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n_2 rpm	M_2 Nm	S	i	R_{n2} N				
1.6	7917	1.0	1084.9	60320	**A804_1085 S3 ME3SB4**	390	**A804_1085 P90 BE90LA4**	388
1.7	7482	1.9	1025.2	69675	**A904_1025 S3 ME3SB4**	398	**A904_1025 P90 BE90LA4**	396
1.7	7308	1.1	1001.4	60320	**A804_1001 S3 ME3SB4**	390	**A804_1001 P90 BE90LA4**	388
1.9	6840	2.0	937.2	69675	**A904_937.2 S3 ME3SB4**	398	**A904_937.2 P90 BE90LA4**	396
1.9	6558	1.2	898.7	60320	**A804_898.7 S3 ME3SB4**	390	**A804_898.7 P90 BE90LA4**	388
2.0	6313	2.2	865.1	69675	**A904_865.1 S3 ME3SB4**	398	**A904_865.1 P90 BE90LA4**	396
2.1	6054	1.3	829.5	60320	**A804_829.5 S3 ME3SB4**	390	**A804_829.5 P90 BE90LA4**	388
2.3	5597	2.5	766.9	69675	**A904_766.9 S3 ME3SB4**	398	**A904_766.9 P90 BE90LA4**	396
2.3	5562	1.4	762.1	60320	**A804_762.1 S3 ME3SB4**	390	**A804_762.1 P90 BE90LA4**	388
2.5	5166	2.7	707.9	69675	**A904_707.9 S3 ME3SB4**	398	**A904_707.9 P90 BE90LA4**	396
2.5	5146	1.0	705.1	46350	**A704_705.1 S3 ME3SB4**	382	**A704_705.1 P90 BE90LA4**	380
2.5	5134	1.6	703.5	60320	**A804_703.5 S3 ME3SB4**	390	**A804_703.5 P90 BE90LA4**	388
2.7	4704	1.1	644.6	46350	**A704_644.6 S3 ME3SB4**	382	**A704_644.6 P90 BE90LA4**	380
2.9	4431	1.8	607.2	60320	**A804_607.2 S3 ME3SB4**	390	**A804_607.2 P90 BE90LA4**	388
2.9	4343	1.2	595.0	46350	**A704_595.0 S3 ME3SB4**	382	**A704_595.0 P90 BE90LA4**	380
3.1	4090	2.0	560.5	60320	**A804_560.5 S3 ME3SB4**	390	**A804_560.5 P90 BE90LA4**	388
3.4	3761	1.3	515.4	46350	**A704_515.4 S3 ME3SB4**	382	**A704_515.4 P90 BE90LA4**	380
3.6	3495	2.3	478.9	60320	**A804_478.9 S3 ME3SB4**	390	**A804_478.9 P90 BE90LA4**	388
3.7	3472	1.4	475.8	46350	**A704_475.8 S3 ME3SB4**	382	**A704_475.8 P90 BE90LA4**	380
3.9	3226	2.5	442.1	60320	**A804_442.1 S3 ME3SB4**	390	**A804_442.1 P90 BE90LA4**	388
4.3	2953	0.9	404.7	27810	**A604_404.7 S3 ME3SB4**	372	**A604_404.7 P90 BE90LA4**	370
4.3	2920	1.7	400.2	46350	**A704_400.2 S3 ME3SB4**	382	**A704_400.2 P90 BE90LA4**	380
4.5	2799	2.9	383.5	60320	**A804_383.5 S3 ME3SB4**	390	**A804_383.5 P90 BE90LA4**	388
4.7	2696	1.9	369.4	46350	**A704_369.4 S3 ME3SB4**	382	**A704_369.4 P90 BE90LA4**	380
5.0	2563	1.1	351.2	27810	**A604_351.2 S3 ME3SB4**	372	**A604_351.2 P90 BE90LA4**	370
5.4	2366	1.2	324.2	27810	**A604_324.2 S3 ME3SB4**	372	**A604_324.2 P90 BE90LA4**	370
5.5	2309	2.2	316.4	46350	**A704_316.4 S3 ME3SB4**	382	**A704_316.4 P90 BE90LA4**	380
6.0	2131	2.3	292.0	46350	**A704_292.0 S3 ME3SB4**	382	**A704_292.0 P90 BE90LA4**	380
6.1	2090	1.3	286.3	27810	**A604_286.3 S3 ME3SB4**	372	**A604_286.3 P90 BE90LA4**	370
6.6	1929	1.5	264.3	27810	**A604_264.3 S3 ME3SB4**	372	**A604_264.3 P90 BE90LA4**	370
6.6	1917	1.0	262.6	27780	**A554_262.6 S3 ME3SB4**	362	**A554_262.6 P90 BE90LA4**	360
7.3	1741	2.9	238.6	46350	**A704_238.6 S3 ME3SB4**	382	**A704_238.6 P90 BE90LA4**	380
7.7	1650	1.7	226.1	27810	**A604_226.1 S3 ME3SB4**	372	**A604_226.1 P90 BE90LA4**	370
8.2	1540	1.0	211.0	18320	**A504_211.0 S3 ME3SB4**	352	**A504_211.0 P90 BE90LA4**	350
8.3	1523	1.8	208.7	27810	**A604_208.7 S3 ME3SB4**	372	**A604_208.7 P90 BE90LA4**	370
8.4	1518	1.2	208.1	27780	**A554_208.1 S3 ME3SB4**	362	**A554_208.1 P90 BE90LA4**	360
9.0	1449	1.4	194.2	27780	**A553_194.2 S3 ME3SB4**	362	**A553_194.2 P90 BE90LA4**	360
9.1	1422	1.1	190.6	18320	**A503_190.6 S3 ME3SB4**	352	**A503_190.6 P90 BE90LA4**	350
9.4	1386	2.0	185.8	27810	**A603_185.8 S3 ME3SB4**	372	**A603_185.8 P90 BE90LA4**	370
9.9	1306	1.5	175.0	27780	**A553_175.0 S3 ME3SB4**	362	**A553_175.0 P90 BE90LA4**	360
10.0	1294	1.2	173.4	18320	**A503_173.4 S3 ME3SB4**	352	**A503_173.4 P90 BE90LA4**	350
10.1	1279	2.2	171.5	27810	**A603_171.5 S3 ME3SB4**	372	**A603_171.5 P90 BE90LA4**	370
10.8	1197	1.7	160.4	27780	**A553_160.4 S3 ME3SB4**	362	**A553_160.4 P90 BE90LA4**	360
11.2	1164	2.4	156.0	27810	**A603_156.0 S3 ME3SB4**	372	**A603_156.0 P90 BE90LA4**	370
11.3	1154	1.3	154.6	18320	**A503_154.6 S3 ME3SB4**	352	**A503_154.6 P90 BE90LA4**	350
11.9	1095	1.8	146.8	27780	**A553_146.8 S3 ME3SB4**	362	**A553_146.8 P90 BE90LA4**	360
12.1	1075	2.6	144.0	27810	**A603_144.0 S3 ME3SB4**	372	**A603_144.0 P90 BE90LA4**	370
12.4	1049	1.4	140.6	18320	**A503_140.6 S3 ME3SB4**	352	**A503_140.6 P90 BE90LA4**	350
13.1	995	2.8	133.3	27810	**A603_133.3 S3 ME3SB4**	372	**A603_133.3 P90 BE90LA4**	370
13.1	990	2.0	132.7	27780	**A553_132.7 S3 ME3SB4**	362	**A553_132.7 P90 BE90LA4**	360
13.4	968	1.6	129.7	18320	**A503_129.7 S3 ME3SB4**	352	**A503_129.7 P90 BE90LA4**	350
14.0	924	2.2	123.9	27780	**A553_123.9 S3 ME3SB4**	362	**A553_123.9 P90 BE90LA4**	360
14.8	880	1.7	118.0	18320	**A503_118.0 S3 ME3SB4**	352	**A503_118.0 P90 BE90LA4**	350
15.0	865	0.9	115.9	13755	**A413_115.9 S3 ME3SB4**	342	**A413_115.9 P90 BE90LA4**	340
15.9	817	1.8	109.4	18320	**A503_109.4 S3 ME3SB4**	352	**A503_109.4 P90 BE90LA4**	350
17.2	756	2.6	101.4	27780	**A553_101.4 S3 ME3SB4**	362	**A553_101.4 P90 BE90LA4**	360
17.5	743	2.0	99.5	18320	**A503_99.5 S3 ME3SB4**	352	**A503_99.5 P90 BE90LA4**	350
18.8	692	1.1	92.8	13755	**A413_92.8 S3 ME3SB4**	342	**A413_92.8 P90 BE90LA4**	340
19.4	668	2.2	89.5	18320	**A503_89.5 S3 ME3SB4**	352	**A503_89.5 P90 BE90LA4**	350



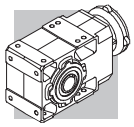
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
21.1	636	0.9	82.5	10140	**A352_82.5 S3 ME3SB4**	332	**A352_82.5 P90 BE90LA4**	330
21.4	608	2.5	81.5	18320	**A503_81.5 S3 ME3SB4**	352	**A503_81.5 P90 BE90LA4**	350
22.0	611	1.3	79.2	13755	**A412_79.2 S3 ME3SB4**	342	**A412_79.2 P90 BE90LA4**	340
23.4	573	1.0	74.3	10325	**A352_74.3 S3 ME3SB4**	332	**A352_74.3 P90 BE90LA4**	330
24.4	550	1.4	71.3	13755	**A412_71.3 S3 ME3SB4**	342	**A412_71.3 P90 BE90LA4**	340
24.8	524	2.9	70.2	18320	**A503_70.2 S3 ME3SB4**	352	**A503_70.2 P90 BE90LA4**	350
26.4	508	1.2	65.8	10742	**A352_65.8 S3 ME3SB4**	332	**A352_65.8 P90 BE90LA4**	330
27.1	495	1.6	64.2	13755	**A412_64.2 S3 ME3SB4**	342	**A412_64.2 P90 BE90LA4**	340
28.8	465	1.3	60.4	10649	**A352_60.4 S3 ME3SB4**	332	**A352_60.4 P90 BE90LA4**	330
29.6	453	1.7	58.8	13755	**A412_58.8 S3 ME3SB4**	342	**A412_58.8 P90 BE90LA4**	340
32	418	1.4	54.3	10464	**A352_54.3 S3 ME3SB4**	332	**A352_54.3 P90 BE90LA4**	330
33	410	1.9	53.1	13755	**A412_53.1 S3 ME3SB4**	342	**A412_53.1 P90 BE90LA4**	340
33	406	1.0	52.7	6027	**A302_52.7 S3 ME3SB4**	322	**A302_52.7 P90 BE90LA4**	320
35	378	1.6	49.1	10279	**A352_49.1 S3 ME3SB4**	332	**A352_49.1 P90 BE90LA4**	330
36	372	1.1	48.3	6119	**A302_48.3 S3 ME3SB4**	322	**A302_48.3 P90 BE90LA4**	320
36	372	2.1	48.3	13663	**A412_48.3 S3 ME3SB4**	342	**A412_48.3 P90 BE90LA4**	340
38	353	1.7	45.8	10186	**A352_45.8 S3 ME3SB4**	332	**A352_45.8 P90 BE90LA4**	330
39	347	2.2	45.1	13388	**A412_45.1 S3 ME3SB4**	342	**A412_45.1 P90 BE90LA4**	340
40	335	1.2	43.4	5908	**A302_43.4 S3 ME3SB4**	322	**A302_43.4 P90 BE90LA4**	320
42	322	1.9	41.8	10001	**A352_41.8 S3 ME3SB4**	332	**A352_41.8 P90 BE90LA4**	330
44	303	1.4	39.3	5844	**A302_39.3 S3 ME3SB4**	322	**A302_39.3 P90 BE90LA4**	320
47	282	1.4	36.6	5798	**A302_36.6 S3 ME3SB4**	322	**A302_36.6 P90 BE90LA4**	320
48	282	2.1	36.6	9723	**A352_36.6 S3 ME3SB4**	332	**A352_36.6 P90 BE90LA4**	330
48	277	2.6	35.9	12655	**A412_35.9 S3 ME3SB4**	342	**A412_35.9 P90 BE90LA4**	340
49	273	0.9	35.4	3646	**A202_35.4 S3 ME3SB4**	312	**A202_35.4 P90 BE90LA4**	310
52	258	1.5	33.4	5734	**A302_33.4 S3 ME3SB4**	322	**A302_33.4 P90 BE90LA4**	320
52	256	2.3	33.2	9538	**A352_33.2 S3 ME3SB4**	332	**A352_33.2 P90 BE90LA4**	330
56	241	1.0	31.3	3517	**A202_31.3 S3 ME3SB4**	312	**A202_31.3 P90 BE90LA4**	310
59	226	1.7	29.3	5624	**A302_29.3 S3 ME3SB4**	322	**A302_29.3 P90 BE90LA4**	320
60	225	1.1	29.2	3499	**A202_29.2 S3 ME3SB4**	312	**A202_29.2 P90 BE90LA4**	310
61	219	2.7	28.4	9204	**A352_28.4 S3 ME3SB4**	332	**A352_28.4 P90 BE90LA4**	330
66	204	1.9	26.5	5533	**A302_26.5 S3 ME3SB4**	322	**A302_26.5 P90 BE90LA4**	320
66	204	1.2	26.5	3472	**A202_26.5 S3 ME3SB4**	312	**A202_26.5 P90 BE90LA4**	310
68	198	3.0	25.7	8991	**A352_25.7 S3 ME3SB4**	332	**A352_25.7 P90 BE90LA4**	330
75	178	1.3	23.1	3444	**A202_23.1 S3 ME3SB4**	312	**A202_23.1 P90 BE90LA4**	310
76	175	2.2	22.8	5377	**A302_22.8 S3 ME3SB4**	322	**A302_22.8 P90 BE90LA4**	320
81	165	0.9	21.4	2956	**A102_21.4 S3 ME3SB4**	302	**A102_21.4 P90 BE90LA4**	300
82	164	1.4	21.2	3417	**A202_21.2 S3 ME3SB4**	312	**A202_21.2 P90 BE90LA4**	310
85	158	2.4	20.5	5276	**A302_20.5 S3 ME3SB4**	322	**A302_20.5 P90 BE90LA4**	320
94	143	1.0	18.6	2848	**A102_18.6 S3 ME3SB4**	302	**A102_18.6 P90 BE90LA4**	300
96	140	1.7	18.1	3353	**A202_18.1 S3 ME3SB4**	312	**A202_18.1 P90 BE90LA4**	310
97	139	2.7	18.0	5130	**A302_18.0 S3 ME3SB4**	322	**A302_18.0 P90 BE90LA4**	320
106	127	1.1	16.4	3363	**A102_16.4 S3 ME3SB4**	302	**A102_16.4 P90 BE90LA4**	300
106	126	2.8	16.3	5020	**A302_16.3 S3 ME3SB4**	322	**A302_16.3 P90 BE90LA4**	320
108	125	1.9	16.2	3298	**A202_16.2 S3 ME3SB4**	312	**A202_16.2 P90 BE90LA4**	310
124	108	2.1	14.1	3233	**A202_14.1 S3 ME3SB4**	312	**A202_14.1 P90 BE90LA4**	310
125	107	1.3	13.9	2793	**A102_13.9 S3 ME3SB4**	302	**A102_13.9 P90 BE90LA4**	300
141	95	1.4	12.3	2748	**A102_12.3 S3 ME3SB4**	302	**A102_12.3 P90 BE90LA4**	300
145	92	2.1	12.0	3133	**A202_12.0 S3 ME3SB4**	312	**A202_12.0 P90 BE90LA4**	310
165	81	1.7	10.6	2703	**A102_10.6 S3 ME3SB4**	302	**A102_10.6 P90 BE90LA4**	300
168	80	2.6	10.3	3050	**A202_10.3 S3 ME3SB4**	312	**A202_10.3 P90 BE90LA4**	310
181	74	1.7	9.6	2658	**A102_9.6 S3 ME3SB4**	302	**A102_9.6 P90 BE90LA4**	300
186	72	2.7	9.4	2977	**A202_9.4 S3 ME3SB4**	312	**A202_9.4 P90 BE90LA4**	310
204	66	2.0	8.5	3092	**A102_8.5 S3 ME3SB4**	302	**A102_8.5 P90 BE90LA4**	300
241	56	2.3	7.2	2522	**A102_7.2 S3 ME3SB4**	302	**A102_7.2 P90 BE90LA4**	300
275	49	2.6	6.3	2911	**A102_6.3 S3 ME3SB4**	302	**A102_6.3 P90 BE90LA4**	300



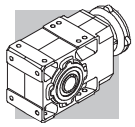
2.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.3	14141	1.0	1324.0	69675	**A904_1324 S3 ME3LA4**	398	**A904_1324 P100 BE100LA4**	396
1.4	13053	1.1	1222.2	69675	**A904_1222 S3 ME3LA4**	398	**A904_1222 P100 BE100LA4**	396
1.6	11861	1.2	1110.6	69675	**A904_1111 S3 ME3LA4**	398	**A904_1111 P100 BE100LA4**	396
1.7	10949	1.3	1025.2	69675	**A904_1025 S3 ME3LA4**	398	**A904_1025 P100 BE100LA4**	396
1.9	10009	1.4	937.2	69675	**A904_937.2 S3 ME3LA4**	398	**A904_937.2 P100 BE100LA4**	396
2.0	9239	1.5	865.1	69675	**A904_865.1 S3 ME3LA4**	398	**A904_865.1 P100 BE100LA4**	396
2.1	8859	0.9	829.5	60320	**A804_829.5 S3 ME3LA4**	390	**A804_829.5 P100 BE100LA4**	388
2.3	8191	1.7	766.9	69675	**A904_766.9 S3 ME3LA4**	398	**A904_766.9 P100 BE100LA4**	396
2.3	8139	1.0	762.1	60320	**A804_762.1 S3 ME3LA4**	390	**A804_762.1 P100 BE100LA4**	388
2.5	7561	1.9	707.9	69675	**A904_707.9 S3 ME3LA4**	398	**A904_707.9 P100 BE100LA4**	396
2.5	7513	1.1	703.5	60320	**A804_703.5 S3 ME3LA4**	390	**A804_703.5 P100 BE100LA4**	388
2.9	6484	1.2	607.2	60320	**A804_607.2 S3 ME3LA4**	390	**A804_607.2 P100 BE100LA4**	388
2.9	6425	2.2	601.6	69675	**A904_601.6 S3 ME3LA4**	398	**A904_601.6 P100 BE100LA4**	396
3.1	5986	1.3	560.5	60320	**A804_560.5 S3 ME3LA4**	390	**A804_560.5 P100 BE100LA4**	388
3.1	5931	2.4	555.3	69675	**A904_555.3 S3 ME3LA4**	398	**A904_555.3 P100 BE100LA4**	396
3.4	5505	0.9	515.4	46350	**A704_515.4 S3 ME3LA4**	382	**A704_515.4 P100 BE100LA4**	380
3.6	5197	2.7	486.6	69675	**A904_486.6 S3 ME3LA4**	398	**A904_486.6 P100 BE100LA4**	396
3.6	5115	1.6	478.9	60320	**A804_478.9 S3 ME3LA4**	390	**A804_478.9 P100 BE100LA4**	388
3.7	5081	1.0	475.8	46350	**A704_475.8 S3 ME3LA4**	382	**A704_475.8 P100 BE100LA4**	380
3.9	4797	2.9	449.2	69675	**A904_449.2 S3 ME3LA4**	398	**A904_449.2 P100 BE100LA4**	396
3.9	4721	1.7	442.1	60320	**A804_442.1 S3 ME3LA4**	390	**A804_442.1 P100 BE100LA4**	388
4.4	4274	1.2	400.2	46350	**A704_400.2 S3 ME3LA4**	382	**A704_400.2 P100 BE100LA4**	380
4.6	4095	2.0	383.5	60320	**A804_383.5 S3 ME3LA4**	390	**A804_383.5 P100 BE100LA4**	388
4.7	3945	1.3	369.4	46350	**A704_369.4 S3 ME3LA4**	382	**A704_369.4 P100 BE100LA4**	380
4.9	3780	2.1	354.0	60320	**A804_354.0 S3 ME3LA4**	390	**A804_354.0 P100 BE100LA4**	388
5.5	3379	1.5	316.4	46350	**A704_316.4 S3 ME3LA4**	382	**A704_316.4 P100 BE100LA4**	380
5.8	3208	2.5	300.4	60320	**A804_300.4 S3 ME3LA4**	390	**A804_300.4 P100 BE100LA4**	388
6.0	3119	1.6	292.0	46350	**A704_292.0 S3 ME3LA4**	382	**A704_292.0 P100 BE100LA4**	380
6.1	3058	0.9	286.3	27810	**A604_286.3 S3 ME3LA4**	372	**A604_286.3 P100 BE100LA4**	370
6.3	2961	2.7	277.3	60320	**A804_277.3 S3 ME3LA4**	390	**A804_277.3 P100 BE100LA4**	388
6.6	2823	1.0	264.3	27810	**A604_264.3 S3 ME3LA4**	372	**A604_264.3 P100 BE100LA4**	370
7.3	2548	2.0	238.6	46350	**A704_238.6 S3 ME3LA4**	382	**A704_238.6 P100 BE100LA4**	380
7.7	2415	1.2	226.1	27810	**A604_226.1 S3 ME3LA4**	372	**A604_226.1 P100 BE100LA4**	370
7.9	2352	2.1	220.3	46350	**A704_220.3 S3 ME3LA4**	382	**A704_220.3 P100 BE100LA4**	380
8.4	2229	1.3	208.7	27810	**A604_208.7 S3 ME3LA4**	372	**A604_208.7 P100 BE100LA4**	370
9.0	2121	0.9	194.2	27780	**A553_194.2 S3 ME3LA4**	362	**A553_194.2 P100 BE100LA4**	360
9.4	2028	1.4	185.8	27810	**A603_185.8 S3 ME3LA4**	372	**A603_185.8 P100 BE100LA4**	370
9.5	1964	2.5	183.9	46350	**A704_183.9 S3 ME3LA4**	382	**A704_183.9 P100 BE100LA4**	380
10.0	1911	1.0	175.0	27780	**A553_175.0 S3 ME3LA4**	362	**A553_175.0 P100 BE100LA4**	360
10.2	1872	1.5	171.5	27810	**A603_171.5 S3 ME3LA4**	372	**A603_171.5 P100 BE100LA4**	370
10.3	1813	2.8	169.8	46350	**A704_169.8 S3 ME3LA4**	382	**A704_169.8 P100 BE100LA4**	380
10.9	1752	1.1	160.4	27780	**A553_160.4 S3 ME3LA4**	362	**A553_160.4 P100 BE100LA4**	360
11.2	1704	1.6	156.0	27810	**A603_156.0 S3 ME3LA4**	372	**A603_156.0 P100 BE100LA4**	370
11.4	1678	2.2	153.7	46350	**A703_153.7 S3 ME3LA4**	382	**A703_153.7 P100 BE100LA4**	380
11.9	1603	1.2	146.8	27780	**A553_146.8 S3 ME3LA4**	362	**A553_146.8 P100 BE100LA4**	360
12.1	1573	1.8	144.0	27810	**A603_144.0 S3 ME3LA4**	372	**A603_144.0 P100 BE100LA4**	370
12.4	1536	1.0	140.6	17038	**A503_140.6 S3 ME3LA4**	352	**A503_140.6 P100 BE100LA4**	350
13.1	1455	1.9	133.3	27810	**A603_133.3 S3 ME3LA4**	372	**A603_133.3 P100 BE100LA4**	370
13.1	1449	1.4	132.7	27780	**A553_132.7 S3 ME3LA4**	362	**A553_132.7 P100 BE100LA4**	360
13.5	1416	1.1	129.7	18045	**A503_129.7 S3 ME3LA4**	352	**A503_129.7 P100 BE100LA4**	350
14.1	1353	1.5	123.9	27780	**A553_123.9 S3 ME3LA4**	362	**A553_123.9 P100 BE100LA4**	360
14.2	1343	2.1	123.0	27810	**A603_123.0 S3 ME3LA4**	372	**A603_123.0 P100 BE100LA4**	370
14.8	1288	1.2	118.0	18320	**A503_118.0 S3 ME3LA4**	352	**A503_118.0 P100 BE100LA4**	350
15.9	1195	1.3	109.4	18320	**A503_109.4 S3 ME3LA4**	352	**A503_109.4 P100 BE100LA4**	350
16.2	1177	2.4	107.8	27810	**A603_107.8 S3 ME3LA4**	372	**A603_107.8 P100 BE100LA4**	370
17.2	1107	1.8	101.4	27780	**A553_101.4 S3 ME3LA4**	362	**A553_101.4 P100 BE100LA4**	360
17.5	1087	1.4	99.5	18320	**A503_99.5 S3 ME3LA4**	352	**A503_99.5 P100 BE100LA4**	350

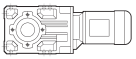


2.2 kW

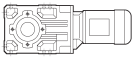
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
17.5	1087	2.6	99.5	27810	**A603_99.5 S3 ME3LA4**	372	**A603_99.5 P100 BE100LA4**	370
19.5	978	1.5	89.5	18137	**A503_89.5 S3 ME3LA4**	352	**A503_89.5 P100 BE100LA4**	350
20.2	943	3.0	86.4	27810	**A603_86.4 S3 ME3LA4**	372	**A603_86.4 P100 BE100LA4**	370
21.4	889	1.7	81.5	17954	**A503_81.5 S3 ME3LA4**	352	**A503_81.5 P100 BE100LA4**	350
21.9	868	2.3	79.5	27780	**A553_79.5 S3 ME3LA4**	362	**A553_79.5 P100 BE100LA4**	360
24.5	804	1.0	71.3	12746	**A412_71.3 S3 ME3LA4**	342	**A412_71.3 P100 BE100LA4**	340
24.8	767	2.0	70.2	17679	**A503_70.2 S3 ME3LA4**	352	**A503_70.2 P100 BE100LA4**	350
27.1	702	2.8	64.3	27780	**A553_64.3 S3 ME3LA4**	362	**A553_64.3 P100 BE100LA4**	360
27.2	724	1.1	64.2	13297	**A412_64.2 S3 ME3LA4**	342	**A412_64.2 P100 BE100LA4**	340
27.3	698	2.1	63.9	17404	**A503_63.9 S3 ME3LA4**	352	**A503_63.9 P100 BE100LA4**	350
29.7	663	1.2	58.8	13205	**A412_58.8 S3 ME3LA4**	342	**A412_58.8 P100 BE100LA4**	340
31	620	2.4	56.8	17038	**A503_56.8 S3 ME3LA4**	352	**A503_56.8 P100 BE100LA4**	350
32	612	1.0	54.3	9492	**A352_54.3 S3 ME3LA4**	332	**A352_54.3 P100 BE100LA4**	330
33	599	1.3	53.1	12930	**A412_53.1 S3 ME3LA4**	342	**A412_53.1 P100 BE100LA4**	340
34	564	2.7	51.7	16763	**A503_51.7 S3 ME3LA4**	352	**A503_51.7 P100 BE100LA4**	350
36	554	1.1	49.1	9167	**A352_49.1 S3 ME3LA4**	332	**A352_49.1 P100 BE100LA4**	330
36	545	1.4	48.3	12746	**A412_48.3 S3 ME3LA4**	342	**A412_48.3 P100 BE100LA4**	340
38	517	1.2	45.8	9112	**A352_45.8 S3 ME3LA4**	332	**A352_45.8 P100 BE100LA4**	330
39	508	1.5	45.1	12563	**A412_45.1 S3 ME3LA4**	342	**A412_45.1 P100 BE100LA4**	340
39	491	3.0	45.0	16396	**A503_45.0 S3 ME3LA4**	352	**A503_45.0 P100 BE100LA4**	350
42	471	1.3	41.8	9029	**A352_41.8 S3 ME3LA4**	332	**A352_41.8 P100 BE100LA4**	330
44	443	0.9	39.3	5130	**A302_39.3 S3 ME3LA4**	322	**A302_39.3 P100 BE100LA4**	320
48	413	1.0	36.6	5130	**A302_36.6 S3 ME3LA4**	322	**A302_36.6 P100 BE100LA4**	320
48	413	1.5	36.6	8890	**A352_36.6 S3 ME3LA4**	332	**A352_36.6 P100 BE100LA4**	330
49	405	1.8	35.9	12013	**A412_35.9 S3 ME3LA4**	342	**A412_35.9 P100 BE100LA4**	340
52	377	1.0	33.4	4626	**A302_33.4 S3 ME3LA4**	322	**A302_33.4 P100 BE100LA4**	320
53	374	1.6	33.2	8760	**A352_33.2 S3 ME3LA4**	332	**A352_33.2 P100 BE100LA4**	330
60	331	1.1	29.3	4928	**A302_29.3 S3 ME3LA4**	322	**A302_29.3 P100 BE100LA4**	320
61	321	1.9	28.4	8547	**A352_28.4 S3 ME3LA4**	332	**A352_28.4 P100 BE100LA4**	330
62	319	2.1	28.3	11371	**A412_28.3 S3 ME3LA4**	342	**A412_28.3 P100 BE100LA4**	340
66	299	1.3	26.5	4901	**A302_26.5 S3 ME3LA4**	322	**A302_26.5 P100 BE100LA4**	320
68	290	2.0	25.7	8399	**A352_25.7 S3 ME3LA4**	332	**A352_25.7 P100 BE100LA4**	330
77	257	1.5	22.8	4846	**A302_22.8 S3 ME3LA4**	322	**A302_22.8 P100 BE100LA4**	320
77	256	2.5	22.7	10729	**A412_22.7 S3 ME3LA4**	342	**A412_22.7 P100 BE100LA4**	340
78	254	2.2	22.5	8186	**A352_22.5 S3 ME3LA4**	332	**A352_22.5 P100 BE100LA4**	330
82	239	1.0	21.2	2950	**A202_21.2 S3 ME3LA4**	312	**A202_21.2 P100 BE100LA4**	310
85	232	1.6	20.5	4791	**A302_20.5 S3 ME3LA4**	322	**A302_20.5 P100 BE100LA4**	320
85	230	2.4	20.4	8019	**A352_20.4 S3 ME3LA4**	332	**A352_20.4 P100 BE100LA4**	330
96	204	1.1	18.1	2876	**A202_18.1 S3 ME3LA4**	312	**A202_18.1 P100 BE100LA4**	310
97	203	1.8	18.0	4708	**A302_18.0 S3 ME3LA4**	322	**A302_18.0 P100 BE100LA4**	320
98	200	2.9	17.8	10087	**A412_17.8 S3 ME3LA4**	342	**A412_17.8 P100 BE100LA4**	340
103	191	2.9	17.0	7704	**A352_17.0 S3 ME3LA4**	332	**A352_17.0 P100 BE100LA4**	330
107	184	1.9	16.3	4635	**A302_16.3 S3 ME3LA4**	322	**A302_16.3 P100 BE100LA4**	320
108	182	1.3	16.2	2876	**A202_16.2 S3 ME3LA4**	312	**A202_16.2 P100 BE100LA4**	310
124	159	1.4	14.1	2858	**A202_14.1 S3 ME3LA4**	312	**A202_14.1 P100 BE100LA4**	310
129	153	2.2	13.6	4488	**A302_13.6 S3 ME3LA4**	322	**A302_13.6 P100 BE100LA4**	320
142	139	0.9	12.3	2350	**A102_12.3 S3 ME3LA4**	302	**A102_12.3 P100 BE100LA4**	300
146	135	1.4	12.0	2812	**A202_12.0 S3 ME3LA4**	312	**A202_12.0 P100 BE100LA4**	310
148	133	2.1	11.8	4351	**A302_11.8 S3 ME3LA4**	322	**A302_11.8 P100 BE100LA4**	320
148	133	2.8	11.8	7139	**A352_11.8 S3 ME3LA4**	332	**A352_11.8 P100 BE100LA4**	330
165	119	1.2	10.6	2350	**A102_10.6 S3 ME3LA4**	302	**A102_10.6 P100 BE100LA4**	300
167	118	2.7	10.5	4269	**A302_10.5 S3 ME3LA4**	322	**A302_10.5 P100 BE100LA4**	320
169	117	1.8	10.3	2775	**A202_10.3 S3 ME3LA4**	312	**A202_10.3 P100 BE100LA4**	310
181	108	1.2	9.6	2332	**A102_9.6 S3 ME3LA4**	302	**A102_9.6 P100 BE100LA4**	300
186	106	1.8	9.4	2730	**A202_9.4 S3 ME3LA4**	312	**A202_9.4 P100 BE100LA4**	310
187	105	2.6	9.3	4149	**A302_9.3 S3 ME3LA4**	322	**A302_9.3 P100 BE100LA4**	320
205	96	1.3	8.5	2757	**A102_8.5 S3 ME3LA4**	302	**A102_8.5 P100 BE100LA4**	300

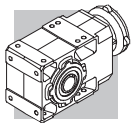


2.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
206	95	2.9	8.5	4058	**A302_8.5 S3 ME3LA4**	322	**A302_8.5 P100 BE100LA4**	320
208	94	2.1	8.4	2684	**A202_8.4 S3 ME3LA4**	312	**A202_8.4 P100 BE100LA4**	310
239	82	2.4	7.3	2620	**A202_7.3 S3 ME3LA4**	312	**A202_7.3 P100 BE100LA4**	310
242	81	1.6	7.2	2278	**A102_7.2 S3 ME3LA4**	302	**A102_7.2 P100 BE100LA4**	300
267	74	2.6	6.5	2574	**A202_6.5 S3 ME3LA4**	312	**A202_6.5 P100 BE100LA4**	310
275	71	1.8	6.3	2667	**A102_6.3 S3 ME3LA4**	302	**A102_6.3 P100 BE100LA4**	300
319	62	2.1	5.5	2197	**A102_5.5 S3 ME3LA4**	302	**A102_5.5 P100 BE100LA4**	300

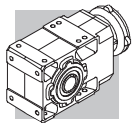
3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
1.7	15054	0.9	1025.2	69675	**A904_1025 S3 ME3LB4**	398	**A904_1025 P100 BE100LB4**	396
1.9	13763	1.0	937.2	69675	**A904_937.2 S3 ME3LB4**	398	**A904_937.2 P100 BE100LB4**	396
2.0	12704	1.1	865.1	69675	**A904_865.1 S3 ME3LB4**	398	**A904_865.1 P100 BE100LB4**	396
2.3	11262	1.2	766.9	69675	**A904_766.9 S3 ME3LB4**	398	**A904_766.9 P100 BE100LB4**	396
2.5	10396	1.3	707.9	69675	**A904_707.9 S3 ME3LB4**	398	**A904_707.9 P100 BE100LB4**	396
2.9	8834	1.6	601.6	69675	**A904_601.6 S3 ME3LB4**	398	**A904_601.6 P100 BE100LB4**	396
3.1	8230	1.0	560.5	60320	**A804_560.5 S3 ME3LB4**	390	**A804_560.5 P100 BE100LB4**	388
3.1	8155	1.7	555.3	69675	**A904_555.3 S3 ME3LB4**	398	**A904_555.3 P100 BE100LB4**	396
3.6	7146	2.0	486.6	69675	**A904_486.6 S3 ME3LB4**	398	**A904_486.6 P100 BE100LB4**	396
3.6	7033	1.1	478.9	60320	**A804_478.9 S3 ME3LB4**	390	**A804_478.9 P100 BE100LB4**	388
3.9	6596	2.1	449.2	69675	**A904_449.2 S3 ME3LB4**	398	**A904_449.2 P100 BE100LB4**	396
3.9	6492	1.2	442.1	60320	**A804_442.1 S3 ME3LB4**	390	**A804_442.1 P100 BE100LB4**	388
4.5	5660	2.5	385.4	69675	**A904_385.4 S3 ME3LB4**	398	**A904_385.4 P100 BE100LB4**	396
4.5	5631	1.4	383.5	60320	**A804_383.5 S3 ME3LB4**	390	**A804_383.5 P100 BE100LB4**	388
4.7	5424	0.9	369.4	46350	**A704_369.4 S3 ME3LB4**	382	**A704_369.4 P100 BE100LB4**	380
4.9	5225	2.7	355.8	69675	**A904_355.8 S3 ME3LB4**	398	**A904_355.8 P100 BE100LB4**	396
4.9	5198	1.5	354.0	60320	**A804_354.0 S3 ME3LB4**	390	**A804_354.0 P100 BE100LB4**	388
5.5	4646	1.1	316.4	46350	**A704_316.4 S3 ME3LB4**	382	**A704_316.4 P100 BE100LB4**	380
5.8	4411	1.8	300.4	60320	**A804_300.4 S3 ME3LB4**	390	**A804_300.4 P100 BE100LB4**	388
5.9	4288	1.2	292.0	46350	**A704_292.0 S3 ME3LB4**	382	**A704_292.0 P100 BE100LB4**	380
6.3	4072	2.0	277.3	60320	**A804_277.3 S3 ME3LB4**	390	**A804_277.3 P100 BE100LB4**	388
7.3	3504	1.4	238.6	46350	**A704_238.6 S3 ME3LB4**	382	**A704_238.6 P100 BE100LB4**	380
7.5	3416	2.3	232.6	60320	**A804_232.6 S3 ME3LB4**	390	**A804_232.6 P100 BE100LB4**	388
7.9	3234	1.5	220.3	46350	**A704_220.3 S3 ME3LB4**	382	**A704_220.3 P100 BE100LB4**	380
8.1	3153	2.5	214.7	60320	**A804_214.7 S3 ME3LB4**	390	**A804_214.7 P100 BE100LB4**	388
8.3	3065	0.9	208.7	27810	**A604_208.7 S3 ME3LB4**	372	**A604_208.7 P100 BE100LB4**	370
9.3	2789	1.0	185.8	27810	**A603_185.8 S3 ME3LB4**	372	**A603_185.8 P100 BE100LB4**	370
9.4	2701	1.9	183.9	46350	**A704_183.9 S3 ME3LB4**	382	**A704_183.9 P100 BE100LB4**	380
10.1	2575	1.1	171.5	27810	**A603_171.5 S3 ME3LB4**	372	**A603_171.5 P100 BE100LB4**	370
10.2	2493	2.0	169.8	46350	**A704_169.8 S3 ME3LB4**	382	**A704_169.8 P100 BE100LB4**	380
11.1	2343	1.2	156.0	27810	**A603_156.0 S3 ME3LB4**	372	**A603_156.0 P100 BE100LB4**	370
11.3	2308	1.6	153.7	46350	**A703_153.7 S3 ME3LB4**	382	**A703_153.7 P100 BE100LB4**	380
11.8	2204	0.9	146.8	27780	**A553_146.8 S3 ME3LB4**	362	**A553_146.8 P100 BE100LB4**	360
12.0	2163	1.3	144.0	27810	**A603_144.0 S3 ME3LB4**	372	**A603_144.0 P100 BE100LB4**	370
12.2	2130	2.3	141.9	46350	**A703_141.9 S3 ME3LB4**	382	**A703_141.9 P100 BE100LB4**	380
13.0	2001	1.4	133.3	27810	**A603_133.3 S3 ME3LB4**	372	**A603_133.3 P100 BE100LB4**	370
13.1	1993	1.0	132.7	27780	**A553_132.7 S3 ME3LB4**	362	**A553_132.7 P100 BE100LB4**	360
13.3	1962	2.5	130.7	46350	**A703_130.7 S3 ME3LB4**	382	**A703_130.7 P100 BE100LB4**	380
14.0	1860	1.1	123.9	27780	**A553_123.9 S3 ME3LB4**	362	**A553_123.9 P100 BE100LB4**	360
14.1	1847	1.5	123.0	27810	**A603_123.0 S3 ME3LB4**	372	**A603_123.0 P100 BE100LB4**	370



3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
14.4	1811	2.8	120.6	46350	**A703_120.6 S3 ME3LB4**	382	**A703_120.6 P100 BE100LB4**	380
15.9	1643	0.9	109.4	16488	**A503_109.4 S3 ME3LB4**	352	**A503_109.4 P100 BE100LB4**	350
16.1	1619	1.7	107.8	27810	**A603_107.8 S3 ME3LB4**	372	**A603_107.8 P100 BE100LB4**	370
17.1	1522	1.3	101.4	27780	**A553_101.4 S3 ME3LB4**	362	**A553_101.4 P100 BE100LB4**	360
17.4	1495	1.0	99.5	15755	**A503_99.5 S3 ME3LB4**	352	**A503_99.5 P100 BE100LB4**	350
17.4	1494	1.9	99.5	27810	**A603_99.5 S3 ME3LB4**	372	**A603_99.5 P100 BE100LB4**	370
19.4	1344	1.1	89.5	15664	**A503_89.5 S3 ME3LB4**	352	**A503_89.5 P100 BE100LB4**	350
20.1	1297	2.2	86.4	27810	**A603_86.4 S3 ME3LB4**	372	**A603_86.4 P100 BE100LB4**	370
21.3	1223	1.2	81.5	15755	**A503_81.5 S3 ME3LB4**	352	**A503_81.5 P100 BE100LB4**	350
21.8	1197	2.3	79.7	27810	**A603_79.7 S3 ME3LB4**	372	**A603_79.7 P100 BE100LB4**	370
21.8	1194	1.7	79.5	27780	**A553_79.5 S3 ME3LB4**	362	**A553_79.5 P100 BE100LB4**	360
24.6	1057	2.6	70.4	27810	**A603_70.4 S3 ME3LB4**	372	**A603_70.4 P100 BE100LB4**	370
24.7	1055	1.4	70.2	15755	**A503_70.2 S3 ME3LB4**	352	**A503_70.2 P100 BE100LB4**	350
26.7	976	2.9	65.0	27810	**A603_65.0 S3 ME3LB4**	372	**A603_65.0 P100 BE100LB4**	370
27.0	966	2.1	64.3	27780	**A553_64.3 S3 ME3LB4**	362	**A553_64.3 P100 BE100LB4**	360
27.2	959	1.6	63.9	15664	**A503_63.9 S3 ME3LB4**	352	**A503_63.9 P100 BE100LB4**	350
31	853	1.8	56.8	15572	**A503_56.8 S3 ME3LB4**	352	**A503_56.8 P100 BE100LB4**	350
33	824	1.0	53.1	11463	**A412_53.1 S3 ME3LB4**	342	**A412_53.1 P100 BE100LB4**	340
34	776	1.9	51.7	15389	**A503_51.7 S3 ME3LB4**	352	**A503_51.7 P100 BE100LB4**	350
34	765	2.6	51.0	27780	**A553_51.0 S3 ME3LB4**	362	**A553_51.0 P100 BE100LB4**	360
36	749	1.1	48.3	11646	**A412_48.3 S3 ME3LB4**	342	**A412_48.3 P100 BE100LB4**	340
38	699	1.1	45.1	11554	**A412_45.1 S3 ME3LB4**	342	**A412_45.1 P100 BE100LB4**	340
39	676	2.2	45.0	15114	**A503_45.0 S3 ME3LB4**	352	**A503_45.0 P100 BE100LB4**	350
42	648	0.9	41.8	8056	**A352_41.8 S3 ME3LB4**	332	**A352_41.8 P100 BE100LB4**	330
42	615	2.3	40.9	14931	**A503_40.9 S3 ME3LB4**	352	**A503_40.9 P100 BE100LB4**	350
47	568	1.1	36.6	7917	**A352_36.6 S3 ME3LB4**	332	**A352_36.6 P100 BE100LB4**	330
48	557	1.3	35.9	11187	**A412_35.9 S3 ME3LB4**	342	**A412_35.9 P100 BE100LB4**	340
49	535	2.6	35.6	14656	**A503_35.6 S3 ME3LB4**	352	**A503_35.6 P100 BE100LB4**	350
52	514	1.2	33.2	7890	**A352_33.2 S3 ME3LB4**	332	**A352_33.2 P100 BE100LB4**	330
54	486	2.9	32.4	14381	**A503_32.4 S3 ME3LB4**	352	**A503_32.4 P100 BE100LB4**	350
61	441	1.4	28.4	7797	**A352_28.4 S3 ME3LB4**	332	**A352_28.4 P100 BE100LB4**	330
61	439	1.5	28.3	10729	**A412_28.3 S3 ME3LB4**	342	**A412_28.3 P100 BE100LB4**	340
65	411	0.9	26.5	4259	**A302_26.5 S3 ME3LB4**	322	**A302_26.5 P100 BE100LB4**	320
68	398	1.5	25.7	7714	**A352_25.7 S3 ME3LB4**	332	**A352_25.7 P100 BE100LB4**	330
76	353	1.1	22.8	4223	**A302_22.8 S3 ME3LB4**	322	**A302_22.8 P100 BE100LB4**	320
77	352	1.8	22.7	10270	**A412_22.7 S3 ME3LB4**	342	**A412_22.7 P100 BE100LB4**	340
77	349	1.6	22.5	7584	**A352_22.5 S3 ME3LB4**	332	**A352_22.5 P100 BE100LB4**	330
84	319	1.2	20.5	4232	**A302_20.5 S3 ME3LB4**	322	**A302_20.5 P100 BE100LB4**	320
85	317	1.8	20.4	7482	**A352_20.4 S3 ME3LB4**	332	**A352_20.4 P100 BE100LB4**	330
96	279	1.3	18.0	4214	**A302_18.0 S3 ME3LB4**	322	**A302_18.0 P100 BE100LB4**	320
98	276	2.1	17.8	9720	**A412_17.8 S3 ME3LB4**	342	**A412_17.8 P100 BE100LB4**	340
102	263	2.1	17.0	7251	**A352_17.0 S3 ME3LB4**	332	**A352_17.0 P100 BE100LB4**	330
106	253	1.4	16.3	4195	**A302_16.3 S3 ME3LB4**	322	**A302_16.3 P100 BE100LB4**	320
107	251	0.9	16.2	2482	**A202_16.2 S3 ME3LB4**	312	**A202_16.2 P100 BE100LB4**	310
108	250	2.3	16.1	9537	**A412_16.1 S3 ME3LB4**	342	**A412_16.1 P100 BE100LB4**	340
112	240	2.3	15.5	7130	**A352_15.5 S3 ME3LB4**	332	**A352_15.5 P100 BE100LB4**	330
123	218	1.0	14.1	2427	**A202_14.1 S3 ME3LB4**	312	**A202_14.1 P100 BE100LB4**	310
126	213	2.5	13.8	9161	**A412_13.8 S3 ME3LB4**	342	**A412_13.8 P100 BE100LB4**	340
128	210	1.6	13.6	4122	**A302_13.6 S3 ME3LB4**	322	**A302_13.6 P100 BE100LB4**	320
133	203	2.7	13.1	6899	**A352_13.1 S3 ME3LB4**	332	**A352_13.1 P100 BE100LB4**	330
145	186	1.1	12.0	2446	**A202_12.0 S3 ME3LB4**	312	**A202_12.0 P100 BE100LB4**	310
147	183	1.5	11.8	4030	**A302_11.8 S3 ME3LB4**	322	**A302_11.8 P100 BE100LB4**	320
147	183	2.0	11.8	6862	**A352_11.8 S3 ME3LB4**	332	**A352_11.8 P100 BE100LB4**	330
148	182	2.8	11.7	8785	**A412_11.7 S3 ME3LB4**	342	**A412_11.7 P100 BE100LB4**	340
163	165	2.2	10.6	6695	**A352_10.6 S3 ME3LB4**	332	**A352_10.6 P100 BE100LB4**	330

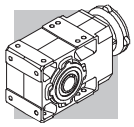


3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
166	162	1.9	10.5	3985	**A302_10.5 S3 ME3LB4**	322	**A302_10.5 P100 BE100LB4**	320
168	160	1.3	10.3	2464	**A202_10.3 S3 ME3LB4**	312	**A202_10.3 P100 BE100LB4**	310
185	145	1.3	9.4	2446	**A202_9.4 S3 ME3LB4**	312	**A202_9.4 P100 BE100LB4**	310
186	144	1.9	9.3	3884	**A302_9.3 S3 ME3LB4**	322	**A302_9.3 P100 BE100LB4**	320
186	144	2.6	9.3	6482	**A352_9.3 S3 ME3LB4**	332	**A352_9.3 P100 BE100LB4**	330
204	132	1.0	8.5	2260	**A102_8.5 S3 ME3LB4**	302	**A102_8.5 P100 BE100LB4**	300
205	131	2.1	8.5	3820	**A302_8.5 S3 ME3LB4**	322	**A302_8.5 P100 BE100LB4**	320
205	131	2.7	8.5	6334	**A352_8.5 S3 ME3LB4**	332	**A352_8.5 P100 BE100LB4**	330
207	130	1.5	8.4	2427	**A202_8.4 S3 ME3LB4**	312	**A202_8.4 P100 BE100LB4**	310
238	113	1.7	7.3	2400	**A202_7.3 S3 ME3LB4**	312	**A202_7.3 P100 BE100LB4**	310
241	112	1.2	7.2	2007	**A102_7.2 S3 ME3LB4**	302	**A102_7.2 P100 BE100LB4**	300
247	109	2.6	7.0	3691	**A302_7.0 S3 ME3LB4**	322	**A302_7.0 P100 BE100LB4**	320
265	101	1.9	6.5	2372	**A202_6.5 S3 ME3LB4**	312	**A202_6.5 P100 BE100LB4**	310
271	99	2.8	6.4	3618	**A302_6.4 S3 ME3LB4**	322	**A302_6.4 P100 BE100LB4**	320
274	98	1.3	6.3	2387	**A102_6.3 S3 ME3LB4**	302	**A102_6.3 P100 BE100LB4**	300
317	85	1.5	5.5	1989	**A102_5.5 S3 ME3LB4**	302	**A102_5.5 P100 BE100LB4**	300
324	83	2.3	5.4	2308	**A202_5.4 S3 ME3LB4**	312	**A202_5.4 P100 BE100LB4**	310

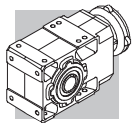
3.7 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
2.0	15399	0.9	865.1	69675	**A904_865.1 S4 ME4SA4**	398	**A904_865.1 P112 BE112M4**	396
2.3	13651	1.0	766.9	69675	**A904_766.9 S4 ME4SA4**	398	**A904_766.9 P112 BE112M4**	396
2.5	12601	1.1	707.9	69675	**A904_707.9 S4 ME4SA4**	398	**A904_707.9 P112 BE112M4**	396
2.9	10708	1.3	601.6	69675	**A904_601.6 S4 ME4SA4**	398	**A904_601.6 P112 BE112M4**	396
3.1	9884	1.4	555.3	69675	**A904_555.3 S4 ME4SA4**	398	**A904_555.3 P112 BE112M4**	396
3.6	8661	1.6	486.6	69675	**A904_486.6 S4 ME4SA4**	398	**A904_486.6 P112 BE112M4**	396
3.6	8525	0.9	478.9	60320	**A804_478.9 S4 ME4SA4**	390	**A804_478.9 P112 BE112M4**	388
3.9	7995	1.8	449.2	69675	**A904_449.2 S4 ME4SA4**	398	**A904_449.2 P112 BE112M4**	396
3.9	7869	1.0	442.1	60320	**A804_442.1 S4 ME4SA4**	390	**A804_442.1 P112 BE112M4**	388
4.5	6861	2.0	385.4	69675	**A904_385.4 S4 ME4SA4**	398	**A904_385.4 P112 BE112M4**	396
4.5	6826	1.2	383.5	60320	**A804_383.5 S4 ME4SA4**	390	**A804_383.5 P112 BE112M4**	388
4.9	6333	2.2	355.8	69675	**A904_355.8 S4 ME4SA4**	398	**A904_355.8 P112 BE112M4**	396
4.9	6301	1.3	354.0	60320	**A804_354.0 S4 ME4SA4**	390	**A804_354.0 P112 BE112M4**	388
5.7	5427	2.6	304.9	69675	**A904_304.9 S4 ME4SA4**	398	**A904_304.9 P112 BE112M4**	396
5.8	5347	1.5	300.4	60320	**A804_300.4 S4 ME4SA4**	390	**A804_300.4 P112 BE112M4**	388
6.0	5198	1.0	292.0	46350	**A704_292.0 S4 ME4SA4**	382	**A704_292.0 P112 BE112M4**	380
6.2	5010	2.8	281.4	69675	**A904_281.4 S4 ME4SA4**	398	**A904_281.4 P112 BE112M4**	396
6.3	4936	1.6	277.3	60320	**A804_277.3 S4 ME4SA4**	390	**A804_277.3 P112 BE112M4**	388
7.3	4247	1.2	238.6	46350	**A704_238.6 S4 ME4SA4**	382	**A704_238.6 P112 BE112M4**	380
7.5	4141	1.9	232.6	60320	**A804_232.6 S4 ME4SA4**	390	**A804_232.6 P112 BE112M4**	388
7.9	3921	1.3	220.3	46350	**A704_220.3 S4 ME4SA4**	382	**A704_220.3 P112 BE112M4**	380
8.1	3822	2.1	214.7	60320	**A804_214.7 S4 ME4SA4**	390	**A804_214.7 P112 BE112M4**	388
9.5	3273	1.5	183.9	46350	**A704_183.9 S4 ME4SA4**	382	**A704_183.9 P112 BE112M4**	380
10.2	3049	2.6	171.3	60320	**A804_171.3 S4 ME4SA4**	390	**A804_171.3 P112 BE112M4**	388
10.3	3022	1.7	169.8	46350	**A704_169.8 S4 ME4SA4**	382	**A704_169.8 P112 BE112M4**	380
11.1	2854	2.8	156.8	60320	**A803_156.8 S4 ME4SA4**	390	**A803_156.8 P112 BE112M4**	388
11.2	2840	1.0	156.0	27810			**A603_156.0 P112 BE112M4**	370
11.3	2797	1.3	153.7	46350	**A703_153.7 S4 ME4SA4**	382	**A703_153.7 P112 BE112M4**	380
12.1	2622	1.1	144.0	27810			**A603_144.0 P112 BE112M4**	370
12.3	2582	1.9	141.9	46350	**A703_141.9 S4 ME4SA4**	382	**A703_141.9 P112 BE112M4**	380



3.7 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
13.1	2426	1.2	133.3	27810	**A603_133.3 S4 ME4SA4**	372	**A603_133.3 P112 BE112M4**	370
13.3	2378	2.1	130.7	46350	**A703_130.7 S4 ME4SA4**	382	**A703_130.7 P112 BE112M4**	380
14.1	2239	1.3	123.0	27810	**A603_123.0 S4 ME4SA4**	372	**A603_123.0 P112 BE112M4**	370
14.4	2195	2.3	120.6	46350	**A703_120.6 S4 ME4SA4**	382	**A703_120.6 P112 BE112M4**	380
16.1	1962	1.4	107.8	27810	**A603_107.8 S4 ME4SA4**	372	**A603_107.8 P112 BE112M4**	370
16.7	1897	2.6	104.2	46350	**A703_104.2 S4 ME4SA4**	382	**A703_104.2 P112 BE112M4**	380
17.2	1845	1.1	101.4	27780	**A553_101.4 S4 ME4SA4**	362	**A553_101.4 P112 BE112M4**	360
17.5	1811	1.5	99.5	27810	**A603_99.5 S4 ME4SA4**	372	**A603_99.5 P112 BE112M4**	370
18.1	1751	2.8	96.2	46350	**A703_96.2 S4 ME4SA4**	382	**A703_96.2 P112 BE112M4**	380
19.4	1630	0.9	89.5	15114	**A503_89.5 S4 ME4SA4**	352	**A503_89.5 P112 BE112M4**	350
20.1	1572	1.8	86.4	27810	**A603_86.4 S4 ME4SA4**	372	**A603_86.4 P112 BE112M4**	370
21.4	1482	1.0	81.5	14702	**A503_81.5 S4 ME4SA4**	352	**A503_81.5 P112 BE112M4**	350
21.8	1451	1.9	79.7	27810	**A603_79.7 S4 ME4SA4**	372	**A603_79.7 P112 BE112M4**	370
21.9	1447	1.4	79.5	27780	**A553_79.5 S4 ME4SA4**	362	**A553_79.5 P112 BE112M4**	360
24.7	1281	2.2	70.4	27810	**A603_70.4 S4 ME4SA4**	372	**A603_70.4 P112 BE112M4**	370
24.8	1278	1.2	70.2	14161	**A503_70.2 S4 ME4SA4**	352	**A503_70.2 P112 BE112M4**	350
26.8	1183	2.4	65.0	27810	**A603_65.0 S4 ME4SA4**	372	**A603_65.0 P112 BE112M4**	370
27.1	1171	1.7	64.3	27780	**A553_64.3 S4 ME4SA4**	362	**A553_64.3 P112 BE112M4**	360
27.2	1163	1.3	63.9	13465	**A503_63.9 S4 ME4SA4**	352	**A503_63.9 P112 BE112M4**	350
31	1034	1.5	56.8	13557	**A503_56.8 S4 ME4SA4**	352	**A503_56.8 P112 BE112M4**	350
31	1012	2.8	55.6	27810	**A603_55.6 S4 ME4SA4**	372	**A603_55.6 P112 BE112M4**	370
34	941	1.6	51.7	13648	**A503_51.7 S4 ME4SA4**	352	**A503_51.7 P112 BE112M4**	350
34	934	3.0	51.3	27810	**A603_51.3 S4 ME4SA4**	372	**A603_51.3 P112 BE112M4**	370
34	927	2.2	51.0	27780	**A553_51.0 S4 ME4SA4**	362	**A553_51.0 P112 BE112M4**	360
39	847	0.9	45.1	10637	**A412_45.1 S4 ME4SA4**	342	**A412_45.1 P112 BE112M4**	340
39	819	1.8	45.0	13648	**A503_45.0 S4 ME4SA4**	352	**A503_45.0 P112 BE112M4**	350
43	745	1.9	40.9	13557	**A503_40.9 S4 ME4SA4**	352	**A503_40.9 P112 BE112M4**	350
43	734	2.5	40.3	27780	**A553_40.3 S4 ME4SA4**	362	**A553_40.3 P112 BE112M4**	360
48	675	1.1	35.9	10270	**A412_35.9 S4 ME4SA4**	342	**A412_35.9 P112 BE112M4**	340
49	648	2.1	35.6	13465	**A503_35.6 S4 ME4SA4**	352	**A503_35.6 P112 BE112M4**	350
52	623	1.0	33.2	7445			**A352_33.2 P112 BE112M4**	330
54	589	2.4	32.4	13282	**A503_32.4 S4 ME4SA4**	352	**A503_32.4 P112 BE112M4**	350
61	535	1.1	28.4	7214			**A352_28.4 P112 BE112M4**	330
61	532	1.3	28.3	9995	**A412_28.3 S4 ME4SA4**	342	**A412_28.3 P112 BE112M4**	340
66	481	2.9	26.4	12916	**A503_26.4 S4 ME4SA4**	352	**A503_26.4 P112 BE112M4**	350
68	483	1.2	25.7	6871			**A352_25.7 P112 BE112M4**	330
77	426	1.5	22.7	9629	**A412_22.7 S4 ME4SA4**	342	**A412_22.7 P112 BE112M4**	340
77	423	1.3	22.5	6852			**A352_22.5 P112 BE112M4**	330
83	393	2.8	20.9	13832	**A502_20.9 S4 ME4SA4**	352	**A502_20.9 P112 BE112M4**	350
85	386	1.0	20.5	3856			**A302_20.5 P112 BE112M4**	320
85	384	1.4	20.4	6815			**A352_20.4 P112 BE112M4**	330
97	338	1.1	18.0	3600			**A302_18.0 P112 BE112M4**	320
98	334	1.7	17.8	9262	**A412_17.8 S4 ME4SA4**	342	**A412_17.8 P112 BE112M4**	340
103	319	1.7	17.0	6704			**A352_17.0 P112 BE112M4**	330
106	307	1.2	16.3	3637			**A302_16.3 P112 BE112M4**	320
108	303	1.9	16.1	9115	**A412_16.1 S4 ME4SA4**	342	**A412_16.1 P112 BE112M4**	340
112	291	1.9	15.5	6630			**A352_15.5 P112 BE112M4**	330
126	259	2.1	13.8	8812	**A412_13.8 S4 ME4SA4**	342	**A412_13.8 P112 BE112M4**	340
128	255	1.3	13.6	3664			**A302_13.6 P112 BE112M4**	320
133	246	2.3	13.1	6482			**A352_13.1 P112 BE112M4**	330
148	221	1.3	11.8	3627			**A302_11.8 P112 BE112M4**	320
148	221	1.7	11.8	6528	**A352_11.8 S4 ME4SA4**	332	**A352_11.8 P112 BE112M4**	330
148	221	2.3	11.7	8491	**A412_11.7 S4 ME4SA4**	342	**A412_11.7 P112 BE112M4**	340

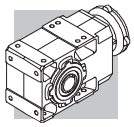


3.7 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
164	200	1.9	10.6	6399	**A352_10.6 S4 ME4SA4**	332	**A352_10.6 P112 BE112M4**	330
166	197	1.6	10.5	3637			**A302_10.5 P112 BE112M4**	320
168	194	1.1	10.3	1924			**A202_10.3 P112 BE112M4**	310
172	190	2.6	10.1	8216	**A412_10.1 S4 ME4SA4**	342	**A412_10.1 P112 BE112M4**	340
186	176	1.1	9.4	2153			**A202_9.4 P112 BE112M4**	310
187	175	1.6	9.3	3572			**A302_9.3 P112 BE112M4**	320
187	175	2.1	9.3	6232	**A352_9.3 S4 ME4SA4**	332	**A352_9.3 P112 BE112M4**	330
189	173	2.9	9.2	8015	**A412_9.2 S4 ME4SA4**	342	**A412_9.2 P112 BE112M4**	340
206	159	1.7	8.5	3536		322	**A302_8.5 P112 BE112M4**	320
206	159	2.2	8.5	6102	**A352_8.5 S4 ME4SA4**	332	**A352_8.5 P112 BE112M4**	330
208	157	1.2	8.4	2107			**A202_8.4 P112 BE112M4**	310
239	137	1.4	7.3	2116			**A202_7.3 P112 BE112M4**	310
241	136	1.0	7.2	2079			**A102_7.2 P112 BE112M4**	300
248	132	2.1	7.0	3453			**A302_7.0 P112 BE112M4**	320
248	132	2.6	7.0	5843	**A352_7.0 S4 ME4SA4**	332	**A352_7.0 P112 BE112M4**	330
266	123	1.6	6.5	2116			**A202_6.5 P112 BE112M4**	310
271	121	2.3	6.4	3408			**A302_6.4 P112 BE112M4**	320
271	121	2.7	6.4	5723	**A352_6.4 S4 ME4SA4**	332	**A352_6.4 P112 BE112M4**	330
275	119	1.1	6.3	1799			**A102_6.3 P112 BE112M4**	300
318	103	1.3	5.5	1727			**A102_5.5 P112 BE112M4**	300
321	102	2.7	5.4	3307			**A302_5.4 P112 BE112M4**	320
325	101	1.9	5.4	2107			**A202_5.4 P112 BE112M4**	310

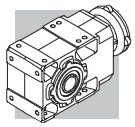
5.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
3.2	14826	0.9	555.3	69675	**A904_555.3 S4 ME4SB4**	398	**A904_555.3 P132 BE132S4**	396
3.6	12992	1.1	486.6	69675	**A904_486.6 S4 ME4SB4**	398	**A904_486.6 P132 BE132S4**	396
3.9	11993	1.2	449.2	69675	**A904_449.2 S4 ME4SB4**	398	**A904_449.2 P132 BE132S4**	396
4.6	10291	1.4	385.4	69675	**A904_385.4 S4 ME4SB4**	398	**A904_385.4 P132 BE132S4**	396
4.9	9500	1.5	355.8	69675	**A904_355.8 S4 ME4SB4**	398	**A904_355.8 P132 BE132S4**	396
5.8	8141	1.7	304.9	69675	**A904_304.9 S4 ME4SB4**	398	**A904_304.9 P132 BE132S4**	396
5.9	8020	1.0	300.4	60320	**A804_300.4 S4 ME4SB4**	390	**A804_300.4 P132 BE132S4**	388
6.3	7514	1.9	281.4	69675	**A904_281.4 S4 ME4SB4**	398	**A904_281.4 P132 BE132S4**	396
6.3	7403	1.1	277.3	60320	**A804_277.3 S4 ME4SB4**	390	**A804_277.3 P132 BE132S4**	388
7.6	6211	1.3	232.6	60320	**A804_232.6 S4 ME4SB4**	390	**A804_232.6 P132 BE132S4**	388
7.8	6046	2.3	226.4	69675	**A904_226.4 S4 ME4SB4**	398	**A904_226.4 P132 BE132S4**	396
8.2	5733	1.4	214.7	60320	**A804_214.7 S4 ME4SB4**	390	**A804_214.7 P132 BE132S4**	388
8.4	5581	2.5	209.0	69675	**A904_209.0 S4 ME4SB4**	398	**A904_209.0 P132 BE132S4**	396
9.6	4910	1.0	183.9	46350	**A704_183.9 S4 ME4SB4**	382	**A704_183.9 P132 BE132S4**	380
9.8	4805	2.9	180.0	69675	**A904_180.0 S4 ME4SB4**	398	**A904_180.0 P132 BE132S4**	396
10.3	4574	1.7	171.3	60320	**A804_171.3 S4 ME4SB4**	390	**A804_171.3 P132 BE132S4**	388
10.4	4532	1.1	169.8	46350	**A704_169.8 S4 ME4SB4**	382	**A704_169.8 P132 BE132S4**	380
11.2	4281	1.9	156.8	60320	**A803_156.8 S4 ME4SB4**	390	**A803_156.8 P132 BE132S4**	388
12.2	3951	2.0	144.7	60320	**A803_144.7 S4 ME4SB4**	390	**A803_144.7 P132 BE132S4**	388
12.4	3873	1.3	141.9	46350	**A703_141.9 S4 ME4SB4**	382	**A703_141.9 P132 BE132S4**	380
13.5	3567	1.4	130.7	46350	**A703_130.7 S4 ME4SB4**	382	**A703_130.7 P132 BE132S4**	380
14.0	3429	2.3	125.6	60320	**A803_125.6 S4 ME4SB4**	390	**A803_125.6 P132 BE132S4**	388
14.6	3293	1.5	120.6	46350	**A703_120.6 S4 ME4SB4**	382	**A703_120.6 P132 BE132S4**	380



5.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
15.2	3166	2.5	116.0	60320	**A803_116.0 S4 ME4SB4**	390	**A803_116.0 P132 BE132S4**	388
16.3	2943	1.0	107.8	27810	**A603_107.8 S4 ME4SB4**	372	**A603_107.8 P132 BE132S4**	370
16.9	2846	1.8	104.2	46350	**A703_104.2 S4 ME4SB4**	382	**A703_104.2 P132 BE132S4**	380
16.9	2840	2.8	104.0	60320	**A803_104.0 S4 ME4SB4**	390	**A803_104.0 P132 BE132S4**	388
17.7	2717	1.0	99.5	27810	**A603_99.5 S4 ME4SB4**	372	**A603_99.5 P132 BE132S4**	370
18.3	2627	1.8	96.2	46350	**A703_96.2 S4 ME4SB4**	382	**A703_96.2 P132 BE132S4**	380
18.3	2622	2.9	96.0	60320	**A803_96.0 S4 ME4SB4**	390	**A803_96.0 P132 BE132S4**	388
20.4	2358	1.2	86.4	27810	**A603_86.4 S4 ME4SB4**	372	**A603_86.4 P132 BE132S4**	370
20.5	2346	2.1	85.9	46350	**A703_85.9 S4 ME4SB4**	382	**A703_85.9 P132 BE132S4**	380
22.1	2176	1.3	79.7	27810	**A603_79.7 S4 ME4SB4**	372	**A603_79.7 P132 BE132S4**	370
22.1	2171	0.9	79.5	27780	**A553_79.5 S4 ME4SB4**	362	**A553_79.5 P132 BE132S4**	360
22.2	2166	2.1	79.3	46350	**A703_79.3 S4 ME4SB4**	382	**A703_79.3 P132 BE132S4**	380
24.3	1980	2.4	72.5	46350	**A703_72.5 S4 ME4SB4**	382	**A703_72.5 P132 BE132S4**	380
25.0	1922	1.5	70.4	27810	**A603_70.4 S4 ME4SB4**	372	**A603_70.4 P132 BE132S4**	370
26.3	1828	2.5	66.9	46350	**A703_66.9 S4 ME4SB4**	382	**A703_66.9 P132 BE132S4**	380
27.1	1774	1.6	65.0	27810	**A603_65.0 S4 ME4SB4**	372	**A603_65.0 P132 BE132S4**	370
27.4	1756	1.1	64.3	27780	**A553_64.3 S4 ME4SB4**	362	**A553_64.3 P132 BE132S4**	360
31	1574	2.9	57.7	46350	**A703_57.7 S4 ME4SB4**	382	**A703_57.7 P132 BE132S4**	380
31	1551	1.0	56.8	12000	**A503_56.8 S4 ME4SB4**	352	**A503_56.8 P132 BE132S4**	350
32	1518	1.8	55.6	27810	**A603_55.6 S4 ME4SB4**	372	**A603_55.6 P132 BE132S4**	370
34	1411	1.1	51.7	11908	**A503_51.7 S4 ME4SB4**	352	**A503_51.7 P132 BE132S4**	350
34	1401	2.0	51.3	27810	**A603_51.3 S4 ME4SB4**	372	**A603_51.3 P132 BE132S4**	370
35	1391	1.4	51.0	27780	**A553_51.0 S4 ME4SB4**	362	**A553_51.0 P132 BE132S4**	360
39	1234	2.3	45.2	27810	**A603_45.2 S4 ME4SB4**	372	**A603_45.2 P132 BE132S4**	370
39	1229	1.2	45.0	11358	**A503_45.0 S4 ME4SB4**	352	**A503_45.0 P132 BE132S4**	350
42	1139	2.5	41.7	27810	**A603_41.7 S4 ME4SB4**	372	**A603_41.7 P132 BE132S4**	370
43	1118	1.3	40.9	11542	**A503_40.9 S4 ME4SB4**	352	**A503_40.9 P132 BE132S4**	350
44	1100	1.7	40.3	27780	**A553_40.3 S4 ME4SB4**	362	**A553_40.3 P132 BE132S4**	360
49	972	1.4	35.6	11633	**A503_35.6 S4 ME4SB4**	352	**A503_35.6 P132 BE132S4**	350
51	936	3.0	34.3	27810	**A603_34.3 S4 ME4SB4**	372	**A603_34.3 P132 BE132S4**	370
54	884	1.6	32.4	11633	**A503_32.4 S4 ME4SB4**	352	**A503_32.4 P132 BE132S4**	350
59	817	2.3	29.9	27780	**A553_29.9 S4 ME4SB4**	362	**A553_29.9 P132 BE132S4**	360
67	722	1.9	26.4	11542	**A503_26.4 S4 ME4SB4**	352	**A503_26.4 P132 BE132S4**	350
73	657	2.1	24.0	11450	**A503_24.0 S4 ME4SB4**	352	**A503_24.0 P132 BE132S4**	350
74	649	2.8	23.8	27595	**A553_23.8 S4 ME4SB4**	362	**A553_23.8 P132 BE132S4**	360
78	639	1.0	22.7	8519	**A412_22.7 S4 ME4SB4**	342	**A412_22.7 P132 BE132S4**	340
84	590	1.9	20.9	13190	**A502_20.9 S4 ME4SB4**	352	**A502_20.9 P132 BE132S4**	350
99	501	1.2	17.8	8510	**A412_17.8 S4 ME4SB4**	342	**A412_17.8 P132 BE132S4**	340
106	467	2.4	16.6	12458	**A502_16.6 S4 ME4SB4**	352	**A502_16.6 P132 BE132S4**	350
109	454	1.2	16.1	8400	**A412_16.1 S4 ME4SB4**	342	**A412_16.1 P132 BE132S4**	340
128	388	1.4	13.8	8198	**A412_13.8 S4 ME4SB4**	342	**A412_13.8 P132 BE132S4**	340
134	370	2.8	13.1	11725	**A502_13.1 S4 ME4SB4**	352	**A502_13.1 P132 BE132S4**	350
149	332	1.1	11.8	5973	**A352_11.8 S4 ME4SB4**	332	**A352_11.8 P132 BE132S4**	330
150	331	1.5	11.7	7950	**A412_11.7 S4 ME4SB4**	342	**A412_11.7 P132 BE132S4**	340
166	300	1.2	10.6	5889	**A352_10.6 S4 ME4SB4**	332	**A352_10.6 P132 BE132S4**	330
174	286	1.7	10.1	7739	**A412_10.1 S4 ME4SB4**	342	**A412_10.1 P132 BE132S4**	340
189	263	1.4	9.3	5778	**A352_9.3 S4 ME4SB4**	332	**A352_9.3 P132 BE132S4**	330
191	259	2.0	9.2	7565	**A412_9.2 S4 ME4SB4**	342	**A412_9.2 P132 BE132S4**	340
208	239	1.5	8.5	5686	**A352_8.5 S4 ME4SB4**	332	**A352_8.5 P132 BE132S4**	330
211	235	2.2	8.3	7409	**A412_8.3 S4 ME4SB4**	342	**A412_8.3 P132 BE132S4**	340

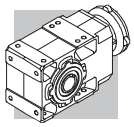


5.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
247	201	2.5	7.1	7143	**A412_7.1 S4 ME4SB4**	342	**A412_7.1 P132 BE132S4**	340
251	198	1.7	7.0	5491	**A352_7.0 S4 ME4SB4**	332	**A352_7.0 P132 BE132S4**	330
275	181	1.8	6.4	5389	**A352_6.4 S4 ME4SB4**	332	**A352_6.4 P132 BE132S4**	330
325	153	2.1	5.4	5195	**A352_5.4 S4 ME4SB4**	332	**A352_5.4 P132 BE132S4**	330

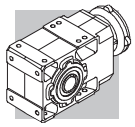
7.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
4.6	14065	1.0	385.4	69675	**A904_385.4 S4 ME4LA4**	398	**A904_385.4 P132 BE132MA4**	396
4.9	12983	1.1	355.8	69675	**A904_355.8 S4 ME4LA4**	398	**A904_355.8 P132 BE132MA4**	396
5.8	11125	1.3	304.9	69675	**A904_304.9 S4 ME4LA4**	398	**A904_304.9 P132 BE132MA4**	396
6.3	10270	1.4	281.4	69675	**A904_281.4 S4 ME4LA4**	398	**A904_281.4 P132 BE132MA4**	396
7.6	8489	0.9	232.6	60320	**A804_232.6 S4 ME4LA4**	390	**A804_232.6 P132 BE132MA4**	388
7.8	8262	1.7	226.4	69675	**A904_226.4 S4 ME4LA4**	398	**A904_226.4 P132 BE132MA4**	396
8.2	7836	1.0	214.7	60320	**A804_214.7 S4 ME4LA4**	390	**A804_214.7 P132 BE132MA4**	388
8.4	7627	1.8	209.0	69675	**A904_209.0 S4 ME4LA4**	398	**A904_209.0 P132 BE132MA4**	396
9.8	6567	2.1	180.0	69675	**A904_180.0 S4 ME4LA4**	398	**A904_180.0 P132 BE132MA4**	396
10.3	6251	1.3	171.3	60320	**A804_171.3 S4 ME4LA4**	390	**A804_171.3 P132 BE132MA4**	388
10.6	6062	2.3	166.1	69675	**A904_166.1 S4 ME4LA4**	398	**A904_166.1 P132 BE132MA4**	396
11.2	5850	1.4	156.8	60320	**A803_156.8 S4 ME4LA4**	390	**A803_156.8 P132 BE132MA4**	388
11.7	5634	2.3	151.0	69675	**A903_151.0 S4 ME4LA4**	398	**A903_151.0 P132 BE132MA4**	396
12.2	5400	1.5	144.7	60320	**A803_144.7 S4 ME4LA4**	390	**A803_144.7 P132 BE132MA4**	388
12.4	5293	0.9	141.9	44960	**A703_141.9 S4 ME4LA4**	382	**A703_141.9 P132 BE132MA4**	380
12.6	5201	2.3	139.4	69675	**A903_139.4 S4 ME4LA4**	398	**A903_139.4 P132 BE132MA4**	396
13.5	4875	1.0	130.7	44960	**A703_130.7 S4 ME4LA4**	382	**A703_130.7 P132 BE132MA4**	380
13.9	4725	2.6	126.6	69675	**A903_126.6 S4 ME4LA4**	398	**A903_126.6 P132 BE132MA4**	396
14.0	4687	1.7	125.6	60320	**A803_125.6 S4 ME4LA4**	390	**A803_125.6 P132 BE132MA4**	388
14.6	4500	1.1	120.6	46350	**A703_120.6 S4 ME4LA4**	382	**A703_120.6 P132 BE132MA4**	380
15.2	4326	1.8	116.0	60320	**A803_116.0 S4 ME4LA4**	390	**A803_116.0 P132 BE132MA4**	388
16.9	3889	1.3	104.2	46350	**A703_104.2 S4 ME4LA4**	382	**A703_104.2 P132 BE132MA4**	380
16.9	3881	2.1	104.0	60320	**A803_104.0 S4 ME4LA4**	390	**A803_104.0 P132 BE132MA4**	388
18.3	3590	1.4	96.2	46350	**A703_96.2 S4 ME4LA4**	382	**A703_96.2 P132 BE132MA4**	380
18.3	3583	2.1	96.0	60320	**A803_96.0 S4 ME4LA4**	390	**A803_96.0 P132 BE132MA4**	388
19.7	3327	2.3	89.2	60320	**A803_89.2 S4 ME4LA4**	390	**A803_89.2 P132 BE132MA4**	388
20.5	3206	1.5	85.9	46350	**A703_85.9 S4 ME4LA4**	382	**A703_85.9 P132 BE132MA4**	380
21.4	3071	2.4	82.3	60320	**A803_82.3 S4 ME4LA4**	390	**A803_82.3 P132 BE132MA4**	388
22.1	2974	0.9	79.7	27810	**A603_79.7 S4 ME4LA4**	372	**A603_79.7 P132 BE132MA4**	370
22.2	2960	1.6	79.3	46350	**A703_79.3 S4 ME4LA4**	382	**A703_79.3 P132 BE132MA4**	380
24.3	2706	1.8	72.5	46350	**A703_72.5 S4 ME4LA4**	382	**A703_72.5 P132 BE132MA4**	380
24.3	2700	2.7	72.4	60320	**A803_72.4 S4 ME4LA4**	390	**A803_72.4 P132 BE132MA4**	388
25.0	2627	1.1	70.4	27810	**A603_70.4 S4 ME4LA4**	372	**A603_70.4 P132 BE132MA4**	370
26.3	2498	1.9	66.9	46350	**A703_66.9 S4 ME4LA4**	382	**A703_66.9 P132 BE132MA4**	380
26.3	2492	3.0	66.8	60320	**A803_66.8 S4 ME4LA4**	390	**A803_66.8 P132 BE132MA4**	388



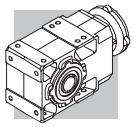
7.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
27.1	2425	1.2	65.0	27810	**A603_65.0 S4 ME4LA4**	372	**A603_65.0 P132 BE132MA4**	370
31	2152	2.2	57.7	46350	**A703_57.7 S4 ME4LA4**	382	**A703_57.7 P132 BE132MA4**	380
32	2075	1.3	55.6	27810	**A603_55.6 S4 ME4LA4**	372	**A603_55.6 P132 BE132MA4**	370
33	1986	2.3	53.2	46350	**A703_53.2 S4 ME4LA4**	382	**A703_53.2 P132 BE132MA4**	380
34	1915	1.5	51.3	27810	**A603_51.3 S4 ME4LA4**	372	**A603_51.3 P132 BE132MA4**	370
35	1901	1.1	51.0	26298	**A553_51.0 S4 ME4LA4**	362	**A553_51.0 P132 BE132MA4**	360
36	1828	2.5	49.0	46350	**A703_49.0 S4 ME4LA4**	382	**A703_49.0 P132 BE132MA4**	380
39	1688	2.6	45.2	46350	**A703_45.2 S4 ME4LA4**	382	**A703_45.2 P132 BE132MA4**	380
39	1686	1.7	45.2	27810	**A603_45.2 S4 ME4LA4**	372	**A603_45.2 P132 BE132MA4**	370
42	1556	1.8	41.7	27810	**A603_41.7 S4 ME4LA4**	372	**A603_41.7 P132 BE132MA4**	370
43	1527	0.9	40.9	9893	**A503_40.9 S4 ME4LA4**	352	**A503_40.9 P132 BE132MA4**	350
44	1504	1.2	40.3	27780	**A553_40.3 S4 ME4LA4**	362	**A553_40.3 P132 BE132MA4**	360
49	1328	1.0	35.6	9252	**A503_35.6 S4 ME4LA4**	352	**A503_35.6 P132 BE132MA4**	350
51	1280	2.2	34.3	27810	**A603_34.3 S4 ME4LA4**	372	**A603_34.3 P132 BE132MA4**	370
54	1208	1.2	32.4	9435	**A503_32.4 S4 ME4LA4**	352	**A503_32.4 P132 BE132MA4**	350
56	1181	2.4	31.7	27810	**A603_31.7 S4 ME4LA4**	372	**A603_31.7 P132 BE132MA4**	370
59	1117	1.7	29.9	27780	**A553_29.9 S4 ME4LA4**	362	**A553_29.9 P132 BE132MA4**	360
63	1039	2.7	27.9	27810	**A603_27.9 S4 ME4LA4**	372	**A603_27.9 P132 BE132MA4**	370
67	986	1.4	26.4	9801	**A503_26.4 S4 ME4LA4**	352	**A503_26.4 P132 BE132MA4**	350
68	959	2.9	25.7	27810	**A603_25.7 S4 ME4LA4**	372	**A603_25.7 P132 BE132MA4**	370
73	897	1.5	24.0	9893	**A503_24.0 S4 ME4LA4**	352	**A503_24.0 P132 BE132MA4**	350
74	888	2.0	23.8	26669	**A553_23.8 S4 ME4LA4**	362	**A553_23.8 P132 BE132MA4**	360
84	806	1.4	20.9	12549	**A502_20.9 S4 ME4LA4**	352	**A502_20.9 P132 BE132MA4**	350
85	794	2.3	20.6	27810	**A602_20.6 S4 ME4LA4**	372	**A602_20.6 P132 BE132MA4**	370
92	741	2.3	19.2	26669	**A552_19.2 S4 ME4LA4**	362	**A552_19.2 P132 BE132MA4**	360
105	645	2.9	16.7	27810	**A602_16.7 S4 ME4LA4**	372	**A602_16.7 P132 BE132MA4**	370
106	639	1.7	16.6	11908	**A502_16.6 S4 ME4LA4**	352	**A502_16.6 P132 BE132MA4**	350
109	620	0.9	16.1	7510	**A412_16.1 S4 ME4LA4**	342	**A412_16.1 P132 BE132MA4**	340
112	604	2.8	15.7	25280	**A552_15.7 S4 ME4LA4**	362	**A552_15.7 P132 BE132MA4**	360
128	530	1.0	13.8	7455	**A412_13.8 S4 ME4LA4**	342	**A412_13.8 P132 BE132MA4**	340
134	505	2.0	13.1	11267	**A502_13.1 S4 ME4LA4**	352	**A502_13.1 P132 BE132MA4**	350
150	452	1.1	11.7	7308	**A412_11.7 S4 ME4LA4**	342	**A412_11.7 P132 BE132MA4**	340
166	410	0.9	10.6	5315	**A352_10.6 S4 ME4LA4**	332	**A352_10.6 P132 BE132MA4**	330
174	390	1.3	10.1	7198	**A412_10.1 S4 ME4LA4**	342	**A412_10.1 P132 BE132MA4**	340
181	375	2.5	9.7	10534	**A502_9.7 S4 ME4LA4**	352	**A502_9.7 P132 BE132MA4**	350
189	359	1.0	9.3	5232	**A352_9.3 S4 ME4LA4**	332	**A352_9.3 P132 BE132MA4**	330
191	354	1.4	9.2	7070	**A412_9.2 S4 ME4LA4**	342	**A412_9.2 P132 BE132MA4**	340
208	326	1.1	8.5	5186	**A352_8.5 S4 ME4LA4**	332	**A352_8.5 P132 BE132MA4**	330
211	321	1.6	8.3	6960	**A412_8.3 S4 ME4LA4**	342	**A412_8.3 P132 BE132MA4**	340
227	298	3.0	7.7	9893	**A502_7.7 S4 ME4LA4**	352	**A502_7.7 P132 BE132MA4**	350
247	275	1.9	7.1	6758	**A412_7.1 S4 ME4LA4**	342	**A412_7.1 P132 BE132MA4**	340
251	271	1.3	7.0	5084	**A352_7.0 S4 ME4LA4**	332	**A352_7.0 P132 BE132MA4**	330
275	247	1.3	6.4	5000	**A352_6.4 S4 ME4LA4**	332	**A352_6.4 P132 BE132MA4**	330
325	209	1.5	5.4	4880	**A352_5.4 S4 ME4LA4**	332	**A352_5.4 P132 BE132MA4**	330
336	202	2.5	5.2	6346	**A412_5.2 S4 ME4LA4**	342	**A412_5.2 P132 BE132MA4**	340



9.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
5.8	13568	1.0	304.9	69675	**A904_304.9 S4 ME4LB4**	398	**A904_304.9 P132 BE132MB4**	396
6.3	12524	1.1	281.4	69675	**A904_281.4 S4 ME4LB4**	398	**A904_281.4 P132 BE132MB4**	396
7.8	10076	1.4	226.4	69675	**A904_226.4 S4 ME4LB4**	398	**A904_226.4 P132 BE132MB4**	396
8.4	9301	1.5	209.0	69675	**A904_209.0 S4 ME4LB4**	398	**A904_209.0 P132 BE132MB4**	396
9.8	8009	1.7	180.0	69675	**A904_180.0 S4 ME4LB4**	398	**A904_180.0 P132 BE132MB4**	396
10.3	7623	1.0	171.3	60320	**A804_171.3 S4 ME4LB4**	390	**A804_171.3 P132 BE132MB4**	388
10.6	7393	1.9	166.1	69675	**A904_166.1 S4 ME4LB4**	398	**A904_166.1 P132 BE132MB4**	396
11.2	7134	1.1	156.8	60320	**A803_156.8 S4 ME4LB4**	390	**A803_156.8 P132 BE132MB4**	388
11.7	6871	1.9	151.0	69675	**A903_151.0 S4 ME4LB4**	398	**A903_151.0 P132 BE132MB4**	396
12.2	6586	1.2	144.7	60320	**A803_144.7 S4 ME4LB4**	390	**A803_144.7 P132 BE132MB4**	388
12.6	6342	1.9	139.4	69675	**A903_139.4 S4 ME4LB4**	398	**A903_139.4 P132 BE132MB4**	396
13.9	5762	2.1	126.6	69675	**A903_126.6 S4 ME4LB4**	398	**A903_126.6 P132 BE132MB4**	396
14.0	5716	1.4	125.6	60320	**A803_125.6 S4 ME4LB4**	390	**A803_125.6 P132 BE132MB4**	388
14.6	5488	0.9	120.6	46350	**A703_120.6 S4 ME4LB4**	382	**A703_120.6 P132 BE132MB4**	380
15.1	5319	2.6	116.9	69675	**A903_116.9 S4 ME4LB4**	398	**A903_116.9 P132 BE132MB4**	396
15.2	5276	1.5	116.0	60320	**A803_116.0 S4 ME4LB4**	390	**A803_116.0 P132 BE132MB4**	388
16.5	4860	2.9	106.8	69675	**A903_106.8 S4 ME4LB4**	398	**A903_106.8 P132 BE132MB4**	396
16.9	4743	1.1	104.2	46350	**A703_104.2 S4 ME4LB4**	382	**A703_104.2 P132 BE132MB4**	380
16.9	4733	1.7	104.0	60320	**A803_104.0 S4 ME4LB4**	390	**A803_104.0 P132 BE132MB4**	388
18.3	4378	1.1	96.2	46350	**A703_96.2 S4 ME4LB4**	382	**A703_96.2 P132 BE132MB4**	380
18.3	4369	1.7	96.0	60320	**A803_96.0 S4 ME4LB4**	390	**A803_96.0 P132 BE132MB4**	388
19.7	4058	1.9	89.2	60320	**A803_89.2 S4 ME4LB4**	390	**A803_89.2 P132 BE132MB4**	388
20.5	3910	1.3	85.9	46350	**A703_85.9 S4 ME4LB4**	382	**A703_85.9 P132 BE132MB4**	380
21.4	3746	2.0	82.3	60320	**A803_82.3 S4 ME4LB4**	390	**A803_82.3 P132 BE132MB4**	388
22.2	3609	1.3	79.3	46350	**A703_79.3 S4 ME4LB4**	382	**A703_79.3 P132 BE132MB4**	380
24.3	3300	1.4	72.5	46350	**A703_72.5 S4 ME4LB4**	382	**A703_72.5 P132 BE132MB4**	380
24.3	3293	2.2	72.4	60320	**A803_72.4 S4 ME4LB4**	390	**A803_72.4 P132 BE132MB4**	388
26.3	3046	1.5	66.9	46350	**A703_66.9 S4 ME4LB4**	382	**A703_66.9 P132 BE132MB4**	380
26.3	3040	2.4	66.8	59206	**A803_66.8 S4 ME4LB4**	390	**A803_66.8 P132 BE132MB4**	388
27.1	2957	0.9	65.0	27810	**A603_65.0 S4 ME4LB4**	372	**A603_65.0 P132 BE132MB4**	370
29.4	2720	2.7	59.8	57907	**A803_59.8 S4 ME4LB4**	390	**A803_59.8 P132 BE132MB4**	388
31	2624	1.8	57.7	46350	**A703_57.7 S4 ME4LB4**	382	**A703_57.7 P132 BE132MB4**	380
32	2530	1.1	55.6	27810	**A603_55.6 S4 ME4LB4**	372	**A603_55.6 P132 BE132MB4**	370
32	2511	2.9	55.2	56886	**A803_55.2 S4 ME4LB4**	390	**A803_55.2 P132 BE132MB4**	388
33	2422	1.9	53.2	46350	**A703_53.2 S4 ME4LB4**	382	**A703_53.2 P132 BE132MB4**	380
34	2335	1.2	51.3	27810	**A603_51.3 S4 ME4LB4**	372	**A603_51.3 P132 BE132MB4**	370
36	2230	2.1	49.0	46350	**A703_49.0 S4 ME4LB4**	382	**A703_49.0 P132 BE132MB4**	380
39	2058	2.2	45.2	46350	**A703_45.2 S4 ME4LB4**	382	**A703_45.2 P132 BE132MB4**	380
39	2056	1.4	45.2	27810	**A603_45.2 S4 ME4LB4**	372	**A603_45.2 P132 BE132MB4**	370
42	1898	1.5	41.7	27810	**A603_41.7 S4 ME4LB4**	372	**A603_41.7 P132 BE132MB4**	370
44	1834	1.0	40.3	26391	**A553_40.3 S4 ME4LB4**	362	**A553_40.3 P132 BE132MB4**	360
46	1746	2.6	38.4	46350	**A703_38.4 S4 ME4LB4**	382	**A703_38.4 P132 BE132MB4**	380
50	1612	2.6	35.4	46350	**A703_35.4 S4 ME4LB4**	382	**A703_35.4 P132 BE132MB4**	380
51	1561	1.8	34.3	27810	**A603_34.3 S4 ME4LB4**	372	**A603_34.3 P132 BE132MB4**	370
54	1473	0.9	32.4	8702	**A503_32.4 S4 ME4LB4**	352	**A503_32.4 P132 BE132MB4**	350
56	1441	1.9	31.7	27810	**A603_31.7 S4 ME4LB4**	372	**A603_31.7 P132 BE132MB4**	370
59	1362	1.4	29.9	26947	**A553_29.9 S4 ME4LB4**	362	**A553_29.9 P132 BE132MB4**	360
63	1267	2.2	27.9	27810	**A603_27.9 S4 ME4LB4**	372	**A603_27.9 P132 BE132MB4**	370
67	1203	1.2	26.4	8363	**A503_26.4 S4 ME4LB4**	352	**A503_26.4 P132 BE132MB4**	350
68	1170	2.4	25.7	27810	**A603_25.7 S4 ME4LB4**	372	**A603_25.7 P132 BE132MB4**	370
73	1094	1.3	24.0	8583	**A503_24.0 S4 ME4LB4**	352	**A503_24.0 P132 BE132MB4**	350
74	1082	1.7	23.8	25835	**A553_23.8 S4 ME4LB4**	362	**A553_23.8 P132 BE132MB4**	360
84	983	1.1	20.9	11908	**A502_20.9 S4 ME4LB4**	352	**A502_20.9 P132 BE132MB4**	350
85	968	1.9	20.6	27810	**A602_20.6 S4 ME4LB4**	372	**A602_20.6 P132 BE132MB4**	370
92	904	1.8	19.2	26298	**A552_19.2 S4 ME4LB4**	362	**A552_19.2 P132 BE132MB4**	360
105	787	2.4	16.7	27810	**A602_16.7 S4 ME4LB4**	372	**A602_16.7 P132 BE132MB4**	370
106	779	1.4	16.6	11450	**A502_16.6 S4 ME4LB4**	352	**A502_16.6 P132 BE132MB4**	350

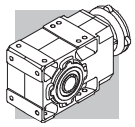


9.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
112	737	2.3	15.7	25002	**A552_15.7 S4 ME4LB4**	362	**A552_15.7 P132 BE132MB4**	360
134	616	1.7	13.1	10900	**A502_13.1 S4 ME4LB4**	352	**A502_13.1 P132 BE132MB4**	350
135	615	2.7	13.1	23891	**A552_13.1 S4 ME4LB4**	362	**A552_13.1 P132 BE132MB4**	360
135	614	0.9	13.1	4862	**A352_13.1 S4 ME4LB4**	332	**A352_13.1 P132 BE132MB4**	330
150	552	0.9	11.7	6731	**A412_11.7 S4 ME4LB4**	342	**A412_11.7 P132 BE132MB4**	340
174	476	1.0	10.1	6731	**A412_10.1 S4 ME4LB4**	342	**A412_10.1 P132 BE132MB4**	340
181	457	2.0	9.7	10259	**A502_9.7 S4 ME4LB4**	352	**A502_9.7 P132 BE132MB4**	350
191	432	1.2	9.2	6648	**A412_9.2 S4 ME4LB4**	342	**A412_9.2 P132 BE132MB4**	340
211	392	1.3	8.3	6575	**A412_8.3 S4 ME4LB4**	342	**A412_8.3 P132 BE132MB4**	340
227	364	2.4	7.7	9710	**A502_7.7 S4 ME4LB4**	352	**A502_7.7 P132 BE132MB4**	350
247	335	1.5	7.1	6437	**A412_7.1 S4 ME4LB4**	342	**A412_7.1 P132 BE132MB4**	340
251	330	1.0	7.0	4732	**A352_7.0 S4 ME4LB4**	332	**A352_7.0 P132 BE132MB4**	330
275	301	1.1	6.4	4695	**A352_6.4 S4 ME4LB4**	332	**A352_6.4 P132 BE132MB4**	330
325	254	1.2	5.4	4611	**A352_5.4 S4 ME4LB4**	332	**A352_5.4 P132 BE132MB4**	330
336	247	2.1	5.2	6107	**A412_5.2 S4 ME4LB4**	342	**A412_5.2 P132 BE132MB4**	340

11 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
6.3	15029	0.9	281.4	69675			**A904_281.4 P160 BE160M4**	396
7.8	12091	1.2	226.4	69675			**A904_226.4 P160 BE160M4**	396
8.4	11161	1.3	209.0	69675			**A904_209.0 P160 BE160M4**	396
9.8	9610	1.5	180.0	69675			**A904_180.0 P160 BE160M4**	396
10.6	8871	1.6	166.1	69675			**A904_166.1 P160 BE160M4**	396
11.3	8561	0.9	156.8	58464	**A803_156.8 S5 ME5SA4**	390	**A803_156.8 P160 BE160M4**	388
11.7	8245	1.5	151.0	69675	**A903_151.0 S5 ME5SA4**	398	**A903_151.0 P160 BE160M4**	396
12.2	7903	1.0	144.7	58464	**A803_144.7 S5 ME5SA4**	390	**A803_144.7 P160 BE160M4**	388
12.7	7611	1.6	139.4	69675	**A903_139.4 S5 ME5SA4**	398	**A903_139.4 P160 BE160M4**	396
13.9	6915	1.8	126.6	69675	**A903_126.6 S5 ME5SA4**	398	**A903_126.6 P160 BE160M4**	396
14.1	6859	1.2	125.6	60320	**A803_125.6 S5 ME5SA4**	390	**A803_125.6 P160 BE160M4**	388
15.1	6383	2.2	116.9	69675	**A903_116.9 S5 ME5SA4**	398	**A903_116.9 P160 BE160M4**	396
15.2	6331	1.3	116.0	60320	**A803_116.0 S5 ME5SA4**	390	**A803_116.0 P160 BE160M4**	388
16.5	5832	2.4	106.8	69675	**A903_106.8 S5 ME5SA4**	398	**A903_106.8 P160 BE160M4**	396
17.0	5680	1.4	104.0	60320	**A803_104.0 S5 ME5SA4**	390	**A803_104.0 P160 BE160M4**	388
17.9	5384	2.6	98.6	69675	**A903_98.6 S5 ME5SA4**	398	**A903_98.6 P160 BE160M4**	396
18.3	5254	0.9	96.2	46350	**A703_96.2 S5 ME5SA4**	382	**A703_96.2 P160 BE160M4**	380
18.4	5243	1.4	96.0	60320	**A803_96.0 S5 ME5SA4**	390	**A803_96.0 P160 BE160M4**	388
19.8	4869	1.6	89.2	60320	**A803_89.2 S5 ME5SA4**	390	**A803_89.2 P160 BE160M4**	388
20.3	4754	2.9	87.1	69675	**A903_87.1 S5 ME5SA4**	398	**A903_87.1 P160 BE160M4**	396
20.5	4692	1.1	85.9	46350	**A703_85.9 S5 ME5SA4**	382	**A703_85.9 P160 BE160M4**	380
21.4	4495	1.6	82.3	59856	**A803_82.3 S5 ME5SA4**	390	**A803_82.3 P160 BE160M4**	388
22.2	4331	1.1	79.3	46350	**A703_79.3 S5 ME5SA4**	382	**A703_79.3 P160 BE160M4**	380
24.3	3960	1.2	72.5	46350	**A703_72.5 S5 ME5SA4**	382	**A703_72.5 P160 BE160M4**	380
24.4	3951	1.9	72.4	58650	**A803_72.4 S5 ME5SA4**	390	**A803_72.4 P160 BE160M4**	388
26.4	3655	1.3	66.9	46350	**A703_66.9 S5 ME5SA4**	382	**A703_66.9 P160 BE160M4**	380
26.4	3647	2.0	66.8	57722	**A803_66.8 S5 ME5SA4**	390	**A803_66.8 P160 BE160M4**	388
29.5	3264	2.3	59.8	56515	**A803_59.8 S5 ME5SA4**	390	**A803_59.8 P160 BE160M4**	388
31	3149	1.5	57.7	46350	**A703_57.7 S5 ME5SA4**	382	**A703_57.7 P160 BE160M4**	380
32	3036	0.9	55.6	27810	**A603_55.6 S5 ME5SA4**	372	**A603_55.6 P160 BE160M4**	370
32	3013	2.4	55.2	55587	**A803_55.2 S5 ME5SA4**	390	**A803_55.2 P160 BE160M4**	388
33	2907	1.6	53.2	46350	**A703_53.2 S5 ME5SA4**	382	**A703_53.2 P160 BE160M4**	380

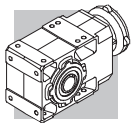


11 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
34	2802	1.0	51.3	27810	**A603_51.3 S5 ME5SA4**	372	**A603_51.3 P160 BE160M4**	370
36	2675	1.7	49.0	46350	**A703_49.0 S5 ME5SA4**	382	**A703_49.0 P160 BE160M4**	380
37	2631	2.8	48.2	54102	**A803_48.2 S5 ME5SA4**	390	**A803_48.2 P160 BE160M4**	388
39	2470	1.8	45.2	46350	**A703_45.2 S5 ME5SA4**	382	**A703_45.2 P160 BE160M4**	380
39	2467	1.1	45.2	27810	**A603_45.2 S5 ME5SA4**	372	**A603_45.2 P160 BE160M4**	370
40	2428	2.8	44.5	53174	**A803_44.5 S5 ME5SA4**	390	**A803_44.5 P160 BE160M4**	388
42	2278	1.2	41.7	27810	**A603_41.7 S5 ME5SA4**	372	**A603_41.7 P160 BE160M4**	370
46	2096	2.1	38.4	46350	**A703_38.4 S5 ME5SA4**	382	**A703_38.4 P160 BE160M4**	380
50	1935	2.2	35.4	46350	**A703_35.4 S5 ME5SA4**	382	**A703_35.4 P160 BE160M4**	380
51	1873	1.5	34.3	27810	**A603_34.3 S5 ME5SA4**	372	**A603_34.3 P160 BE160M4**	370
56	1729	1.6	31.7	27810	**A603_31.7 S5 ME5SA4**	372	**A603_31.7 P160 BE160M4**	370
59	1643	2.6	30.1	45794			**A703_30.1 P160 BE160M4**	380
59	1634	1.1	29.9	26113	**A553_29.9 S5 ME5SA4**	362	**A553_29.9 P160 BE160M4**	360
63	1521	1.8	27.9	27810	**A603_27.9 S5 ME5SA4**	372	**A603_27.9 P160 BE160M4**	370
64	1517	2.6	27.8	44960			**A703_27.8 P160 BE160M4**	380
67	1443	1.0	26.4	7694	**A503_26.4 S5 ME5SA4**	352	**A503_26.4 P160 BE160M4**	350
69	1404	2.0	25.7	27810	**A603_25.7 S5 ME5SA4**	372	**A603_25.7 P160 BE160M4**	370
73	1313	1.1	24.0	7145	**A503_24.0 S5 ME5SA4**	352	**A503_24.0 P160 BE160M4**	350
74	1299	1.4	23.8	24076	**A553_23.8 S5 ME5SA4**	362	**A553_23.8 P160 BE160M4**	360
84	1180	0.9	20.9	12000	**A502_20.9 S5 ME5SA4**	352	**A502_20.9 P160 BE160M4**	350
86	1162	1.6	20.6	27810	**A602_20.6 S5 ME5SA4**	372	**A602_20.6 P160 BE160M4**	370
92	1085	1.5	19.2	25835	**A552_19.2 S5 ME5SA4**	362	**A552_19.2 P160 BE160M4**	360
105	944	2.0	16.7	27810	**A602_16.7 S5 ME5SA4**	372	**A602_16.7 P160 BE160M4**	370
107	935	1.2	16.6	10992	**A502_16.6 S5 ME5SA4**	352	**A502_16.6 P160 BE160M4**	350
113	884	1.9	15.7	24632	**A552_15.7 S5 ME5SA4**	362	**A552_15.7 P160 BE160M4**	360
135	739	1.4	13.1	10534	**A502_13.1 S5 ME5SA4**	352	**A502_13.1 P160 BE160M4**	350
135	738	2.3	13.1	23520	**A552_13.1 S5 ME5SA4**	362	**A552_13.1 P160 BE160M4**	360
139	716	2.6	12.7	27810	**A602_12.7 S5 ME5SA4**	372	**A602_12.7 P160 BE160M4**	370
170	584	2.9	10.4	22224	**A552_10.4 S5 ME5SA4**	362	**A552_10.4 P160 BE160M4**	360
181	549	1.7	9.7	9893	**A502_9.7 S5 ME5SA4**	352	**A502_9.7 P160 BE160M4**	350
228	436	2.0	7.7	9435	**A502_7.7 S5 ME5SA4**	352	**A502_7.7 P160 BE160M4**	350

15 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
8.5	15068	0.9	209.0	69675			**A904_209.0 P160 BE160L4**	396
9.8	12974	1.1	180.0	69675			**A904_180.0 P160 BE160L4**	396
10.7	11976	1.2	166.1	69675			**A904_166.1 P160 BE160L4**	396
11.7	11131	1.1	151.0	69675	**A903_151.0 S5 ME5LA4**	398	**A903_151.0 P160 BE160L4**	396
12.7	10275	1.1	139.4	69675	**A903_139.4 S5 ME5LA4**	398	**A903_139.4 P160 BE160L4**	396
14.0	9335	1.3	126.6	69675	**A903_126.6 S5 ME5LA4**	398	**A903_126.6 P160 BE160L4**	396
15.1	8617	1.6	116.9	69675	**A903_116.9 S5 ME5LA4**	398	**A903_116.9 P160 BE160L4**	396
15.3	8547	0.9	116.0	54938	**A803_116.0 S5 ME5LA4**	390	**A803_116.0 P160 BE160L4**	388
16.6	7874	1.8	106.8	69675	**A903_106.8 S5 ME5LA4**	398	**A903_106.8 P160 BE160L4**	396
17.0	7668	1.0	104.0	55494	**A803_104.0 S5 ME5LA4**	390	**A803_104.0 P160 BE160L4**	388
18.0	7268	1.9	98.6	69675	**A903_98.6 S5 ME5LA4**	398	**A903_98.6 P160 BE160L4**	396
18.4	7078	1.1	96.0	56237	**A803_96.0 S5 ME5LA4**	390	**A803_96.0 P160 BE160L4**	388
19.8	6573	1.2	89.2	56051	**A803_89.2 S5 ME5LA4**	390	**A803_89.2 P160 BE160L4**	388
20.3	6418	2.2	87.1	69675	**A903_87.1 S5 ME5LA4**	398	**A903_87.1 P160 BE160L4**	396
21.5	6068	1.2	82.3	55494	**A803_82.3 S5 ME5LA4**	390	**A803_82.3 P160 BE160L4**	388

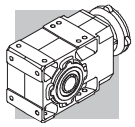


15 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
22.0	5924	2.4	80.4	69675	**A903_80.4 S5 ME5LA4**	398	**A903_80.4 P160 BE160L4**	396
23.8	5490	2.6	74.5	69675	**A903_74.5 S5 ME5LA4**	398	**A903_74.5 P160 BE160L4**	396
24.5	5334	1.4	72.4	54845	**A803_72.4 S5 ME5LA4**	390	**A803_72.4 P160 BE160L4**	388
25.7	5068	2.7	68.8	69675	**A903_68.8 S5 ME5LA4**	398	**A903_68.8 P160 BE160L4**	396
26.4	4934	0.9	66.9	45608	**A703_66.9 S5 ME5LA4**	382	**A703_66.9 P160 BE160L4**	380
26.5	4924	1.5	66.8	54102	**A803_66.8 S5 ME5LA4**	390	**A803_66.8 P160 BE160L4**	388
29.6	4406	1.7	59.8	53360	**A803_59.8 S5 ME5LA4**	390	**A803_59.8 P160 BE160L4**	388
31	4251	1.1	57.7	46350	**A703_57.7 S5 ME5LA4**	382	**A703_57.7 P160 BE160L4**	380
32	4067	1.8	55.2	52618	**A803_55.2 S5 ME5LA4**	390	**A803_55.2 P160 BE160L4**	388
33	3924	1.2	53.2	46350	**A703_53.2 S5 ME5LA4**	382	**A703_53.2 P160 BE160L4**	380
36	3612	1.3	49.0	46350	**A703_49.0 S5 ME5LA4**	382	**A703_49.0 P160 BE160L4**	380
37	3552	2.1	48.2	51504	**A803_48.2 S5 ME5LA4**	390	**A803_48.2 P160 BE160L4**	388
39	3334	1.3	45.2	46350	**A703_45.2 S5 ME5LA4**	382	**A703_45.2 P160 BE160L4**	380
40	3278	2.1	44.5	50762	**A803_44.5 S5 ME5LA4**	390	**A803_44.5 P160 BE160L4**	388
42	3075	0.9	41.7	27810	**A603_41.7 S5 ME5LA4**	372	**A603_41.7 P160 BE160L4**	370
46	2838	2.5	38.5	47514			**A803_38.5 P160 BE160L4**	388
46	2829	1.6	38.4	46257	**A703_38.4 S5 ME5LA4**	382	**A703_38.4 P160 BE160L4**	380
50	2620	2.5	35.5	47328			**A803_35.5 P160 BE160L4**	388
50	2612	1.6	35.4	45516	**A703_35.4 S5 ME5LA4**	382	**A703_35.4 P160 BE160L4**	380
52	2528	1.1	34.3	27810	**A603_34.3 S5 ME5LA4**	372	**A603_34.3 P160 BE160L4**	370
56	2334	1.2	31.7	27810	**A603_31.7 S5 ME5LA4**	372	**A603_31.7 P160 BE160L4**	370
58	2254	2.7	30.6	45936			**A803_30.6 P160 BE160L4**	388
59	2219	1.9	30.1	44125			**A703_30.1 P160 BE160L4**	380
63	2080	2.9	28.2	44080			**A803_28.2 P160 BE160L4**	388
64	2053	1.4	27.9	27810	**A603_27.9 S5 ME5LA4**	372	**A603_27.9 P160 BE160L4**	370
64	2048	1.9	27.8	43291			**A703_27.8 P160 BE160L4**	380
69	1895	1.5	25.7	27810	**A603_25.7 S5 ME5LA4**	372	**A603_25.7 P160 BE160L4**	370
74	1754	1.0	23.8	20928	**A553_23.8 S5 ME5LA4**	362	**A553_23.8 P160 BE160L4**	360
75	1734	2.3	23.5	41808			**A703_23.5 P160 BE160L4**	380
83	1570	2.4	21.3	40881	**A703_21.3 S5 ME5LA4**	382	**A703_21.3 P160 BE160L4**	380
86	1568	1.2	20.6	27810	**A602_20.6 S5 ME5LA4**	372	**A602_20.6 P160 BE160L4**	370
90	1450	2.4	19.7	40139	**A703_19.7 S5 ME5LA4**	382	**A703_19.7 P160 BE160L4**	380
92	1464	1.1	19.2	24817	**A552_19.2 S5 ME5LA4**	362	**A552_19.2 P160 BE160L4**	360
106	1274	1.5	16.7	27810	**A602_16.7 S5 ME5LA4**	372	**A602_16.7 P160 BE160L4**	370
113	1194	1.4	15.7	23798	**A552_15.7 S5 ME5LA4**	362	**A552_15.7 P160 BE160L4**	360
135	998	1.0	13.1	9618	**A502_13.1 S5 ME5LA4**	352	**A502_13.1 P160 BE160L4**	350
135	996	1.7	13.1	22872	**A552_13.1 S5 ME5LA4**	362	**A552_13.1 P160 BE160L4**	360
139	967	1.9	12.7	27810	**A602_12.7 S5 ME5LA4**	372	**A602_12.7 P160 BE160L4**	370
171	788	2.1	10.4	21668	**A552_10.4 S5 ME5LA4**	362	**A552_10.4 P160 BE160L4**	360
172	785	2.4	10.3	27810	**A602_10.3 S5 ME5LA4**	372	**A602_10.3 P160 BE160L4**	370
182	741	1,3	9,7	9252	**A502_9.7 S5 ME5LA4**	352	**A502_9.7 P160 BE160L4**	350
209	644	2,6	8,5	20557	**A552_8.5 S5 ME5LA4**	362	**A552_8.5 P160 BE160L4**	360
229	589	1,5	7,7	8931	**A502_7.7 S5 ME5LA4**	352	**A502_7.7 P160 BE160L4**	350

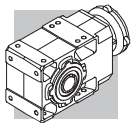
18.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
10.6	14785	0.9	166.1	69675			**A904_166.1 P180 BE180M4**	396
11.7	13742	0.9	151.0	69675			**A903_151.0 P180 BE180M4**	396
12.7	12685	0.9	139.4	69675			**A903_139.4 P180 BE180M4**	396
13.9	11525	1.1	126.6	69675			**A903_126.6 P180 BE180M4**	396
15.1	10638	1.3	116.9	69675			**A903_116.9 P180 BE180M4**	396
16.5	9721	1.4	106.8	69675			**A903_106.8 P180 BE180M4**	396



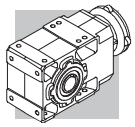
18.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
17.9	8973	1.6	98.6	69675			**A903_98.6 P180 BE180M4**	396
19.8	8115	1.0	89.2	52989			**A803_89.2 P180 BE180M4**	388
20.3	7923	1.8	87.1	69675			**A903_87.1 P180 BE180M4**	396
21.4	7491	1.0	82.3	51226			**A803_82.3 P180 BE180M4**	388
22.0	7314	1.9	80.4	69675			**A903_80.4 P180 BE180M4**	396
23.7	6778	2.1	74.5	69675			**A903_74.5 P180 BE180M4**	396
24.4	6586	1.1	72.4	51597			**A803_72.4 P180 BE180M4**	388
25.7	6256	2.2	68.8	69675			**A903_68.8 P180 BE180M4**	396
26.4	6079	1.2	66.8	51133			**A803_66.8 P180 BE180M4**	388
29.5	5440	1.4	59.8	50762			**A803_59.8 P180 BE180M4**	388
29.6	5425	2.5	59.6	69675			**A903_59.6 P180 BE180M4**	396
32	5022	1.5	55.2	50205			**A803_55.2 P180 BE180M4**	388
32	5008	2.6	55.0	69582			**A903_55.0 P180 BE180M4**	396
33	4844	1.0	53.2	43569			**A703_53.2 P180 BE180M4**	380
36	4459	1.0	49.0	45979			**A703_49.0 P180 BE180M4**	380
37	4395	2.9	48.3	67910			**A903_48.3 P180 BE180M4**	396
37	4385	1.7	48.2	49370			**A803_48.2 P180 BE180M4**	388
39	4116	1.1	45.2	45423			**A703_45.2 P180 BE180M4**	380
40	4047	1.7	44.5	48720			**A803_44.5 P180 BE180M4**	388
46	3504	2.0	38.5	47699			**A803_38.5 P180 BE180M4**	388
46	3493	1.3	38.4	44496			**A703_38.4 P180 BE180M4**	380
50	3234	2.0	35.5	46957			**A803_35.5 P180 BE180M4**	388
50	3224	1.3	35.4	43847			**A703_35.4 P180 BE180M4**	380
56	2881	1.0	31.7	27810			**A603_31.7 P180 BE180M4**	370
58	2782	2.1	30.6	45750			**A803_30.6 P180 BE180M4**	388
59	2739	1.5	30.1	42735			**A703_30.1 P180 BE180M4**	380
63	2568	2.4	28.2	45008			**A803_28.2 P180 BE180M4**	388
63	2535	1.1	27.9	27810			**A603_27.9 P180 BE180M4**	370
64	2528	1.5	27.8	41993			**A703_27.8 P180 BE180M4**	380
69	2340	1.2	25.7	27810			**A603_25.7 P180 BE180M4**	370
72	2230	2.8	24.5	43802			**A803_24.5 P180 BE180M4**	388
75	2140	1.9	23.5	40695			**A703_23.5 P180 BE180M4**	380
78	2058	2.8	22.6	42966			**A803_22.6 P180 BE180M4**	388
83	1939	1.9	21.3	39861			**A703_21.3 P180 BE180M4**	380
86	1936	1.0	20.6	27810			**A602_20.6 P180 BE180M4**	370
90	1790	1.9	19.7	39212			**A703_19.7 P180 BE180M4**	380
92	1808	0.9	19.2	24076			**A552_19.2 P180 BE180M4**	360
105	1573	1.2	16.7	27810			**A602_16.7 P180 BE180M4**	370
106	1519	2.4	16.7	37822			**A703_16.7 P180 BE180M4**	380
113	1474	1.1	15.7	23150			**A552_15.7 P180 BE180M4**	360
115	1402	2.4	15.4	37173			**A703_15.4 P180 BE180M4**	380
135	1191	3.0	13.1	35782			**A703_13.1 P180 BE180M4**	380
135	1229	1.4	13.1	22317			**A552_13.1 P180 BE180M4**	360
139	1194	1.6	12.7	27810			**A602_12.7 P180 BE180M4**	370
146	1099	3.0	12.1	35041			**A703_12.1 P180 BE180M4**	380
170	973	1.7	10.4	21205			**A552_10.4 P180 BE180M4**	360
171	970	1.9	10.3	27717			**A602_10.3 P180 BE180M4**	370
181	915	1.0	9.7	8729			**A502_9.7 P180 BE180M4**	350
209	795	2.1	8.5	20279			**A552_8.5 P180 BE180M4**	360
224	739	2.5	7.9	25863			**A602_7.9 P180 BE180M4**	370
228	727	1.2	7.7	8482			**A502_7.7 P180 BE180M4**	350
275	603	2.6	6.4	18890			**A552_6.4 P180 BE180M4**	360



22 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
15.1	12660	1.1	116.9	69675			**A903_116.9 P180 BE180L4**	396
16.6	11568	1.2	106.8	69675			**A903_106.8 P180 BE180L4**	396
18.0	10678	1.3	98.6	69675			**A903_98.6 P180 BE180L4**	396
20.3	9429	1.5	87.1	69675			**A903_87.1 P180 BE180L4**	396
22.0	8703	1.6	80.4	69675			**A903_80.4 P180 BE180L4**	396
23.8	8065	1.7	74.5	69675			**A903_74.5 P180 BE180L4**	396
24.5	7837	0.9	72.4	47792			**A803_72.4 P180 BE180L4**	388
25.7	7445	1.8	68.8	69675			**A903_68.8 P180 BE180L4**	396
26.5	7234	1.0	66.8	48163			**A803_66.8 P180 BE180L4**	388
29.6	6474	1.1	59.8	48070			**A803_59.8 P180 BE180L4**	388
29.7	6456	2.1	59.6	68560			**A903_59.6 P180 BE180L4**	396
32	5976	1.2	55.2	47699			**A803_55.2 P180 BE180L4**	388
32	5959	2.2	55.0	67538			**A903_55.0 P180 BE180L4**	396
37	5230	2.5	48.3	66052			**A903_48.3 P180 BE180L4**	396
37	5218	1.4	48.2	47235			**A803_48.2 P180 BE180L4**	388
39	4898	0.9	45.2	42179			**A703_45.2 P180 BE180L4**	380
40	4828	2.7	44.6	65030			**A903_44.6 P180 BE180L4**	396
40	4816	1.4	44.5	46678			**A803_44.5 P180 BE180L4**	388
46	4169	1.7	38.5	45936			**A803_38.5 P180 BE180L4**	388
46	4157	1.1	38.4	42642			**A703_38.4 P180 BE180L4**	380
50	3848	1.7	35.5	45379			**A803_35.5 P180 BE180L4**	388
50	3837	1.1	35.4	42179			**A703_35.4 P180 BE180L4**	380
58	3311	1.8	30.6	44358			**A803_30.6 P180 BE180L4**	388
59	3260	1.3	30.1	41252			**A703_30.1 P180 BE180L4**	380
63	3056	2.0	28.2	43709			**A803_28.2 P180 BE180L4**	388
64	3016	0.9	27.9	27810			**A603_27.9 P180 BE180L4**	370
64	3009	1.3	27.8	40695			**A703_27.8 P180 BE180L4**	380
69	2784	1.0	25.7	27810			**A603_25.7 P180 BE180L4**	370
72	2653	2.4	24.5	42595			**A803_24.5 P180 BE180L4**	388
75	2547	1.6	23.5	39583			**A703_23.5 P180 BE180L4**	380
78	2449	2.4	22.6	41946			**A803_22.6 P180 BE180L4**	388
83	2307	1.6	21.3	38841			**A703_21.3 P180 BE180L4**	380
84	2269	2.7	20.9	41389			**A803_20.9 P180 BE180L4**	388
90	2130	1.6	19.7	38192			**A703_19.7 P180 BE180L4**	380
92	2094	2.7	19.3	40646			**A803_19.3 P180 BE180L4**	388
106	1872	1.0	16.7	27810			**A602_16.7 P180 BE180L4**	370
106	1807	2.1	16.7	36987			**A703_16.7 P180 BE180L4**	380
113	1754	1.0	15.7	23243			**A552_15.7 P180 BE180L4**	360
115	1668	2.1	15.4	36338			**A703_15.4 P180 BE180L4**	380
135	1417	2.5	13.1	35133			**A703_13.1 P180 BE180L4**	380
135	1463	1.1	13.1	21761			**A552_13.1 P180 BE180L4**	360
139	1421	1.3	12.7	27810			**A602_12.7 P180 BE180L4**	370
147	1308	2.5	12.1	34484			**A703_12.1 P180 BE180L4**	380
171	1158	1.4	10.4	20742			**A552_10.4 P180 BE180L4**	360
172	1154	1.6	10.3	27161			**A602_10.3 P180 BE180L4**	370
173	1107	2.7	10.2	33187			**A703_10.2 P180 BE180L4**	380
188	1022	2.7	9.4	32538			**A703_9.4 P180 BE180L4**	380
209	947	1.8	8.5	19816			**A552_8.5 P180 BE180L4**	360
225	880	2.1	7.9	25493			**A602_7.9 P180 BE180L4**	370
229	865	1.0	7.7	8024			**A502_7.7 P180 BE180L4**	350
276	717	2.2	6.4	18613			**A552_6.4 P180 BE180L4**	360
358	553	2.7	4.9	17501			**A552_4.9 P180 BE180L4**	360



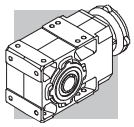
30 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
17.8	14536	1.0	98.6	63358			**A903_98.6 P200 IEC200L4**	396
20.2	12836	1.1	87.1	65123			**A903_87.1 P200 IEC200L4**	396
21.9	11848	1.2	80.4	65030			**A903_80.4 P200 IEC200L4**	396
23.6	10980	1.3	74.5	64751			**A903_74.5 P200 IEC200L4**	396
25.6	10135	1.3	68.8	64287			**A903_68.8 P200 IEC200L4**	396
29.5	8789	1.5	59.6	63637			**A903_59.6 P200 IEC200L4**	396
32	8113	1.6	55.0	62986			**A903_55.0 P200 IEC200L4**	396
36	7120	1.8	48.3	62150			**A903_48.3 P200 IEC200L4**	396
37	7103	1.0	48.2	42410			**A803_48.2 P200 IEC200L4**	388
39	6573	2.0	44.6	61314			**A903_44.6 P200 IEC200L4**	396
40	6557	1.1	44.5	42224			**A803_44.5 P200 IEC200L4**	388
45	5721	2.3	38.8	60106			**A903_38.8 P200 IEC200L4**	396
46	5676	1.2	38.5	42038			**A803_38.5 P200 IEC200L4**	388
49	5281	2.4	35.8	59270			**A903_35.8 P200 IEC200L4**	396
50	5239	1.2	35.5	41760			**A803_35.5 P200 IEC200L4**	388
56	4644	2.8	31.5	57970			**A903_31.5 P200 IEC200L4**	396
58	4508	1.3	30.6	41296			**A803_30.6 P200 IEC200L4**	388
58	4437	1.0	30.1	37822			**A703_30.1 P200 IEC200L4**	380
61	4287	2.8	29.1	57041			**A903_29.1 P200 IEC200L4**	396
62	4161	1.5	28.2	40832			**A803_28.2 P200 IEC200L4**	388
63	4096	1.0	27.8	37312			**A703_27.8 P200 IEC200L4**	380
72	3612	1.7	24.5	40182			**A803_24.5 P200 IEC200L4**	388
75	3467	1.1	23.5	37173			**A703_23.5 P200 IEC200L4**	380
78	3334	1.7	22.6	39626			**A803_22.6 P200 IEC200L4**	388
84	3088	2.0	20.9	39254			**A803_20.9 P200 IEC200L4**	388
91	2851	2.0	19.3	38698			**A803_19.3 P200 IEC200L4**	388
105	2468	2.5	16.7	37770			**A803_16.7 P200 IEC200L4**	388
105	2460	1.5	16.7	35319			**A703_16.7 P200 IEC200L4**	380
114	2278	2.5	15.5	37120			**A803_15.5 P200 IEC200L4**	388
114	2271	1.5	15.4	34763			**A703_15.4 P200 IEC200L4**	380
134	1929	1.8	13.1	33743			**A703_13.1 P200 IEC200L4**	380
146	1781	1.8	12.1	33187			**A703_12.1 P200 IEC200L4**	380
172	1508	2.0	10.2	32074			**A703_10.2 P200 IEC200L4**	380
186	1392	2.0	9.4	31518			**A703_9.4 P200 IEC200L4**	380

37 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
22.0	14591	1.0	80.4	62243			**A903_80.4 P225 IEC225S4**	396
23.7	13521	1.0	74.5	58899			**A903_74.5 P225 IEC225S4**	396
25.7	12481	1.1	68.8	59363			**A903_68.8 P225 IEC225S4**	396
29.6	10823	1.3	59.6	59363			**A903_59.6 P225 IEC225S4**	396
32	9991	1.3	55.0	59084			**A903_55.0 P225 IEC225S4**	396
37	8769	1.5	48.3	58620			**A903_48.3 P225 IEC225S4**	396
40	8094	1.6	44.6	58063			**A903_44.6 P225 IEC225S4**	396
45	7045	1.8	38.8	57319			**A903_38.8 P225 IEC225S4**	396
46	6989	1.0	38.5	38698			**A803_38.5 P225 IEC225S4**	388
49	6503	2.0	35.8	56669			**A903_35.8 P225 IEC225S4**	396
50	6452	1.0	35.5	38605			**A803_35.5 P225 IEC225S4**	388
56	5719	2.3	31.5	55647			**A903_31.5 P225 IEC225S4**	396
58	5551	1.1	30.6	38605			**A803_30.6 P225 IEC225S4**	388
61	5279	2.3	29.1	54904			**A903_29.1 P225 IEC225S4**	396
63	5124	1.2	28.2	38326			**A803_28.2 P225 IEC225S4**	388
72	4448	1.4	24.5	37955			**A803_24.5 P225 IEC225S4**	388
73	4377	2.8	24.1	53232			**A903_24.1 P225 IEC225S4**	396
78	4106	1.4	22.6	37584			**A803_22.6 P225 IEC225S4**	388
79	4040	2.8	22.3	52396			**A903_22.3 P225 IEC225S4**	396

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



37 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
84	3803	1.6	20.9	37398			**A803_20.9 P225 IEC225S4**	388
91	3511	1.6	19.3	36934			**A803_19.3 P225 IEC225S4**	388
105	3039	2.0	16.7	64125			**A803_16.7 P225 IEC225S4**	388
114	2805	2.0	15.5	35728			**A803_15.5 P225 IEC225S4**	388
133	2413	2.5	13.3	34893			**A803_13.3 P225 IEC225S4**	388
144	2228	2.5	12.3	34336			**A803_12.3 P225 IEC225S4**	388

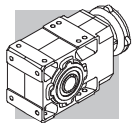
45 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
30	13129	1.0	59.6	55368			**A903_59.6 P225 IEC225M4**	396
32	12119	1.1	55.0	54718			**A903_55.0 P225 IEC225M4**	396
37	10637	1.2	48.3	52767			**A903_48.3 P225 IEC225M4**	396
40	9818	1.3	44.6	52024			**A903_44.6 P225 IEC225M4**	396
46	8546	1.5	38.8	53882			**A903_38.8 P225 IEC225M4**	396
49	7889	1.6	35.8	54347			**A903_35.8 P225 IEC225M4**	396
56	6937	1.9	31.5	51095			**A903_31.5 P225 IEC225M4**	396
61	6403	1.9	29.1	51095			**A903_29.1 P225 IEC225M4**	396
63	6215	1.0	28.2	35914			**A803_28.2 P225 IEC225M4**	388
72	5395	1.2	24.5	33594			**A803_24.5 P225 IEC225M4**	388
73	5309	2.3	24.1	48773			**A903_24.1 P225 IEC225M4**	396
78	4980	1.2	22.6	33408			**A803_22.6 P225 IEC225M4**	388
80	4901	2.3	22.3	48865			**A903_22.3 P225 IEC225M4**	396
84	4625	2.5	21.0	49237			**A903_21.0 P225 IEC225M4**	396
84	4613	1.3	20.9	36099			**A803_20.9 P225 IEC225M4**	388
91	4269	2.5	19.4	49051			**A903_19.4 P225 IEC225M4**	396
92	4259	1.3	19.3	35728			**A803_19.3 P225 IEC225M4**	388
105	3716	3.0	16.9	48308			**A903_16.9 P225 IEC225M4**	396
106	3686	1.6	16.7	34614			**A803_16.7 P225 IEC225M4**	388
114	3430	3.0	15.6	47472			**A903_15.6 P225 IEC225M4**	396
115	3403	1.6	15.5	34243			**A803_15.5 P225 IEC225M4**	388
133	2928	2.1	13.3	33594			**A803_13.3 P225 IEC225M4**	388
144	2702	2.1	12.3	33130			**A803_12.3 P225 IEC225M4**	388
166	2346	2.6	10.7	32387			**A803_10.7 P225 IEC225M4**	388
180	2165	2.6	9.8	31923			**A803_9.8 P225 IEC225M4**	388

55 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
37	12966	1.0	48.3	49051			**A903_48.3 P250 IEC250M4**	396
40	11969	1.1	44.6	50073			**A903_44.6 P250 IEC250M4**	396
46	10418	1.2	38.8	50259			**A903_38.8 P250 IEC250M4**	396
49	9617	1.3	35.8	50166			**A903_35.8 P250 IEC250M4**	396
56	8456	1.5	31.5	49980			**A903_31.5 P250 IEC250M4**	396
61	7806	1.5	29.1	49609			**A903_29.1 P250 IEC250M4**	396
73	6472	1.9	24.1	48865			**A903_24.1 P250 IEC250M4**	396
80	5974	1.9	22.3	48308			**A903_22.3 P250 IEC250M4**	396
84	5637	2.0	21.0	48029			**A903_21.0 P250 IEC250M4**	396
91	5204	2.1	19.4	47472			**A903_19.4 P250 IEC250M4**	396
105	4530	2.4	16.9	46543			**A903_16.9 P250 IEC250M4**	396
114	4181	2.4	15.6	45893			**A903_15.6 P250 IEC250M4**	396
129	3677	2.8	13.7	44964			**A903_13.7 P250 IEC250M4**	396
140	3394	2.9	12.6	44220			**A903_12.6 P250 IEC250M4**	396

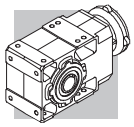
As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



A 10 — 150 Nm

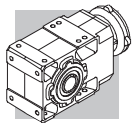
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 10 2_5.5	5.5	327	73	2.7	—	2224	218	73	1.8	1012	2613	306
A 10 2_6.3	6.3	286	80	2.5	—	2314	190	80	1.7	875	2719	
A 10 2_7.2	7.2	250	92	2.6	—	2350	167	93	1.7	664	2761	
A 10 2_8.5	8.5	212	92	2.2	—	2522	141	95	1.5	759	2963	
A 10 2_9.6	9.6	188	118	2.5	—	2396	125	128	1.8	—	2814	
A 10 2_10.6	10.6	170	139	2.6	737	2341	113	150	1.9	854	2751	
A 10 2_12.3	12.3	146	128	2.1	—	2604	98	144	1.6	—	3059	
A 10 2_13.9	13.9	129	139	2.0	983	2676	86	150	1.4	1138	3144	
A 10 2_16.4	16.4	110	140	1.7	1037	2893	73	150	1.2	1202	3398	
A 10 2_18.6	18.6	97	147	1.6	1074	3056	65	150	1.1	1244	3590	
A 10 2_21.4	21.4	84	150	1.4	1092	3254	56	150	0.94	1265	3823	
A 10 2_23.8	23.8	76	150	1.3	1110	3417	50	150	0.84	1286	4014	
A 10 2_25.5	25.5	71	150	1.2	1110	3526	47	150	0.79	1286	4142	
A 10 2_28.6	28.6	63	150	1.1	1138	3706	42	150	0.70	1300	4354	
A 10 2_32.2	32.2	56	150	0.93	1156	3896	37	150	0.62	1300	4577	
A 10 2_35.1	35.1	51	150	0.86	1156	4041	34	150	0.57	1300	4747	
A 10 2_40.9	40.9	44	150	0.74	1183	4312	29	150	0.49	1300	5066	
A 10 2_45.4	45.4	40	150	0.66	1183	4502	26.4	150	0.44	1300	5289	
A 10 2_51.3	51.3	35	150	0.59	1174	4737	23.4	150	0.39	1300	5500	
A 10 2_58.6	58.6	31	150	0.51	1183	4972	20.5	150	0.34	1300	5500	
A 10 2_65.9	65.9	27.3	150	0.46	1183	4972	18.2	150	0.30	1300	5500	
A 10 2_76.4	76.4	23.6	150	0.39	1183	4972	15.7	150	0.26	1300	5500	
A 10 2_91.6	91.6	19.7	130	0.28	1183	5160	13.1	130	0.19	1300	5500	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



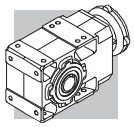
A 20 — 250 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 20 2_5.4	5.4	333	112	4.2	699	2198	222	127	3.1	810	2530	
A 20 2_6.5	6.5	277	125	3.9	554	2317	185	142	2.9	642	2667	
A 20 2_7.3	7.3	247	133	3.6	572	2382	164	150	2.7	663	2740	
A 20 2_8.4	8.4	214	135	3.2	590	2519	143	153	2.4	684	2899	
A 20 2_9.4	9.4	191	143	3.0	599	2601	128	162	2.3	694	2993	
A 20 2_10.3	10.3	175	209	4.1	808	2308	117	236	3.1	936	2656	
A 20 2_12.0	12.0	150	149	2.5	627	2858	100	169	1.9	726	2990	
A 20 2_14.1	14.1	128	227	3.2	872	2583	85	250	2.4	1010	2972	
A 20 2_16.2	16.2	111	232	2.9	944	2739	74	250	2.1	1094	3151	
A 20 2_18.1	18.1	99	232	2.6	1099	2904	66	250	1.8	1273	3341	
A 20 2_21.2	21.2	85	232	2.2	1171	3142	57	250	1.6	1357	3615	
A 20 2_23.1	23.1	78	232	2.0	1235	3279	52	250	1.4	1431	3773	
A 20 2_26.5	26.5	68	241	1.8	1280	3499	45	250	1.3	1483	4026	
A 20 2_29.2	29.2	62	249	1.7	1371	3664	41	250	1.1	1589	4216	
A 20 2_31.3	31.3	58	250	1.6	1371	3783	38	250	1.1	1589	4353	
A 20 2_35.4	35.4	51	250	1.4	1498	4012	34	250	0.94	1736	4617	
A 20 2_39.6	39.6	45	250	1.3	1553	4214	30	250	0.84	1799	4848	
A 20 2_43.2	43.2	42	250	1.2	1553	4388	27.8	250	0.77	1799	5049	
A 20 2_48.3	48.3	37	250	1.0	1562	4607	24.8	250	0.69	1809	5302	316
A 20 2_53.7	53.7	34	250	0.93	1562	4827	22.3	250	0.62	1809	5555	
A 20 2_63.1	63.1	28.5	227	0.72	1580	5203	19.0	245	0.52	1830	5987	
A 20 2_71.0	71.0	25.4	195	0.55	1625	5679	16.9	210	0.40	1883	6200	
A 20 2_79.9	79.9	22.5	195	0.49	1625	5679	15.0	210	0.35	1883	6200	
A 20 2_92.3	92.3	19.5	186	0.40	1643	5679	13.0	200	0.29	1904	6200	
A 20 3_109.2	109.2	16.5	190	0.36	1180	5900	11.0	215	0.27	1300	6200	
A 20 3_120.5	120.5	14.9	195	0.34	1180	6110	10.0	220	0.25	1300	6200	
A 20 3_129.1	129.1	13.9	200	0.32	1210	6200	9.3	226	0.24	1300	6200	
A 20 3_146.1	146.1	12.3	213	0.30	1180	6200	8.2	241	0.23	1300	6200	
A 20 3_163.4	163.4	11.0	218	0.28	1240	6200	7.3	247	0.21	1300	6200	
A 20 3_178.3	178.3	10.1	227	0.26	1200	6200	6.7	250	0.19	1300	6200	
A 20 3_199.2	199.2	9.0	232	0.24	1270	6200	6.0	250	0.17	1300	6200	
A 20 3_221.3	221.3	8.1	232	0.22	1240	6200	5.4	250	0.16	1300	6200	
A 20 3_260.5	260.5	6.9	232	0.18	1270	6200	4.6	250	0.13	1300	6200	
A 20 3_292.8	292.8	6.1	232	0.16	1300	6200	4.1	250	0.12	1300	6200	
A 20 3_329.4	329.4	5.5	232	0.15	1300	6200	3.6	250	0.10	1300	6200	
A 20 3_380.9	380.9	4.7	232	0.13	1300	6200	3.2	250	0.09	1300	6200	



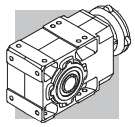
A 30 — 410 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 30 2_5.4	5.4	333	204	7.6	1298	2867	222	231	5.7	1504	3299	
A 30 2_6.4	6.4	281	213	6.7	1335	3050	188	241	5.0	1546	3510	
A 30 2_7.0	7.0	257	227	6.5	1298	3096	171	257	4.9	1504	3563	
A 30 2_8.5	8.5	212	232	5.5	1426	3353	141	262	4.1	1652	3858	
A 30 2_9.3	9.3	194	250	5.4	1308	3398	129	283	4.1	1515	3910	
A 30 2_10.5	10.5	171	315	6.0	1998	3252	114	356	4.5	2200	3742	
A 30 2_11.8	11.8	153	269	4.6	1289	3691	102	304	3.4	1494	4248	
A 30 2_13.6	13.6	132	343	5.1	1998	3545	88	388	3.8	2200	4079	
A 30 2_16.3	16.3	110	357	4.4	1998	3820	74	403	3.3	2200	4395	
A 30 2_18.0	18.0	100	371	4.1	1998	3930	67	410	3.0	2200	4522	
A 30 2_20.5	20.5	88	380	3.7	1998	4149	59	410	2.7	2200	4775	
A 30 2_22.8	22.8	79	380	3.3	1998	4369	53	410	2.4	2200	5028	
A 30 2_26.5	26.5	68	380	2.9	1998	4717	45	410	2.1	2200	5428	
A 30 2_29.3	29.3	61	380	2.6	1998	4946	41	410	1.9	2200	5692	
A 30 2_33.4	33.4	54	393	2.4	1998	5267	36	410	1.6	2200	6061	
A 30 2_36.6	36.6	49	404	2.2	1998	5505	33	410	1.5	2200	6335	
A 30 2_39.3	39.3	46	410	2.1	1998	5679	31	410	1.4	2200	6535	
A 30 2_43.4	43.4	41	410	1.9	1998	5945	27.6	410	1.3	2200	6840	
A 30 2_48.3	48.3	37	410	1.7	1998	6238	24.8	410	1.1	2200	7178	
A 30 2_52.7	52.7	34	410	1.6	1998	6485	22.8	410	1.0	2200	7462	326
A 30 2_59.4	59.4	30	400	1.4	1998	6897	20.2	400	0.90	2200	7937	
A 30 2_66.0	66.0	27.3	390	1.2	1998	7273	18.2	390	0.79	2200	8369	
A 30 2_76.5	76.5	23.5	350	0.92	1998	7960	15.7	350	0.61	2200	9159	
A 30 2_86.7	86.7	20.8	320	0.74	1998	8528	13.8	320	0.49	2200	9600	
A 30 2_97.5	97.5	18.5	300	0.62	1998	8794	12.3	300	0.41	2200	9600	
A 30 3_109.1	109.1	16.5	278	0.53	1300	8794	11.0	314	0.40	1300	9600	
A 30 3_120.5	120.5	14.9	278	0.48	1180	8794	10.0	314	0.36	1300	9600	
A 30 3_137.4	137.4	13.1	292	0.44	1300	8950	8.7	330	0.33	1300	9600	
A 30 3_150.7	150.7	11.9	306	0.42	1180	9210	8.0	346	0.32	1300	9600	
A 30 3_161.4	161.4	11.2	315	0.40	1300	9410	7.4	356	0.30	1300	9600	
A 30 3_178.5	178.5	10.1	320	0.37	1210	9600	6.7	362	0.28	1300	9600	
A 30 3_198.5	198.5	9.1	324	0.34	1300	9600	6.0	367	0.26	1300	9600	
A 30 3_216.6	216.6	8.3	334	0.32	1240	9600	5.5	377	0.24	1300	9600	
A 30 3_244.3	244.3	7.4	343	0.29	1300	9600	4.9	388	0.22	1300	9600	
A 30 3_271.5	271.5	6.6	352	0.27	1280	9600	4.4	398	0.20	1300	9600	
A 30 3_314.5	314.5	5.7	362	0.24	1300	9600	3.8	409	0.18	1300	9600	
A 30 3_356.3	356.3	5.1	343	0.20	1300	9600	3.4	380	0.15	1300	9600	
A 30 3_400.8	400.8	4.5	334	0.17	1300	9600	3.0	360	0.12	1300	9600	



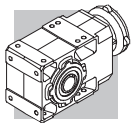
A 35 — 600 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 35 2_5.4	5.4	333	287	10.7	1561	4676	222	325	8.0	1888	5287	
A 35 2_6.4	6.4	281	306	9.6	1561	4936	188	346	7.2	1888	5581	
A 35 2_7.0	7.0	257	324	9.3	1561	5037	171	367	7.0	1888	5696	
A 35 2_8.5	8.5	212	334	7.9	1596	5417	141	377	5.9	1931	6125	
A 35 2_9.3	9.3	194	352	7.6	1596	5556	129	398	5.7	1931	6282	
A 35 2_10.6	10.6	170	362	6.8	1596	5843	113	400	5.0	1931	6607	
A 35 2_11.8	11.8	153	371	6.3	1622	6065	102	400	4.5	1962	6858	
A 35 2_13.1	13.1	137	510	7.8	1831	5352	92	576	5.9	2200	6052	
A 35 2_15.5	15.5	116	528	6.8	1849	5732	77	597	5.2	2090	6481	
A 35 2_17.0	17.0	106	556	6.6	1857	5843	71	600	4.7	2200	6607	
A 35 2_20.4	20.4	88	556	5.5	1892	6417	59	600	3.9	2200	7256	
A 35 2_22.5	22.5	80	556	5.0	1918	6723	53	600	3.6	2200	7601	
A 35 2_25.7	25.7	70	585	4.6	1918	7167	47	600	3.1	2200	8104	
A 35 2_28.4	28.4	63	600	4.2	1918	7528	42	600	2.8	2200	8512	
A 35 2_33.2	33.2	54	600	3.6	1918	8084	36	600	2.4	2200	9140	
A 35 2_36.6	36.6	49	600	3.3	1918	8464	33	600	2.2	2200	9570	
A 35 2_41.8	41.8	43	600	2.9	1918	8982	28.7	600	1.9	2200	10156	
A 35 2_45.8	45.8	39	600	2.6	1918	9353	26.2	600	1.8	2200	10575	
A 35 2_49.1	49.1	37	600	2.5	1918	9630	24.4	600	1.6	2200	10889	
A 35 2_54.3	54.3	33	600	2.2	1918	10093	22.1	600	1.5	2200	11412	336
A 35 2_60.4	60.4	29.8	600	2.0	1918	10556	19.9	600	1.3	2200	11936	
A 35 2_65.8	65.8	27.4	600	1.8	1918	10927	18.2	600	1.2	2200	12000	
A 35 2_74.3	74.3	24.2	600	1.6	1918	11112	16.2	600	1.1	2200	12000	
A 35 2_82.5	82.5	21.8	600	1.5	1918	11112	14.5	600	0.97	2200	12000	
A 35 2_95.6	95.6	18.8	540	1.1	1918	11112	12.6	540	0.76	2200	12000	
A 35 3_105.5	105.5	17.1	487	0.96	680	12000	11.4	550	0.72	823	12000	
A 35 3_116.9	116.9	15.4	519	0.92	759	12000	10.3	587	0.69	918	12000	
A 35 3_136.3	136.3	13.2	533	0.81	968	12000	8.8	600	0.61	1171	12000	
A 35 3_150.6	150.6	12.0	556	0.77	1012	12000	8.0	600	0.55	1224	12000	
A 35 3_171.8	171.8	10.5	556	0.67	1090	12000	7.0	600	0.48	1300	12000	
A 35 3_188.3	188.3	9.6	556	0.61	1134	12000	6.4	600	0.44	1300	12000	
A 35 3_201.8	201.8	8.9	556	0.57	1134	12000	5.9	600	0.41	1300	12000	
A 35 3_223.2	223.2	8.1	556	0.52	1134	12000	5.4	600	0.37	1300	12000	
A 35 3_248.1	248.1	7.3	565	0.47	1134	12000	4.8	600	0.33	1300	12000	
A 35 3_270.7	270.7	6.6	570	0.44	1134	12000	4.4	600	0.31	1300	12000	
A 35 3_305.4	305.4	5.9	585	0.40	1140	12000	3.9	600	0.27	1300	12000	
A 35 3_339.3	339.3	5.3	482	0.29	1210	12000	3.5	520	0.21	1300	12000	
A 35 3_393.2	393.2	4.6	431	0.23	1260	12000	3.1	465	0.16	1300	12000	



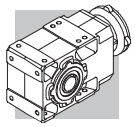
A 41 — 850 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 41 2_5.2	5.2	346	510	19.7	2225	5099	231	550	14.1	2575	5860	
A 41 2_7.1	7.1	254	510	14.4	2424	5896	169	550	10.4	2806	6777	
A 41 2_8.3	8.3	217	510	12.3	2497	6346	145	550	8.9	2890	7294	
A 41 2_9.2	9.2	196	530	11.6	2597	6639	130	550	8.0	3006	7631	
A 41 2_10.1	10.1	178	496	9.8	3078	7015	119	560	7.4	3500	8063	
A 41 2_11.7	11.7	154	550	9.4	2679	7400	103	550	6.3	3100	8506	
A 41 2_13.8	13.8	130	542	7.9	3114	7804	87	612	5.9	3500	8970	
A 41 2_16.1	16.1	112	565	7.0	3114	8253	75	639	5.3	3500	9486	
A 41 2_17.8	17.8	101	584	6.6	3151	8528	67	660	5.0	3500	9802	
A 41 2_22.7	22.7	79	630	5.6	3142	9262	53	712	4.2	3500	10645	
A 41 2_28.3	28.3	64	677	4.8	3133	9995	42	764	3.6	3500	11489	
A 41 2_35.9	35.9	50	723	4.0	3096	10821	33	817	3.0	3500	12437	
A 41 2_45.1	45.1	40	769	3.4	3024	11738	26.6	850	2.5	3500	13491	
A 41 2_48.3	48.3	37	788	3.3	2906	12013	24.8	850	2.4	3363	13807	
A 41 2_53.1	53.1	34	788	3.0	3024	12563	22.6	850	2.1	3500	14440	
A 41 2_58.8	58.8	31	788	2.7	3142	13113	20.4	850	1.9	3500	15000	346
A 41 2_64.2	64.2	28.0	788	2.5	3142	13572	18.7	850	1.8	3500	15000	
A 41 2_71.3	71.3	25.2	788	2.2	3151	13755	16.8	850	1.6	3500	15000	
A 41 2_79.2	79.2	22.7	742	1.9	3178	13755	15.2	800	1.4	3500	15000	
A 41 3_92.8	92.8	19.4	742	1.7	390	14000	12.9	800	1.2	452	15000	
A 41 3_115.9	115.9	15.5	800	1.4	890	14600	10.4	850	1.0	1030	15000	
A 41 3_146.9	146.9	12.3	850	1.2	1489	15000	8.2	850	0.80	1724	15000	
A 41 3_184.4	184.4	9.8	850	0.95	1607	15000	6.5	850	0.64	1860	15000	
A 41 3_197.5	197.5	9.1	850	0.89	1625	15000	6.1	850	0.59	1881	15000	
A 41 3_217.4	217.4	8.3	850	0.81	1653	15000	5.5	850	0.54	1913	15000	
A 41 3_240.6	240.6	7.5	850	0.73	1671	15000	5.0	850	0.49	1934	15000	
A 41 3_262.5	262.5	6.9	850	0.67	1689	15000	4.6	850	0.45	1955	15000	
A 41 3_291.7	291.7	6.2	850	0.60	1707	15000	4.1	850	0.40	1976	15000	
A 41 3_324.2	324.2	5.6	850	0.54	1725	15000	3.7	850	0.36	1997	15000	
A 41 3_376.8	376.8	4.8	850	0.47	1752	15000	3.2	850	0.31	2028	15000	

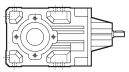


A 50 — 1500 Nm

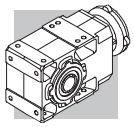
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 50 2_7.7	7.7	234	649	16.9	2624	9123	156	733	12.7	3040	10498	
A 50 2_9.7	9.7	186	695	14.4	2679	9893	124	785	10.8	3103	11383	
A 50 2_13.1	13.1	137	695	10.6	2824	11084	92	785	8.0	3272	12753	
A 50 2_16.6	16.6	108	742	9.0	2860	12000	72	838	6.7	3314	13807	
A 50 2_20.9	20.9	86	742	7.1	2915	13190	57	838	5.4	3377	15178	
A 50 3_24.0	24.0	75	1391	12.0	1907	7823	50	1500	8.6	2209	9001	
A 50 3_26.4	26.4	68	1391	10.9	2443	8336	45	1500	7.8	2830	9591	
A 50 3_32.4	32.4	56	1391	8.9	2506	9526	37	1500	6.4	2904	10962	
A 50 3_35.6	35.6	51	1391	8.1	2987	10076	34	1500	5.8	3461	11594	
A 50 3_40.9	40.9	44	1415	7.2	2924	10900	29.3	1500	5.1	3387	12543	
A 50 3_45.0	45.0	40	1470	6.8	3124	11542	26.7	1500	4.6	3500	13280	
A 50 3_51.7	51.7	35	1500	6.0	3087	12458	23.2	1500	4.0	3450	14334	
A 50 3_56.8	56.8	32	1500	5.5	3160	13190	21.1	1500	3.6	3500	15178	
A 50 3_63.9	63.9	28.2	1500	4.9	3133	14015	18.8	1500	3.2	3500	16126	
A 50 3_70.2	70.2	25.6	1500	4.4	3178	14748	17.1	1500	3.0	3500	16969	
A 50 3_81.5	81.5	22.1	1500	3.8	3178	15847	14.7	1500	2.5	3500	18234	
A 50 3_89.5	89.5	20.1	1500	3.5	3178	16671	13.4	1500	2.3	3500	19183	
A 50 3_99.5	99.5	18.1	1500	3.1	3178	17587	12.1	1500	2.1	3500	20000	
A 50 3_109.4	109.4	16.5	1500	2.8	3178	18320	11.0	1500	1.9	3500	20000	
A 50 3_118.0	118.0	15.3	1500	2.6	3178	18320	10.2	1500	1.8	3500	20000	356
A 50 3_129.7	129.7	13.9	1500	2.4	3178	18320	9.3	1500	1.6	3500	20000	
A 50 3_140.6	140.6	12.8	1500	2.2	3178	18320	8.5	1500	1.5	3500	20000	
A 50 3_154.6	154.6	11.6	1500	2.0	3178	18320	7.8	1500	1.3	3500	20000	
A 50 3_173.4	173.4	10.4	1500	1.8	3178	18320	6.9	1500	1.2	3500	20000	
A 50 3_190.6	190.6	9.4	1500	1.6	3178	18800	6.3	1500	1.1	3500	20000	
A 50 4_211.0	211.0	8.5	1500	1.5	1998	20000	5.7	1500	1.0	2200	20000	
A 50 4_232.0	232.0	7.8	1500	1.4	1998	20000	5.2	1500	0.91	2200	20000	
A 50 4_260.9	260.9	6.9	1500	1.2	2010	20000	4.6	1500	0.81	2200	20000	
A 50 4_286.8	286.8	6.3	1500	1.1	2040	20000	4.2	1500	0.74	2200	20000	
A 50 4_332.6	332.6	5.4	1500	0.96	2080	20000	3.6	1500	0.64	2200	20000	
A 50 4_365.6	365.6	4.9	1500	0.87	2100	20000	3.3	1500	0.58	2200	20000	
A 50 4_406.4	406.4	4.4	1500	0.78	2130	20000	3.0	1500	0.52	2200	20000	
A 50 4_446.8	446.8	4.0	1500	0.71	2140	20000	2.7	1500	0.47	2200	20000	
A 50 4_481.6	481.6	3.7	1500	0.66	2160	20000	2.5	1500	0.44	2200	20000	
A 50 4_529.5	529.5	3.4	1500	0.60	2170	20000	2.3	1500	0.40	2200	20000	
A 50 4_574.2	574.2	3.1	1500	0.55	2190	20000	2.1	1500	0.37	2200	20000	
A 50 4_631.2	631.2	2.9	1500	0.50	2200	20000	1.9	1500	0.34	2200	20000	
A 50 4_707.9	707.9	2.5	1500	0.45	2200	20000	1.7	1500	0.30	2200	20000	
A 50 4_778.2	778.2	2.3	1500	0.41	2200	20000	1.5	1500	0.27	2200	20000	



A 55 — 2000 Nm

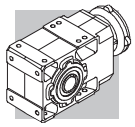


	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 55 2_4.9	4.9	367	834	34	1875	17316	245	942	27	2268	19579	
A 55 2_6.4	6.4	281	881	28	2494	18798	188	995	21	3017	21254	
A 55 2_8.5	8.5	212	881	21	3052	20557	141	995	16,2	3500	23243	
A 55 2_10.4	10.4	173	927	17,9	3052	21854	115	1047	13,9	3500	24709	
A 55 2_13.1	13.1	137	927	14,2	3230	23613	92	1047	11,0	3500	26699	
A 55 2_15.7	15.7	115	927	11,8	3440	25002	76	1047	9,2	3500	28269	
A 55 2_19.2	19.2	94	1020	10,7	3160	26484	63	1152	8,3	3500	29944	
A 55 3_23.8	23.8	76	1808	15,7	2302	24076	50	2000	11,6	2785	27222	
A 55 3_29.9	29.9	60	1854	12,8	2415	26113	40	2000	9,2	2922	29525	
A 55 3_40.3	40.3	45	1854	9,5	2555	27780	29,8	2000	6,9	3091	30000	
A 55 3_51.0	51.0	35	2000	8,1	2660	27780	23,5	2000	5,4	3218	30000	
A 55 3_64.3	64.3	28,0	2000	6,4	2712	29000	18,7	2000	4,3	3281	30000	
A 55 3_79.5	79.5	22,6	2000	5,2	2459	30000	15,1	2000	3,5	2975	30000	
A 55 3_101.4	101.4	17,8	2000	4,1	2729	30000	11,8	2000	2,7	3302	30000	
A 55 3_123.9	123.9	14,5	2000	3,3	2817	30000	9,7	2000	2,2	3408	30000	366
A 55 3_132.7	132.7	13,6	2000	3,1	2825	30000	9,0	2000	2,1	3418	30000	
A 55 3_146.8	146.8	12,3	2000	2,8	2869	30000	8,2	2000	1,9	3471	30000	
A 55 3_160.4	160.4	11,2	2000	2,6	2878	30000	7,5	2000	1,7	3482	30000	
A 55 3_175.0	175.0	10,3	2000	2,4	2878	30000	6,9	2000	1,6	3482	30000	
A 55 3_194.2	194.2	9,3	2000	2,1	2886	30000	6,2	2000	1,4	3492	30000	
A 55 4_208.1	208.1	8,6	1808	1,8	1918	30000	5,8	2000	1,4	2200	30000	
A 55 4_262.6	262.6	6,9	1854	1,5	1980	30000	4,6	2000	1,1	2200	30000	
A 55 4_324.7	324.7	5,5	1854	1,2	2030	30000	3,7	2000	0,87	2200	30000	
A 55 4_414.0	414.0	4,3	1854	0,95	2080	30000	2,9	2000	0,68	2200	30000	
A 55 4_505.9	505.9	3,6	1900	0,80	2120	30000	2,4	2000	0,56	2200	30000	
A 55 4_542.0	542.0	3,3	1900	0,74	2140	30000	2,2	2000	0,52	2200	30000	
A 55 4_599.5	599.5	3,0	1950	0,69	2150	30000	2,0	2000	0,47	2200	30000	
A 55 4_655.1	655.1	2,7	1950	0,63	2180	30000	1,8	2000	0,43	2200	30000	
A 55 4_714.7	714.7	2,5	1950	0,58	2200	30000	1,7	2000	0,40	2200	30000	
A 55 4_793.0	793.0	2,3	2000	0,53	2200	30000	1,5	2000	0,36	2200	30000	

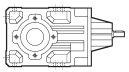


A 60 — 2800 Nm

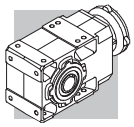
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 60 2_7.9	7.9	228	1112	29	3087	25678	152	1256	21	3573	30000	
A 60 2_10.3	10.3	175	1112	22	3396	27810	117	1256	16,3	3931	30000	
A 60 2_12.7	12.7	142	1159	18,9	3459	27810	94	1309	13,8	4004	30000	
A 60 2_16.7	16.7	108	1205	14,9	3550	28600	72	1361	10,9	4109	30000	
A 60 2_20.6	20.6	87	1298	13,1	3532	30000	58	1466	9,5	4088	30000	
A 60 3_25.7	25.7	70	2760	22,2	3450	27810	47	2800	15,0	3994	30000	
A 60 3_27.9	27.9	65	2800	20,8	3568	27810	43	2800	13,9	4130	30000	
A 60 3_31.7	31.7	57	2800	18,3	3578	29000	38	2800	12,2	4141	30000	
A 60 3_34.3	34.3	52	2800	16,9	3686	30000	35	2800	11,3	4267	30000	
A 60 3_41.7	41.7	43	2800	13,9	3714	30000	28,8	2800	9,3	4299	30000	
A 60 3_45.2	45.2	40	2800	12,8	3814	30000	26,5	2800	8,6	4414	30000	
A 60 3_51.3	51.3	35	2800	11,3	3795	30000	23,4	2800	7,5	4393	30000	
A 60 3_55.6	55.6	32	2800	10,4	3886	30000	21,6	2800	7,0	4498	30000	
A 60 3_65.0	65.0	27,7	2800	8,9	3868	30000	18,5	2800	5,9	4477	30000	
A 60 3_70.4	70.4	25,6	2800	8,2	3959	30000	17,0	2800	5,5	4582	30000	
A 60 3_79.7	79.7	22,6	2800	7,3	3913	30000	15,1	2800	4,9	4530	30000	
A 60 3_86.4	86.4	20,8	2800	6,7	4004	30000	13,9	2800	4,5	4635	30000	
A 60 3_99.5	99.5	18,1	2800	5,8	3959	30000	12,1	2800	3,9	4582	30000	
A 60 3_107.8	107.8	16,7	2800	5,4	4041	30000	11,1	2800	3,6	4677	30000	
A 60 3_123.0	123.0	14,6	2800	4,7	3995	30000	9,8	2800	3,1	4624	30000	376
A 60 3_133.3	133.3	13,5	2800	4,4	4077	30000	9,0	2800	2,9	4700	30000	
A 60 3_144.0	144.0	12,5	2800	4,0	4013	30000	8,3	2800	2,7	4645	30000	
A 60 3_156.0	156.0	11,5	2800	3,7	4095	30000	7,7	2800	2,5	4700	30000	
A 60 3_171.5	171.5	10,5	2800	3,4	4022	30000	7,0	2800	2,3	4656	30000	
A 60 3_185.8	185.8	9,7	2800	3,1	4104	30000	6,5	2800	2,1	4700	30000	
A 60 4_208.7	208.7	8,6	2800	2,8	3178	30000	5,7	2800	1,9	3500	30000	
A 60 4_226.1	226.1	8,0	2800	2,6	3178	30000	5,3	2800	1,7	3500	30000	
A 60 4_264.3	264.3	6,8	2800	2,2	3178	30000	4,5	2800	1,5	3500	30000	
A 60 4_286.3	286.3	6,3	2800	2,1	3178	30000	4,2	2800	1,4	3500	30000	
A 60 4_324.2	324.2	5,6	2800	1,8	3178	30000	3,7	2800	1,2	3500	30000	
A 60 4_351.2	351.2	5,1	2800	1,7	3178	30000	3,4	2800	1,1	3500	30000	
A 60 4_404.7	404.7	4,4	2800	1,5	3178	30000	3,0	2800	0,98	3500	30000	
A 60 4_438.4	438.4	4,1	2800	1,4	3178	30000	2,7	2800	0,90	3500	30000	
A 60 4_500.3	500.3	3,6	2800	1,2	3178	30000	2,4	2800	0,79	3500	30000	
A 60 4_542.0	542.0	3,3	2800	1,1	3178	30000	2,2	2800	0,73	3500	30000	
A 60 4_585.8	585.8	3,1	2800	1,0	3178	30000	2,0	2800	0,67	3500	30000	
A 60 4_634.6	634.6	2,8	2800	0,93	3178	30000	1,9	2800	0,62	3500	30000	
A 60 4_697.3	697.3	2,6	2800	0,85	3190	30000	1,7	2800	0,57	3500	30000	
A 60 4_755.4	755.4	2,4	2800	0,79	3210	30000	1,6	2800	0,52	3500	30000	



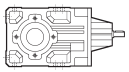
A 70 — 5000 Nm



	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 70 3_9.4	9.4	191	2596	57	2315	29571	128	2932	43	2695	33431	
A 70 3_10.2	10.2	176	2966	60	2480	29571	118	3250	44	1564	33431	
A 70 3_12.1	12.1	149	2966	51	2420	31425	99	3350	38	1480	35527	
A 70 3_13.1	13.1	137	3105	49	2420	32074	92	3507	37	2220	36261	
A 70 3_15.4	15.4	117	3105	42	2206	34021	78	3507	31	2569	38462	
A 70 3_16.7	16.7	108	3337	41	2500	34484	72	3769	31	2738	38986	
A 70 3_19.7	19.7	91	3430	36	2030	36431	61	3700	26	1892	41186	
A 70 3_21.3	21.3	85	3708	36	2750	36895	56	4000	26	1934	41710	
A 70 3_23.5	23.5	77	3986	35	5675	37544	51	4502	26	6606	42444	
A 70 3_27.8	27.8	65	3893	29.0	5720	40139	43	4397	22	6659	45378	
A 70 3_30.1	30.1	60	4218	29.0	5720	40695	40	4764	22	6659	46007	
A 70 3_35.4	35.4	51	4172	24.4	5784	43198	34	4712	18,4	6733	48837	
A 70 3_38.4	38.4	47	4496	24.3	5793	43847	31	5000	18,0	6744	49570	
A 70 3_45.2	45.2	40	4450	20.4	5811	46350	26.5	5000	15,3	6765	50000	
A 70 3_49.0	49.0	37	4635	19.6	5857	46350	24.5	5000	14,1	6818	50000	
A 70 3_53.2	53.2	34	4635	18.0	5793	46350	22.6	5000	13,0	6744	50000	
A 70 3_57.7	57.7	31	4635	16.6	5893	46350	20.8	5000	12,0	6860	50000	
A 70 3_66.9	66.9	26.9	4635	14.4	5884	46350	17.9	5000	10,3	6849	50000	
A 70 3_72.5	72.5	24.8	4750	13.6	5975	46500	16.6	5000	9,5	6955	50000	
A 70 3_79.3	79.3	22.7	4635	12.1	5920	48400	15.1	5000	8,7	6892	50000	
A 70 3_85.9	85.9	21.0	4950	11.9	6011	49100	14.0	5000	8,0	6997	50000	
A 70 3_96.2	96.2	18.7	4850	10.4	5966	50000	12.5	5000	7,2	6944	50000	
A 70 3_104.2	104.2	17.3	5000	9.9	6047	50000	11.5	5000	6,6	7000	50000	
A 70 3_120.6	120.6	14.9	5000	8.6	6002	50000	10.0	5000	5,7	7000	50000	
A 70 3_130.7	130.7	13.8	5000	7.9	6075	50000	9.2	5000	5,3	7000	50000	
A 70 3_141.9	141.9	12.7	5000	7.3	6029	50000	8.5	5000	4,9	7000	50000	384
A 70 3_153.7	153.7	11.7	3754	5.1	6283	50000	7.8	4240	3,8	7000	50000	
A 70 4_169.8	169.8	10.6	5000	6.2	2288	50000	7.1	5000	4,2	2664	50000	
A 70 4_183.9	183.9	9.8	5000	5.8	2424	50000	6.5	5000	3,8	2822	50000	
A 70 4_220.3	220.3	8.2	5000	4.8	2461	50000	5.4	5000	3,2	2864	50000	
A 70 4_238.6	238.6	7.5	5000	4.4	2515	50000	5.0	5000	3,0	2928	50000	
A 70 4_292.0	292.0	6.2	5000	3.6	2533	50000	4.1	5000	2,4	2949	50000	
A 70 4_316.4	316.4	5.7	5000	3.3	2588	50000	3.8	5000	2,2	3012	50000	
A 70 4_369.4	369.4	4.9	5000	2.9	2579	50000	3.2	5000	1,9	3002	50000	
A 70 4_400.2	400.2	4.5	5000	2.6	2633	50000	3.0	5000	1,8	3065	50000	
A 70 4_475.8	475.8	3.8	5000	2.2	2624	50000	2.5	5000	1,5	3055	50000	
A 70 4_515.4	515.4	3.5	5000	2.1	2670	50000	2.3	5000	1,4	3108	50000	
A 70 4_595.0	595.0	3.0	5000	1.8	2651	50000	2.0	5000	1,2	3086	50000	
A 70 4_644.6	644.6	2.8	5000	1.6	2697	50000	1.9	5000	1,1	3139	50000	
A 70 4_705.1	705.1	2.6	5000	1.5	2670	50000	1.7	5000	1,0	3108	50000	
A 70 4_763.9	763.9	2.4	5000	1.4	2715	50000	1.6	5000	0,92	3160	50000	
A 70 4_855.3	855.3	2.1	5000	1.2	2688	50000	1.4	5000	0,83	3129	50000	
A 70 4_926.5	926.5	1.9	5000	1.1	2724	50000	1.3	5000	0,76	3171	50000	
A 70 4_1072	1072	1.7	5000	0.99	2697	50000	1.1	5000	0,66	3139	50000	
A 70 4_1161	1161	1.6	5000	0.91	2742	50000	1.0	5000	0,61	3192	50000	
A 70 4_1242	1242	1.4	5000	0.85	2706	50000	0.97	5000	0,57	3150	50000	
A 70 4_1346	1346	1.3	5000	0.79	2751	50000	0.89	5000	0,52	3203	50000	
A 70 4_1583	1583	1.1	5000	0.67	2715	50000	0.76	5000	0,45	3160	50000	
A 70 4_1715	1715	1.0	5000	0.62	2760	50000	0.70	5000	0,41	3213	50000	

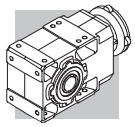


A 80 — 8000 Nm

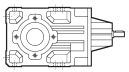


	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 80 3_9.8	9.8	184	3611	76	—	29789	122	4087	58	—	33609	
A 80 3_10.7	10.7	168	3982	77	—	29974	112	4506	58	—	33818	
A 80 3_12.3	12.3	146	3982	67	—	31552	98	4506	51	—	35598	
A 80 3_13.3	13.3	135	3982	62	1150	32666	90	4506	47	1214	36854	
A 80 3_15.5	15.5	116	3797	51	1560	34893	77	4297	38	1827	39367	
A 80 3_16.7	16.7	108	4167	52	1440	35171	72	4716	39	1542	39681	
A 80 3_19.3	19.3	93	4074	44	1870	37306	62	4611	33	1985	42089	
A 80 3_20.9	20.9	86	4445	44	1670	37677	57	5030	33	1837	42508	
A 80 3_22.6	22.6	80	5788	53	5218	35635	53	6550	40	6156	40205	
A 80 3_24.5	24.5	73	6251	53	5227	35821	49	7074	40	6167	40414	
A 80 3_28.2	28.2	64	6112	45	5334	38234	43	6917	34	6294	43136	
A 80 3_30.6	30.6	59	5973	40	5495	39904	39	6760	31	6484	45021	
A 80 3_35.5	35.5	51	6482	38	5370	41110	34	7336	29	6336	46382	
A 80 3_38.5	38.5	47	7038	38	5370	41296	31	7965	29	6336	46592	
A 80 3_44.5	44.5	40	6899	32	5433	44080	27.0	7808	24	6410	49733	
A 80 3_48.2	48.2	37	7408	32	5451	44451	24.9	8000	23	6431	50151	
A 80 3_55.2	55.2	33	7315	27	5415	47142	21.7	8000	20	6389	53188	
A 80 3_59.8	59.8	30	7408	26	5522	48534	20.1	8000	18.5	6516	54758	
A 80 3_66.8	66.8	26.9	7408	23	5504	50669	18.0	8000	16.5	6494	57166	
A 80 3_72.4	72.4	24.9	7408	21	5621	52432	16.6	8000	15.3	6632	59156	
A 80 3_82.3	82.3	21.9	7408	18.6	5576	55030	14.6	8000	13.4	6579	62087	
A 80 3_89.2	89.2	20.2	7800	18.1	5683	56979	13.5	8000	12.4	6706	64286	
A 80 3_96.0	96.0	18.8	7500	16.2	5603	58464	12.5	8000	11.5	6611	65000	
A 80 3_104.0	104.0	17.3	8000	15.9	5710	60320	11.5	8000	10.6	6737	65000	
A 80 3_116.0	116.0	15.5	8000	14.3	5639	60320	10.3	8000	9.5	6653	65000	
A 80 3_125.6	125.6	14.3	8000	13.2	5746	60320	9.6	8000	8.8	6780	65000	392
A 80 3_144.7	144.7	12.4	8000	11.5	5683	60320	8.3	8000	7.6	6706	65000	
A 80 3_156.8	156.8	11.5	8000	10.6	5782	60320	7.7	8000	7.0	6822	65000	
A 80 4_171.3	171.3	10.5	8000	9.9	—	65000	7.0	8000	6.6	1299	65000	
A 80 4_214.7	214.7	8.4	8000	7.9	—	65000	5.6	8000	5.3	1478	65000	
A 80 4_232.6	232.6	7.7	8000	7.3	—	65000	5.2	8000	4.9	1911	65000	
A 80 4_277.3	277.3	6.5	8000	6.1	1727	65000	4.3	8000	4.1	2038	65000	
A 80 4_300.4	300.4	6.0	8000	5.6	2050	65000	4.0	8000	3.8	2418	65000	
A 80 4_354.0	354.0	5.1	8000	4.8	1960	65000	3.4	8000	3.2	2313	65000	
A 80 4_383.5	383.5	4.7	8000	4.4	2264	65000	3.1	8000	2.9	2672	65000	
A 80 4_442.1	442.1	4.1	8000	3.8	2175	65000	2.7	8000	2.6	2566	65000	
A 80 4_478.9	478.9	3.8	8000	3.5	2390	65000	2.5	8000	2.4	2820	65000	
A 80 4_560.5	560.5	3.2	8000	3.0	2354	65000	2.1	8000	2.0	2777	65000	
A 80 4_607.2	607.2	3.0	8000	2.8	2434	65000	2.0	8000	1.9	2872	65000	
A 80 4_703.5	703.5	2.6	8000	2.4	2408	65000	1.7	8000	1.6	2841	65000	
A 80 4_762.1	762.1	2.4	8000	2.2	2470	65000	1.6	8000	1.5	2915	65000	
A 80 4_829.5	829.5	2.2	8000	2.0	2434	65000	1.4	8000	1.4	2872	65000	
A 80 4_898.7	898.7	2.0	8000	1.9	2488	65000	1.3	8000	1.3	2936	65000	
A 80 4_1001	1001	1.8	8000	1.7	2452	65000	1.2	8000	1.1	2893	65000	
A 80 4_1085	1085	1.7	8000	1.6	2506	65000	1.1	8000	1.0	2957	65000	
A 80 4_1237	1237	1.5	8000	1.4	2461	65000	0.97	8000	0.91	2904	65000	
A 80 4_1340	1340	1.3	8000	1.3	2515	65000	0.90	8000	0.84	2967	65000	
A 80 4_1438	1438	1.3	8000	1.2	2479	65000	0.83	8000	0.79	2925	65000	
A 80 4_1558	1558	1.2	8000	1.1	2533	65000	0.77	8000	0.73	2988	65000	

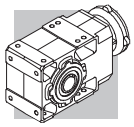
(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



A 90 — 14000 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
A 90 3_9.7	9.7	186	8380	179	4869	32515	124	9050	129	5818	36610	
A 90 3_10.5	10.5	171	9075	179	4877	32422	114	9800	129	5829	36505	
A 90 3_12.6	12.6	143	9677	159	4225	34094	95	10952	120	5049	38388	
A 90 3_13.7	13.7	131	10325	156	4670	34280	88	11685	118	5333	38597	
A 90 3_15.6	15.6	115	10140	135	4772	36603	77	11476	102	5702	41212	
A 90 3_16.9	16.9	107	10973	134	4798	36510	71	12419	101	5734	41108	
A 90 3_19.4	19.4	93	10695	114	4719	39297	62	11500	82	5639	44246	
A 90 3_21.0	21.0	86	11482	113	4860	39390	57	12400	82	5808	44350	
A 90 3_22.3	22.3	81	11251	105	10760	40783	54	12733	79	12859	45919	
A 90 3_24.1	24.1	75	12177	105	10760	40690	50	13781	79	12859	45815	
A 90 3_29.1	29.1	62	12038	86	10937	44499	41	13624	65	13070	50103	
A 90 3_31.5	31.5	57	12964	85	10937	44499	38	14000	61	13070	50103	
A 90 3_35.8	35.8	50	12733	74	11025	47472	34	14000	54	13175	53451	
A 90 3_38.8	38.8	46	12964	69	11201	48958	31	14000	50	13386	55124	
A 90 3_44.6	44.6	40	12964	60	11201	52024	26,9	14000	43	13386	58576	
A 90 3_48.3	48.3	37	12964	56	11290	53882	24,8	14000	40	13491	60668	
A 90 3_55.0	55.0	33	12964	49	11290	57041	21,8	14000	35	13491	64224	
A 90 3_59.6	59.6	30	13550	47	11466	58992	20,1	14000	32	13702	66421	
A 90 3_68.8	68.8	26,2	13550	41	11466	62615	17,4	14000	28	13702	70500	
A 90 3_74.5	74.5	24,2	14000	39	11554	64751	16,1	14000	26	13807	72906	
A 90 3_80.4	80.4	22,4	14000	36	11466	66795	14,9	14000	24	13702	75000	
A 90 3_87.1	87.1	20,7	14000	33	11642	69025	13,8	14000	22	13913	75000	
A 90 3_98.6	98.6	18,3	14000	29	11554	69675	12,2	14000	19,6	13807	75000	
A 90 3_106.8	106.8	16,9	14000	27	11731	69675	11,2	14000	18,1	14018	75000	
A 90 3_116.9	116.9	15,4	14000	25	11642	69675	10,3	14000	16,5	13913	75000	
A 90 3_126.6	126.6	14,2	12177	19,9	11819	71400	9,5	13781	15,0	14124	75000	400
A 90 3_139.4	139.4	12,9	11807	17,5	11819	74500	8,6	13362	13,2	14124	75000	
A 90 3_151.0	151.0	11,9	12779	17,5	11819	75000	7,9	14000	12,8	14124	75000	
A 90 4_166.1	166.1	10,8	14000	17,9	—	75000	7,2	14000	11,9	—	75000	
A 90 4_180.0	180.0	10,0	14000	16,5	—	75000	6,7	14000	11,0	—	75000	
A 90 4_209.0	209.0	8,6	14000	14,2	—	75000	5,7	14000	9,5	—	75000	
A 90 4_226.4	226.4	8,0	14000	13,1	—	75000	5,3	14000	8,7	—	75000	
A 90 4_281.4	281.4	6,4	14000	10,5	—	75000	4,3	14000	7,0	—	75000	
A 90 4_304.9	304.9	5,9	14000	9,7	—	75000	3,9	14000	6,5	—	75000	
A 90 4_355.8	355.8	5,1	14000	8,3	—	75000	3,4	14000	5,6	—	75000	
A 90 4_385.4	385.4	4,7	14000	7,7	—	75000	3,1	14000	5,1	717	75000	
A 90 4_449.2	449.2	4,0	14000	6,6	—	75000	2,7	14000	4,4	—	75000	
A 90 4_486.6	486.6	3,7	14000	6,1	—	75000	2,5	14000	4,1	1001	75000	
A 90 4_555.3	555.3	3,2	14000	5,3	—	75000	2,2	14000	3,6	780	75000	
A 90 4_601.6	601.6	3,0	14000	4,9	—	75000	2,0	14000	3,3	1265	75000	
A 90 4_707.9	707.9	2,5	14000	4,2	—	75000	1,7	14000	2,8	1107	75000	
A 90 4_766.9	766.9	2,3	14000	3,9	—	75000	1,6	14000	2,6	1570	75000	
A 90 4_865.1	865.1	2,1	14000	3,4	—	75000	1,4	14000	2,3	1233	75000	
A 90 4_937.2	937.2	1,9	14000	3,2	—	75000	1,3	14000	2,1	1676	75000	
A 90 4_1025	1025	1,8	14000	2,9	—	75000	1,2	14000	1,9	1402	75000	
A 90 4_1111	1111	1,6	14000	2,7	—	75000	1,1	14000	1,8	1834	75000	
A 90 4_1222	1222	1,5	14000	2,4	—	75000	0,98	14000	1,6	1455	75000	
A 90 4_1324	1324	1,4	14000	2,2	—	75000	0,91	14000	1,5	1887	75000	
A 90 4_1507	1507	1,2	14000	2,0	—	75000	0,80	14000	1,3	1518	75000	
A 90 4_1632	1632	1,1	14000	1,8	—	75000	0,74	14000	1,2	1939	75000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



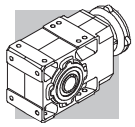
41 DISPONIBILIDADE DE MOTOR

Observe que as combinações de motor e redutor resultantes das tabelas (C39) e (C40) baseiam-se meramente na compatibilidade geométrica.

Ao selecionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição $S \geq f_s$.

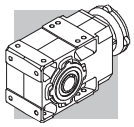
(C 40)

		IEC_ BN BE (IM B5)											
		P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250
A 05 2		5.5_91.6	5.5_51.3	5.5_51.3									
A 10 2		5.5_91.6	5.5_91.6	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9						
A 20 2		7.3_92.3 ⛔(10.3)	7.3_92.3 ⛔(10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9						
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9						
A 30 2		9.3_97.5 ⛔(10.5 ; 13.6_16.3)	9.3_97.5 ⛔(10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5						
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8						
A 35 2		9.3_95.6 ⛔(13.1_20.4)	9.3_95.6 ⛔(13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_11.8					
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2						
A 41 2		11.7_79.2 ⛔(13.8_17.8)	11.7_79.2 ⛔(13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1					
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8						
A 50 2		20.9	20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9			
A 50 3		51.7_190.6	51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4			
A 50 4	i =	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2						
A 55 2				13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2			
A 55 3		64.3_194.2	64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9			
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0						
A 60 2				10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6			
A 60 3		65.0_185.8	65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3			
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4						
A 70 3				66.9_153.7	66.9_153.7	66.9_153.7	66.9_153.7	15.4_153.7 ⛔(23.5_30.1)	9.4_153.7	9.4_153.7	9.4_38.4 ⛔(19.7_21.3)		
A 70 4		292.0_1715	292.0_1715	169.8_1715	169.8_1715	169.8_1715	169.8_1715	169.8_644.6					
A 80 3				82.3_156.8	82.3_156.8	82.3_156.8	82.3_156.8	19.3_156.8 ⛔(22.6_38.5)	12.3_156.8 ⛔(22.6_24.5)	9.8_156.8	9.8_104.0	9.8_104.0	
A 80 4		354.0_1558	354.0_1558	171.3_1558	171.3_1558	171.3_1558	171.3_1558	171.3_762.1					
A 90 3				98.6_151.0	98.6_151.0	98.6_151.0	98.6_151.0	55.0_151.0	19.4_151.0 ⛔(22.3_38.8)	9.7_151.0	9.7_126.6	9.7_126.6	9.7_126.6
A 90 4		449.2_1632	449.2_1632	166.1_1632	166.1_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2			

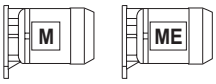


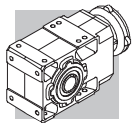
(C 41)

		NEMA Motor frame						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
A 05 2		5.5_91.6	5.5_65.9					
A 10 2		5.5_91.6	5.5_65.9	5.5_65.9				
A 20 2		7.3_92.3 ⛔ (10.3)	5.4_79.9	5.4_79.9				
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9				
A 30 2		9.3_97.5 ⛔ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5				
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8				
A 35 2		9.3_95.6 ⛔ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8			
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2				
A 41 2		11.7_79.2 ⛔ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1			
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8				
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4	
A 50 4	i =	211.0_778.2	211.0_778.2	211.0_778.2				
A 55 2			13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2	
A 55 3		64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9	
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0				
A 60 2			10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6	
A 60 3		65.0_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3	
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4				
A 70 3			66.9_153.7	66.9_153.7	15.4_153.7 ⛔ (23.5_30.1)	9.4_153.7	9.4_153.7	
A 70 4		292.0_1715	169.8_1715	169.8_1715	169.8_644.6			
A 80 3				82.3_156.8	19.3_156.8 ⛔ (22.6_38.5)	12.3_156.8 ⛔ (22.6_24.5)	9.8_156.8	9.8_104.0
A 80 4		354.0_1558	171.3_1558	171.3_1558	171.3_762.1			
A 90 3				98.6_151.0	55.0_151.0	19.4_151.0 ⛔ (22.3_38.8)	9.7_151.0	9.7_126.6
A 90 4		449.2_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2	



(C 42)

		M05	M1	M2 - ME2	ME3	ME4	ME5
							
A 05 2		5.5_91.6	5.5_51.3	5.5_65.9			
A 10 2		5.5_91.6	5.5_51.3	5.5_65.9	5.5_65.9		
A 20 2		7.3_92.3 ⛀ (10.3)	7.3_63.1 ⛀ (10.3)	5.4_79.9	5.4_79.9		
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9		
A 30 2			9.3_76.5 ⛀ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8		
A 35 2			9.3_95.6 ⛀ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8	
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2		
A 41 2			11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1	
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8		
A 50 2			20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3			51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4	**i =**		211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2				13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3			64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4			208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2				10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3				25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4		
A 70 3				66.9_153.7	66.9_153.7	15.4_153.7 ⛀ (23.5_30.1)	15.4_153.7 ⛀ (23.5_30.1)
A 70 4			292.0_1715	169.8_1715	169.8_1715	169.8_644.6	
A 80 3					82.3_156.8	19.3_156.8 ⛀ (22.6_38.5)	19.3_156.8 ⛀ (22.6_38.5)
A 80 4			354.0_1558	171.3_1558	171.3_1558	171.3_762.1	
A 90 3					98.6_151.0	55.0_151.0	55.0_151.0
A 90 4			449.2_1632	166.1_1632	166.1_1632	166.1_937.2	



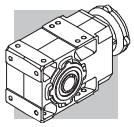
Adaptadores para motor compatíveis com as marcas mais populares de servomotores estão disponíveis para as unidades tamanhos A05…A60. As dimensões das entradas do servomotor são fornecidas na seção “desenho” de cada tamanho de quadro.
O código **SK** é aplicável para entradas com chaveta convencional, enquanto que o eixo de entrada especificado pelo código **SC** terá um dispositivo de fixação em vez da chaveta convencional.

(C 43)

		SERVO INPUT					
		SK40A	SK60A	SK60B	SK80A	SK80B	SK80C
		SC40A	SC60A	SC60B	SC80A	SC80B	SC80C
A 05 2		5.5_91.6	5.5_91.6	5.5_51.3	5.5_51.3		
A 10 2			5.5_91.6	5.5_51.3	5.5_51.3		5.5_65.9
A 20 2			7.3_92.3 ⛀ (10.3)	7.3_63.1 ⛀ (10.3)	7.3_63.1 ⛀ (10.3)		5.4_79.9
A 20 3			109.2_380.9	109.2_380.9	109.2_380.9		109.2_380.9
A 30 2			9.3_97.5 ⛀ (10.5 ; 13.6_16.3)	9.3_76.5 ⛀ (10.5 ; 13.6_16.3)	9.3_76.5 ⛀ (10.5 ; 13.6_16.3)		5.4_97.5
A 30 3			109.1_400.8	109.1_400.8	109.1_400.8		109.1_400.8
A 35 2			9.3_95.6 ⛀ (13.1_20.4)	9.3_95.6 ⛀ (13.1_20.4)	9.3_95.6 ⛀ (13.1_20.4)		5.4_95.6
A 35 3			105.5_393.2	105.5_393.2	105.5_393.2		105.5_393.2
A 41 2	i =					11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2
A 41 3			92.8_376.8	92.8_376.8	92.8_376.8		92.8_376.8
A 50 2						20.9	7.7_20.9
A 50 3						51.7_190.6	24.0_190.6
A 50 4							211.0_778.2
A 55 2							13.1_19.2
A 55 3						64.3_194.2	23.8_194.2
A 55 4							208.1_793.0
A 60 2							10.3_20.6
A 60 3							25.7_185.8
A 60 4						208.7_755.4	208.7_755.4

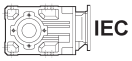
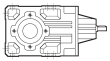
(C 44)

		SERVO INPUT								
		SK95A	SK95B	SK95C	SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC95A	SC95B	SC95C	SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
A 10 2		5.5_51.3	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9				
A 20 2		7.3_63.1 ⛀ (10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9				
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9				
A 30 2		9.3_76.5 ⛀ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5			
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8				
A 35 2		9.3_95.6 ⛀ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6			
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2				
A 41 2	i =	11.7_79.2 ⛀ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1	5.2_45.1	5.2_45.1
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8				
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4
A 50 4		211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2			
A 55 2			13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2
A 55 3		64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0			
A 60 2			10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6
A 60 3		65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4			

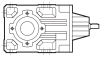


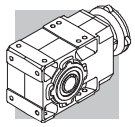
42 MOMENTO DE INÉRCIA

As tabelas abaixo indicam os valores de momento de inércia J_r [kgm²] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:

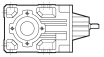
	Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.
	Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).
	Valores sob este símbolo refere-se a redutores com adaptador para motor NEMA (tamanho NEMA...).
	Este símbolo refere-se a valores para redutores.
	Valores sob este símbolo refere-se a redutores com adaptador de entrada para servomotor.

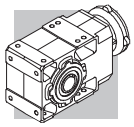
A 05

	i	J (•10⁻⁴) [kgm²]				
			 IEC			
			63	71	80	
A 05 2_5.5	5.5	0.72	0.99	1.0	1.4	—
A 05 2_6.3	6.3	0.56	0.83	0.86	1.2	—
A 05 2_7.2	7.2	0.48	0.74	0.77	1.1	—
A 05 2_8.5	8.5	0.36	0.63	0.65	1.0	—
A 05 2_9.6	9.6	0.29	0.55	0.58	0.92	—
A 05 2_10.6	10.6	0.50	0.77	0.80	1.1	—
A 05 2_12.3	12.3	0.18	0.45	0.48	0.82	—
A 05 2_13.9	13.9	0.35	0.62	0.65	0.99	—
A 05 2_16.4	16.4	0.27	0.54	0.57	0.91	—
A 05 2_18.6	18.6	0.22	0.49	0.51	0.86	—
A 05 2_21.4	21.4	0.16	0.43	0.46	0.80	—
A 05 2_23.8	23.8	0.14	0.41	0.43	0.78	—
A 05 2_25.5	25.5	0.13	0.39	0.42	0.76	—
A 05 2_28.6	28.6	0.11	0.38	0.40	0.75	—
A 05 2_32.2	32.2	0.09	0.36	0.39	0.73	—
A 05 2_35.1	35.1	0.08	0.35	0.37	0.72	—
A 05 2_40.9	40.9	0.07	0.33	0.36	0.70	—
A 05 2_45.4	45.4	0.05	0.32	0.35	0.69	—
A 05 2_51.3	51.3	0.04	0.31	0.34	0.68	—
A 05 2_58.6	58.6	0.04	0.31	—	—	—
A 05 2_65.9	65.9	0.03	0.30	—	—	—
A 05 2_76.4	76.4	0.02	0.29	—	—	—
A 05 2_91.6	91.6	0.02	0.28	—	—	—



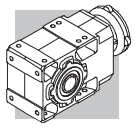
A 05

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
A 05 2_5.5	5.5	0.72	0.99	0.99	1.4	—
A 05 2_6.3	6.3	0.56	0.83	0.83	1.2	—
A 05 2_7.2	7.2	0.48	0.74	0.74	1.1	—
A 05 2_8.5	8.5	0.36	0.63	0.63	1.0	—
A 05 2_9.6	9.6	0.29	0.55	0.55	0.92	—
A 05 2_10.6	10.6	0.50	0.77	0.77	1.1	—
A 05 2_12.3	12.3	0.18	0.45	0.45	0.82	—
A 05 2_13.9	13.9	0.35	0.62	0.62	0.99	—
A 05 2_16.4	16.4	0.27	0.54	0.54	0.91	—
A 05 2_18.6	18.6	0.22	0.49	0.49	0.86	—
A 05 2_21.4	21.4	0.16	0.43	0.43	0.80	—
A 05 2_23.8	23.8	0.14	0.41	0.41	0.78	—
A 05 2_25.5	25.5	0.13	0.39	0.39	0.76	—
A 05 2_28.6	28.6	0.11	0.38	0.38	0.75	—
A 05 2_32.2	32.2	0.09	0.36	0.36	0.73	—
A 05 2_35.1	35.1	0.08	0.35	0.35	0.72	—
A 05 2_40.9	40.9	0.07	0.33	0.33	0.70	—
A 05 2_45.4	45.4	0.05	0.32	0.32	0.69	—
A 05 2_51.3	51.3	0.04	0.31	0.31	0.68	—
A 05 2_58.6	58.6	0.04	0.31	0.31	—	—
A 05 2_65.9	65.9	0.03	0.30	0.30	—	—
A 05 2_76.4	76.4	0.02	0.29	0.29	—	—
A 05 2_91.6	91.6	0.02	0.28	0.28	—	—

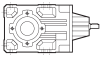


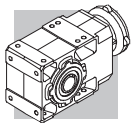
A 05

	i	J (•10-4) [kgm2]					
		SERVO					
		40A		60A		60B 80A	
		SK	SC	SK	SC	SK	SC
A 05 2_5.5	5.5	0.89	1.1	0.99	1.3	1.0	1.4
A 05 2_6.3	6.3	0.73	0.89	0.83	1.1	0.86	1.3
A 05 2_7.2	7.2	0.65	0.81	0.74	1.0	0.77	1.2
A 05 2_8.5	8.5	0.53	0.69	0.63	0.89	0.65	1.1
A 05 2_9.6	9.6	0.46	0.62	0.55	0.81	0.58	1.0
A 05 2_10.6	10.6	0.67	0.83	0.77	1.0	0.80	1.2
A 05 2_12.3	12.3	0.35	0.51	0.45	0.71	0.48	0.92
A 05 2_13.9	13.9	0.52	0.68	0.62	0.88	0.65	1.1
A 05 2_16.4	16.4	0.44	0.60	0.54	0.80	0.57	1.0
A 05 2_18.6	18.6	0.39	0.55	0.49	0.75	0.51	0.95
A 05 2_21.4	21.4	0.33	0.49	0.43	0.69	0.46	0.90
A 05 2_23.8	23.8	0.31	0.47	0.41	0.67	0.43	0.87
A 05 2_25.5	25.5	0.30	0.46	0.39	0.65	0.42	0.86
A 05 2_28.6	28.6	0.28	0.44	0.38	0.64	0.40	0.84
A 05 2_32.2	32.2	0.26	0.42	0.36	0.62	0.39	0.83
A 05 2_35.1	35.1	0.25	0.41	0.35	0.61	0.37	0.81
A 05 2_40.9	40.9	0.24	0.40	0.33	0.59	0.36	0.80
A 05 2_45.4	45.4	0.22	0.38	0.32	0.58	0.35	0.79
A 05 2_51.3	51.3	0.21	0.37	0.31	0.57	0.34	0.78
A 05 2_58.6	58.6	0.21	0.37	0.31	0.57	—	—
A 05 2_65.9	65.9	0.20	0.36	0.30	0.56	—	—
A 05 2_76.4	76.4	0.19	0.35	0.29	0.55	—	—
A 05 2_91.6	91.6	0.19	0.35	0.28	0.54	—	—

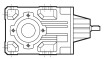


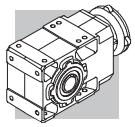
A 10

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
A 10 2_5.5	5.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	1.8
A 10 2_6.3	6.3	0.80	2.3	2.3	3.7	3.6	4.9	4.9	1.6
A 10 2_7.2	7.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	1.5
A 10 2_8.5	8.5	0.45	1.9	1.9	3.3	3.1	4.5	4.5	1.4
A 10 2_9.6	9.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	1.3
A 10 2_10.6	10.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	1.4
A 10 2_12.3	12.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_13.9	13.9	0.30	1.8	1.8	3.2	3.1	4.6	4.6	1.2
A 10 2_16.4	16.4	0.25	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_18.6	18.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.0
A 10 2_21.4	21.4	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_23.8	23.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_25.5	25.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_28.6	28.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_32.2	32.2	0.08	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_35.1	35.1	0.07	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_40.9	40.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_45.4	45.4	0.05	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_51.3	51.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_58.6	58.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_65.9	65.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_76.4	76.4	0.02	1.5	1.5	—	—	—	—	0.90
A 10 2_91.6	91.6	0.01	1.5	1.5	—	—	—	—	0.90



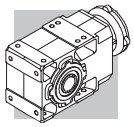
A 10

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
A 10 2_5.5	5.5	1.0	2.5	2.5	3.9	1.8
A 10 2_6.3	6.3	0.80	2.3	2.3	3.7	1.6
A 10 2_7.2	7.2	0.60	2.1	2.1	3.5	1.5
A 10 2_8.5	8.5	0.45	1.9	1.9	3.3	1.4
A 10 2_9.6	9.6	0.30	1.8	1.8	3.2	1.3
A 10 2_10.6	10.6	0.50	2.0	2.0	3.4	1.4
A 10 2_12.3	12.3	0.20	1.7	1.7	3.1	1.1
A 10 2_13.9	13.9	0.30	1.8	1.8	3.2	1.2
A 10 2_16.4	16.4	0.25	1.7	1.7	3.1	1.1
A 10 2_18.6	18.6	0.20	1.7	1.7	3.1	1.0
A 10 2_21.4	21.4	0.15	1.6	1.6	3.0	1.0
A 10 2_23.8	23.8	0.10	1.6	1.6	3.0	1.0
A 10 2_25.5	25.5	0.10	1.6	1.6	3.0	1.0
A 10 2_28.6	28.6	0.10	1.6	1.6	3.0	0.90
A 10 2_32.2	32.2	0.08	1.6	1.6	3.0	0.90
A 10 2_35.1	35.1	0.07	1.6	1.6	3.0	0.90
A 10 2_40.9	40.9	0.06	1.6	1.6	3.0	0.90
A 10 2_45.4	45.4	0.05	1.6	1.6	3.0	0.90
A 10 2_51.3	51.3	0.03	1.5	1.5	2.9	0.90
A 10 2_58.6	58.6	0.03	1.5	1.5	2.9	0.90
A 10 2_65.9	65.9	0.02	1.5	1.5	2.9	0.90
A 10 2_76.4	76.4	0.02	1.5	1.5	—	0.90
A 10 2_91.6	91.6	0.01	1.5	1.5	—	0.90



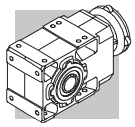
A 10

	i	J (•10-4) [kgm2] SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 10 2_5.5	5.5	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8
A 10 2_6.3	6.3	1.1	1.3	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6
A 10 2_7.2	7.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4
A 10 2_8.5	8.5	0.72	0.98	0.74	1.2	3.3	3.7	3.3	3.8	3.1	4.1
A 10 2_9.6	9.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_10.6	10.6	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 10 2_12.3	12.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_13.9	13.9	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_16.4	16.4	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 10 2_18.6	18.6	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_21.4	21.4	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
A 10 2_23.8	23.8	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_25.5	25.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_28.6	28.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_32.2	32.2	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_35.1	35.1	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_40.9	40.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_45.4	45.4	0.32	0.58	0.34	0.78	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_51.3	51.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
A 10 2_58.6	58.6	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_65.9	65.9	0.29	0.55	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_76.4	76.4	0.29	0.55	—	—	—	—	—	—	—	—
A 10 2_91.6	91.6	0.28	0.54	—	—	—	—	—	—	—	—

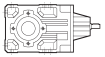


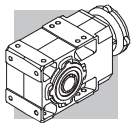
A 20

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
A 20 2_5.4	5.4	2.4	—	—	5.3	5.2	6.5	6.5	4.3
A 20 2_6.5	6.5	1.9	—	—	4.8	4.7	6.0	6.0	3.8
A 20 2_7.3	7.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	3.3
A 20 2_8.4	8.4	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.0
A 20 2_9.4	9.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	2.8
A 20 2_10.3	10.3	1.2	—	—	4.1	4.0	5.3	5.3	3.0
A 20 2_12.0	12.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.4
A 20 2_14.1	14.1	0.70	2.2	2.2	3.6	3.5	4.8	4.8	2.6
A 20 2_16.2	16.2	0.55	2.0	2.0	3.4	3.3	4.6	4.6	2.5
A 20 2_18.1	18.1	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.4
A 20 2_21.2	21.2	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.3
A 20 2_23.1	23.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.2
A 20 2_26.5	26.5	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_29.2	29.2	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_31.3	31.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_35.4	35.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_39.6	39.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_43.2	43.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_48.3	48.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_53.7	53.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_63.1	63.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_71.0	71.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_79.9	79.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_92.3	92.3	0.02	1.5	1.5	—	—	—	—	2.0
A 20 3_109.2	109.2	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_120.5	120.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_129.1	129.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_146.1	146.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_163.4	163.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_178.3	178.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_199.2	199.2	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_221.3	221.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_260.5	260.5	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_292.8	292.8	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_329.4	329.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_380.9	380.9	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90



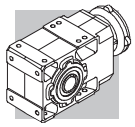
A 20

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
A 20 2_5.4	5.4	2.4	—	—	5.3	4.3
A 20 2_6.5	6.5	1.9	—	—	4.8	3.8
A 20 2_7.3	7.3	1.4	2.9	2.9	4.3	3.3
A 20 2_8.4	8.4	1.1	2.6	2.6	4.0	3.0
A 20 2_9.4	9.4	0.90	2.4	2.4	3.8	2.8
A 20 2_10.3	10.3	1.2	—	—	4.1	3.0
A 20 2_12.0	12.0	0.50	2.0	2.0	3.4	2.4
A 20 2_14.1	14.1	0.70	2.2	2.2	3.6	2.6
A 20 2_16.2	16.2	0.55	2.0	2.0	3.4	2.5
A 20 2_18.1	18.1	0.40	1.9	1.9	3.3	2.4
A 20 2_21.2	21.2	0.35	1.8	1.8	3.2	2.3
A 20 2_23.1	23.1	0.30	1.8	1.8	3.2	2.2
A 20 2_26.5	26.5	0.25	1.7	1.7	3.1	2.1
A 20 2_29.2	29.2	0.20	1.7	1.7	3.1	2.1
A 20 2_31.3	31.3	0.20	1.7	1.7	3.1	2.1
A 20 2_35.4	35.4	0.20	1.7	1.7	3.1	2.1
A 20 2_39.6	39.6	0.10	1.6	1.6	3.0	2.0
A 20 2_43.2	43.2	0.10	1.6	1.6	3.0	2.0
A 20 2_48.3	48.3	0.10	1.6	1.6	3.0	2.0
A 20 2_53.7	53.7	0.10	1.6	1.6	3.0	2.0
A 20 2_63.1	63.1	0.10	1.6	1.6	3.0	2.0
A 20 2_71.0	71.0	0.05	1.5	1.5	2.9	2.0
A 20 2_79.9	79.9	0.03	1.5	1.5	2.9	2.0
A 20 2_92.3	92.3	0.02	1.5	1.5	—	2.0
A 20 3_109.2	109.2	0.02	1.5	1.5	2.9	0.90
A 20 3_120.5	120.5	0.02	1.5	1.5	2.9	0.90
A 20 3_129.1	129.1	0.02	1.5	1.5	2.9	0.90
A 20 3_146.1	146.1	0.02	1.5	1.5	2.9	0.90
A 20 3_163.4	163.4	0.01	1.5	1.5	2.9	0.90
A 20 3_178.3	178.3	0.01	1.5	1.5	2.9	0.90
A 20 3_199.2	199.2	0.01	1.5	1.5	2.9	0.90
A 20 3_221.3	221.3	0.01	1.5	1.5	2.9	0.90
A 20 3_260.5	260.5	0.01	1.5	1.5	2.9	0.90
A 20 3_292.8	292.8	0.01	1.5	1.5	2.9	0.90
A 20 3_329.4	329.4	0.01	1.5	1.5	2.9	0.90
A 20 3_380.9	380.9	0.01	1.5	1.5	2.9	0.90

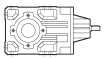


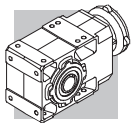
A 20

	i	J (•10-4) [kgm2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 20 2_5.4	5.4	—	—	—	—	—	—	5.3	5.8	5.2	6.2
A 20 2_6.5	6.5	—	—	—	—	—	—	4.8	5.3	4.7	5.7
A 20 2_7.3	7.3	1.7	1.9	1.7	2.1	4.2	4.7	4.3	4.8	4.2	5.2
A 20 2_8.4	8.4	1.4	1.6	1.4	1.8	3.9	4.6	4.0	4.5	3.9	4.9
A 20 2_9.4	9.4	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7
A 20 2_10.3	10.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0
A 20 2_12.0	12.0	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 20 2_14.1	14.1	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5
A 20 2_16.2	16.2	0.82	1.1	0.84	1.3	3.4	3.8	3.4	3.9	3.3	4.3
A 20 2_18.1	18.1	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2
A 20 2_21.2	21.2	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
A 20 2_23.1	23.1	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 20 2_26.5	26.5	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 20 2_29.2	29.2	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_31.3	31.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_35.4	35.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_39.6	39.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_43.2	43.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_48.3	48.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_53.7	53.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_63.1	63.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_71.0	71.0	0.32	0.58	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_79.9	79.9	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_92.3	92.3	0.29	0.55	—	—	—	—	—	—	—	—
A 20 3_109.2	109.2	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_120.5	120.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_129.1	129.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_146.1	146.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_163.4	163.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_178.3	178.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_199.2	199.2	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_221.3	221.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_260.5	260.5	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_292.8	292.8	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_329.4	329.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_380.9	380.9	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8



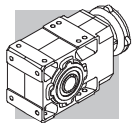
A 30

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
A 30 2_5.4	5.4	4.5	—	—	7.4	7.3	8.6	8.6	6.9
A 30 2_6.4	6.4	3.4	—	—	6.6	6.6	7.8	7.8	6.0
A 30 2_7.0	7.0	2.9	—	—	5.8	5.8	7.0	7.0	5.2
A 30 2_8.5	8.5	2.2	—	—	5.1	5.1	6.3	6.3	4.6
A 30 2_9.3	9.3	1.6	3.1	3.1	4.5	4.4	5.7	5.7	4.0
A 30 2_10.5	10.5	2.3	—	—	5.2	5.1	6.4	6.4	4.6
A 30 2_11.8	11.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.4
A 30 2_13.6	13.6	1.5	—	—	4.4	4.3	5.6	5.6	3.9
A 30 2_16.3	16.3	1.2	—	—	4.1	4.0	5.3	5.3	3.5
A 30 2_18.0	18.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	3.2
A 30 2_20.5	20.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	3.1
A 30 2_22.8	22.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	3.0
A 30 2_26.5	26.5	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.9
A 30 2_29.3	29.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.8
A 30 2_33.4	33.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.7
A 30 2_36.6	36.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.7
A 30 2_39.3	39.3	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_43.4	43.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_48.3	48.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_52.7	52.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.5
A 30 2_59.4	59.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_66.0	66.0	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_76.5	76.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_86.7	86.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_97.5	97.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.4
A 30 3_109.1	109.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_120.5	120.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_137.4	137.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_150.7	150.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_161.4	161.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_178.5	178.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_198.5	198.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_216.6	216.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_244.3	244.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_271.5	271.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_314.5	314.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_356.3	356.3	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_400.8	400.8	0.04	1.5	1.6	2.9	2.8	4.1	4.1	0.90



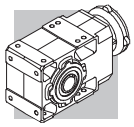
A 30

	i	J (•10-4) [kgm2]				
			NEMA			
			N56C	N140TC	N180TC	
A 30 2_5.4	5.4	4.5	—	—	7.4	6.9
A 30 2_6.4	6.4	3.4	—	—	6.6	6.0
A 30 2_7.0	7.0	2.9	—	—	5.8	5.2
A 30 2_8.5	8.5	2.2	—	—	5.1	4.6
A 30 2_9.3	9.3	1.6	3.1	3.1	4.5	4.0
A 30 2_10.5	10.5	2.3	—	—	5.2	4.6
A 30 2_11.8	11.8	1.1	2.6	2.6	4.0	3.4
A 30 2_13.6	13.6	1.5	—	—	4.4	3.9
A 30 2_16.3	16.3	1.2	—	—	4.1	3.5
A 30 2_18.0	18.0	0.90	2.4	2.4	3.8	3.2
A 30 2_20.5	20.5	0.70	2.2	2.2	3.6	3.1
A 30 2_22.8	22.8	0.60	2.1	2.1	3.5	3.0
A 30 2_26.5	26.5	0.50	2.0	2.0	3.4	2.9
A 30 2_29.3	29.3	0.40	1.9	1.9	3.3	2.8
A 30 2_33.4	33.4	0.35	1.8	1.8	3.2	2.7
A 30 2_36.6	36.6	0.30	1.8	1.8	3.2	2.7
A 30 2_39.3	39.3	0.25	1.7	1.7	3.1	2.6
A 30 2_43.4	43.4	0.20	1.7	1.7	3.1	2.6
A 30 2_48.3	48.3	0.20	1.7	1.7	3.1	2.6
A 30 2_52.7	52.7	0.20	1.7	1.7	3.1	2.5
A 30 2_59.4	59.4	0.10	1.6	1.6	3.0	2.5
A 30 2_66.0	66.0	0.10	1.6	1.6	3.0	2.5
A 30 2_76.5	76.5	0.10	1.6	1.6	3.0	2.5
A 30 2_86.7	86.7	0.10	1.6	1.6	3.0	2.5
A 30 2_97.5	97.5	0.10	1.6	1.6	3.0	2.4
A 30 3_109.1	109.1	0.10	1.6	1.6	3.0	0.90
A 30 3_120.5	120.5	0.10	1.6	1.6	3.0	0.90
A 30 3_137.4	137.4	0.10	1.6	1.6	3.0	0.90
A 30 3_150.7	150.7	0.10	1.6	1.6	3.0	0.90
A 30 3_161.4	161.4	0.10	1.6	1.6	3.0	0.90
A 30 3_178.5	178.5	0.10	1.6	1.6	3.0	0.90
A 30 3_198.5	198.5	0.10	1.6	1.6	3.0	0.90
A 30 3_216.6	216.6	0.10	1.6	1.6	3.0	0.90
A 30 3_244.3	244.3	0.10	1.6	1.6	3.0	0.90
A 30 3_271.5	271.5	0.10	1.6	1.6	3.0	0.90
A 30 3_314.5	314.5	0.10	1.6	1.6	3.0	0.90
A 30 3_356.3	356.3	0.06	1.6	1.6	3.0	0.90
A 30 3_400.8	400.8	0.04	1.5	1.5	2.9	0.90



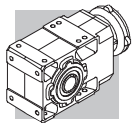
A 30

	i	J (•10-4) [kgm2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 30 2_5.4	5.4	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3
A 30 2_6.4	6.4	—	—	—	—	—	—	6.6	7.1	6.6	7.6	6.6	7.6
A 30 2_7.0	7.0	—	—	—	—	—	—	5.8	6.3	5.8	6.8	5.8	6.8
A 30 2_8.5	8.5	—	—	—	—	—	—	5.1	5.6	5.1	6.1	5.1	6.1
A 30 2_9.3	9.3	1.9	2.1	1.9	2.3	4.4	4.9	4.5	5.0	4.4	5.4	4.4	5.4
A 30 2_10.5	10.5	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
A 30 2_11.8	11.8	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
A 30 2_13.6	13.6	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
A 30 2_16.3	16.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
A 30 2_18.0	18.0	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
A 30 2_20.5	20.5	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5	3.5	4.5
A 30 2_22.8	22.8	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
A 30 2_26.5	26.5	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3	3.3	4.3
A 30 2_29.3	29.3	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
A 30 2_33.4	33.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_36.6	36.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_39.3	39.3	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_43.4	43.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_48.3	48.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_52.7	52.7	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_59.4	59.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_66.0	66.0	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_76.5	76.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_86.7	86.7	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_97.5	97.5	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 3_109.1	109.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_120.5	120.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_137.4	137.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_150.7	150.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_161.4	161.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_178.5	178.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_198.5	198.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_216.6	216.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_244.3	244.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_271.5	271.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_314.5	314.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_356.3	356.3	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
A 30 3_400.8	400.8	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—

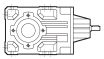


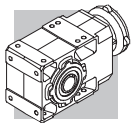
A 35

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
A 35 2_5.4	5.4	7.3	—	—	10	9.9	11	11	24	9.4
A 35 2_6.4	6.4	5.4	—	—	8.1	8.0	9.2	9.2	22	7.4
A 35 2_7.0	7.0	4.6	—	—	7.3	7.2	8.4	8.4	21	6.6
A 35 2_8.5	8.5	3.3	—	—	6.1	5.9	7.1	7.1	20	5.4
A 35 2_9.3	9.3	2.8	3.5	3.5	5.6	5.4	6.6	6.6	19	4.9
A 35 2_10.6	10.6	2.1	2.9	2.9	4.9	4.8	6.0	6.0	19	4.2
A 35 2_11.8	11.8	1.8	2.5	2.5	4.6	4.4	5.7	5.7	18	3.9
A 35 2_13.1	13.1	3.0	—	—	5.7	5.6	6.8	6.8	—	5.0
A 35 2_15.5	15.5	2.2	—	—	5.0	4.9	6.1	6.1	—	4.3
A 35 2_17.0	17.0	2.0	—	—	4.7	4.6	5.8	5.8	—	4.0
A 35 2_20.4	20.4	1.6	—	—	4.3	4.2	5.4	5.4	—	3.6
A 35 2_22.5	22.5	1.3	2.0	2.0	4.1	3.9	5.1	5.1	—	3.4
A 35 2_25.7	25.7	0.97	1.7	1.7	3.7	3.6	4.8	4.8	—	3.0
A 35 2_28.4	28.4	0.86	1.6	1.6	3.6	3.5	4.7	4.7	—	2.9
A 35 2_33.2	33.2	0.69	1.4	1.4	3.5	3.3	4.5	4.5	—	2.8
A 35 2_36.6	36.6	0.58	1.3	1.3	3.3	3.2	4.4	4.4	—	2.6
A 35 2_41.8	41.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	—	2.5
A 35 2_45.8	45.8	0.42	1.1	1.1	3.2	3.1	4.3	4.3	—	2.5
A 35 2_49.1	49.1	0.38	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
A 35 2_54.3	54.3	0.33	1.1	1.0	3.1	3.0	4.2	4.2	—	2.4
A 35 2_60.4	60.4	0.29	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
A 35 2_65.8	65.8	0.25	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
A 35 2_74.3	74.3	0.21	0.95	0.93	3.0	2.8	4.1	4.1	—	2.3
A 35 2_82.5	82.5	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
A 35 2_95.6	95.6	0.15	0.88	0.87	2.9	2.8	4.0	4.0	—	2.2
A 35 3_105.5	105.5	0.11	0.89	0.87	2.9	2.8	4.0	4.0	—	0.80
A 35 3_116.9	116.9	0.11	0.88	0.87	2.9	2.8	4.0	4.0	—	0.79
A 35 3_136.3	136.3	0.10	0.87	0.86	2.9	2.8	4.0	4.0	—	0.78
A 35 3_150.6	150.6	0.09	0.86	0.85	2.9	2.8	4.0	4.0	—	0.77
A 35 3_171.8	171.8	0.08	0.86	0.84	2.9	2.8	4.0	4.0	—	0.77
A 35 3_188.3	188.3	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_201.8	201.8	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_223.2	223.2	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_248.1	248.1	0.07	0.85	0.83	2.9	2.7	4.0	4.0	—	0.76
A 35 3_270.7	270.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_305.4	305.4	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_339.3	339.3	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_393.2	393.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75



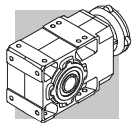
A 35

	i	J (•10-4) [kgm2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
A 35 2_5.4	5.4	7.3	—	—	10	24	9.4
A 35 2_6.4	6.4	5.4	—	—	8.1	22	7.4
A 35 2_7.0	7.0	4.6	—	—	7.3	21	6.6
A 35 2_8.5	8.5	3.3	—	—	6.1	20	5.4
A 35 2_9.3	9.3	2.8	3.5	3.5	5.6	19	4.9
A 35 2_10.6	10.6	2.1	2.9	2.9	4.9	19	4.2
A 35 2_11.8	11.8	1.8	2.5	2.5	4.6	18	3.9
A 35 2_13.1	13.1	3.0	—	—	5.7	—	5.0
A 35 2_15.5	15.5	2.2	—	—	5.0	—	4.3
A 35 2_17.0	17.0	2.0	—	—	4.7	—	4.0
A 35 2_20.4	20.4	1.6	—	—	4.3	—	3.6
A 35 2_22.5	22.5	1.3	2.0	2.0	4.1	—	3.4
A 35 2_25.7	25.7	0.97	1.7	1.7	3.7	—	3.0
A 35 2_28.4	28.4	0.86	1.6	1.6	3.6	—	2.9
A 35 2_33.2	33.2	0.69	1.4	1.4	3.5	—	2.8
A 35 2_36.6	36.6	0.58	1.3	1.3	3.3	—	2.6
A 35 2_41.8	41.8	0.48	1.2	1.2	3.2	—	2.5
A 35 2_45.8	45.8	0.42	1.1	1.1	3.2	—	2.5
A 35 2_49.1	49.1	0.38	1.1	1.1	3.1	—	2.4
A 35 2_54.3	54.3	0.33	1.1	1.1	3.1	—	2.4
A 35 2_60.4	60.4	0.29	1.0	1.0	3.0	—	2.3
A 35 2_65.8	65.8	0.25	1.0	1.0	3.0	—	2.3
A 35 2_74.3	74.3	0.21	0.95	0.95	3.0	—	2.3
A 35 2_82.5	82.5	0.18	0.92	0.92	2.9	—	2.2
A 35 2_95.6	95.6	0.15	0.88	0.88	2.9	—	2.2
A 35 3_105.5	105.5	0.11	0.89	0.89	2.9	—	0.80
A 35 3_116.9	116.9	0.11	0.88	0.88	2.9	—	0.79
A 35 3_136.3	136.3	0.10	0.87	0.87	2.9	—	0.78
A 35 3_150.6	150.6	0.09	0.86	0.86	2.9	—	0.77
A 35 3_171.8	171.8	0.08	0.86	0.86	2.9	—	0.77
A 35 3_188.3	188.3	0.08	0.85	0.85	2.9	—	0.76
A 35 3_201.8	201.8	0.08	0.85	0.85	2.9	—	0.76
A 35 3_223.2	223.2	0.08	0.85	0.85	2.9	—	0.76
A 35 3_248.1	248.1	0.07	0.85	0.85	2.9	—	0.76
A 35 3_270.7	270.7	0.07	0.84	0.84	2.9	—	0.75
A 35 3_305.4	305.4	0.07	0.84	0.84	2.9	—	0.75
A 35 3_339.3	339.3	0.07	0.84	0.84	2.9	—	0.75
A 35 3_393.2	393.2	0.07	0.84	0.84	2.9	—	0.75

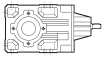


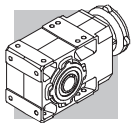
A 35

	i	J (•10-4) [kgm2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 35 2_5.4	5.4	—	—	—	—	—	—	10	11	9.9	10.9	9.9	11
A 35 2_6.4	6.4	—	—	—	—	—	—	8.1	8.6	8.0	9.0	8.0	9.0
A 35 2_7.0	7.0	—	—	—	—	—	—	7.3	7.8	7.2	8.2	7.2	8.2
A 35 2_8.5	8.5	—	—	—	—	—	—	6.1	6.6	5.9	6.9	5.9	6.9
A 35 2_9.3	9.3	3.1	3.3	3.1	3.5	5.6	6.1	5.6	6.1	5.4	6.4	5.4	6.4
A 35 2_10.6	10.6	2.4	2.6	2.4	2.8	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8
A 35 2_11.8	11.8	2.1	2.3	2.1	2.5	4.6	5.1	4.6	5.1	4.4	5.4	4.4	5.4
A 35 2_13.1	13.1	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6
A 35 2_15.5	15.5	—	—	—	—	—	—	5.0	5.5	4.9	5.9	4.9	5.9
A 35 2_17.0	17.0	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
A 35 2_20.4	20.4	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
A 35 2_22.5	22.5	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9	3.9	4.9
A 35 2_25.7	25.7	1.2	1.5	1.3	1.7	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6
A 35 2_28.4	28.4	1.1	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5	3.5	4.5
A 35 2_33.2	33.2	0.96	1.2	0.98	1.4	3.5	3.9	3.5	4.0	3.3	4.3	3.3	4.3
A 35 2_36.6	36.6	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
A 35 2_41.8	41.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_45.8	45.8	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_49.1	49.1	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_54.3	54.3	0.60	0.86	0.62	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_60.4	60.4	0.56	0.82	0.58	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_65.8	65.8	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_74.3	74.3	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
A 35 2_82.5	82.5	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 2_95.6	95.6	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 3_105.5	105.5	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_116.9	116.9	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_136.3	136.3	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_150.6	150.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_171.8	171.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_188.3	188.3	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_201.8	201.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_223.2	223.2	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_248.1	248.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_270.7	270.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_305.4	305.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_339.3	339.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_393.2	393.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—

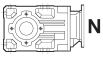
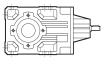


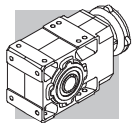
A 41

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
A 41 2_5.2	5.2	13	—	—	16	16	17	17	32	23
A 41 2_7.1	7.1	7.3	—	—	10	10	11	11	26	18
A 41 2_8.3	8.3	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_9.2	9.2	4.5	—	—	7.4	7.3	8.6	8.6	23	15
A 41 2_10.1	10.1	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_11.7	11.7	2.9	4.4	4.4	5.8	5.7	7.0	7.0	22	13
A 41 2_13.8	13.8	3.6	—	—	6.5	6.4	7.7	7.7	23	14
A 41 2_16.1	16.1	2.9	—	—	5.8	5.7	7.0	7.0	22	13
A 41 2_17.8	17.8	2.2	—	—	5.1	5.0	6.3	6.3	21	11
A 41 2_22.7	22.7	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	11
A 41 2_28.3	28.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	10
A 41 2_35.9	35.9	1.7	3.2	3.2	4.6	4.5	5.8	5.8	20	9.8
A 41 2_45.1	45.1	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	9.6
A 41 2_48.3	48.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_53.1	53.1	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_58.8	58.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_64.2	64.2	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_71.3	71.3	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 2_79.2	79.2	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 3_92.8	92.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	—	9.2
A 41 3_115.9	115.9	0.20	1.7	1.7	2.9	3.0	4.3	4.3	—	2.1
A 41 3_146.9	146.9	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_184.4	184.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_197.5	197.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_217.4	217.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_240.6	240.6	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_262.5	262.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_291.7	291.7	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_324.2	324.2	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_376.8	376.8	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0



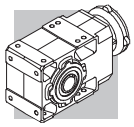
A 41

	i	J (•10-4) [kgm2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
A 41 2_5.2	5.2	13	—	—	16	32	23
A 41 2_7.1	7.1	7.3	—	—	10	26	18
A 41 2_8.3	8.3	5.9	—	—	8.8	25	16
A 41 2_9.2	9.2	4.5	—	—	7.4	23	15
A 41 2_10.1	10.1	5.9	—	—	8.8	25	16
A 41 2_11.7	11.7	2.9	4.4	4.4	5.8	22	13
A 41 2_13.8	13.8	3.6	—	—	6.5	23	14
A 41 2_16.1	16.1	2.9	—	—	5.8	22	13
A 41 2_17.8	17.8	2.2	—	—	5.1	21	11
A 41 2_22.7	22.7	1.5	3.0	3.0	4.4	20	11
A 41 2_28.3	28.3	1.1	2.6	2.6	4.0	20	10
A 41 2_35.9	35.9	1.7	3.2	3.2	4.6	20	9.8
A 41 2_45.1	45.1	1.5	3.0	3.0	4.4	20	9.6
A 41 2_48.3	48.3	1.4	2.9	2.9	4.3	—	9.5
A 41 2_53.1	53.1	1.4	2.9	2.9	4.3	—	9.5
A 41 2_58.8	58.8	1.3	2.8	2.8	4.2	—	9.4
A 41 2_64.2	64.2	1.3	2.8	2.8	4.2	—	9.4
A 41 2_71.3	71.3	1.2	2.7	2.7	4.1	—	9.3
A 41 2_79.2	79.2	1.2	2.7	2.7	4.1	—	9.3
A 41 3_92.8	92.8	1.1	2.6	2.6	4.0	—	9.2
A 41 3_115.9	115.9	0.20	1.7	1.7	2.9	—	2.1
A 41 3_146.9	146.9	0.10	1.6	1.6	2.8	—	2.1
A 41 3_184.4	184.4	0.10	1.6	1.6	2.8	—	2.1
A 41 3_197.5	197.5	0.10	1.6	1.6	2.8	—	2.0
A 41 3_217.4	217.4	0.10	1.6	1.6	2.8	—	2.0
A 41 3_240.6	240.6	0.10	1.6	1.6	2.8	—	2.0
A 41 3_262.5	262.5	0.10	1.6	1.6	2.8	—	2.0
A 41 3_291.7	291.7	0.10	1.6	1.6	2.8	—	2.0
A 41 3_324.2	324.2	0.10	1.6	1.6	2.8	—	2.0
A 41 3_376.8	376.8	0.10	1.6	1.6	2.8	—	2.0



A 41

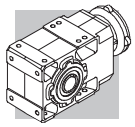
	i	J (•10-4) [kgm2]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 41 2_5.2	5.2	—	—	—	—	—	—	—	—	16	16.5	16	17	16	17	30	32	32	37
A 41 2_7.1	7.1	—	—	—	—	—	—	—	—	10	10.5	10	11	10	11	24	27	26	31
A 41 2_8.3	8.3	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_9.2	9.2	—	—	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3	21	24	23	28
A 41 2_10.1	10.1	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_11.7	11.7	—	—	—	—	5.7	6.2	5.7	6.2	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_13.8	13.8	—	—	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4	21	23	23	28
A 41 2_16.1	16.1	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_17.8	17.8	—	—	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0	19	22	21	26
A 41 2_22.7	22.7	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_28.3	28.3	—	—	—	—	3.9	4.4	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9	18	21	20	25
A 41 2_35.9	35.9	—	—	—	—	4.5	5.0	4.5	5.0	4.6	5.1	4.5	5.5	4.5	5.5	19	21	20	25
A 41 2_45.1	45.1	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_48.3	48.3	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_53.1	53.1	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_58.8	58.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_64.2	64.2	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_71.3	71.3	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 2_79.2	79.2	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 3_92.8	92.8	1.4	1.6	1.4	1.8	—	—	3.9	4.4	4.0	4.5	3.9	4.9	—	—	—	—	—	—
A 41 3_115.9	115.9	0.47	0.73	0.49	0.93	—	—	3.0	3.5	2.9	3.4	3.0	4.0	—	—	—	—	—	—
A 41 3_146.9	146.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_184.4	184.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_197.5	197.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_217.4	217.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_240.6	240.6	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_262.5	262.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_291.7	291.7	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_324.2	324.2	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_376.8	376.8	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—



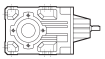
A 50

	i	J (•10-4) [kgm2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
A 50 2_7.7	7.7	15	—	—	18	18	19	19	34	93	91	24
A 50 2_9.7	9.7	10	—	—	13	13	14	14	29	89	86	19
A 50 2_13.1	13.1	6.3	—	—	9.2	9.1	10	10	25	85	82	15
A 50 2_16.6	16.6	4.2	—	—	7.0	7.0	8.2	8.2	23	82	80	13
A 50 2_20.9	20.9	2.8	4.2	4.2	5.7	5.6	6.9	6.9	22	81	79	12
A 50 3_24.0	24.0	6.0	—	—	8.9	8.8	10	10	25	84	82	15
A 50 3_26.4	26.4	5.8	—	—	8.7	8.6	9.9	9.9	25	84	82	15
A 50 3_32.4	32.4	4.0	—	—	6.8	6.8	8.1	8.1	23	82	80	13
A 50 3_35.6	35.6	3.9	—	—	6.7	6.7	8.0	8.0	23	82	80	13
A 50 3_40.9	40.9	2.7	—	—	5.6	5.5	6.8	6.8	22	81	79	12
A 50 3_45.0	45.0	2.6	—	—	5.5	5.4	6.7	6.7	22	81	79	12
A 50 3_51.7	51.7	1.9	3.4	3.4	4.7	4.7	6.0	6.0	21	80	78	11
A 50 3_56.8	56.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	11
A 50 3_63.9	63.9	1.4	2.9	2.8	4.2	4.2	5.5	5.5	20	80	77	11
A 50 3_70.2	70.2	1.4	2.8	2.8	4.2	4.1	5.4	5.4	20	80	77	10
A 50 3_81.5	81.5	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	10
A 50 3_89.5	89.5	0.90	2.4	2.4	3.7	3.7	5.0	5.0	20	79	77	10
A 50 3_99.5	99.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
A 50 3_109.4	109.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
A 50 3_118.0	118.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
A 50 3_129.7	129.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
A 50 3_140.6	140.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
A 50 3_154.6	154.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
A 50 3_173.4	173.4	0.30	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3
A 50 3_190.6	190.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3

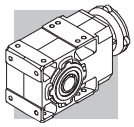
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



A 50

	i	J (•10-4) [kgm2]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
A 50 2_7.7	7.7	15	—	—	18	34	93	91	24
A 50 2_9.7	9.7	10	—	—	13	29	89	86	19
A 50 2_13.1	13.1	6.3	—	—	9.2	25	85	82	15
A 50 2_16.6	16.6	4.2	—	—	7.0	23	82	80	13
A 50 2_20.9	20.9	2.8	4.2	4.2	5.7	22	81	79	12
A 50 3_24.0	24.0	6.0	—	—	8.9	25	84	82	15
A 50 3_26.4	26.4	5.8	—	—	8.7	25	84	82	15
A 50 3_32.4	32.4	4.0	—	—	6.8	23	82	80	13
A 50 3_35.6	35.6	3.9	—	—	6.7	23	82	80	13
A 50 3_40.9	40.9	2.7	—	—	5.6	22	81	79	12
A 50 3_45.0	45.0	2.6	—	—	5.5	22	81	79	12
A 50 3_51.7	51.7	1.9	3.4	3.4	4.7	21	80	78	11
A 50 3_56.8	56.8	1.9	3.3	3.3	4.7	21	80	78	11
A 50 3_63.9	63.9	1.4	2.9	2.9	4.2	20	80	77	11
A 50 3_70.2	70.2	1.4	2.8	2.8	4.2	20	80	77	10
A 50 3_81.5	81.5	0.90	2.4	2.4	3.8	20	79	77	10
A 50 3_89.5	89.5	0.90	2.4	2.4	3.7	20	79	77	10
A 50 3_99.5	99.5	0.60	2.1	2.1	3.5	20	79	77	9.7
A 50 3_109.4	109.4	0.60	2.1	2.1	3.5	20	79	77	9.7
A 50 3_118.0	118.0	0.50	2.0	2.0	3.4	—	—	—	9.6
A 50 3_129.7	129.7	0.50	2.0	2.0	3.4	—	—	—	9.6
A 50 3_140.6	140.6	0.40	1.8	1.8	3.2	—	—	—	9.4
A 50 3_154.6	154.6	0.40	1.8	1.8	3.2	—	—	—	9.4
A 50 3_173.4	173.4	0.30	1.7	1.7	3.1	—	—	—	9.3
A 50 3_190.6	190.6	0.20	1.7	1.7	3.1	—	—	—	9.3

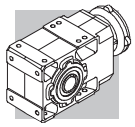
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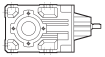
A 50

	i	J (•10-4) [kgm2]									
		SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 50 2_7.7	7.7	—	—	18	19	18	19	32	34	34	39
A 50 2_9.7	9.7	—	—	13	14	13	14	27	29	29	34
A 50 2_13.1	13.1	—	—	9.2	9.7	9.1	10	23	26	25	30
A 50 2_16.6	16.6	—	—	7.0	7.5	7.0	8.0	21	24	23	28
A 50 2_20.9	20.9	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
A 50 3_24.0	24.0	—	—	8.9	9.4	8.8	9.8	23	25	25	30
A 50 3_26.4	26.4	—	—	8.7	9.2	8.6	9.6	23	25	25	30
A 50 3_32.4	32.4	—	—	6.8	7.3	6.8	7.8	21	23	23	28
A 50 3_35.6	35.6	—	—	6.7	7.2	6.7	7.7	21	23	23	28
A 50 3_40.9	40.9	—	—	5.6	6.1	5.5	6.5	20	22	22	27
A 50 3_45.0	45.0	—	—	5.5	6.0	5.4	6.4	20	22	22	27
A 50 3_51.7	51.7	4.7	5.1	4.7	5.2	4.7	5.7	19	21	21	26
A 50 3_56.8	56.8	4.7	5.1	4.7	5.2	4.6	5.6	19	21	21	26
A 50 3_63.9	63.9	4.2	4.7	4.2	5.2	4.2	5.2	18	21	20	25
A 50 3_70.2	70.2	4.2	4.7	4.2	5.2	4.1	5.1	18	21	20	25
A 50 3_81.5	81.5	3.7	4.1	3.8	4.3	3.7	4.7	18	20	20	25
A 50 3_89.5	89.5	3.7	4.1	3.7	4.2	3.7	4.7	18	20	20	25
A 50 3_99.5	99.5	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_109.4	109.4	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_118.0	118.0	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_129.7	129.7	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_140.6	140.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_154.6	154.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_173.4	173.4	3.1	3.6	3.1	3.6	3.0	4.0	—	—	—	—
A 50 3_190.6	190.6	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—

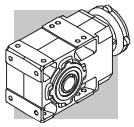
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A 55

	i	J (•10-4) [kgm2]									
			IEC								
			63	71	80	90	100	112	132	160	180	
A 55 2_4.9	4.9	61	—	—	—	—	—	—	77	123	120	70
A 55 2_6.4	6.4	41	—	—	—	—	—	—	57	103	100	50
A 55 2_8.5	8.5	26	—	—	—	—	—	—	42	88	85	35
A 55 2_10.4	10.4	19	—	—	—	—	—	—	35	81	78	28
A 55 2_13.1	13.1	12	—	—	14	14	17	17	28	74	72	21
A 55 2_15.7	15.7	8.9	—	—	11	11	14	14	25	71	68	18
A 55 2_19.2	19.2	6.2	—	—	8.6	8.5	11	11	23	68	66	15
A 55 3_23.8	23.8	11	—	—	13	13	16	16	27	73	70	20
A 55 3_29.9	29.9	7.9	—	—	10	10	13	13	24	70	67	17
A 55 3_40.3	40.3	5.3	—	—	7.8	7.6	10	10	22	68	65	14
A 55 3_51.0	51.0	3.6	—	—	6.0	5.9	8.6	8.6	20	66	63	13
A 55 3_64.3	64.3	2.6	3.1	3.0	5.1	5.0	7.7	7.7	19	65	62	12
A 55 3_79.5	79.5	2.0	2.4	2.4	4.5	4.4	7.1	7.1	18	64	62	11
A 55 3_101.4	101.4	1.3	1.8	1.8	3.8	3.7	6.5	6.5	18	64	61	10
A 55 3_123.9	123.9	1.0	1.5	1.5	3.6	3.4	6.2	6.2	17	63	61	10
A 55 3_132.7	132.7	0.71	1.4	1.4	3.5	3.3	6.1	6.1	—	—	—	9.5
A 55 3_146.8	146.8	0.66	1.4	1.4	3.4	3.3	6.0	6.0	—	—	—	9.4
A 55 3_160.4	160.4	0.58	1.3	1.3	3.3	3.2	6.0	6.0	—	—	—	9.4
A 55 3_175.0	175.0	0.50	1.2	1.2	3.3	3.1	5.9	5.9	—	—	—	9.3
A 55 3_194.2	194.2	0.43	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2

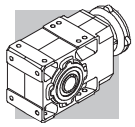
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A 55

	i	J (•10-4) [kgm2]							
			NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
A 55 2_4.9	4.9	61	—	—	—	77	123	120	70
A 55 2_6.4	6.4	41	—	—	—	57	103	100	50
A 55 2_8.5	8.5	26	—	—	—	42	88	85	35
A 55 2_10.4	10.4	19	—	—	—	35	81	78	28
A 55 2_13.1	13.1	12	—	—	14	28	74	72	21
A 55 2_15.7	15.7	8.9	—	—	11	25	71	68	18
A 55 2_19.2	19.2	6.2	—	—	8.6	23	68	66	15
A 55 3_23.8	23.8	11	—	—	13	27	73	70	20
A 55 3_29.9	29.9	7.9	—	—	10	24	70	67	17
A 55 3_40.3	40.3	5.3	—	—	7.8	22	68	65	14
A 55 3_51.0	51.0	3.6	—	—	6.0	20	66	63	13
A 55 3_64.3	64.3	2.6	3.1	3.1	5.1	19	65	62	12
A 55 3_79.5	79.5	2.0	2.4	2.4	4.5	18	64	62	11
A 55 3_101.4	101.4	1.3	1.8	1.8	3.8	18	64	61	10
A 55 3_123.9	123.9	1.0	1.5	1.5	3.6	17	63	61	10
A 55 3_132.7	132.7	0.71	1.4	1.4	3.5	—	—	—	9.5
A 55 3_146.8	146.8	0.66	1.4	1.4	3.4	—	—	—	9.4
A 55 3_160.4	160.4	0.58	1.3	1.3	3.3	—	—	—	9.4
A 55 3_175.0	175.0	0.50	1.2	1.2	3.3	—	—	—	9.3
A 55 3_194.2	194.2	0.43	1.2	1.2	3.2	—	—	—	9.2

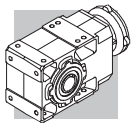
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A 55

	i	J (•10-4) [kgm2]									
		SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 55 2_4.9	4.9	—	—	—	—	—	—	78	80	77	82
A 55 2_6.4	6.4	—	—	—	—	—	—	58	60	57	62
A 55 2_8.5	8.5	—	—	—	—	—	—	43	45	42	47
A 55 2_10.4	10.4	—	—	—	—	—	—	36	38	35	40
A 55 2_13.1	13.1	—	—	14	15	14	15	29	31	28	33
A 55 2_15.7	15.7	—	—	11	12	11	12	26	28	25	30
A 55 2_19.2	19.2	—	—	8.6	9.1	8.5	9.5	23	26	23	28
A 55 3_23.8	23.8	—	—	13	14	13	14	28	30	27	32
A 55 3_29.9	29.9	—	—	10	11	10	11	25	27	24	29
A 55 3_40.3	40.3	—	—	7.8	8.3	7.6	8.6	22	25	22	27
A 55 3_51.0	51.0	—	—	6.0	6.5	5.9	6.9	21	23	20	25
A 55 3_64.3	64.3	5.4	5.9	5.1	5.6	5.0	6.0	20	22	19	24
A 55 3_79.5	79.5	4.8	5.3	4.5	5.0	4.4	5.4	19	21	18	23
A 55 3_101.4	101.4	4.1	4.6	3.8	4.3	3.7	4.7	18	21	18	23
A 55 3_123.9	123.9	3.8	4.3	3.6	4.1	3.4	4.4	18	20	17	22
A 55 3_132.7	132.7	3.5	4.0	3.5	4.0	3.3	4.3	—	—	—	—
A 55 3_146.8	146.8	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
A 55 3_160.4	160.4	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
A 55 3_175.0	175.0	3.3	3.8	3.3	3.8	3.1	4.1	—	—	—	—
A 55 3_194.2	194.2	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—

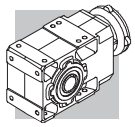
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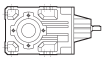
A 60

	i	J (•10-4) [kgm2]									
			IEC								
			63	71	80	90	100	112	132	160	180	
A 60 2_7.9	7.9	36	—	—	—	—	—	—	54	114	112	57
A 60 2_10.3	10.3	23	—	—	25	25	27	27	41	101	99	44
A 60 2_12.7	12.7	16	—	—	19	19	20	20	35	94	92	37
A 60 2_16.7	16.7	9.4	—	—	12	12	14	14	28	88	85	30
A 60 2_20.6	20.6	6.7	—	—	9.6	9.5	11	11	26	85	83	28
A 60 3_25.7	25.7	14	—	—	17	17	18	18	33	92	90	35
A 60 3_27.9	27.9	14	—	—	17	17	18	18	33	92	90	35
A 60 3_31.7	31.7	10	—	—	13	13	15	15	29	89	86	31
A 60 3_34.3	34.3	10	—	—	13	13	14	14	29	89	86	31
A 60 3_41.7	41.7	6.1	—	—	9.0	8.9	10	10	25	84	82	27
A 60 3_45.2	45.2	6.1	—	—	8.9	8.9	10	10	25	84	82	27
A 60 3_51.3	51.3	5.0	—	—	7.4	7.4	8.7	8.7	24	83	81	26
A 60 3_55.6	55.6	4.5	—	—	7.4	7.3	8.6	8.6	23	83	81	26
A 60 3_65.0	65.0	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	82	79	24
A 60 3_70.4	70.4	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	81	79	24
A 60 3_79.7	79.7	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	23
A 60 3_86.4	86.4	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	23
A 60 3_99.5	99.5	2.0	3.5	3.4	4.3	4.3	5.6	5.6	20	80	78	23
A 60 3_107.8	107.8	1.5	3.0	2.9	4.3	4.3	5.6	5.6	20	80	78	22
A 60 3_123.0	123.0	1.1	2.6	2.5	4.0	3.9	5.2	5.2	20	79	77	22
A 60 3_133.3	133.3	1.1	2.6	2.5	3.9	3.9	5.2	5.2	20	79	77	22
A 60 3_144.0	144.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	22
A 60 3_156.0	156.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	22
A 60 3_171.5	171.5	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	22
A 60 3_185.8	185.8	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	22

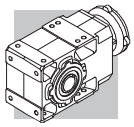
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A 60

	i	J (•10-4) [kgm2]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
A 60 2_7.9	7.9	36	—	—	—	54	114	112	57
A 60 2_10.3	10.3	23	—	—	25	41	101	99	44
A 60 2_12.7	12.7	16	—	—	19	35	94	92	37
A 60 2_16.7	16.7	9.4	—	—	12	28	88	85	30
A 60 2_20.6	20.6	6.7	—	—	9.6	26	85	83	28
A 60 3_25.7	25.7	14	—	—	17	33	92	90	35
A 60 3_27.9	27.9	14	—	—	17	33	92	90	35
A 60 3_31.7	31.7	10	—	—	13	29	89	86	31
A 60 3_34.3	34.3	10	—	—	13	29	89	86	31
A 60 3_41.7	41.7	6.1	—	—	9.0	25	84	82	27
A 60 3_45.2	45.2	6.1	—	—	8.9	25	84	82	27
A 60 3_51.3	51.3	5.0	—	—	7.4	24	83	81	26
A 60 3_55.6	55.6	4.5	—	—	7.4	23	83	81	26
A 60 3_65.0	65.0	3.2	4.7	4.7	6.1	22	82	79	24
A 60 3_70.4	70.4	3.2	4.7	4.7	6.1	22	81	79	24
A 60 3_79.7	79.7	2.1	3.6	3.6	5.0	21	80	78	23
A 60 3_86.4	86.4	2.1	3.6	3.6	5.0	21	80	78	23
A 60 3_99.5	99.5	2.0	3.5	3.5	4.3	20	80	78	23
A 60 3_107.8	107.8	1.5	3.0	3.0	4.3	20	80	78	22
A 60 3_123.0	123.0	1.1	2.6	2.6	4.0	20	79	77	22
A 60 3_133.3	133.3	1.1	2.6	2.6	3.9	20	79	77	22
A 60 3_144.0	144.0	0.80	2.3	2.3	3.7	—	—	—	22
A 60 3_156.0	156.0	0.80	2.3	2.3	3.7	—	—	—	22
A 60 3_171.5	171.5	0.60	2.1	2.1	3.5	—	—	—	22
A 60 3_185.8	185.8	0.60	2.1	2.1	3.5	—	—	—	22

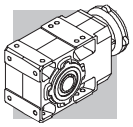
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A 60

	i	J (•10-4) [kgm2]									
		SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 60 2_7.9	7.9	—	—	—	—	—	—	53	55	54	59
A 60 2_10.3	10.3	—	—	25	26	25	26	40	42	41	46
A 60 2_12.7	12.7	—	—	19	20	19	20	33	35	35	40
A 60 2_16.7	16.7	—	—	12	13	12	13	26	29	28	33
A 60 2_20.6	20.6	—	—	9.6	10	9.5	10	24	26	26	31
A 60 3_25.7	25.7	—	—	17	18	17	18	31	33	33	38
A 60 3_27.9	27.9	—	—	17	18	17	18	31	33	33	38
A 60 3_31.7	31.7	—	—	13	14	13	14	27	29	29	34
A 60 3_34.3	34.3	—	—	13	14	13	14	27	29	29	34
A 60 3_41.7	41.7	—	—	9.0	9.5	8.9	9.9	23	26	25	30
A 60 3_45.2	45.2	—	—	8.9	9.4	8.9	9.9	23	26	25	30
A 60 3_51.3	51.3	—	—	7.4	7.9	7.4	8.4	22	24	24	29
A 60 3_55.6	55.6	—	—	7.4	7.9	7.3	8.3	21	24	23	28
A 60 3_65.0	65.0	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_70.4	70.4	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_79.7	79.7	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_86.4	86.4	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_99.5	99.5	4.8	5.3	4.3	4.8	4.3	5.3	19	21	20	25
A 60 3_107.8	107.8	4.3	4.8	4.3	4.8	4.3	5.3	18	21	20	25
A 60 3_123.0	123.0	3.9	4.4	4.0	4.5	3.9	4.9	18	21	20	25
A 60 3_133.3	133.3	3.9	4.4	3.9	4.4	3.9	4.9	18	21	20	25
A 60 3_144.0	144.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_156.0	156.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_171.5	171.5	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
A 60 3_185.8	185.8	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—

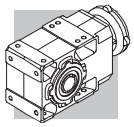
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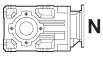
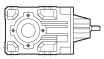
A 70

	i	J (•10-4) [kgm2]											
			IEC										
			80	90	100	112	132	160	180	200	225	250	
A 70 3_9.4	9.4	—	—	—	—	—	—	187	185	194	—	—	150
A 70 3_10.2	10.2	—	—	—	—	—	—	183	180	190	—	—	146
A 70 3_12.1	12.1	—	—	—	—	—	—	150	148	157	—	—	113
A 70 3_13.1	13.1	—	—	—	—	—	—	147	145	154	—	—	111
A 70 3_15.4	15.4	45	—	—	—	—	64	124	121	161	—	—	87
A 70 3_16.7	16.7	44	—	—	—	—	63	122	120	129	—	—	85
A 70 3_19.7	19.7	30	—	—	—	—	49	109	107	—	—	—	72
A 70 3_21.3	21.3	29	—	—	—	—	48	108	106	—	—	—	71
A 70 3_23.5	23.5	—	—	—	—	—	—	116	114	123	—	—	79
A 70 3_27.8	27.8	—	—	—	—	—	—	118	116	125	—	—	81
A 70 3_30.1	30.1	—	—	—	—	—	—	117	115	124	—	—	81
A 70 3_35.4	35.4	26	—	—	—	—	45	104	102	111	—	—	67
A 70 3_38.4	38.4	25	—	—	—	—	44	104	101	111	—	—	67
A 70 3_45.2	45.2	18	—	—	—	—	37	97	94	—	—	—	59
A 70 3_49.0	49.0	18	—	—	—	—	37	96	94	—	—	—	59
A 70 3_53.2	53.2	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_57.7	57.7	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_66.9	66.9	9.7	12	12	13	13	29	88	86	—	—	—	51
A 70 3_72.5	72.5	9.6	12	12	13	13	28	88	86	—	—	—	51
A 70 3_79.3	79.3	6.8	9.4	9.3	11	11	26	85	83	—	—	—	48
A 70 3_85.9	85.9	6.7	9.3	9.3	11	11	26	85	83	—	—	—	48
A 70 3_96.2	96.2	5.4	8.2	8.2	9.4	9.4	24	84	82	—	—	—	47
A 70 3_104.2	104.2	5.4	8.2	8.1	9.4	9.4	24	84	81	—	—	—	47
A 70 3_120.6	120.6	3.4	6.2	6.2	7.5	7.5	22	82	79	—	—	—	45
A 70 3_130.7	130.7	3.4	6.2	6.2	7.4	7.4	22	82	79	—	—	—	45
A 70 3_141.9	141.9	2.4	5.3	5.2	6.5	6.5	21	81	78	—	—	—	44
A 70 3_153.7	153.7	2.4	5.2	5.2	6.5	6.5	21	81	78	—	—	—	44

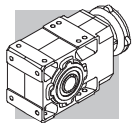
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A 70

	i	J (•10-4) [kgm2]					
			 NEMA				
			N180TC	N210TC	N250TC	N280TC	
A 70 3_9.4	9.4	—	—	—	187	185	150
A 70 3_10.2	10.2	—	—	—	183	180	146
A 70 3_12.1	12.1	—	—	—	150	148	113
A 70 3_13.1	13.1	—	—	—	147	145	111
A 70 3_15.4	15.4	45	—	64	124	121	87
A 70 3_16.7	16.7	44	—	63	122	120	85
A 70 3_19.7	19.7	30	—	49	109	107	72
A 70 3_21.3	21.3	29	—	48	108	106	71
A 70 3_23.5	23.5	—	—	—	116	114	79
A 70 3_27.8	27.8	—	—	—	118	116	81
A 70 3_30.1	30.1	—	—	—	117	115	81
A 70 3_35.4	35.4	26	—	45	104	102	67
A 70 3_38.4	38.4	25	—	44	104	101	67
A 70 3_45.2	45.2	18	—	37	97	94	59
A 70 3_49.0	49.0	18	—	37	96	94	59
A 70 3_53.2	53.2	15	—	34	93	91	56
A 70 3_57.7	57.7	15	—	34	93	91	56
A 70 3_66.9	66.9	9.7	12	29	88	86	51
A 70 3_72.5	72.5	9.6	12	28	88	86	51
A 70 3_79.3	79.3	6.8	9.4	26	85	83	48
A 70 3_85.9	85.9	6.7	9.3	26	85	83	48
A 70 3_96.2	96.2	5.4	8.2	24	84	82	47
A 70 3_104.2	104.2	5.4	8.2	24	84	81	47
A 70 3_120.6	120.6	3.4	6.2	22	82	79	45
A 70 3_130.7	130.7	3.4	6.2	22	82	79	45
A 70 3_141.9	141.9	2.4	5.3	21	81	78	44
A 70 3_153.7	153.7	2.4	5.2	21	81	78	44

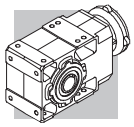
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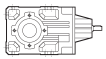
A 80

	i	J (•10-4) [kgm2]											
			IEC										
			80	90	100	112	132	160	180	200	225	250	
A 80 3_9.8	9.8	—	—	—	—	—	—	—	320	333	611	—	286
A 80 3_10.7	10.7	—	—	—	—	—	—	—	309	323	601	—	276
A 80 3_12.3	12.3	—	—	—	—	—	—	239	239	253	531	—	205
A 80 3_13.3	13.3	—	—	—	—	—	—	232	233	246	524	—	199
A 80 3_15.5	15.5	—	—	—	—	—	—	187	185	194	478	—	150
A 80 3_16.7	16.7	—	—	—	—	—	—	183	180	190	474	—	150
A 80 3_19.3	19.3	69	—	—	—	—	88	147	145	154	440	—	111
A 80 3_20.9	20.9	66	—	—	—	—	85	145	142	152	437	—	108
A 80 3_22.6	22.6	—	—	—	—	—	—	—	205	219	496	—	171
A 80 3_24.5	24.5	—	—	—	—	—	—	—	203	217	494	—	169
A 80 3_28.2	28.2	—	—	—	—	—	—	165	166	179	457	—	132
A 80 3_30.6	30.6	—	—	—	—	—	—	164	164	178	456	—	130
A 80 3_35.5	35.5	—	—	—	—	—	—	140	138	147	432	—	104
A 80 3_38.5	38.5	—	—	—	—	—	—	140	137	147	431	—	103
A 80 3_44.5	44.5	39	—	—	—	—	58	118	115	125	410	—	81
A 80 3_48.2	48.2	39	—	—	—	—	58	117	115	124	410	—	90
A 80 3_55.2	55.2	29	—	—	—	—	48	108	105	136	399	—	70
A 80 3_59.8	59.8	29	—	—	—	—	48	107	105	136	399	—	70
A 80 3_66.8	66.8	22	—	—	—	—	41	101	98	128	391	—	63
A 80 3_72.4	72.4	22	—	—	—	—	41	100	98	128	391	—	63
A 80 3_82.3	82.3	15	17	17	18	18	34	94	91	120	384	—	56
A 80 3_89.2	89.2	15	17	17	18	18	34	93	91	120	386	—	56
A 80 3_96.0	96.0	14	16	16	17	17	32	92	90	119	382	—	55
A 80 3_104.0	104.0	13	16	16	17	17	32	92	89	119	382	—	55
A 80 3_116.0	116.0	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_125.6	125.6	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_144.7	144.7	5.4	8.3	8.2	10	10	24	84	82	—	—	—	47
A 80 3_156.8	156.8	5.4	3.0	2.9	4.2	4.2	19	78	76	—	—	—	41

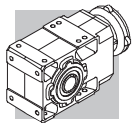
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A 80

	i	J (•10-4) [kgm2]						
			NEMA 					
			N180TC	N210TC	N250TC	N280TC	N320TC	
A 80 3_9.8	9.8	—	—	—	—	320	611	286
A 80 3_10.7	10.7	—	—	—	—	309	601	276
A 80 3_12.3	12.3	—	—	—	239	239	531	205
A 80 3_13.3	13.3	—	—	—	232	233	524	199
A 80 3_15.5	15.5	—	—	—	187	185	478	150
A 80 3_16.7	16.7	—	—	—	183	180	474	150
A 80 3_19.3	19.3	69	—	88	147	145	440	111
A 80 3_20.9	20.9	66	—	85	145	142	437	108
A 80 3_22.6	22.6	—	—	—	—	205	496	171
A 80 3_24.5	24.5	—	—	—	—	203	494	169
A 80 3_28.2	28.2	—	—	—	165	166	457	132
A 80 3_30.6	30.6	—	—	—	164	164	456	130
A 80 3_35.5	35.5	—	—	—	140	138	432	104
A 80 3_38.5	38.5	—	—	—	140	137	431	103
A 80 3_44.5	44.5	39	—	58	118	115	410	81
A 80 3_48.2	48.2	39	—	58	117	115	410	90
A 80 3_55.2	55.2	29	—	48	108	105	399	70
A 80 3_59.8	59.8	29	—	48	107	105	399	70
A 80 3_66.8	66.8	22	—	41	101	98	391	63
A 80 3_72.4	72.4	22	—	41	100	98	391	63
A 80 3_82.3	82.3	15	17	34	94	91	384	56
A 80 3_89.2	89.2	15	17	34	93	91	386	56
A 80 3_96.0	96.0	14	16	32	92	90	382	55
A 80 3_104.0	104.0	13	16	32	92	89	382	55
A 80 3_116.0	116.0	9.1	12	28	87	85	—	50
A 80 3_125.6	125.6	9.1	12	28	87	85	—	50
A 80 3_144.7	144.7	5.4	8.3	24	84	82	—	47
A 80 3_156.8	156.8	5.4	3.0	19	78	76	—	41

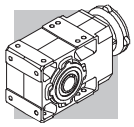
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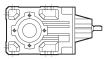
A 90

	i	J (•10-4) [kgm2]										
			IEC									
			80	90	100	112	132	160	180	200	225	250	
A 90 3_9.7	9.7	—	—	—	—	—	—	—	597	611	889	918	898
A 90 3_10.5	10.5	—	—	—	—	—	—	—	575	589	867	896	876
A 90 3_12.6	12.6	—	—	—	—	—	—	—	402	416	693	723	703
A 90 3_13.7	13.7	—	—	—	—	—	—	—	389	403	681	710	690
A 90 3_15.6	15.6	—	—	—	—	—	—	—	306	319	597	627	607
A 90 3_16.9	16.9	—	—	—	—	—	—	—	297	311	589	618	598
A 90 3_19.4	19.4	—	—	—	—	—	—	236	234	243	527	559	530
A 90 3_21.0	21.0	—	—	—	—	—	—	231	228	238	522	553	524
A 90 3_22.3	22.3	—	—	—	—	—	—	—	326	340	618	647	627
A 90 3_24.1	24.1	—	—	—	—	—	—	—	322	336	614	643	623
A 90 3_29.1	29.1	—	—	—	—	—	—	—	243	257	535	564	544
A 90 3_31.5	31.5	—	—	—	—	—	—	—	241	254	532	562	542
A 90 3_35.8	35.8	—	—	—	—	—	—	—	201	215	493	522	502
A 90 3_38.8	38.8	—	—	—	—	—	—	—	200	213	491	521	500
A 90 3_44.6	44.6	—	—	—	—	—	—	169	166	176	460	491	462
A 90 3_48.3	48.3	—	—	—	—	—	—	168	165	175	459	490	461
A 90 3_55.0	55.0	66	—	—	—	—	85	144	142	151	437	468	438
A 90 3_59.6	59.6	66	—	—	—	—	84	144	141	151	436	468	437
A 90 3_68.8	68.8	48	—	—	—	—	67	126	124	154	418	449	416
A 90 3_74.5	74.5	47	—	—	—	—	66	126	123	154	417	449	416
A 90 3_80.4	80.4	43	—	—	—	—	62	121	119	149	412	443	412
A 90 3_87.1	87.1	43	—	—	—	—	62	121	119	148	412	443	412
A 90 3_98.6	98.6	28	30	30	32	32	47	106	104	134	397	428	399
A 90 3_106.8	106.8	28	30	30	31	31	47	106	104	133	397	428	399
A 90 3_116.9	116.9	23	25	25	26	26	41	101	99	128	391	423	394
A 90 3_126.6	126.6	22	25	25	26	26	41	101	98	128	391	422	394
A 90 3_139.4	139.4	15	17	17	19	19	33	93	91	—	—	—	386
A 90 3_151.0	151.0	14	3.0	3.0	4.3	4.3	19	79	76	—	—	—	372

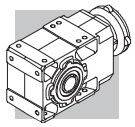
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



A 90

	i	J (•10-4) [kgm2]						
			NEMA 					
			N180TC	N210TC	N250TC	N280TC	N320TC	
A 90 3_9.7	9.7	—	—	—	—	597	889	898
A 90 3_10.5	10.5	—	—	—	—	575	867	876
A 90 3_12.6	12.6	—	—	—	—	402	693	703
A 90 3_13.7	13.7	—	—	—	—	389	681	690
A 90 3_15.6	15.6	—	—	—	—	306	597	607
A 90 3_16.9	16.9	—	—	—	—	297	589	598
A 90 3_19.4	19.4	—	—	—	236	234	527	530
A 90 3_21.0	21.0	—	—	—	231	228	522	524
A 90 3_22.3	22.3	—	—	—	—	326	618	627
A 90 3_24.1	24.1	—	—	—	—	322	614	623
A 90 3_29.1	29.1	—	—	—	—	243	535	544
A 90 3_31.5	31.5	—	—	—	—	241	532	542
A 90 3_35.8	35.8	—	—	—	—	201	493	502
A 90 3_38.8	38.8	—	—	—	—	200	491	500
A 90 3_44.6	44.6	—	—	—	169	166	460	462
A 90 3_48.3	48.3	—	—	—	168	165	459	461
A 90 3_55.0	55.0	66	—	85	144	142	437	438
A 90 3_59.6	59.6	66	—	84	144	141	436	437
A 90 3_68.8	68.8	48	—	67	126	124	418	416
A 90 3_74.5	74.5	47	—	66	126	123	417	416
A 90 3_80.4	80.4	43	—	62	121	119	412	412
A 90 3_87.1	87.1	43	—	62	121	119	412	412
A 90 3_98.6	98.6	28	30	47	106	104	397	399
A 90 3_106.8	106.8	28	30	47	106	104	397	399
A 90 3_116.9	116.9	23	25	41	101	99	391	394
A 90 3_126.6	126.6	22	25	41	101	98	391	394
A 90 3_139.4	139.4	15	17	33	93	91	—	386
A 90 3_151.0	151.0	14	3.0	19	79	76	—	372

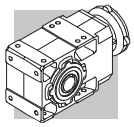
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



43 RELAÇÕES EXATAS

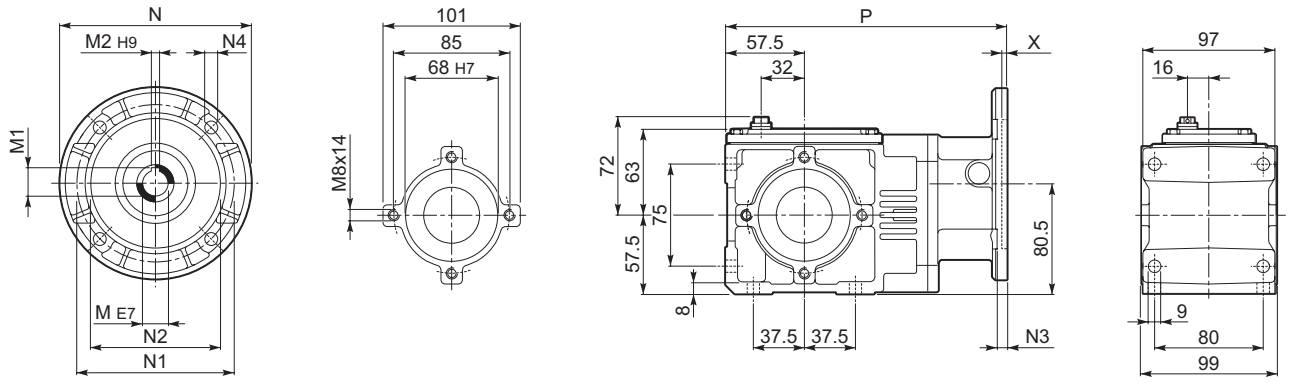
i_N	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
5.0								4.94505				
5.6	5.46559	5.46559	5.35117	5.41311	5.41311	5.24476						
6.3	6.33484	6.33484	6.53846	6.41026	6.41026			6.41026				
7.1	7.21154	7.21154	7.28745	7.02341	7.02341	7.12251						
8.0	8.51648	8.51648	8.37104	8.46154	8.46154	8.33333	7.73684	8.46154	7.86420			
9.0	9.61538	9.61538	9.37500	9.31174	9.31174	9.19732				9.43946		9.67545
10.0	10.55639	10.55639	10.33540	10.45503	10.63348	10.12987	9.73401	10.35503	10.31579	10.22609	9.83278	10.48174
11.2				11.77885	11.77885	11.74089				12.08027	10.65217	12.64214
12.5	12.30769	12.30769	11.96581		13.06878		13.10700	13.07692	12.70370	13.08696	12.27130	13.69565
14.0	13.92857	13.92857	14.07519	13.56522	15.47619	13.75661				15.40468	13.29391	15.57512
16.0	16.44898	16.44898	16.16807	16.34286	16.95652	16.09524	16.57005	15.68047	16.73663	16.68841	15.45151	16.87304
18.0	18.57143	18.57143	18.10714	17.98496		17.76398					19.33779	19.38462
20.0	21.35714	21.35714	21.22449	20.53782	20.42857		20.91813	19.23077	20.5942	19.66555	20.94928	21.00000
22.4	23.77143	23.77143	23.11111	22.75000	22.48120	22.67669				21.30435	22.61538	22.25354
25.0	25.46939	25.46939	26.46429	26.53061	25.67227		24.04795	23.79021	25.71012	23.52000	24.50000	24.10800
28.0	28.57143	28.57143	29.21905	29.30159	28.43750	28.32143	26.43733		27.85263	27.78462	28.22400	29.07692
31.5	32.19048	32.19048	31.30612	33.42857	33.16327		32.38095	29.93134	31.66154	30.10000	30.57600	31.50000
35.5	35.11688	35.11688	35.42857	36.64762	36.62698	35.90476	35.59829		34.30000	35.43077	35.53846	35.82277
40.0	40.85714	40.85714	39.61905	39.26531	41.78571	45.06667	40.93645	40.30303	41.71282	38.38333	38.50000	38.80800
45.0	45.39683	45.39683	43.22078	43.42857	45.80952	48.28571	45.00386		45.18889	45.23077	44.47692	44.58462
50.0	51.25714	51.25714	48.28571	48.28571	49.08163	53.14286	51.67843	50.95166	51.32709	49.00000	48.18333	48.30000
56.0	58.60317	58.60317	53.65079	52.67532	54.28571	58.80952	56.81314		55.60435	53.23314	55.18154	55.03077
63.0	65.92857	65.92857	63.14286	59.42857	60.35714	64.15584	63.89011	64.32168	64.98947	66.94154	66.80237	59.61667
71.0			70.98413	66.03175	65.84416	71.31429	70.23817		70.40526	72.52000	72.36923	68.75077
80.0	76.40816	76.40816	79.85714	76.51429	74.28571	79.23810	81.45055	79.52098	79.71923	79.32781	82.32000	80.37160
90.0	91.61905	91.61905	92.32653	86.66667	82.53968	92.76828	89.54339		86.36250	85.93846	89.18000	87.06923
100.0				97.50000	95.64286		99.53407	101.37762	99.50769	96.21818	104.03077	98.60308
112.2			109.16518	109.07029	105.54155	115.86039	109.42367	123.88531	107.80000	104.23636	115.95524	116.90414
125.0			120.52857	120.46208	116.90972		129.67046	132.73427	123.02769	120.61538	125.61818	126.64615
140.0			146.14286	137.42857	136.33787	146.88312	140.61938	146.80796	144.04260	141.86014	144.73846	139.39301
160.0			163.42857	161.42404	150.57760		154.59118	160.43706	171.46573	169.75499	156.80000	166.12694
180.0			178.28571	178.53968	171.78571	184.36364	173.36264	175.02225	185.75455	183.90123	171.29752	179.97085
200.0			199.17857	198.50794	201.78005	197.53247	190.58777	194.19860	208.73017		214.73193	209.01044
225.0			221.30952	216.55411	223.17460	217.40260	231.98700	208.05260	226.12435	220.25418	232.62626	226.42797
250.0			260.46429	244.31746	248.13492	240.58442	260.88462		264.29053	238.60870		
280.0			292.80952	271.46384	270.69264	291.74026	286.80584	262.64685	286.31474	292.01619	277.28428	281.43590
315.0			329.41071	314.55873	305.39683	324.15584	332.58974		324.19154	316.35088	300.39130	304.88889
355.0				356.29630	339.32981	376.83117	365.63552	324.71066	351.20750	369.38462	353.96864	355.79521
400.0			380.84694	400.83333	393.19841		406.43077		404.66462	400.16667	383.46603	385.44482
450.0							446.81331	413.95862	438.38667	475.76068	442.07937	449.15802
500.0							481.63314	505.86503	500.31262	515.40741	478.91932	486.58785
560.0							574.19580	541.99825	585.77325	595.03590	560.45035	555.29467
630.0							631.24731	655.11801	634.58769	644.62222	607.15455	601.56923
710.0							707.89744	714.67419	697.29399	705.13609	703.46182	707.91953
800.0							778.23340	792.97762	755.40182	855.27273	829.52598	766.91282
900.0										926.54545	898.65315	865.09065
1000.0										1072.13675	1001.43166	1025.1594
1125.0										1161.48148	1084.88430	1110.58935
1250.0										1242.33846	1236.85594	1222.17967
1400.0										1345.86667	1339.92727	1324.02797
1600.0										1583.07692	1557.66545	1506.76450
1800.0										1715.00000		1632.32821

2x 3x 4x



44 DIMENSÕES

A 05...P(IEC)

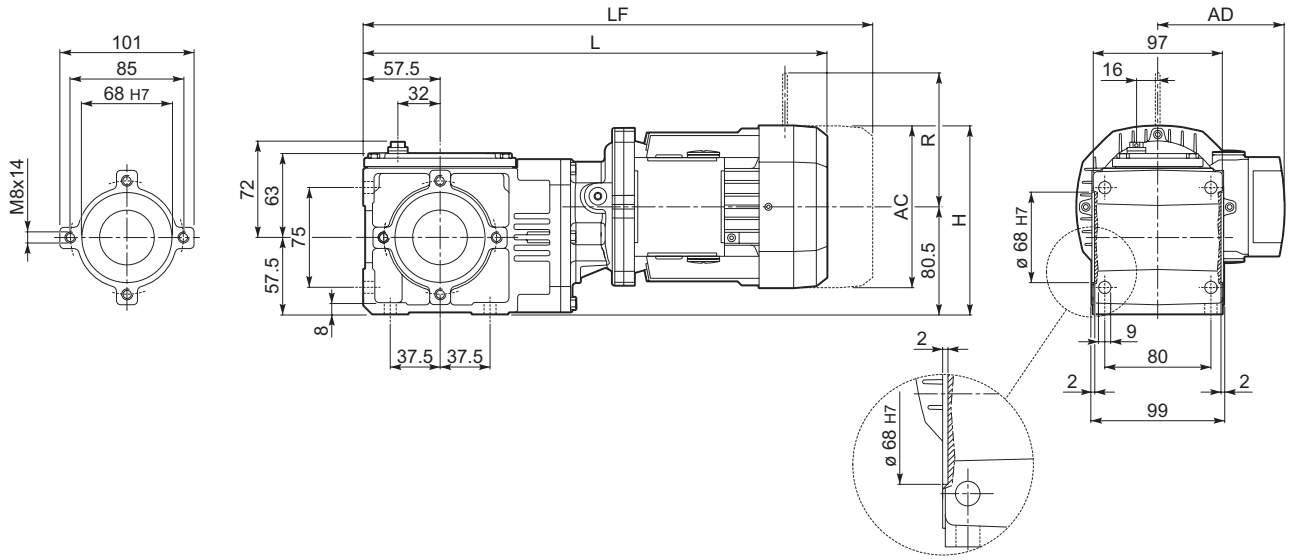


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 05 2	**P63**	11	12.8	4	140	115	95	7	9.5	3.5	206	5
A 05 2	**P71**	14	16.3	5	160	130	110	7	9.5	4	213	5
A 05 2	**P80**	19	20.8	6	200	165	130	7	11.5	4	223	5.5

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

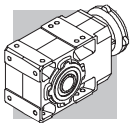
A 05...M/ME



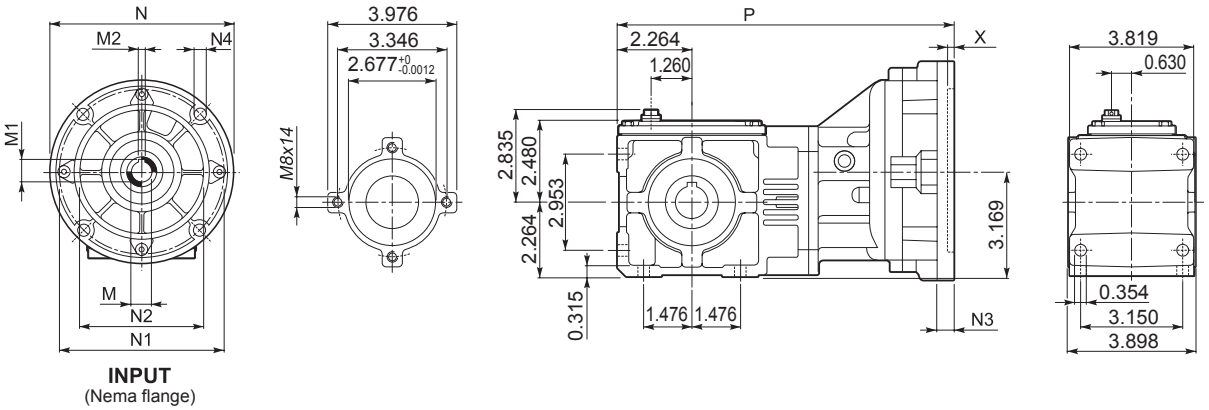
Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 05 2	**S05**	**M05**	121	141	360.5	95	7.5	426.5	9	96	122	116	95
A 05 2	**S1**	**M1**	138	149.5	389.5	108	11.5	450.5	14	103	135	124	108
A 05 2	**S2**	**ME2S**	156	158.5	418.5	119	15.5	—	—	—	—	—	—

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A 05...N(NEMA Input)

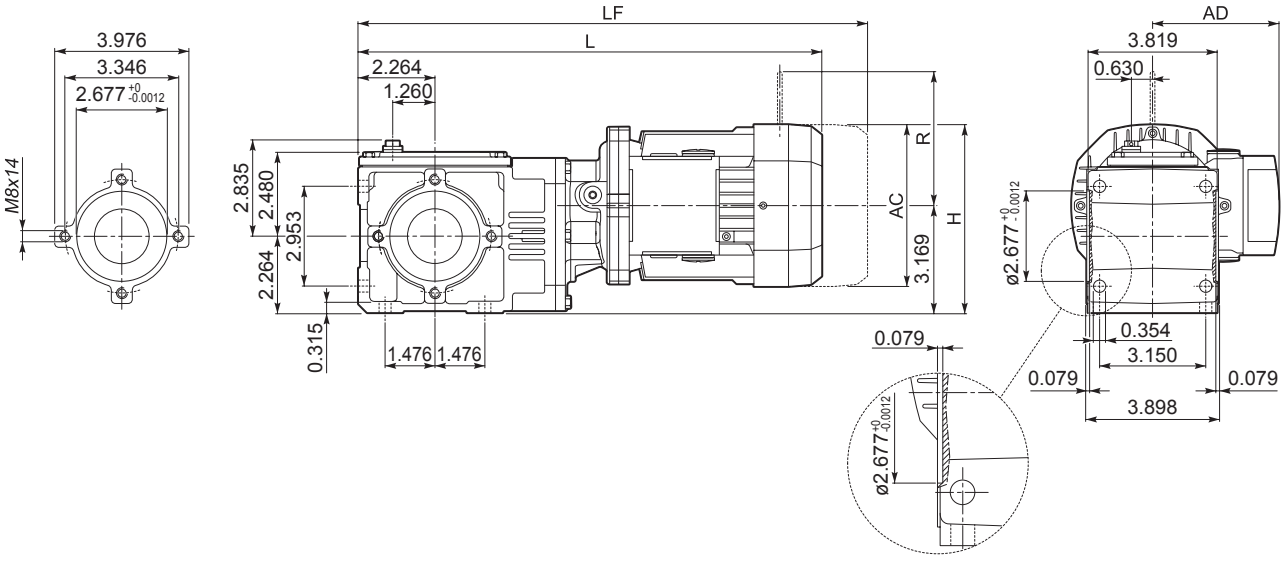


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 05 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.000	11
A 05 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	10.000	11

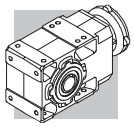
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

A 05...M/ME

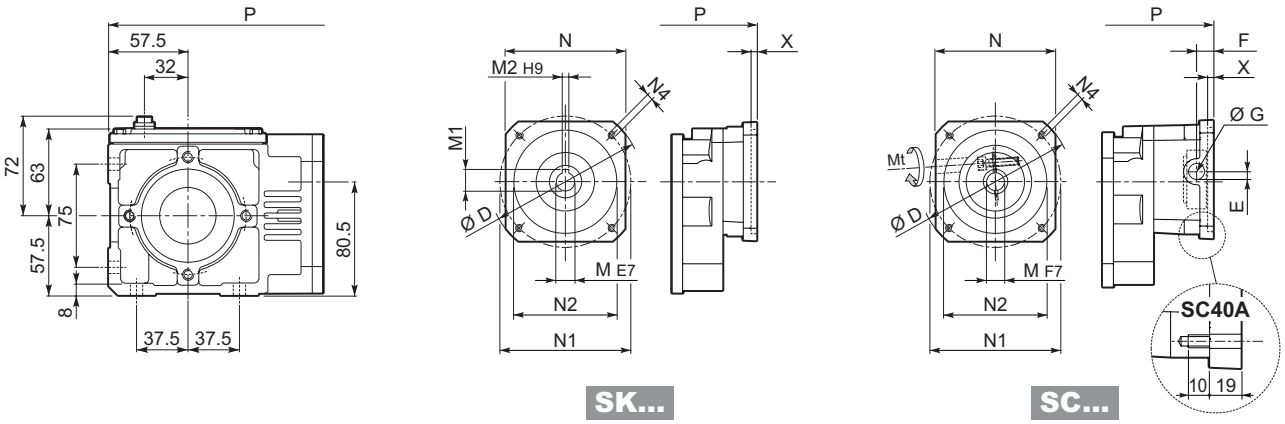


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 05 2	**S05**	**M05**	4.764	5.551	14.193	3.740	17	16.791	20	3.780	4.803	4.567	3.740
A 05 2	**S1**	**M1**	5.433	5.886	15.335	4.252	25	17.736	31	4.055	5.315	4.882	4.252
A 05 2	**S2**	**ME2S**	6.142	6.240	16.476	4.685	34	—	—	—	—	—	—



A 05...SK / SC

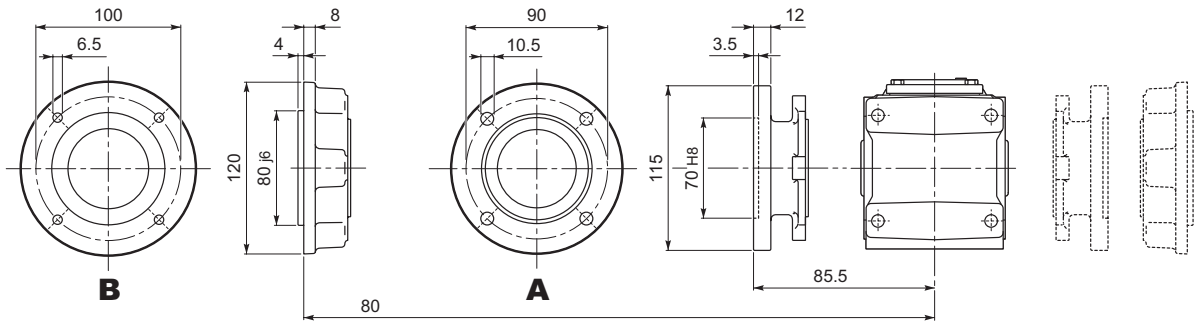


Dimensões em mm

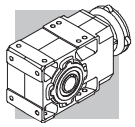
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
A 05 2	**SK40A**	74	9	10.4	3	55	63	40	M5x10	3	207.5	5
A 05 2	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	206	5
A 05 2	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	213	5
A 05 2	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	213	5

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
A 05 2	**SC40A**	M5	15	74	10.5	9.5	12.5	9	55	63	40	M5x10	3	226.5	6
A 05 2	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	233	6
A 05 2	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	233	6
A 05 2	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	233	6

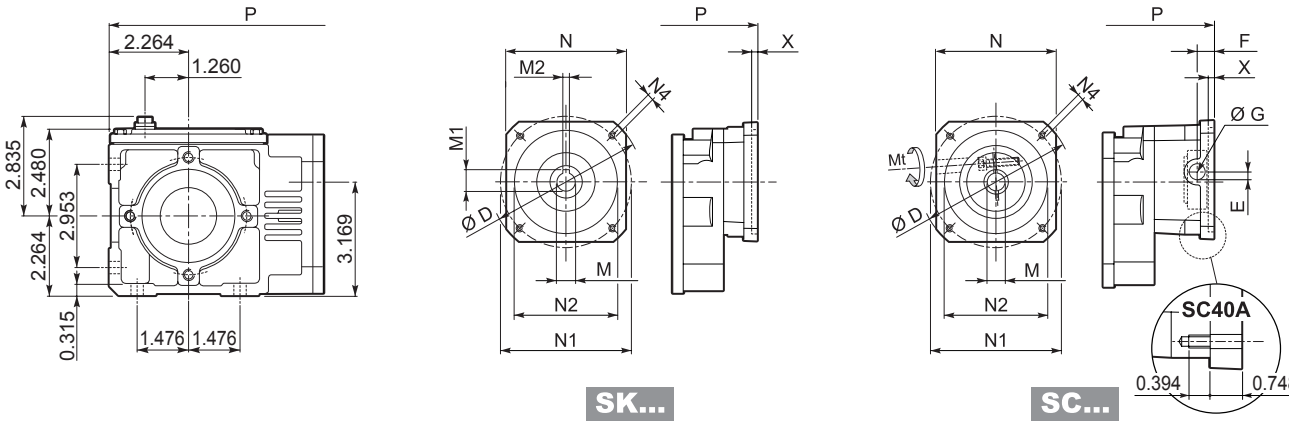
A 05...F...



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A 05...SK / SC

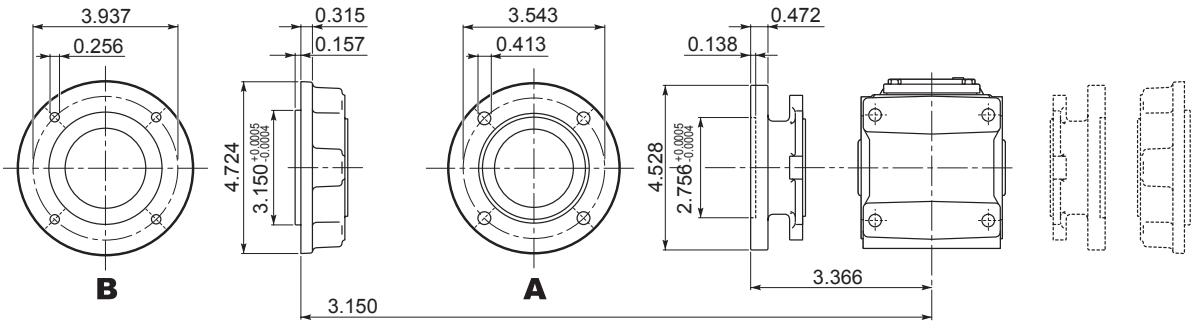


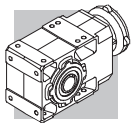
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
A 05 2	**SK40A**	2.913	0.354	0.409	0.118	2.165	2.480	1.575	*M5x10*	0.118	8.169	11
A 05 2	**SK60A**	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	8.110	11
A 05 2	**SK60B**	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	8.386	11
A 05 2	**SK80A**	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	8.386	11

			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
A 05 2	**SC40A**	*M5*	133	2.913	0.413	0.374	0.492	0.354	2.165	2.480	1.575	*M5x10*	0.118	8.917	13
A 05 2	**SC60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	9.173	13
A 05 2	**SC60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	9.173	13
A 05 2	**SC80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	9.173	13

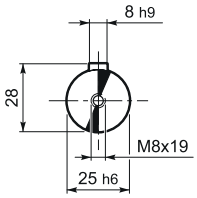
A 05...F...

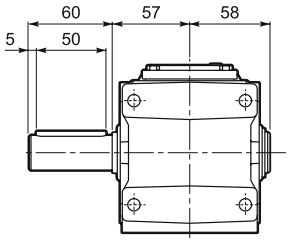




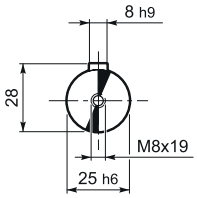
A 05

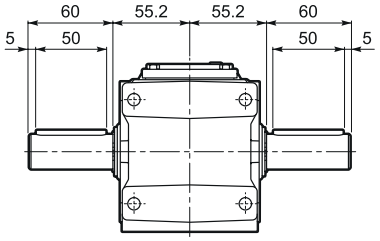
A 05...UR



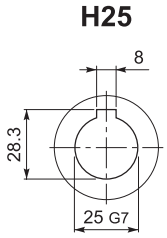


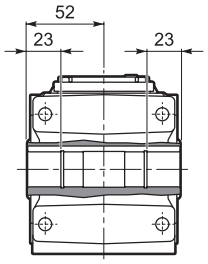
A 05...UD



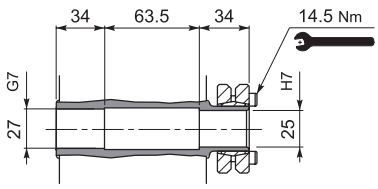


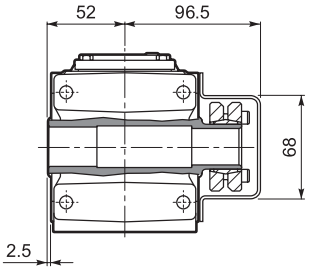
A 05...UH

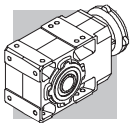




A 05...US



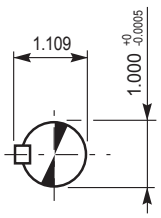


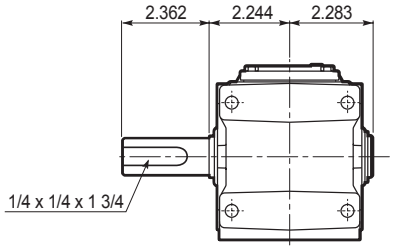


A 05

A 05...NUR

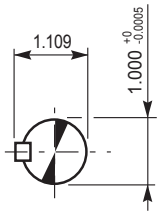
OUTPUT
(Inch Series)

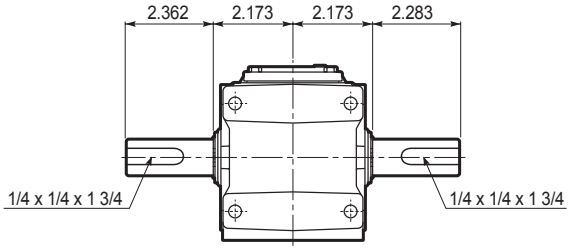




A 05...NUD

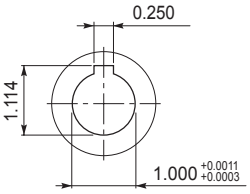
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(Inch Series)

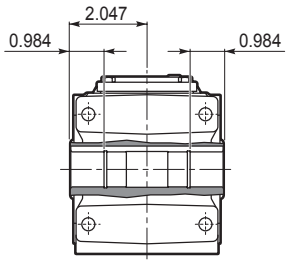




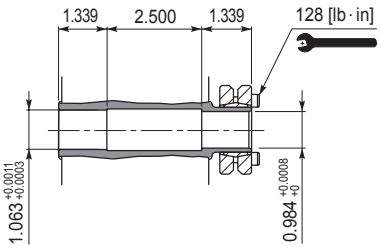
A 05...NUH

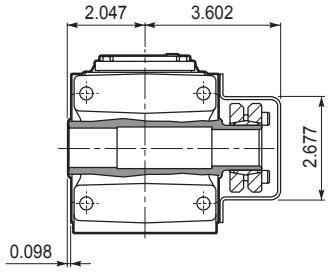
OUTPUT
(Inch Series)

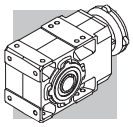




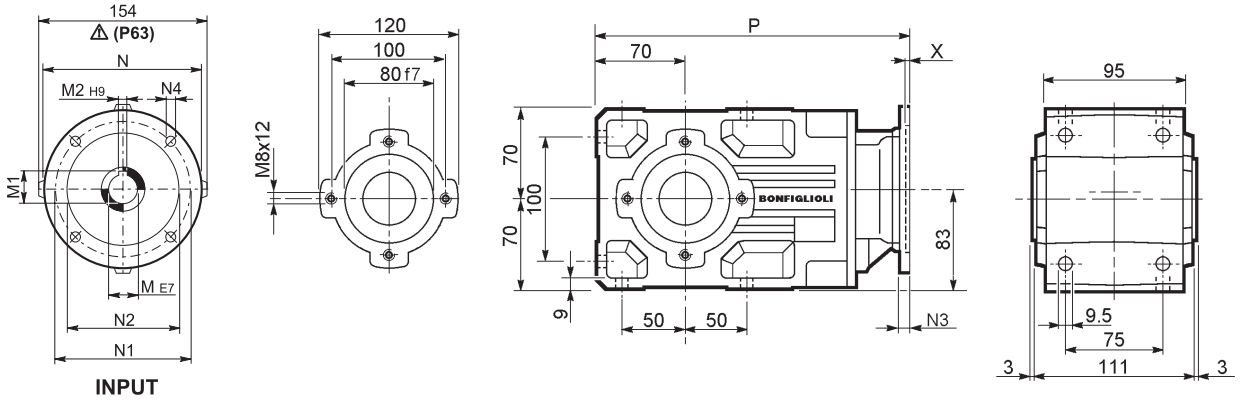
A 05...US







A 10...P(IEC)

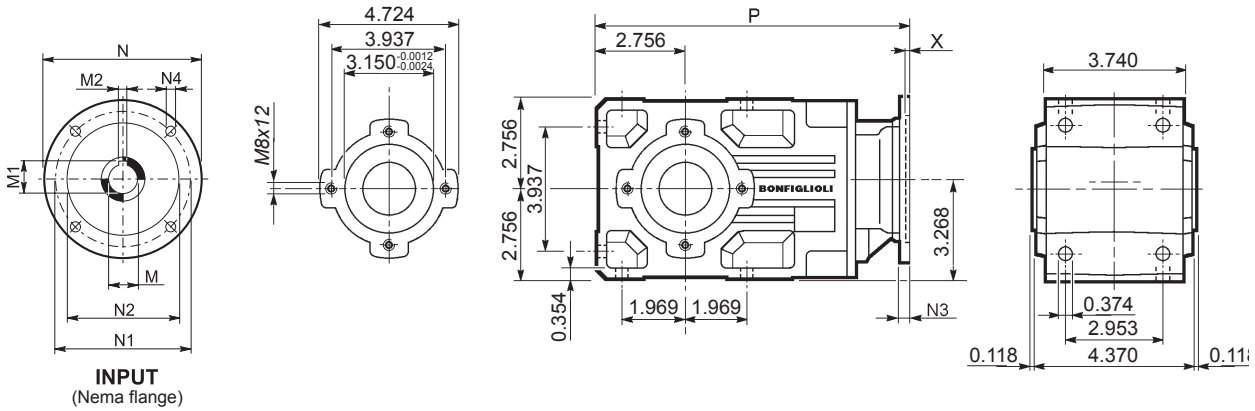


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 10 2	**P63**	11	12.8	4	140	115	95	—	M8x10	4	282.5	8
A 10 2	**P71**	14	16.3	5	160	130	110	—	M8x10	4.5	282.5	9
A 10 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	302	9
A 10 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	302	9
A 10 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	312	13
A 10 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	312	13

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

A 10...N(NEMA Input)

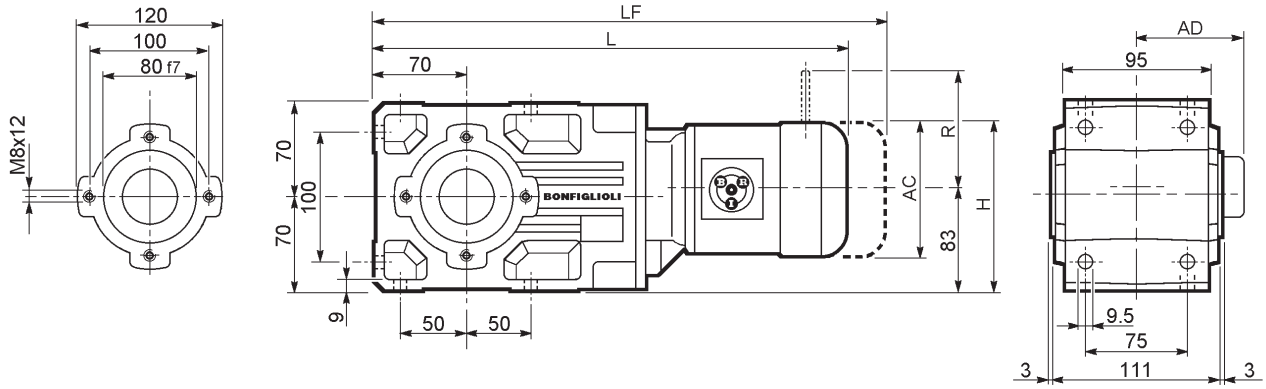


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 10 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.909	20
A 10 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	11.909	20
A 10 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	12.736	29

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

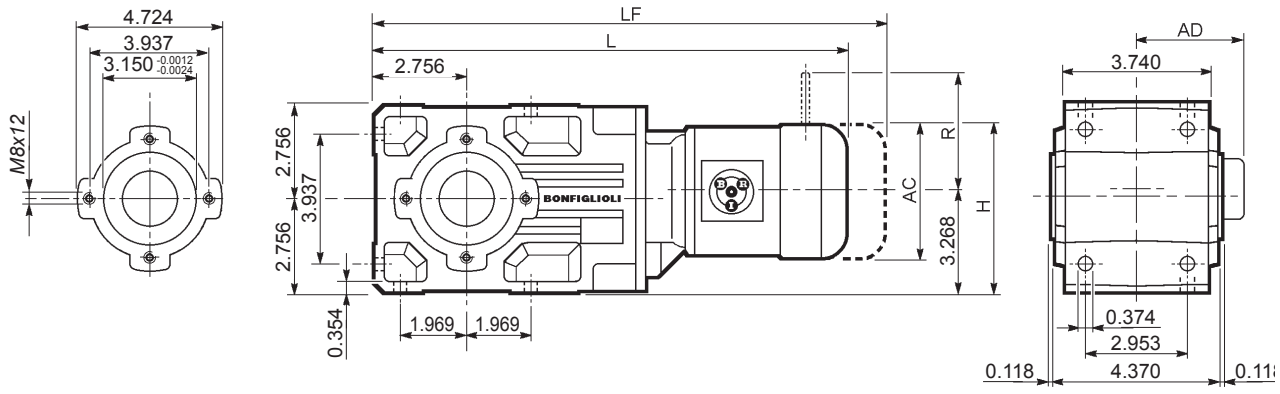
A 10...M/ME



Dimensões em mm

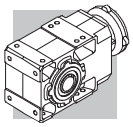
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 10 2	**S05**	**M05**	121	143.5	408.5	95	12	474.5	14	96	122	116	95
A 10 2	**S1**	**M1**	138	152	437.5	108	14	498.5	17	103	135	124	108
A 10 2	**S2**	**ME2S**	156	161	466.5	119	18	—	—	—	—	—	—
A 10 2	**S3**	**ME3S**	195	180.5	509.5	142	24.5	—	—	—	—	—	—
A 10 2	**S3**	**ME3L**	195	180.5	541.5	142	30	—	—	—	—	—	—

A 10...M/ME

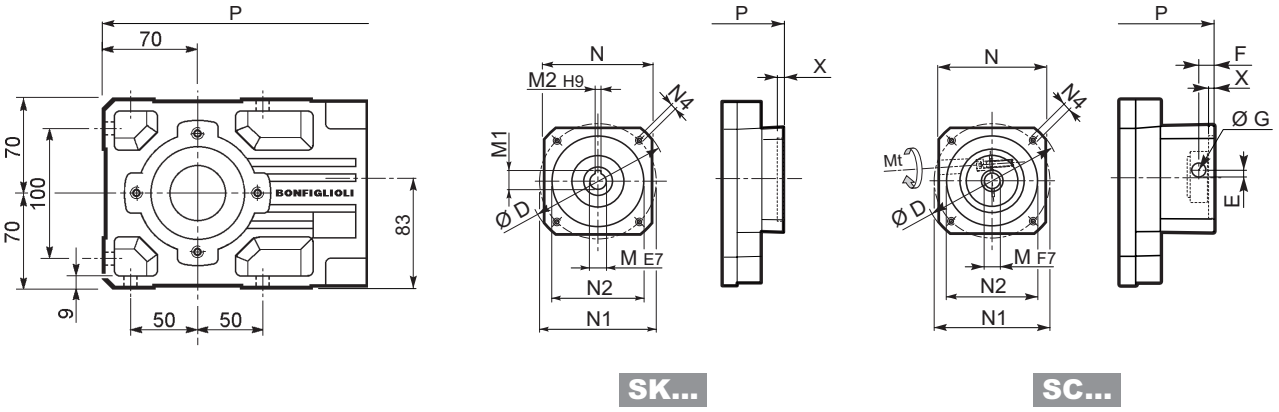


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 10 2	**S05**	**M05**	4.764	5.650	16.083	3.740	26	18.681	31	3.780	4.803	4.567	3.740
A 10 2	**S1**	**M1**	5.433	5.984	17.224	4.252	31	19.626	37	4.055	5.315	4.882	4.252
A 10 2	**S2**	**ME2S**	6.142	6.339	18.366	4.685	40	—	—	—	—	—	—
A 10 2	**S3**	**ME3S**	7.677	7.106	20.059	5.591	54	—	—	—	—	—	—
A 10 2	**S3**	**ME3L**	7.677	7.106	21.319	5.591	66	—	—	—	—	—	—



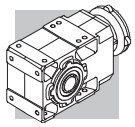
A 10...SK / SC



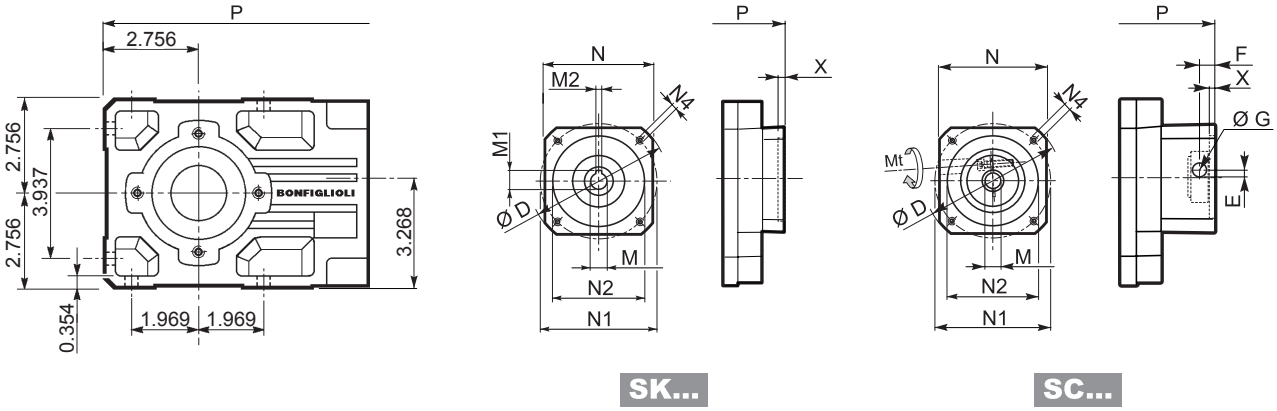
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
A 10 2	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	254	8
A 10 2	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	261	8
A 10 2	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	261	8
A 10 2	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	302	9
A 10 2	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	302	9
A 10 2	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	302	9
A 10 2	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	302	9
A 10 2	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	302	9
A 10 2	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	302	9

			Mt [Nm]	**D**	**E**	**F**	**G**	**M**	**N**	**N1**	**N2**	**N4**	**X**	**P**	Kg
A 10 2	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	281	9
A 10 2	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	281	9
A 10 2	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	281	9
A 10 2	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	325.5	10
A 10 2	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	325.5	10
A 10 2	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	325.5	10
A 10 2	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	325.5	10
A 10 2	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	325.5	12
A 10 2	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	325.5	12



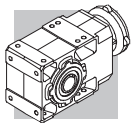
A 10...SK / SC



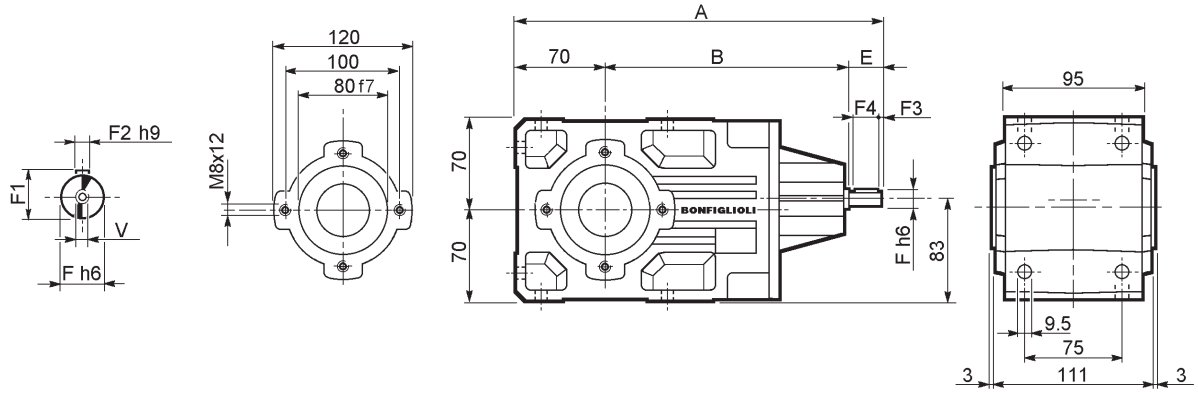
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
A 10 2	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	10.000	18
A 10 2	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	10.276	18
A 10 2	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	10.276	18
A 10 2	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.890	20
A 10 2	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.890	20
A 10 2	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.890	20
A 10 2	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.890	20
A 10 2	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.890	20
A 10 2	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.890	20

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
A 10 2	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	11.063	20
A 10 2	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	11.063	20
A 10 2	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	11.063	20
A 10 2	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	12.815	22
A 10 2	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	12.815	22
A 10 2	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.815	22
A 10 2	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.815	22
A 10 2	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.815	26
A 10 2	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.815	26



A 10...HS

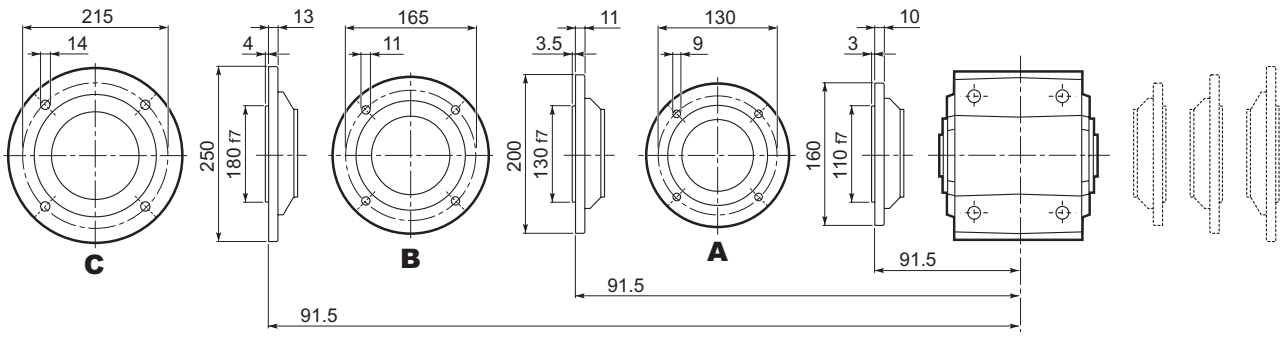


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 10 2	**HS**	289.5	179.5	40	16	18	5	2.5	35	M6x16	7.8

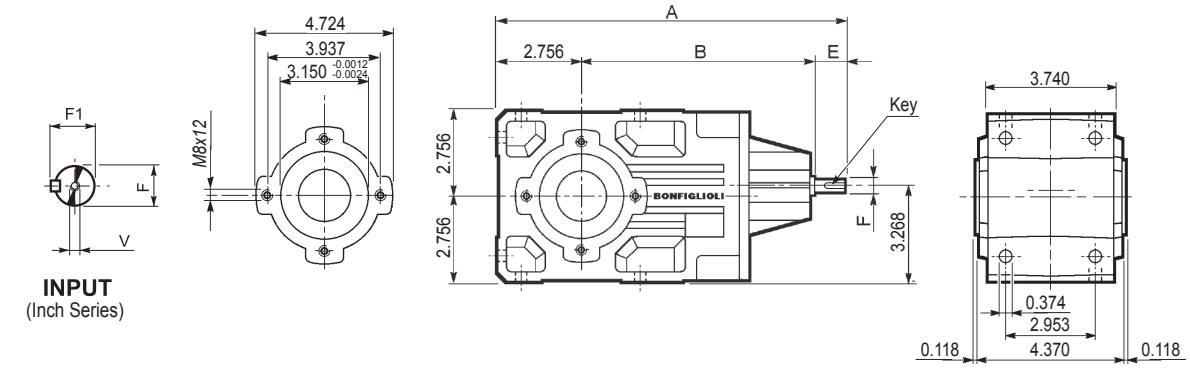
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 10...F...



Bonfiglioli Riduttori

A 10...NHS

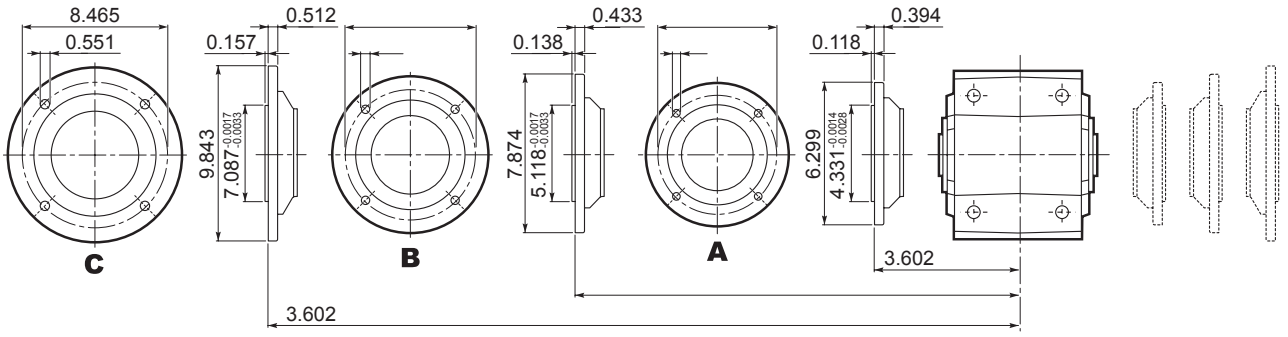


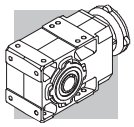
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 10 2	**NHS**	11.398	7.067	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

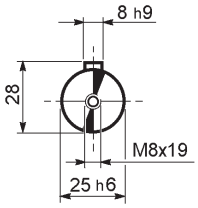
A 10...F...

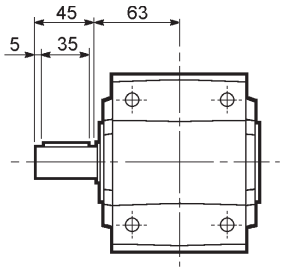




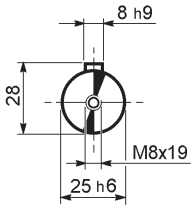
A 10

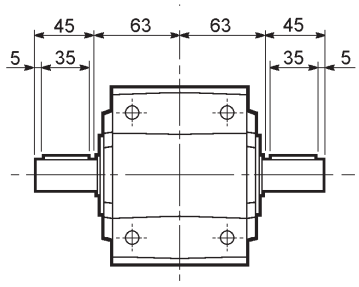
A 10...UR



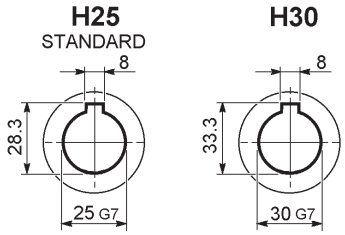


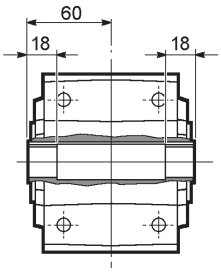
A 10...UD



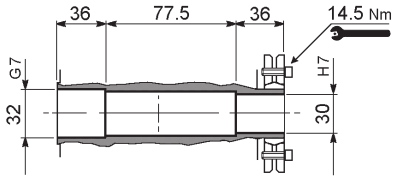


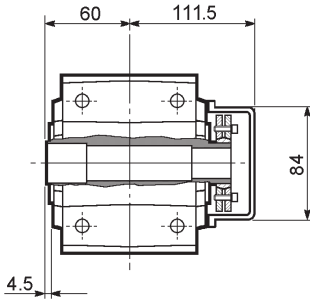
A 10...UH





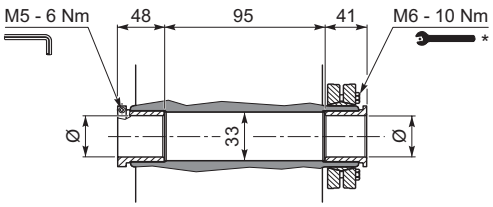
A 10...US

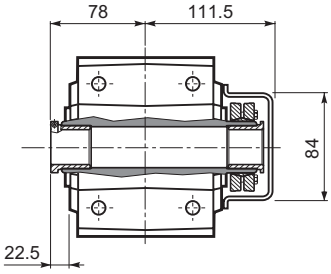




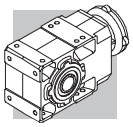
A 10...QF

	Ø
QF25	25
QF30	30





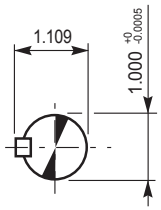
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

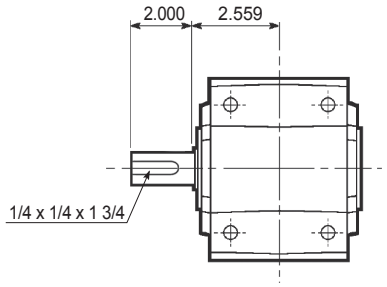


A 10

A 10...NUR

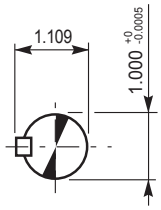
OUTPUT
(Inch Series)

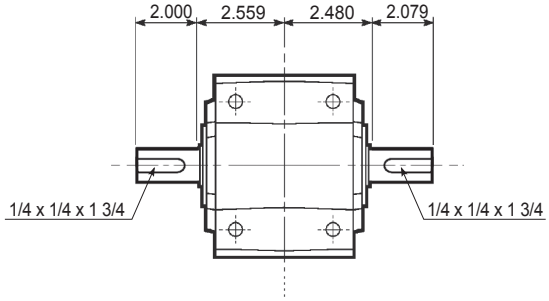




A 10...NUD

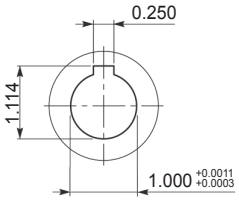
OUTPUT
(Inch Series)

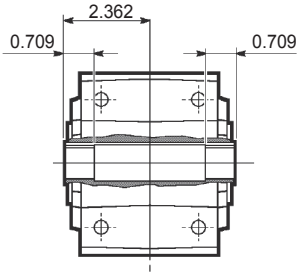




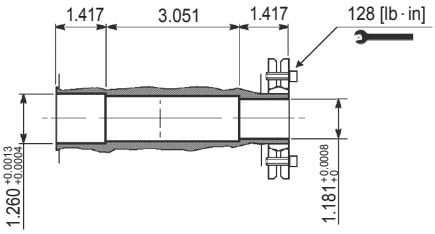
A 10...NUH

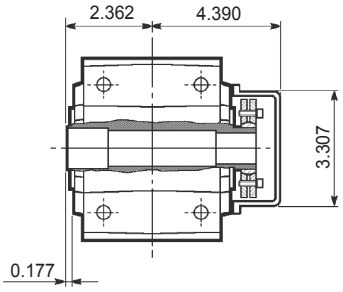
OUTPUT
(Inch Series)



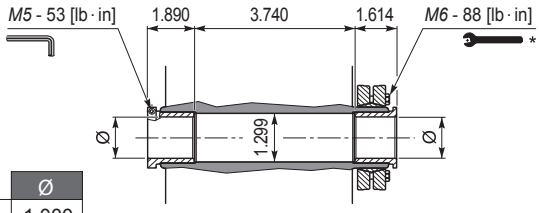


A 10...US

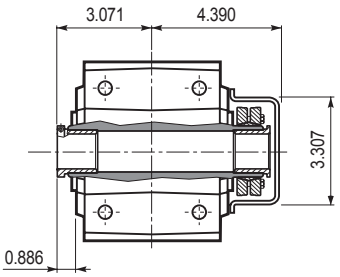




A 10...NQF

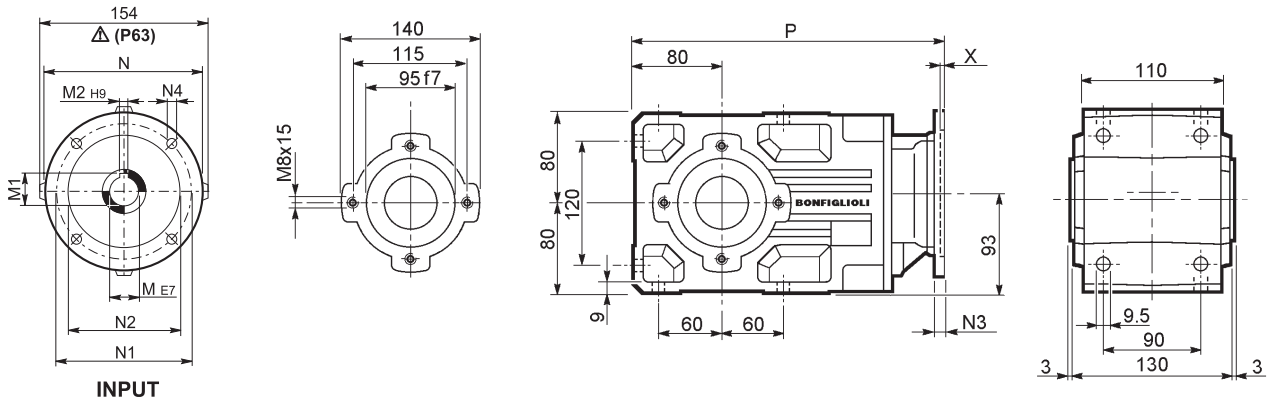


	Ø
NQF1	1.000
NQF1-3/16	1.188



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

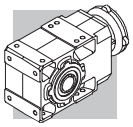
A 20...P(IEC)



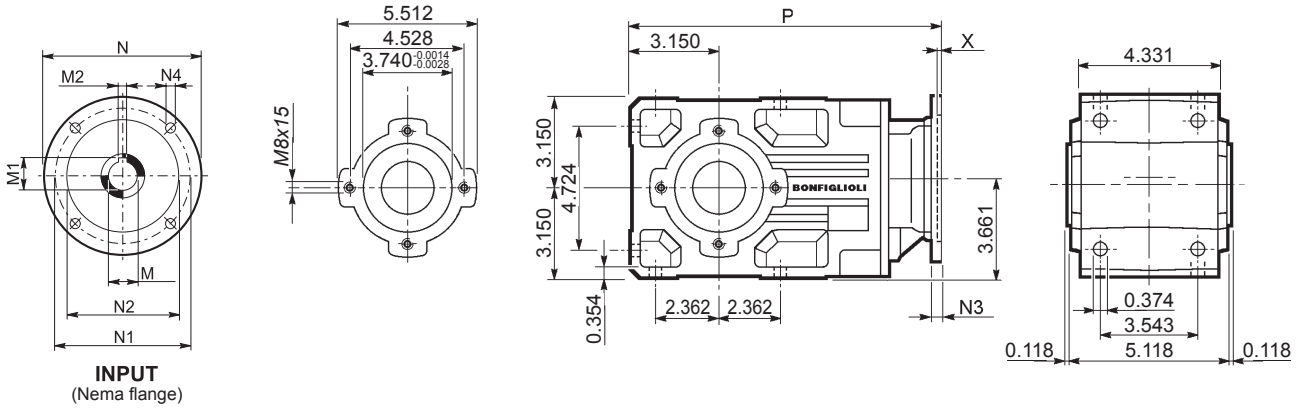
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 20 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	306	12
A 20 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	306	12
A 20 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	325.5	13
A 20 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	325.5	13
A 20 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	361.5	13
A 20 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	361.5	13
A 20 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	381	14
A 20 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	381	14
A 20 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	391	18
A 20 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	391	18

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



A 20...N(NEMA Input)

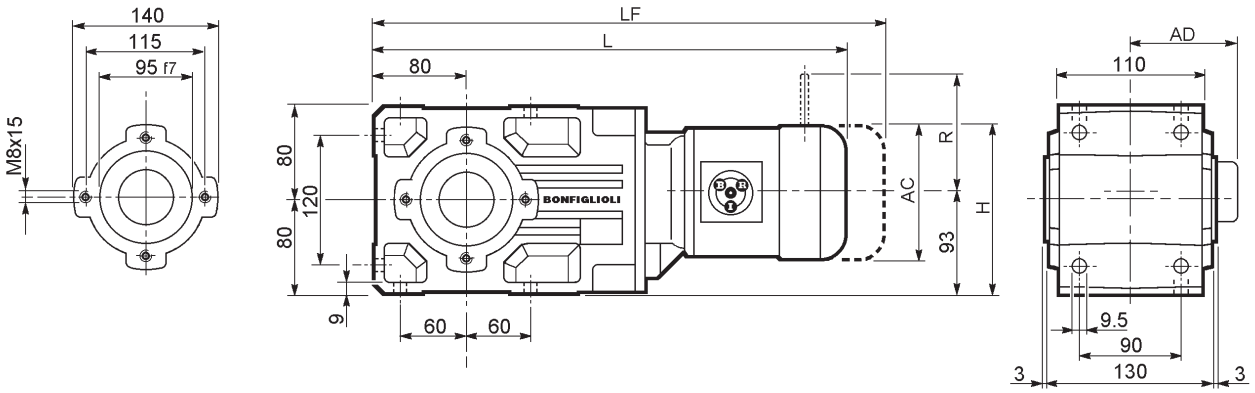


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 20 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	26
A 20 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	29
A 20 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	13.661	37
A 20 3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	26
A 20 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	12.835	29
A 20 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	13.661	37

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

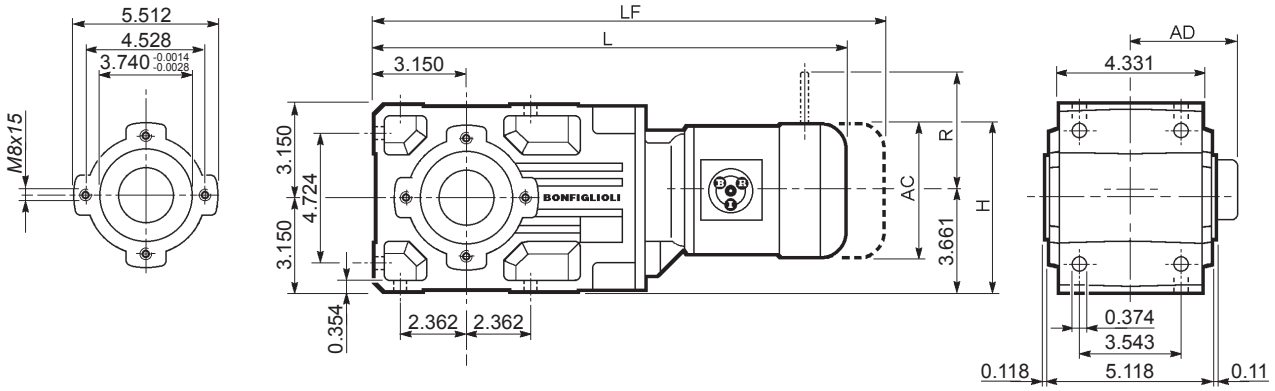
A 20...M/ME



Dimensões em mm

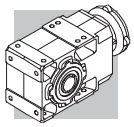
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 20 2	**S05**	**M05**	121	143.5	432	95	16	498	18	96	122	116	95
A 20 2	**S1**	**M1**	138	152	461	108	18	522	21	103	135	124	108
A 20 2	**S2**	**ME2S**	156	161	490	119	22	—	—	—	—	—	—
A 20 2	**S3**	**ME3S**	195	180.5	533	142	28.5	—	—	—	—	—	—
A 20 2	**S3**	**ME3L**	195	180.5	565	142	34	—	—	—	—	—	—
A 20 3	**S05**	**M05**	121	143.5	457.5	95	16	553.5	18	96	122	116	95
A 20 3	**S1**	**M1**	138	152	486.5	108	19	577.5	21	103	135	124	108
A 20 3	**S2**	**ME2S**	156	161	545.5	119	23	—	—	—	—	—	—
A 20 3	**S3**	**ME3S**	195	180.5	588.5	142	29.5	—	—	—	—	—	—
A 20 3	**S3**	**ME3L**	195	180.5	620.5	142	35	—	—	—	—	—	—

A 20...M/ME

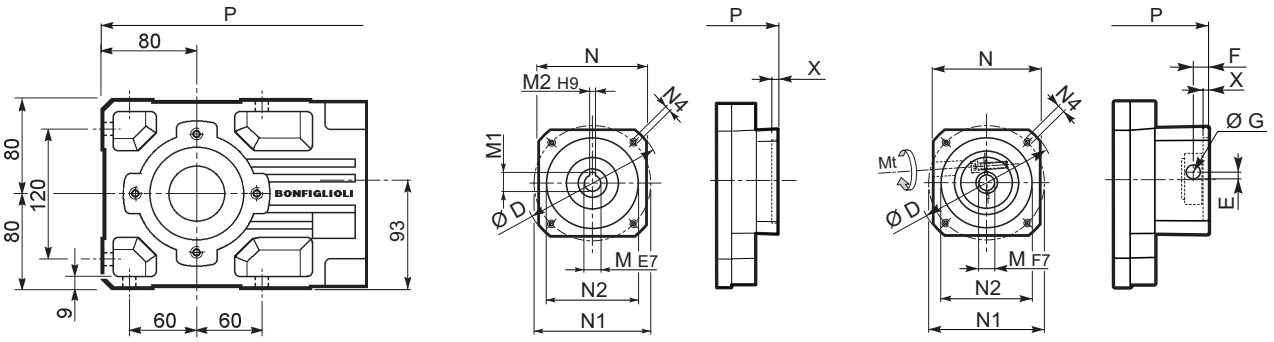


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 20 2	**S05**	**M05**	4.764	5.650	17.008	3.740	35	19.606	40	3.780	4.803	4.567	3.740
A 20 2	**S1**	**M1**	5.433	5.984	18.150	4.252	40	20.551	46	4.055	5.315	4.882	4.252
A 20 2	**S2**	**ME2S**	6.142	6.339	19.291	4.685	49	—	—	—	—	—	—
A 20 2	**S3**	**ME3S**	7.677	7.106	20.984	5.591	63	—	—	—	—	—	—
A 20 2	**S3**	**ME3L**	7.677	7.106	22.244	5.591	75	—	—	—	—	—	—
A 20 3	**S05**	**M05**	4.764	5.650	18.012	3.740	35	21.791	40	3.780	4.803	4.567	3.740
A 20 3	**S1**	**M1**	5.433	5.984	19.154	4.252	42	22.736	46	4.055	5.315	4.882	4.252
A 20 3	**S2**	**ME2S**	6.142	6.339	21.476	4.685	51	—	—	—	—	—	—
A 20 3	**S3**	**ME3S**	7.677	7.106	23.169	5.591	65	—	—	—	—	—	—
A 20 3	**S3**	**ME3L**	7.677	7.106	24.429	5.591	77	—	—	—	—	—	—



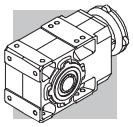
A 20...SK / SC



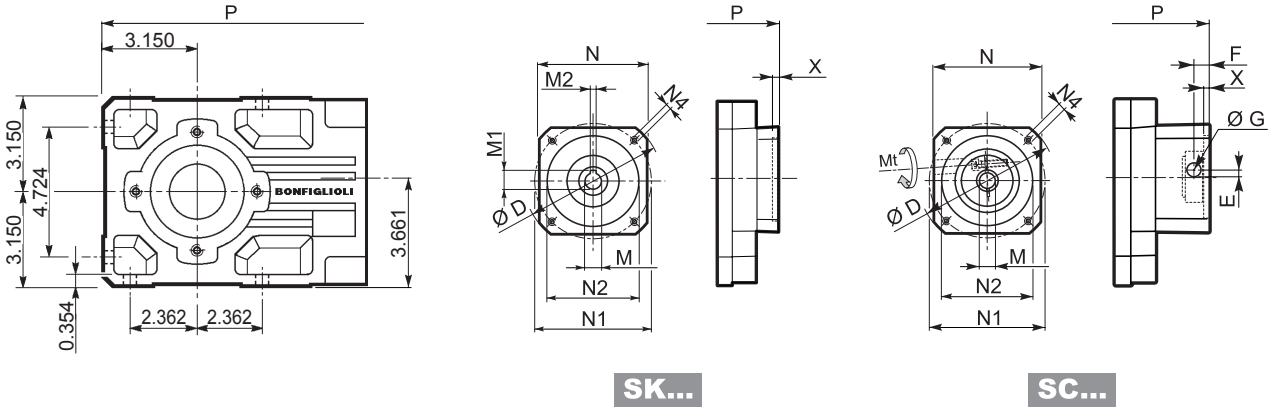
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 20 2/3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	277.5	333	11/12
A 20 2/3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	284.5	340	12/13
A 20 2/3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	284.5	340	12/13
A 20 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	325.5	381	13/14
A 20 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	325.5	381	13/14
A 20 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	325.5	381	13/14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 20 2/3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	304.5	360	12/13
A 20 2/3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	304.5	360	13/14
A 20 2/3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	304.5	360	13/14
A 20 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	349	404.5	14/15
A 20 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	349	404.5	15/16
A 20 2/3	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	349	404.5	15/16



A 20...SK / SC



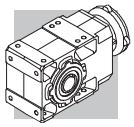
SK...

SC...

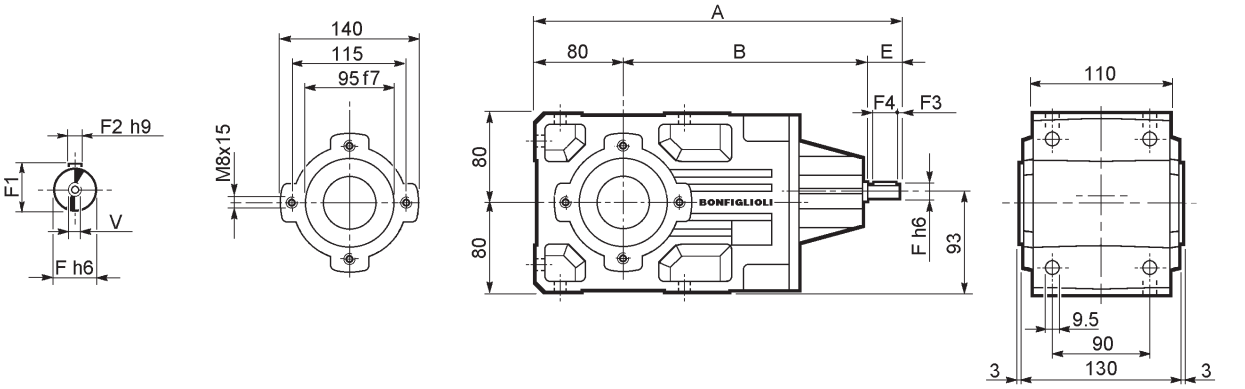
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 20 2/3	**SK60A**	4.016	0.433 +0.0020 +0.0013	0.504	0.157 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.138	10.925	13.110	24/26
A 20 2/3	**SK60B**	4.016	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.228	2.953	2.362	*M5x10*	0.157	11.201	13.386	26/29
A 20 2/3	**SK80A**	4.528	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	3.543	3.937	3.150	*M6x12*	0.157	11.201	13.386	26/29
A 20 2/3	**SK80C**	4.724	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	3.780	3.937	3.150	*M6x12*	0.157	12.815	15.000	29/31
A 20 2/3	**SK95A**	5.118	0.551 +0.0020 +0.0013	0.642	0.197 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	12.815	15.000	26/31
A 20 2/3	**SK95B**	5.118	0.748 +0.0020 +0.0013	0.858	0.236 +0.0012 +0	4.016	4.528	3.740	*M8x12*	0.157	12.815	15.000	29/31
A 20 2/3	**SK95C**	5.118	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.016	4.528	3.740	*M8x12*	0.157	12.815	15.000	29/31
A 20 2/3	**SK110A**	5.906	0.748 +0.0024 +0.0016	0.858	0.236 +0.0012 +0	4.724	5.118	4.331	*M8x12*	0.197	12.815	15.000	31/31
A 20 2/3	**SK110B**	5.906	0.945 +0.0024 +0.0016	1.075	0.315 +0.0014 +0	4.724	5.118	4.331	*M8x12*	0.197	12.815	15.000	29/31

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 20 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	11.988	14.173	26/29
A 20 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 +0.0013 +0.0006	3.228	2.953	2.362	*M5x10*	0.157	11.988	14.173	29/31
A 20 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 +0.0013 +0.0006	3.543	3.937	3.150	*M6x12*	0.157	11.988	14.173	29/31
A 20 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 +0.0016 +0.0008	3.780	3.937	3.150	*M6x12*	0.157	13.740	15.925	31/33
A 20 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 +0.0013 +0.0006	4.016	4.528	3.740	*M8x16*	0.157	13.740	15.925	31/33
A 20 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	13.740	15.925	31/33
A 20 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 +0.0016 +0.0008	4.016	4.528	3.740	*M8x16*	0.157	13.740	15.925	31/33
A 20 2/3	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	13.740	15.925	33/35
A 20 2/3	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 +0.0016 +0.0008	4.724	5.118	4.331	*M8x16*	0.197	13.740	15.925	33/35



A 20...HS

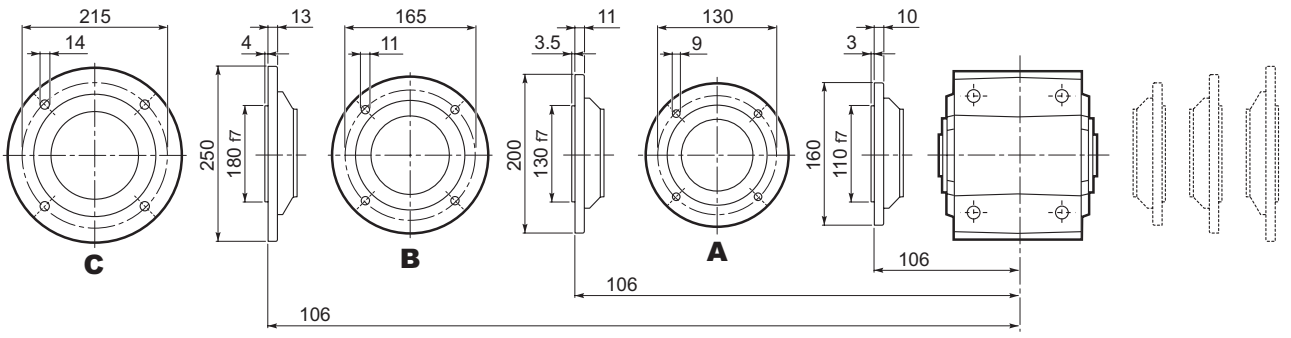


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 20 2	**HS**	356	236	40	19	21.5	6	2.5	35	M6x16	11.9
A 20 3		368.5	248.5	40	16	18	5	2.5	35	M6x16	12.2

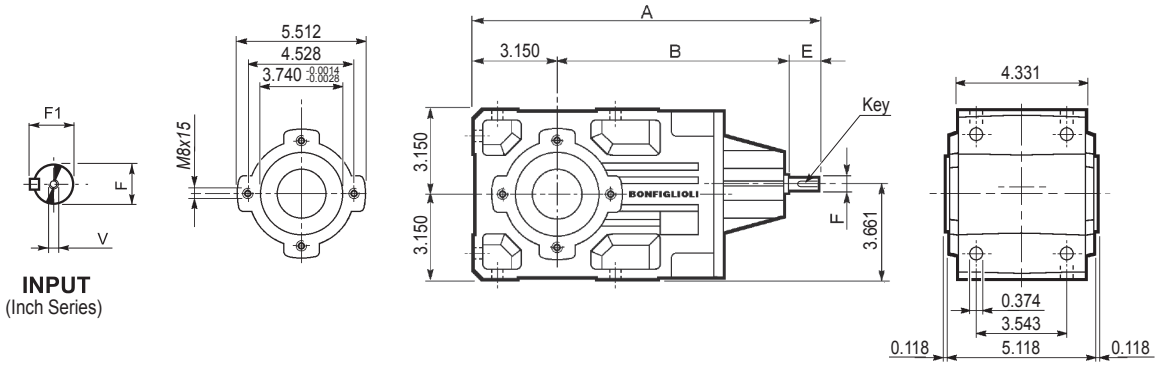
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 20...F...



Bonfiglioli Riduttori

A 20...NHS

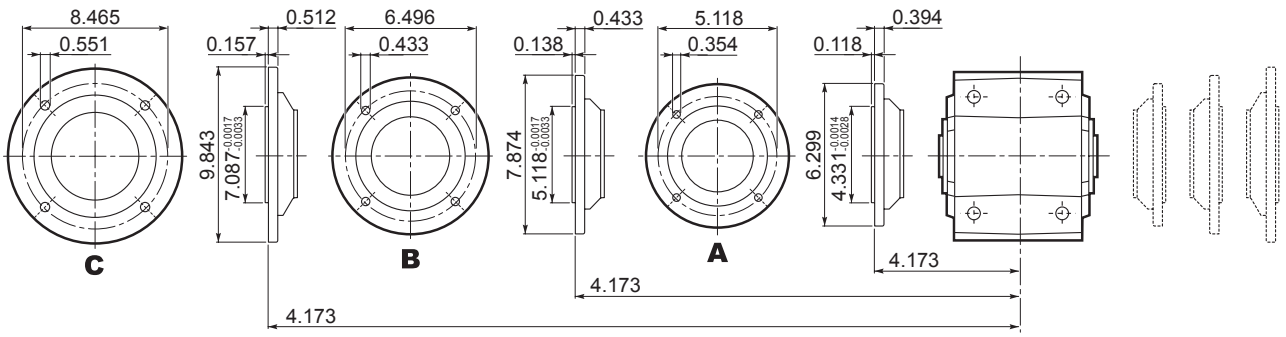


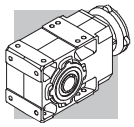
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 20 2	**NHS**	14.016	9.291	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	26
A 20 3	**NHS**	14.508	9.783	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	27

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

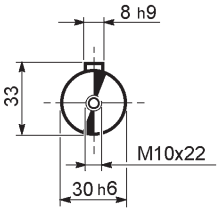
A 20...F...

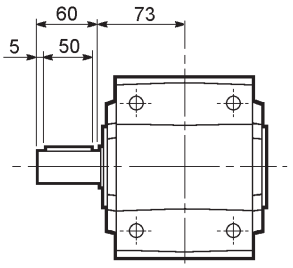




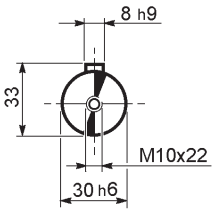
A 20

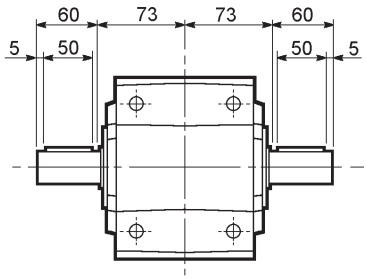
A 20...UR



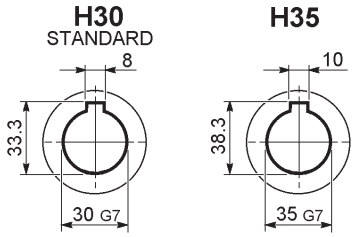


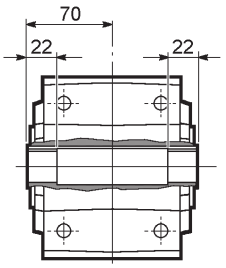
A 20...UD



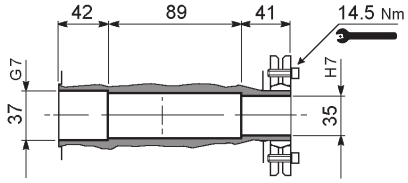


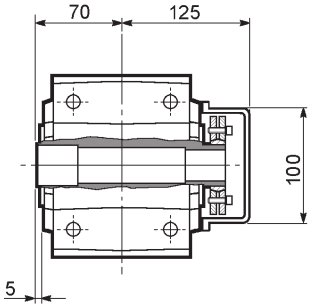
A 20...UH





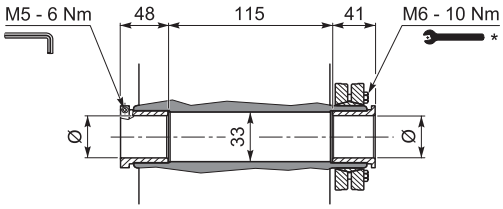
A 20...US

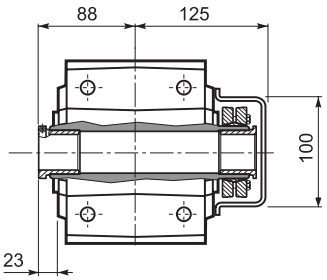




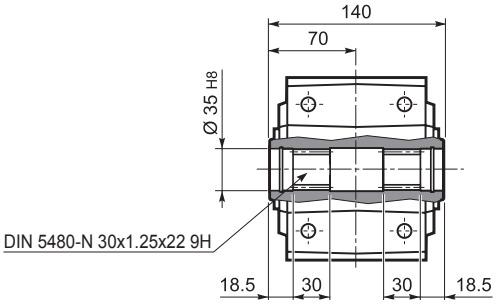
A 20...QF

	Ø
QF25	25
QF30	30

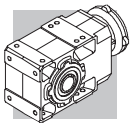




A 20...UV



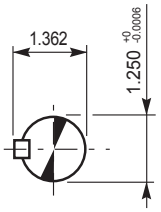
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

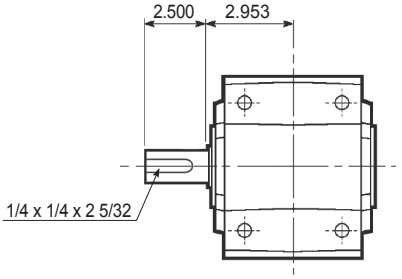


A 20

A 20...NUR

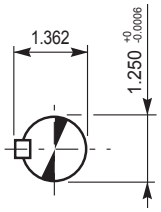
OUTPUT
(Inch Series)

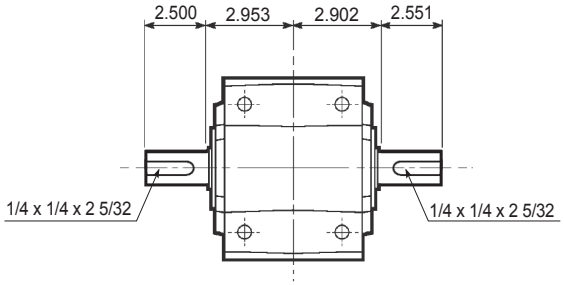




A 20...NUD

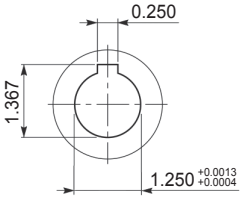
OUTPUT
(Inch Series)

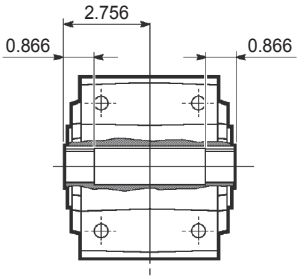




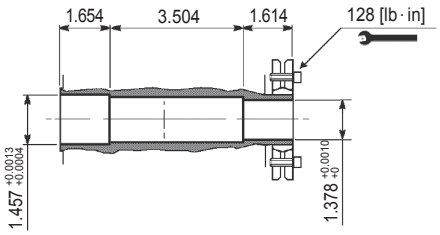
A 20...NUH

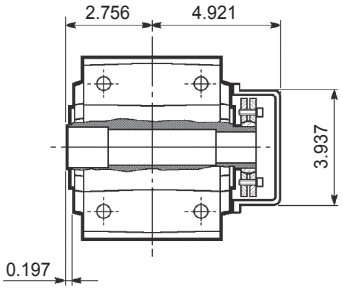
OUTPUT
(Inch Series)



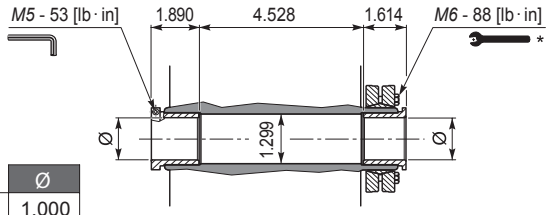


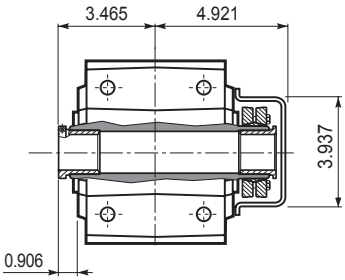
A 20...US





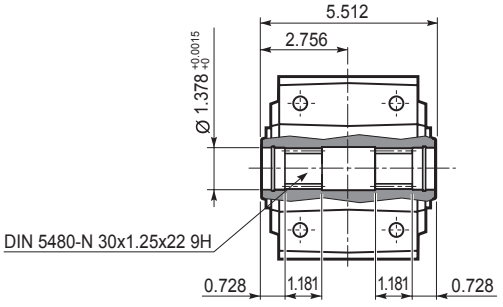
A 20...NQF





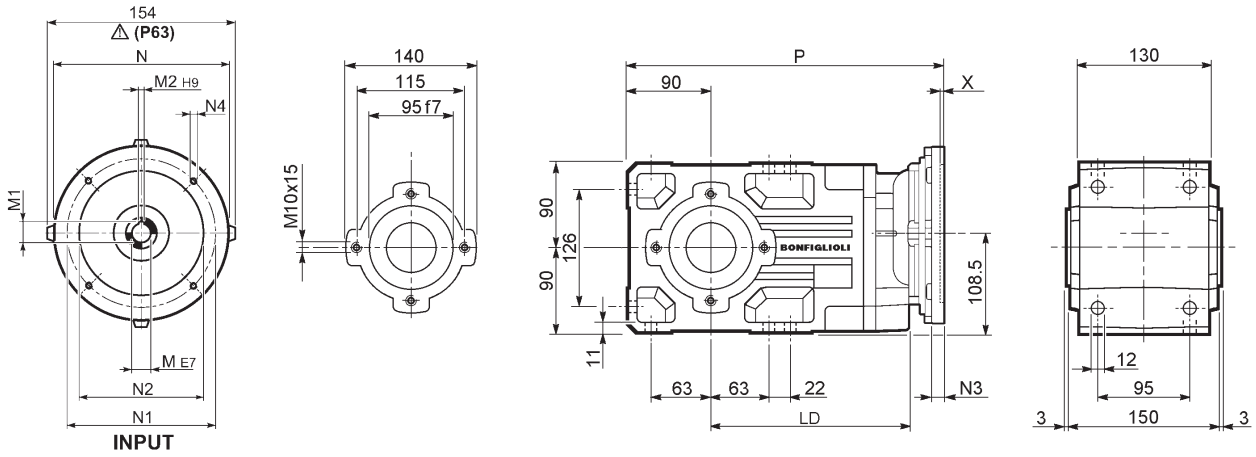
	Ø
NQF1	1.000
NQF1-3/16	1.188

A 20...UV



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

A 30...P(IEC)

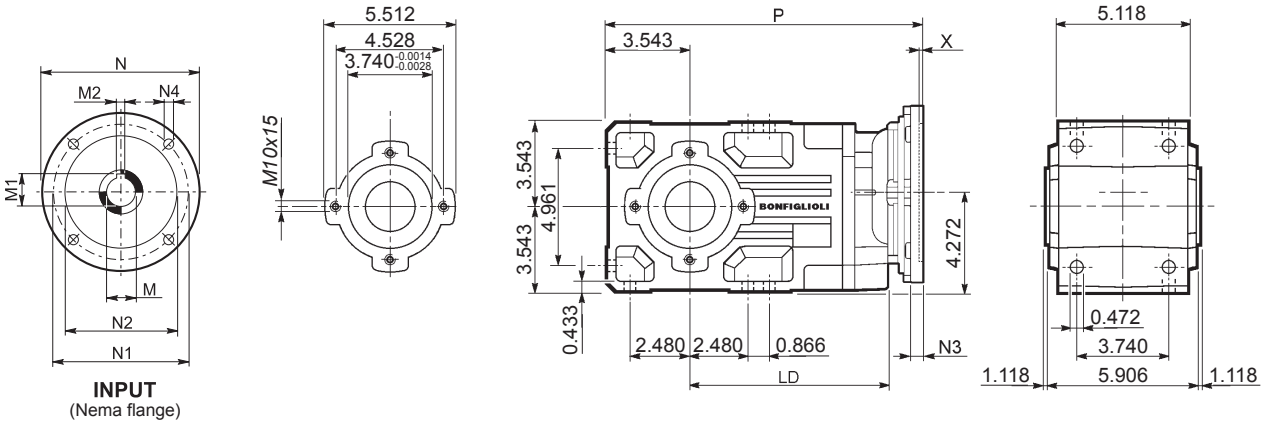


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 30 2	**P63**	213	11	12.8	4	140	115	95	—	M8x19	4	333	16
A 30 2	**P71**	213	14	16.3	5	160	130	110	—	M8x16	4.5	333	16
A 30 2	**P80**	223	19	21.8	6	200	165	130	—	M10x12	4	352.5	17
A 30 2	**P90**	223	24	27.3	8	200	165	130	—	M10x12	4	352.5	17
A 30 2	**P100**	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 2	**P112**	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	390.5	17
A 30 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	390.5	17
A 30 3	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	410	18
A 30 3	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	410	18
A 30 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22
A 30 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

A 30...N(NEMA Input)

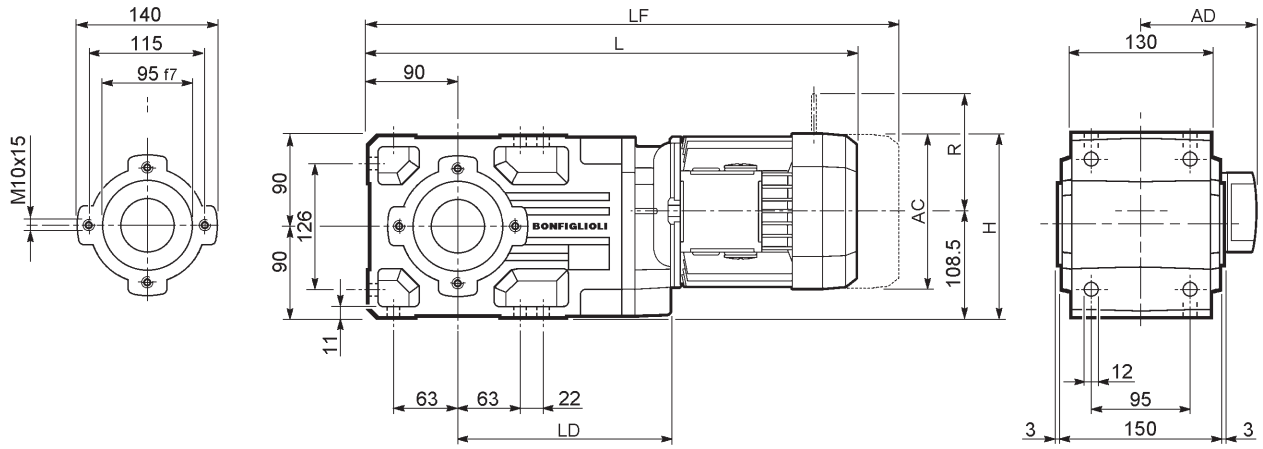


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 30 2	**N56C**	8.386	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.898	35
A 30 2	**N140TC**	8.386	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	13.898	37
A 30 2	**N180TC**	8.780	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	14.724	44
A 30 3	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.161	37
A 30 3	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	16.161	40
A 30 3	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	16.988	49

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

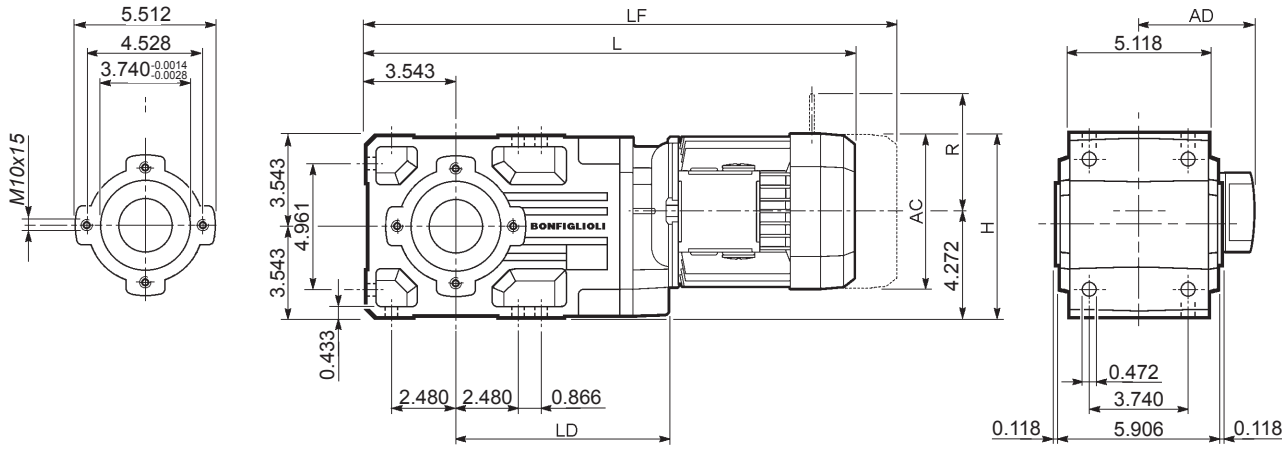
A 30...M/ME



Dimensões em mm

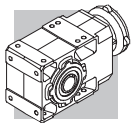
									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 30 2	**S1**	**M1**	138	177.5	488	201	108	22	549	24	103	135	124	108
A 30 2	**S2**	**ME2S**	156	186.5	517	213	119	25	—	—	—	—	—	—
A 30 2	**S3**	**ME3S**	195	206	560	223	142	31.5	—	—	—	—	—	—
A 30 2	**S3**	**ME3L**	195	206	592	223	142	38	—	—	—	—	—	—
A 30 3	**S05**	**M05**	121	169	516.5	—	95	21	582.5	22	96	122	116	95
A 30 3	**S1**	**M1**	138	177.5	545.5	—	108	23	606.5	26	103	135	124	108
A 30 3	**S2**	**ME2S**	156	186.5	574.5	—	119	25	—	—	—	—	—	—
A 30 3	**S3**	**ME3S**	195	206	617.5	—	142	31.5	—	—	—	—	—	—
A 30 3	**S3**	**ME3L**	195	206	649.5	—	142	38	—	—	—	—	—	—

A 30...M/ME

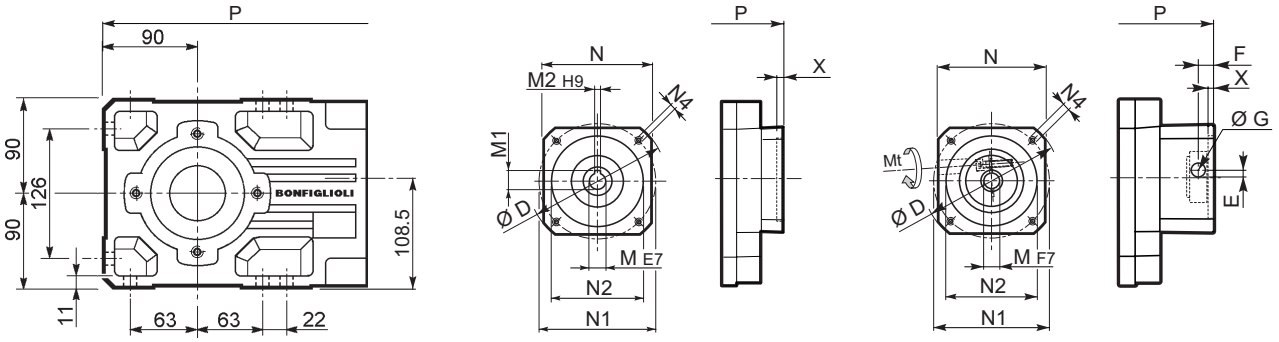


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 30 2	**S1**	**M1**	5.433	6.988	19.213	7.913	4.252	49	21.614	53	4.055	5.315	4.882	4.252
A 30 2	**S2**	**ME2S**	6.142	7.343	20.354	8.386	4.685	55	—	—	—	—	—	—
A 30 2	**S3**	**ME3S**	7.677	8.110	22.047	8.780	5.591	69	—	—	—	—	—	—
A 30 2	**S3**	**ME3L**	7.677	8.110	23.307	8.780	5.591	84	—	—	—	—	—	—
A 30 3	**S05**	**M05**	4.764	6.654	20.335	—	3.740	46	22.933	49	3.780	4.803	4.567	3.740
A 30 3	**S1**	**M1**	5.433	6.988	21.476	—	4.252	51	23.878	57	4.055	5.315	4.882	4.252
A 30 3	**S2**	**ME2S**	6.142	7.343	22.618	—	4.685	55	—	—	—	—	—	—
A 30 3	**S3**	**ME3S**	7.677	8.110	24.311	—	5.591	69	—	—	—	—	—	—
A 30 3	**S3**	**ME3L**	7.677	8.110	25.571	—	5.591	84	—	—	—	—	—	—



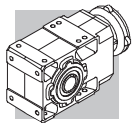
A 30...SK / SC



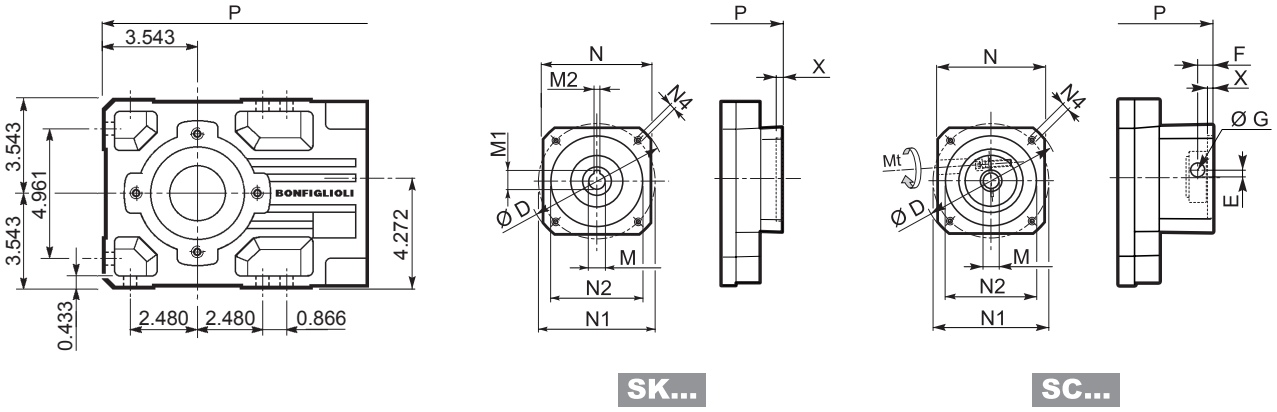
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 30 2/3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	304.5	362	15/16
A 30 2/3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	311.5	369	16/17
A 30 2/3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	311.5	369	16/17
A 30 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	352.5	410	17/18
A 30 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	352.5	410	17/18
A 30 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	352.5	410	17/18
A 30 2	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	352.5	—	18

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 30 2/3	**SC60A**	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	331.5	389	16/17
A 30 2/3	**SC60B**	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	331.5	389	17/18
A 30 2/3	**SC80A**	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	331.5	389	17/18
A 30 2/3	**SC80C**	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	376	433.5	18/19
A 30 2/3	**SC95A**	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	**SC95B**	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	**SC95C**	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	**SC 110A**	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	376	433.5	19/20
A 30 2/3	**SC 110B**	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	376	433.5	19/20
A 30 2	**SC 130A**	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	376	—	20



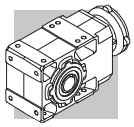
A 30...SK / SC



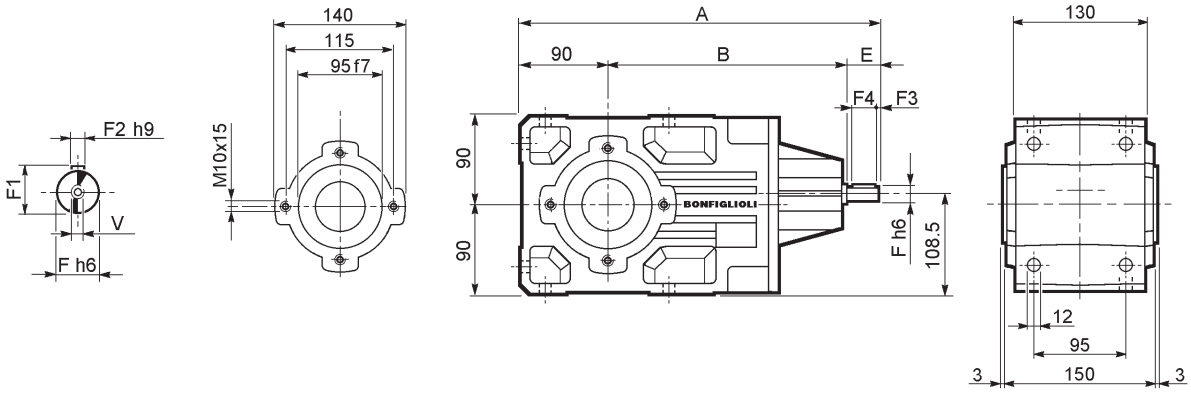
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 30 2/3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	11.988	14.252	33/35
A 30 2/3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	12.264	14.528	35/37
A 30 2/3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	12.264	14.528	35/37
A 30 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	13.878	16.142	37/40
A 30 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.878	16.142	37/40
A 30 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	13.878	16.142	37/40
A 30 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	13.878	—	40

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 30 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	13.051	15.315	35/37
A 30 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	13.051	15.315	37/40
A 30 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	13.051	15.315	37/40
A 30 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	14.803	17.067	40/42
A 30 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	14.803	17.067	40/42
A 30 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.803	17.067	40/42
A 30 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	14.803	17.067	40/42
A 30 2/3	**SC 110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.803	17.067	42/44
A 30 2/3	**SC 110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	14.803	17.067	42/44
A 30 2	**SC 130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	14.803	—	44



A 30...HS

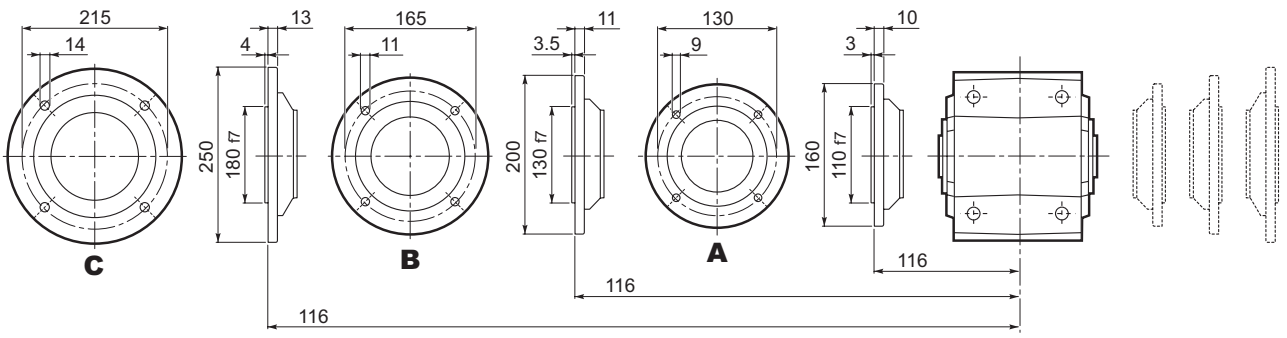


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 30 2	**HS**	383	253	40	19	21.5	6	2.5	35	M6x16	16.7
A 30 3		397.5	267.5	40	16	18	5	2.5	35	M6x16	16.5

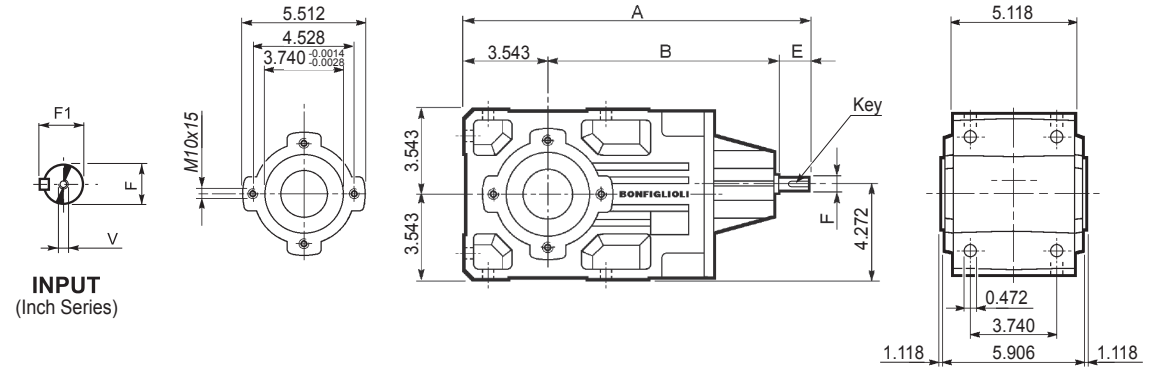
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 30...F...



Bonfiglioli Riduttori

A 30...NHS

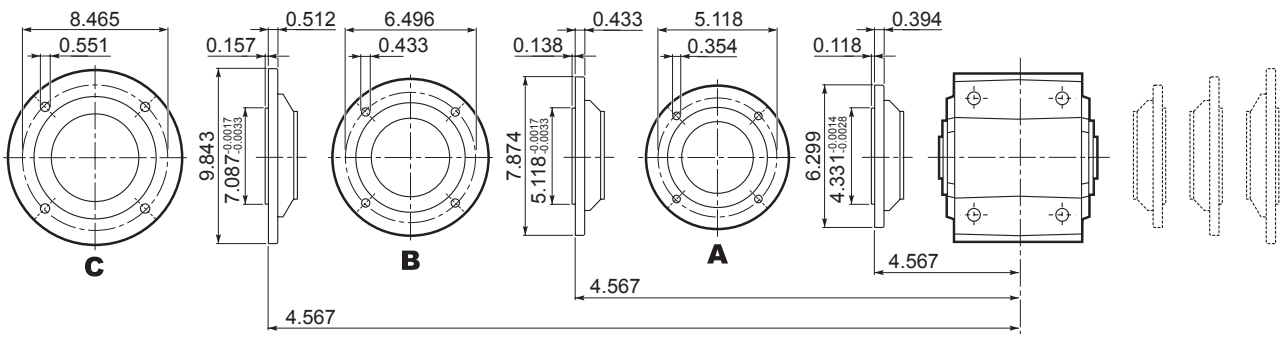


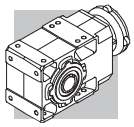
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 30 2	**NHS**	15.079	9.961	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
A 30 3	**NHS**	15.650	10.531	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	36

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

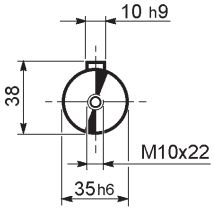
A 30...F...

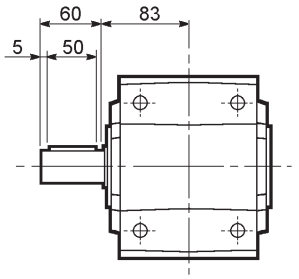




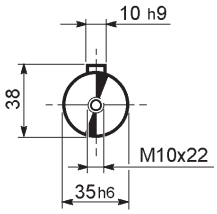
A 30

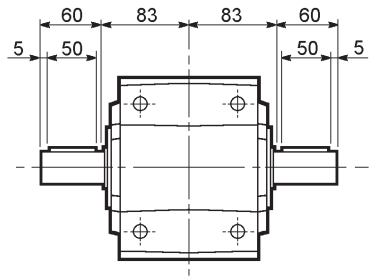
A 30...UR



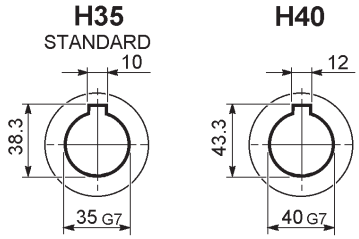


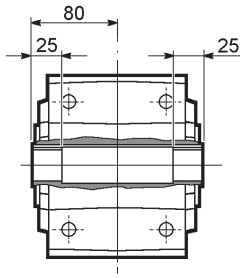
A 30...UD



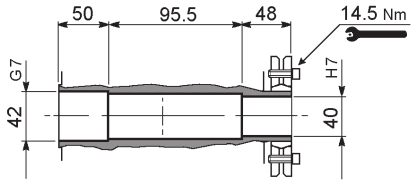


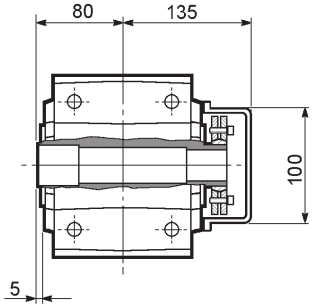
A 30...UH





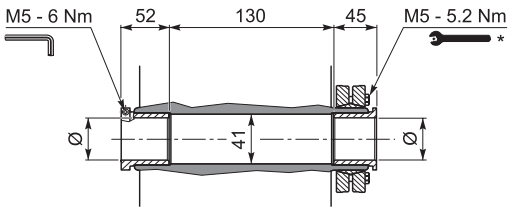
A 30...US

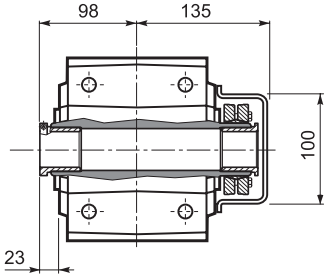




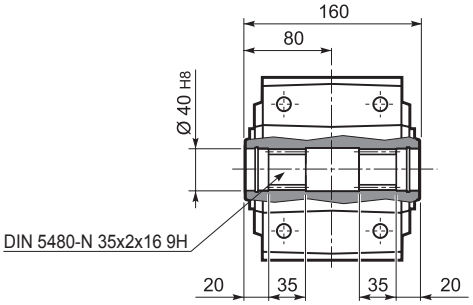
A 30...QF

	Ø
QF35	35
QF40	40

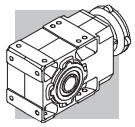




A 30...UV



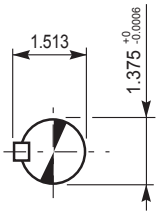
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

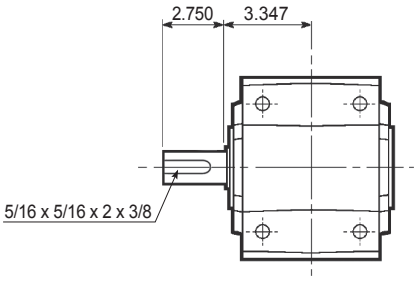


A 30

A 30...NUR

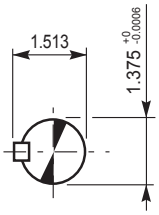
OUTPUT
(Inch Series)

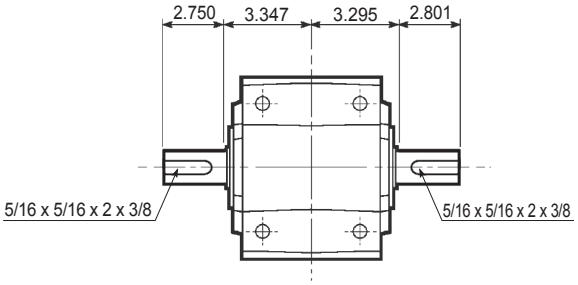




A 30...NUD

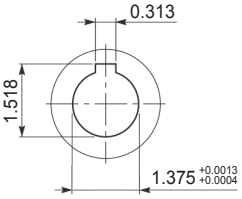
OUTPUT
(Inch Series)

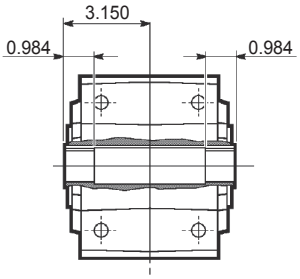




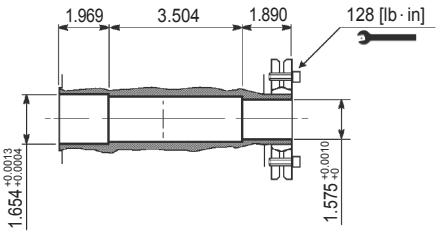
A 30...NUH

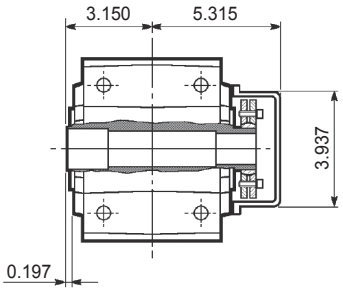
OUTPUT
(Inch Series)



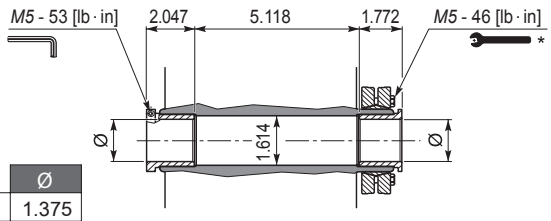


A 30...US

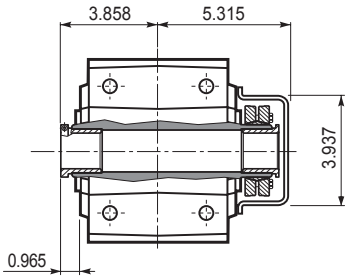




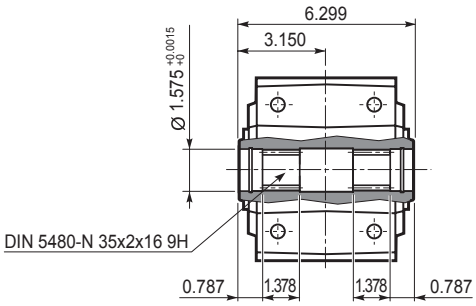
A 30...NQF



	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

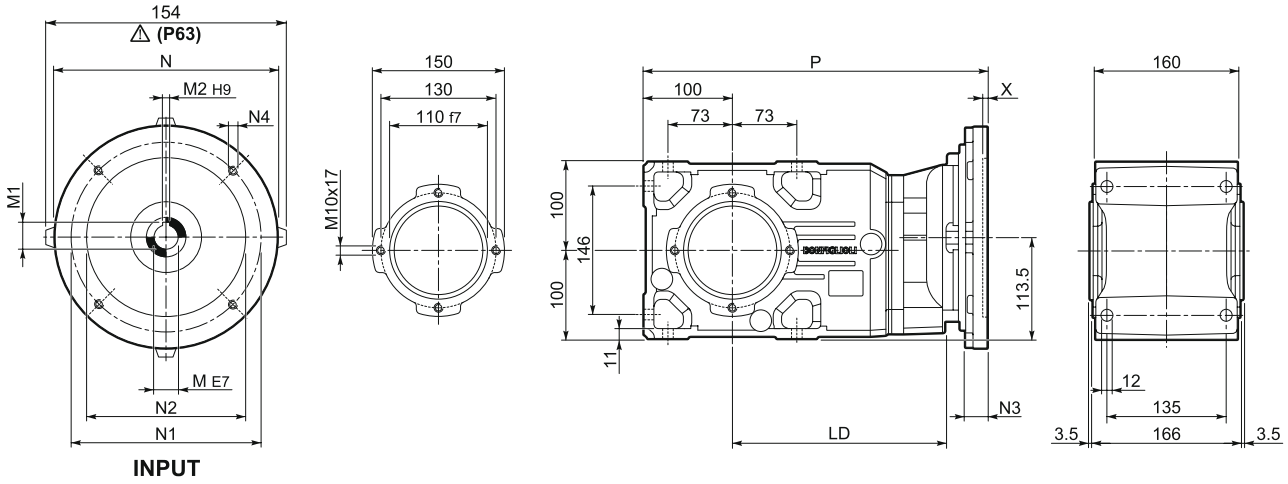


A 30...UV



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

A 35...P(IEC)

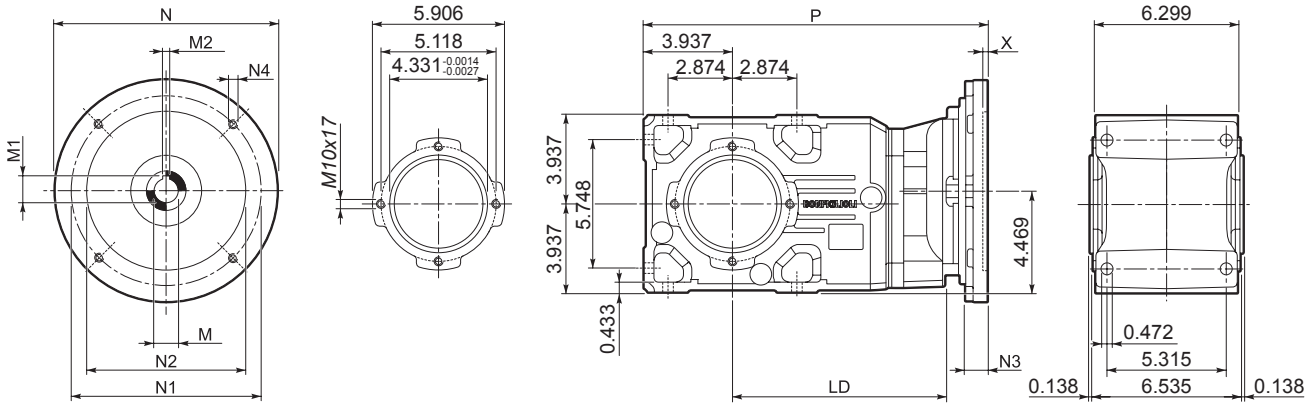


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 35 2	**P63**	229.5	11	12.8	4	140	115	95	—	M8x19	4	359.5	28
A 35 2	**P71**	229.5	14	16.3	5	160	130	110	—	M8x16	4.5	359.5	28
A 35 2	**P80**	239.5	19	21.8	6	200	165	130	—	M10x12	4	379	29
A 35 2	**P90**	239.5	24	27.3	8	200	165	130	—	M10x12	4	379	29
A 35 2	**P100**	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	**P112**	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	**P132**	—	38	41.3	10	300	265	230	16	14	5	425.5	40
A 35 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	417	29
A 35 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	417	29
A 35 3	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	436.5	30
A 35 3	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	436.5	30
A 35 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34
A 35 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

A 35...N(NEMA Input)

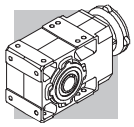


INPUT
(Nema flange)

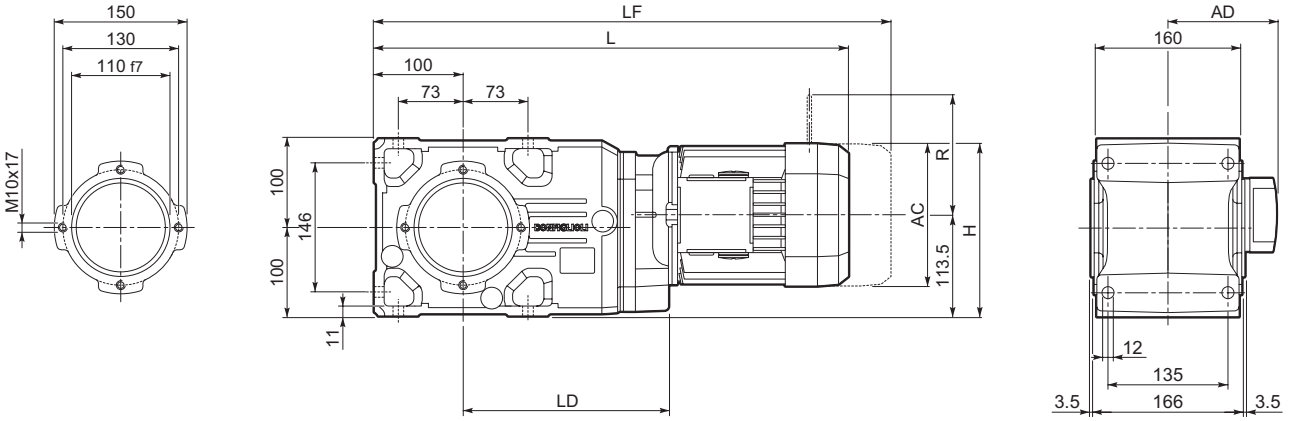
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 35 2	**N56C**	9.035	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	14.941	62
A 35 2	**N140TC**	9.035	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	14.941	64
A 35 2	**N180TC**	9.429	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	15.768	71
A 35 2	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	16.929	88
A 35 3	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 35 3	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 35 3	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	18.031	75

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



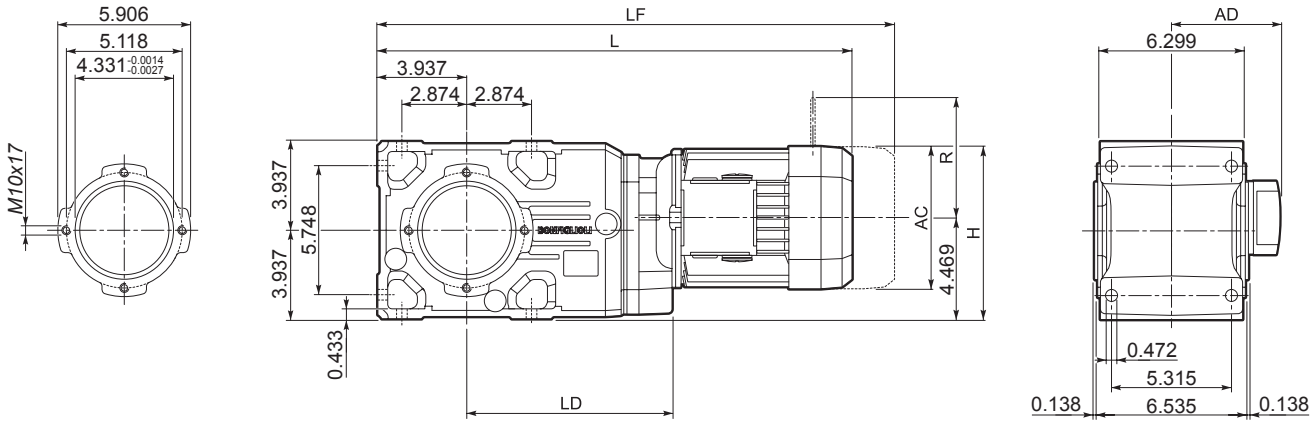
A 35...M/ME



Dimensões em mm

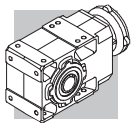
									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 35 2	**S1**	**M1**	138	182.5	514.5	217.5	108	34	575.5	36	103	135	124	108
A 35 2	**S2**	**ME2S**	156	191.5	543.5	229.5	119	37	—	—	—	—	—	—
A 35 2	**S3**	**ME3S**	195	211	586.5	239.5	142	43.5	—	—	—	—	—	—
A 35 2	**S3**	**ME3L**	195	211	618.5	239.5	142	50	—	—	—	—	—	—
A 35 2	**S4**	**ME4**	258	242.5	726.5	—	193	89	—	—	—	—	—	—
A 35 2	**S4**	**ME4LB**	258	242.5	761.5	—	193	97	—	—	—	—	—	—
A 35 3	**S05**	**M05S**	121	174	543	—	95	33	609	34	96	122	116	95
A 35 3	**S1**	**M1**	138	182.5	572	—	108	35	633	38	103	135	124	108
A 35 3	**S2**	**ME2S**	156	191.5	601	—	119	37	—	—	—	—	—	—
A 35 3	**S3**	**ME3S**	195	211	644	—	142	43.5	—	—	—	—	—	—
A 35 3	**S3**	**ME3L**	195	211	676	—	142	50	—	—	—	—	—	—

A 35...M/ME

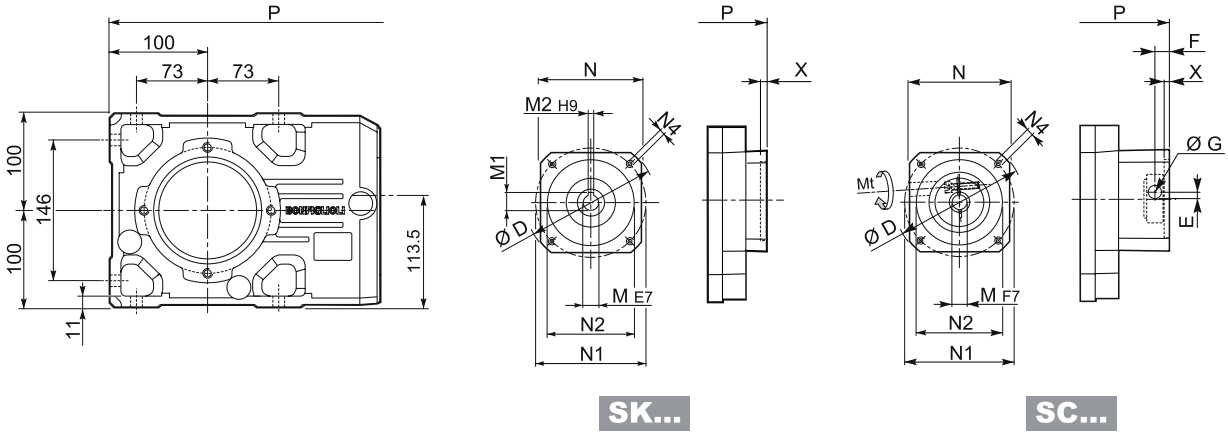


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 35 2	**S1**	**M1**	5.433	7.185	20.256	8.563	4.252	75	22.657	79	4.055	5.315	4.882	4.252
A 35 2	**S2**	**ME2S**	6.142	7.539	21.398	9.035	4.685	82	—	—	—	—	—	—
A 35 2	**S3**	**ME3S**	7.677	8.307	23.091	9.429	5.591	96	—	—	—	—	—	—
A 35 2	**S3**	**ME3L**	7.677	8.307	24.350	9.429	5.591	110	—	—	—	—	—	—
A 35 2	**S4**	**ME4**	10.157	9.547	28.602	—	7.598	196	—	—	—	—	—	—
A 35 2	**S4**	**ME4LB**	10.157	9.547	29.980	—	7.598	214	—	—	—	—	—	—
A 35 3	**S05**	**M05S**	4.764	6.850	21.378	—	3.740	73	23.976	75	3.780	4.803	4.567	3.740
A 35 3	**S1**	**M1**	5.433	7.185	22.520	—	4.252	77	24.921	84	4.055	5.315	4.882	4.252
A 35 3	**S2**	**ME2S**	6.142	7.539	23.661	—	4.685	82	—	—	—	—	—	—
A 35 3	**S3**	**ME3S**	7.677	8.307	25.354	—	5.591	96	—	—	—	—	—	—
A 35 3	**S3**	**ME3L**	7.677	8.307	26.614	—	5.591	110	—	—	—	—	—	—



A 35...SK / SC



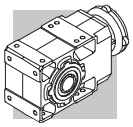
SK...

SC...

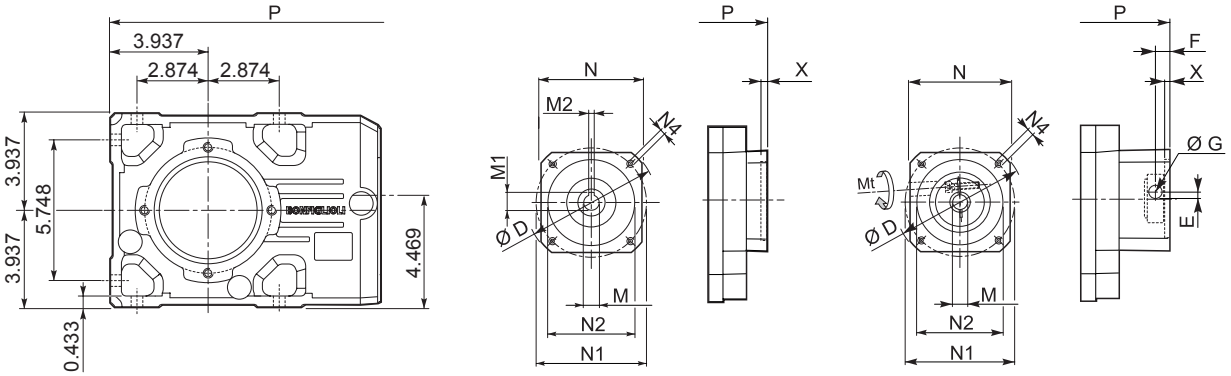
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 35 2/3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	331	388.5	27/28
A 35 2/3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	338	395.5	28/29
A 35 2/3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	338	395.5	28/29
A 35 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	379	436.5	29/30
A 35 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	379	436.5	29/30
A 35 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	379	436.5	29/30
A 35 2	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	379	—	30

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A 35 2/3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	358	415.5	28/29
A 35 2/3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	358	415.5	29/30
A 35 2/3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	358	415.5	29/30
A 35 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	402.5	460	30/31
A 35 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	402.5	460	32/33
A 35 2/3	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	402.5	460	32/33
A 35 2	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	402.5	—	33



A 35...SK / SC



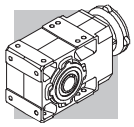
SK...

SC...

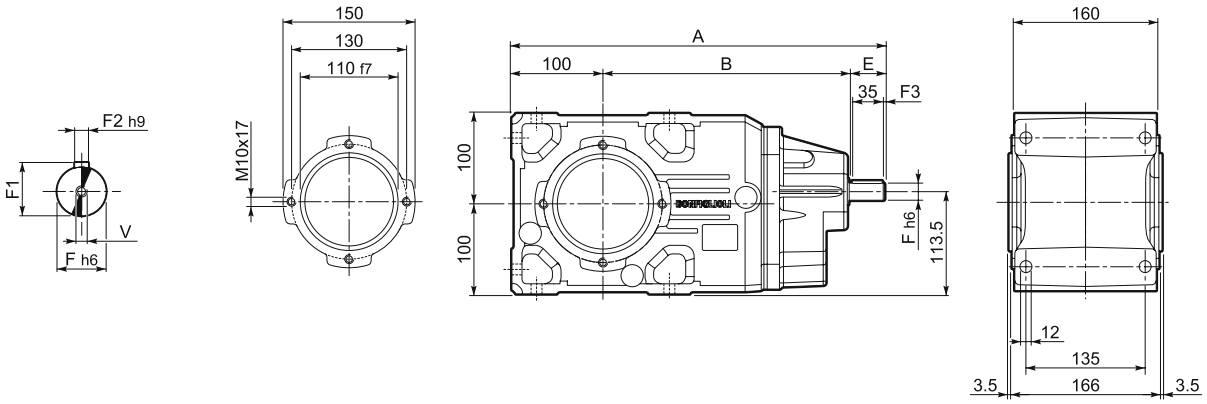
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 35 2/3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	M5x10	0.138	13.031	15.295	60/62
A 35 2/3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	M5x10	0.157	13.307	15.571	62/64
A 35 2/3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	M6x12	0.157	13.307	15.571	62/64
A 35 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	M6x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
A 35 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	M8x12	0.197	14.921	17.185	64/66
A 35 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	M8x12	0.197	14.921	17.185	64/66
A 35 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	M10x20	0.197	14.921	—	66

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A 35 2/3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	M5x10	0.157	14.094	16.358	62/64
A 35 2/3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	M5x10	0.157	14.094	16.358	64/66
A 35 2/3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	M6x12	0.157	14.094	16.358	64/66
A 35 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	M6x12	0.157	15.846	18.110	66/68
A 35 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
A 35 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
A 35 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
A 35 2/3	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	M8x16	0.197	15.846	18.110	71/73
A 35 2/3	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	M8x16	0.197	15.846	18.110	71/73
A 35 2	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	M10x20	0.197	15.846	—	73



A 35...HS

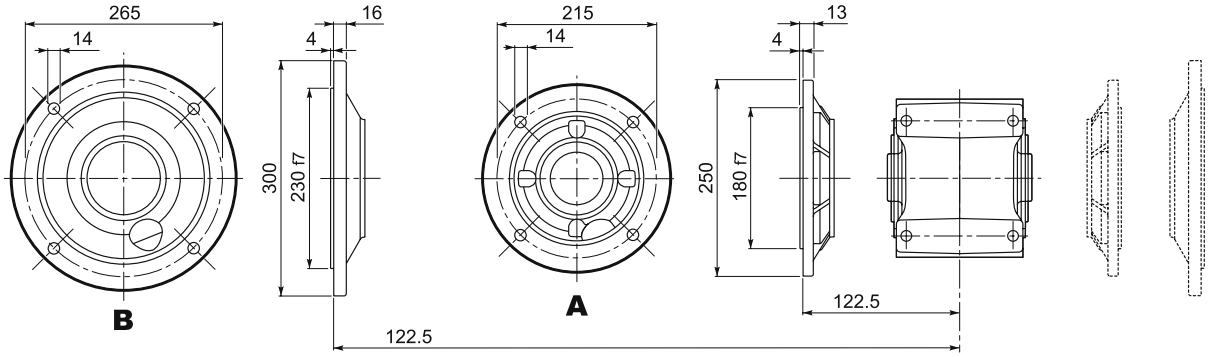


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 35 2	**HS**	409.5	269.5	40	19	21.5	6	2.5	35	M6x16	29
A 35 3		424	284	40	16	18	5	2.5	35	M6x16	29

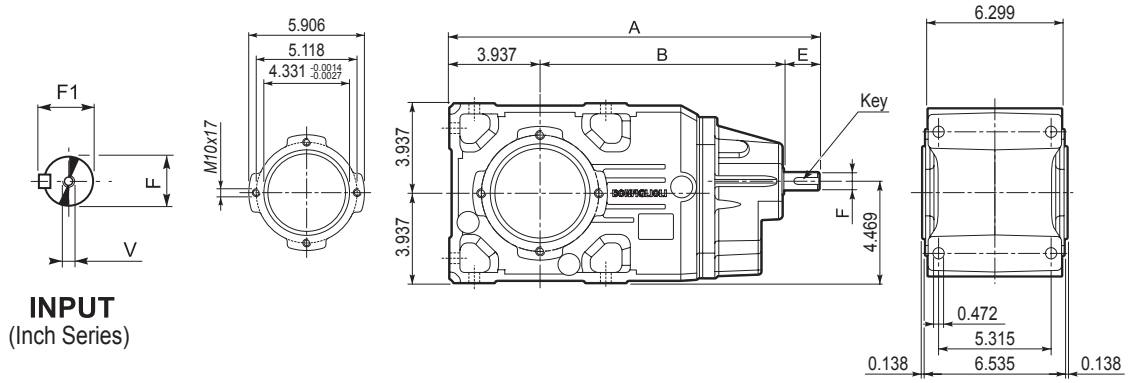
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 35...F...



Bonfiglioli Riduttori

A 35...NHS



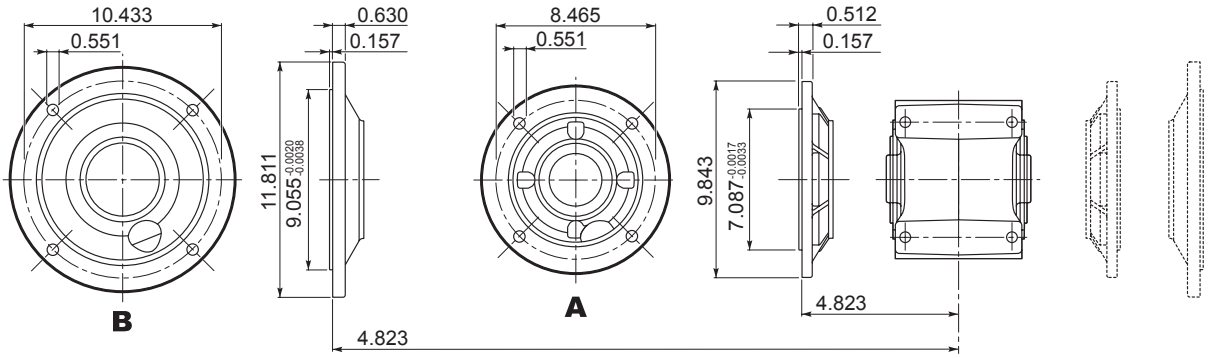
INPUT
(Inch Series)

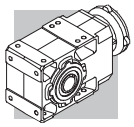
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 35 2	**NHS**	16.122	10.610	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	64
A 35 3	**NHS**	16.693	11.181	1.575	0.625 +0 -0.0004	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	64

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

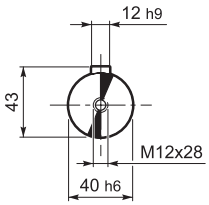
A 35...F...

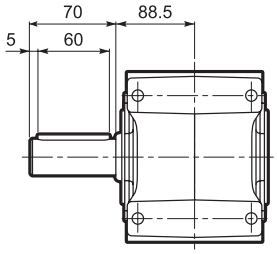




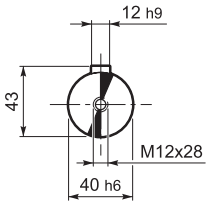
A 35

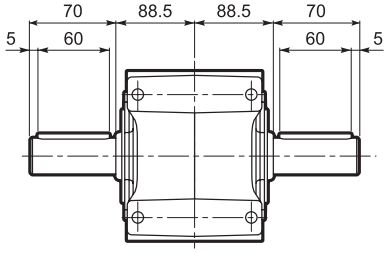
A 35...UR



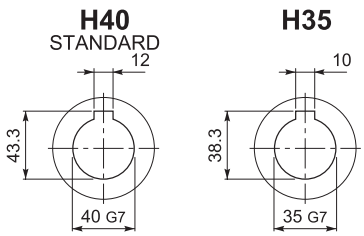


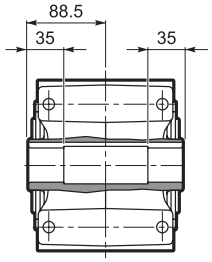
A 35...UD



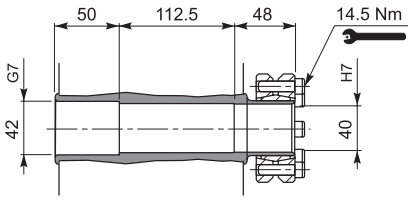


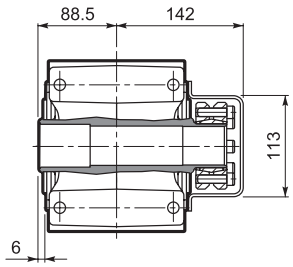
A 35...UH





A 35...US

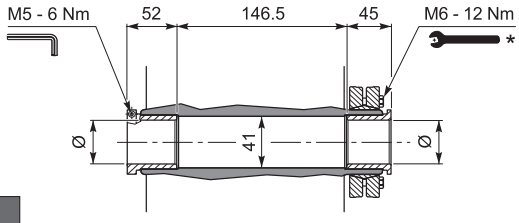


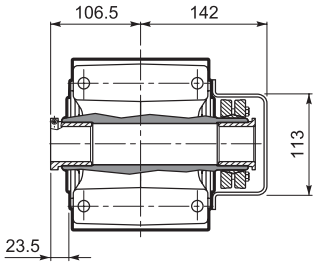


A 35...QF

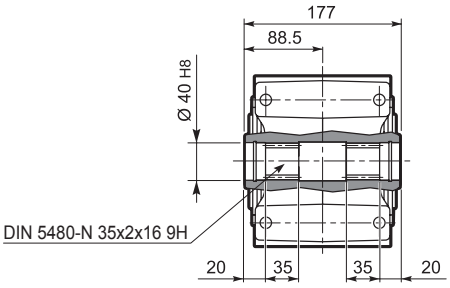
	Ø
QF35	35
QF40	40

$M_{n2\ max}$ [Nm]	
A 35 QF35	550

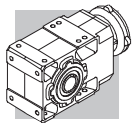




A 35...UV



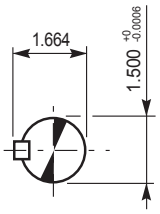
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

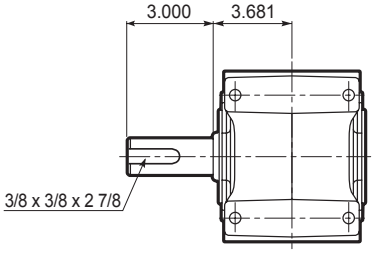


A 35

A 35...NUR

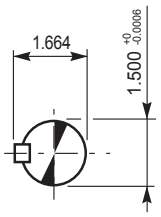
OUTPUT
(Inch Series)

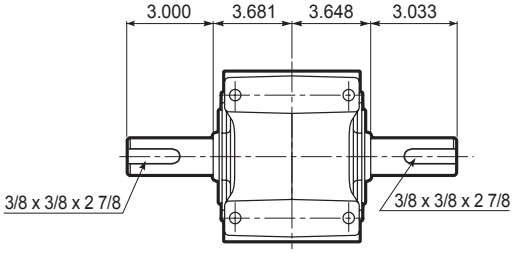




A 35...NUD

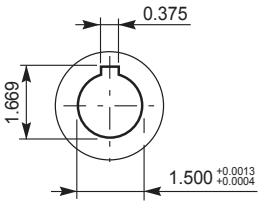
OUTPUT
(Inch Series)

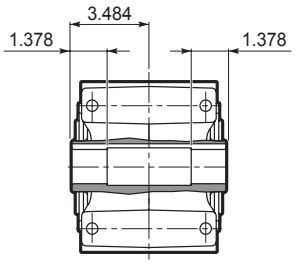




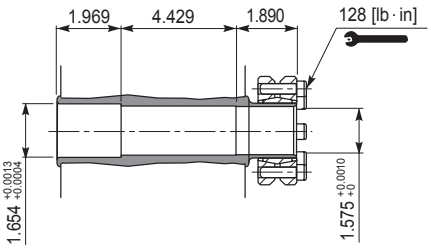
A 35...NUH

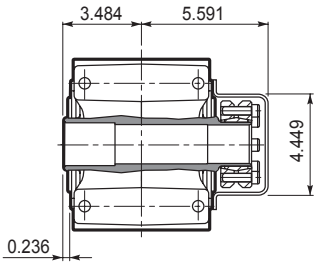
OUTPUT
(Inch Series)



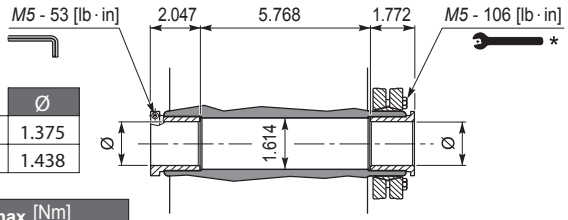


A 35...US



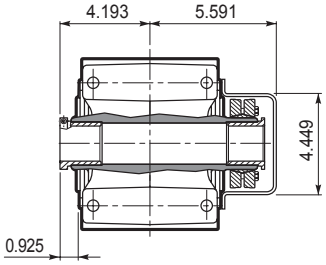


A 35...NQF

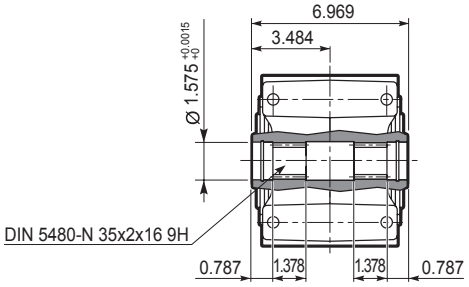


	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

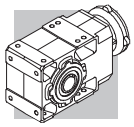
$M_{n2\ max}$ [Nm]	
A 35 NQF1-3/8	550



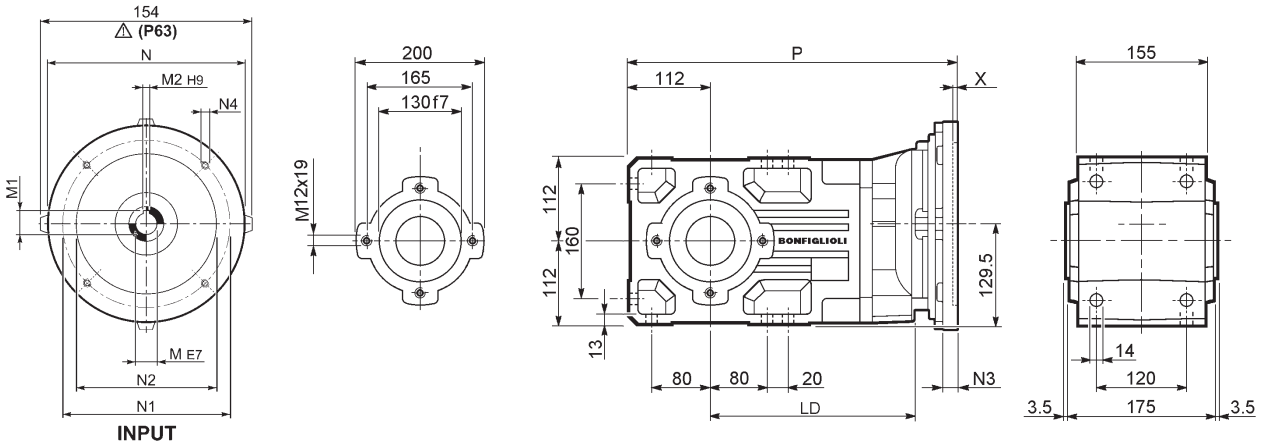
A 35...UV



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



A 41...P(IEC)

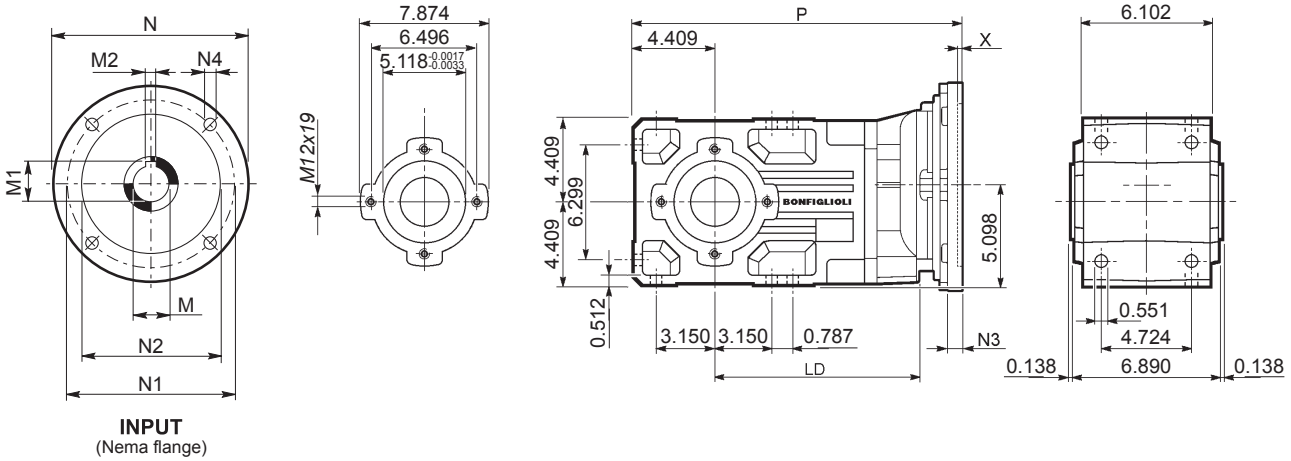


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 41 2	**P63**	232	11	12.8	4	140	115	95	—	M8x19	4	375	37
A 41 2	**P71**	232	14	16.3	5	160	130	110	—	M8x16	4.5	375	38
A 41 2	**P80**	248	19	21.8	6	200	165	130	—	M10x12	4	394.5	39
A 41 2	**P90**	248	24	27.3	8	200	165	130	—	M10x12	4	394.5	39
A 41 2	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	**P132**	—	38	41.3	10	300	265	230	16	14	5	441	46
A 41 3	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	436.5	39
A 41 3	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	436.5	39
A 41 3	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	456	40
A 41 3	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	456	40
A 41 3	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44
A 41 3	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

A 41...N(NEMA Input)

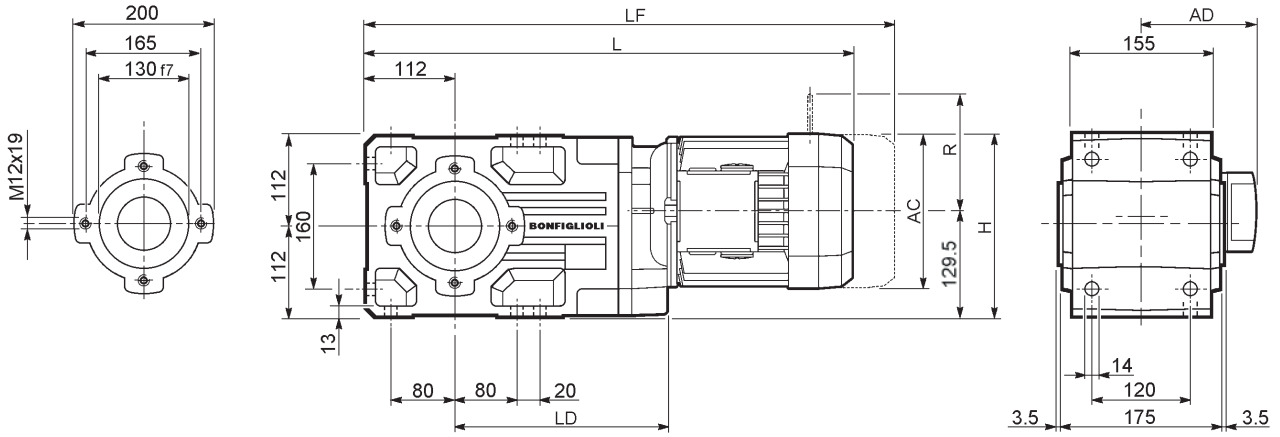


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 41 2	**N56C**	9.035	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	14.941	62
A 41 2	**N140TC**	9.035	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	14.941	64
A 41 2	**N180TC**	9.429	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	15.768	71
A 41 2	**N210TC**	—	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	16.929	88
A 41 3	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 41 3	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 41 3	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	18.031	75

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

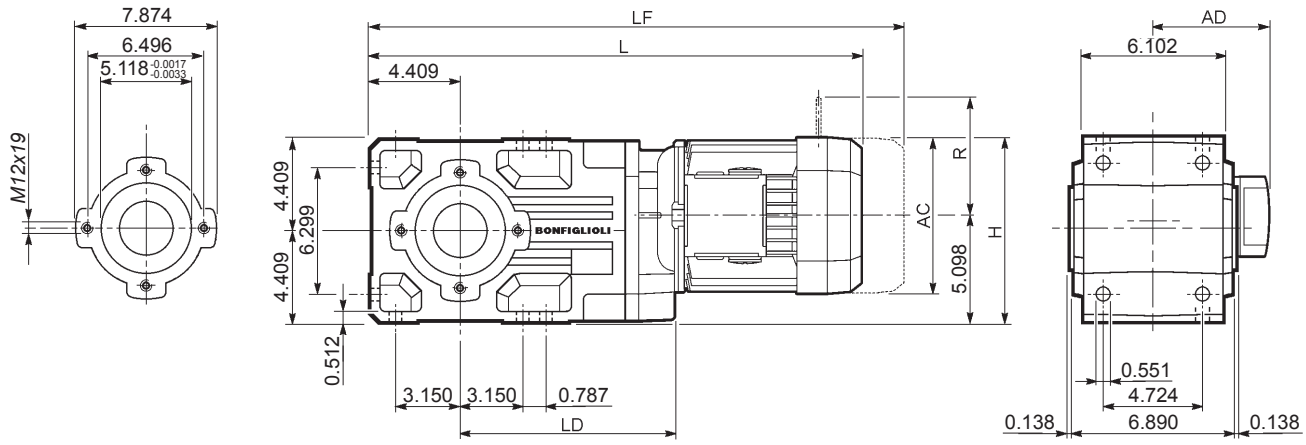
A 41...M/ME



Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 41 2	**S1**	**M1**	138	198.5	530	216.5	108	41	591	44	103	135	124	108
A 41 2	**S2**	**ME2S**	156	207.5	559	232	119	45	—	—	—	—	—	—
A 41 2	**S3**	**ME3S**	195	227	602	248	142	51.5	—	—	—	—	—	—
A 41 2	**S3**	**ME3L**	195	227	634	248	142	58	—	—	—	—	—	—
A 41 2	**S4**	**ME4**	258	258.5	742	—	193	92	—	—	—	—	—	—
A 41 2	**S4**	**ME4LB**	258	258.5	777	—	193	100	—	—	—	—	—	—
A 41 3	**S05**	**M05**	121	245	562.5	—	95	44	628.5	46	96	122	116	95
A 41 3	**S1**	**M1**	138	198.5	591.5	—	108	46	652.5	49	103	135	124	108
A 41 3	**S2**	**ME2S**	156	207.5	620.5	—	119	50	—	—	—	—	—	—
A 41 3	**S3**	**ME3S**	195	227	663.5	—	142	56.5	—	—	—	—	—	—
A 41 3	**S3**	**ME3L**	195	227	695.5	—	142	61	—	—	—	—	—	—

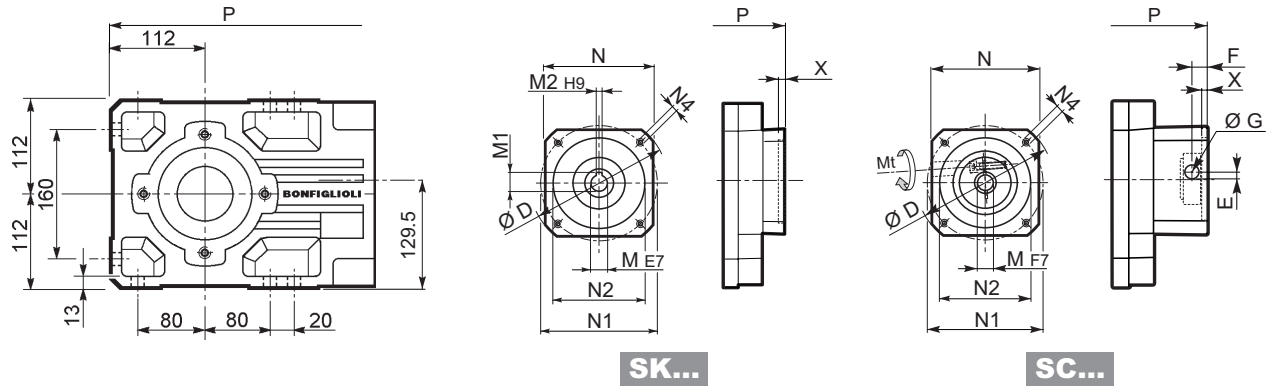
A 41...M/ME



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 41 2	**S1**	**M1**	5.433	7.185	20.256	8.563	4.252	75	22.657	79	4.055	5.315	4.882	4.252
A 41 2	**S2**	**ME2S**	6.142	7.539	21.398	9.035	4.685	82	—	—	—	—	—	—
A 41 2	**S3**	**ME3S**	7.677	8.307	23.091	9.429	5.591	96	—	—	—	—	—	—
A 41 2	**S3**	**ME3L**	7.677	8.307	24.350	9.429	5.591	110	—	—	—	—	—	—
A 41 2	**S4**	**ME4**	10.157	9.547	28.602	—	7.598	196	—	—	—	—	—	—
A 41 2	**S4**	**ME4LB**	10.157	9.547	29.980	—	7.598	214	—	—	—	—	—	—
A 41 3	**S05**	**M05**	4.764	6.850	21.378	—	3.740	73	23.976	75	3.780	4.803	4.567	3.740
A 41 3	**S1**	**M1**	5.433	7.185	22.520	—	4.252	77	24.921	84	4.055	5.315	4.882	4.252
A 41 3	**S2**	**ME2S**	6.142	7.539	23.661	—	4.685	82	—	—	—	—	—	—
A 41 3	**S3**	**ME3S**	7.677	8.307	25.354	—	5.591	96	—	—	—	—	—	—
A 41 3	**S3**	**ME3L**	7.677	8.307	26.614	—	5.591	110	—	—	—	—	—	—

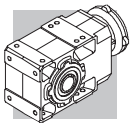
A 41...SK / SC



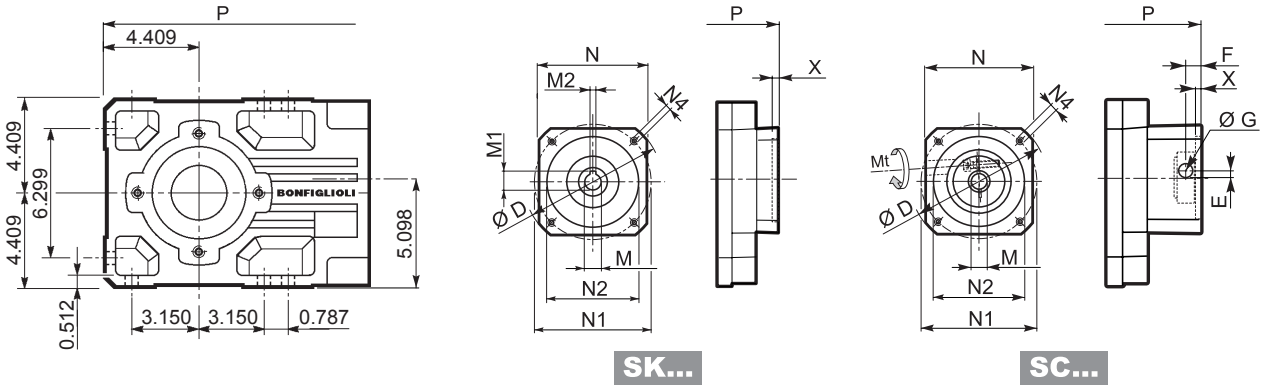
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	Kg
A41 3	**SK60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	408	40
A41 3	**SK60B**	102	14	16.3	5	82	75	60	M5x10	4	—	415	40
A41 3	**SK80A**	115	14	16.3	5	90	100	80	M6x12	4	—	415	40
A41 2	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	394.5	—	39
A41 2/3	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	394.5	456	39/40
A41 2/3	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	394.5	456	39/40
A41 2/3	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	394.5	456	39/41
A41 2/3	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	394.5	456	39/44
A41 2/3	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	394.5	456	39/44
A41 2/3	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	394.5	456	39/44
A41 2	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	394.5	—	41
A41 2	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	441	—	43
A41 2	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	441	—	43
A41 2	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	441	—	43

		Mt [Nm]		D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	Kg
A41 3	**SC60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	435	41
A41 3	**SC60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	435	41
A41 3	**SC80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	435	41
A41 2	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	418	—	40
A41 2/3	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	418	479.5	40/41
A41 2/3	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	418	479.5	40/43
A41 2/3	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	418	479.5	41/47
A41 2/3	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	418	479.5	41/47
A41 2	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	418	—	42
A41 2	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	464	—	46
A41 2	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	468	—	46
A41 2	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	468	—	46



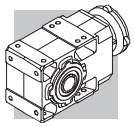
A 41...SK / SC



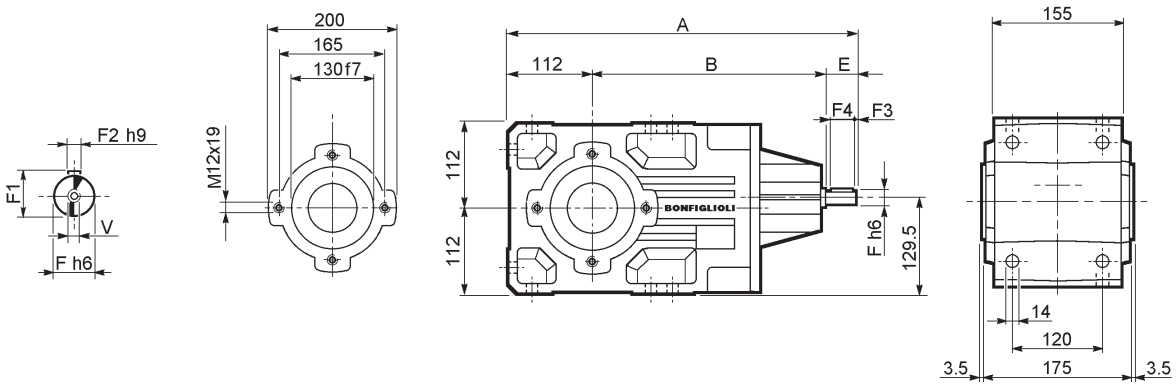
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2x	P 3x	lbs
A41 3	**SK60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	—	16.063	88
A41 3	**SK60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	—	16.339	88
A41 3	**SK80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	—	16.339	88
A41 2	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	15.531	—	86
A41 2/3	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	15.531	17.953	86/88
A41 2/3	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	15.531	17.953	86/88
A41 2/3	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	15.531	17.953	86/90
A41 2/3	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	15.531	17.953	86/97
A41 2/3	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	15.531	17.953	86/97
A41 2/3	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	15.531	17.953	86/97
A41 2	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	15.531	—	90
A41 2	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	17.362	—	95
A41 2	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	17.362	—	95
A41 2	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	17.362	—	95

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2x	P 3x	lbs
A41 3	**SC60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	17.126	90
A41 3	**SC60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	17.126	90
A41 3	**SC80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	—	17.126	90
A41 2	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	16.457	—	88
A41 2/3	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	16.457	18.878	88/90
A41 2/3	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	16.457	18.878	88/93
A41 2/3	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	16.457	18.878	88/93
A41 2/3	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	16.457	18.878	88/95
A41 2/3	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	16.457	18.878	90/104
A41 2/3	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	16.457	18.878	90/104
A41 2	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	16.457	—	93
A41 2	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	18.268	—	101
A41 2	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	18.425	—	101
A41 2	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	18.425	—	101



A 41...HS

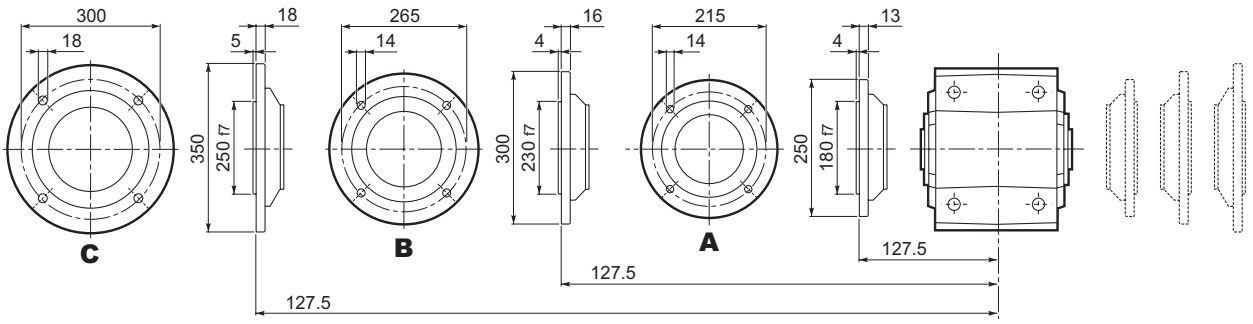


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 41 2	**HS**	464	302.5	50	24	27	8	2.5	45	M8x19	40.7
A 41 3		486.5	334.5	40	19	21.5	6	2.5	35	M6x16	39.5

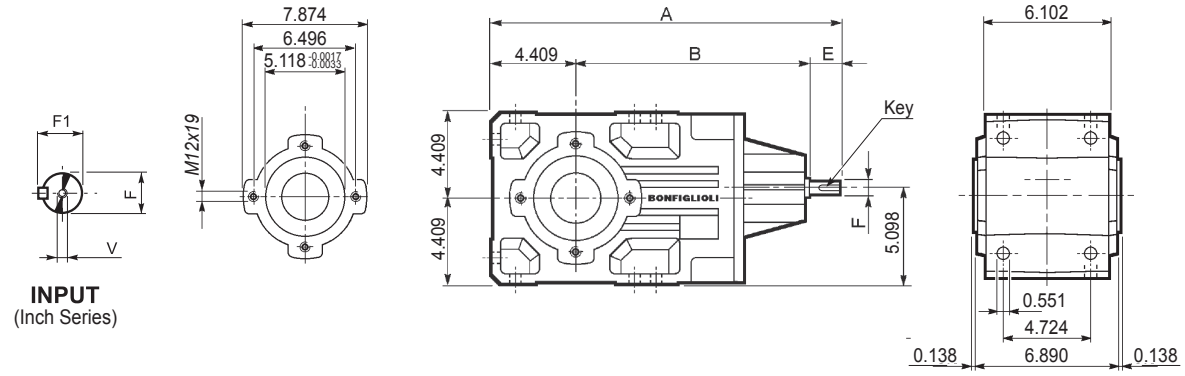
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 41...F...



Bonfiglioli Riduttori

A 41...NHS



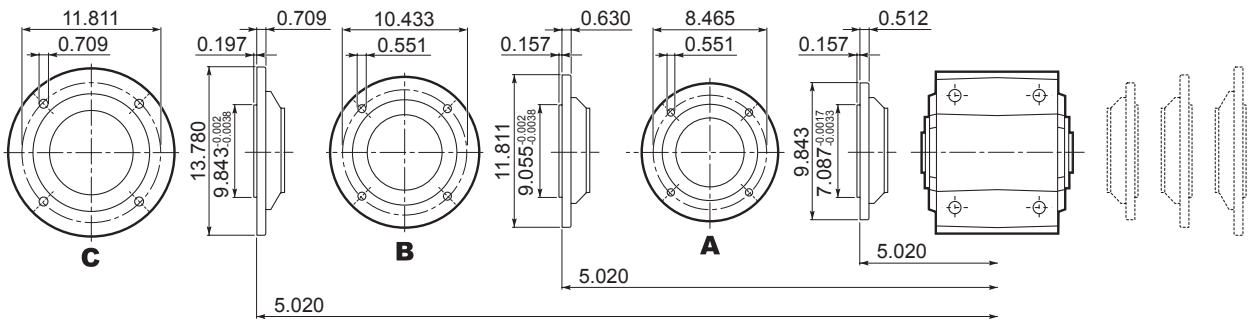
INPUT
(Inch Series)

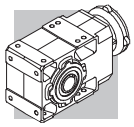
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 41 2	**NHS**	18.268	11.890	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	90
A 41 3	**NHS**	19.154	13.169	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	87

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

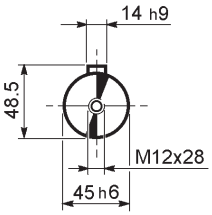
A 41...F...

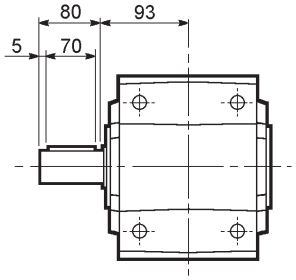




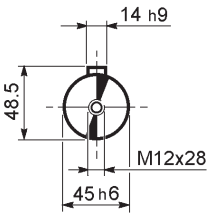
A 41

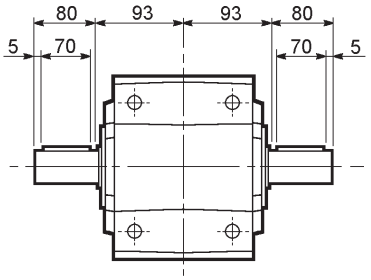
A 41...UR



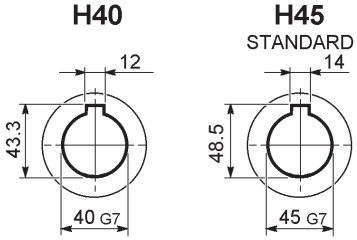


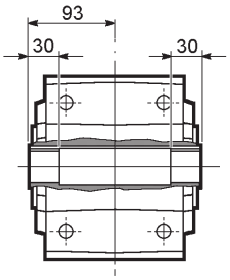
A 41...UD



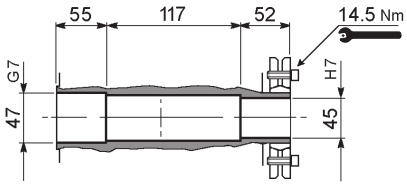


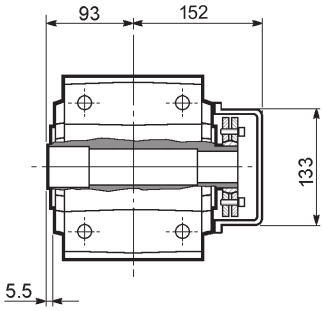
A 41...UH





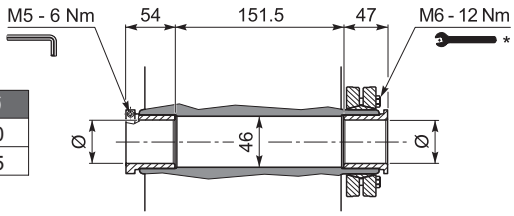
A 41...US

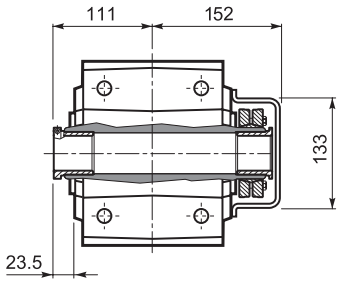




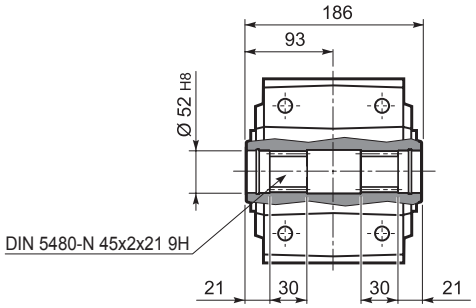
A 41...QF

	Ø
QF40	40
QF45	45

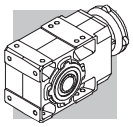




A 41...UV

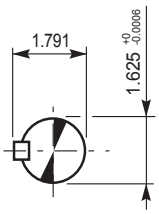


* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

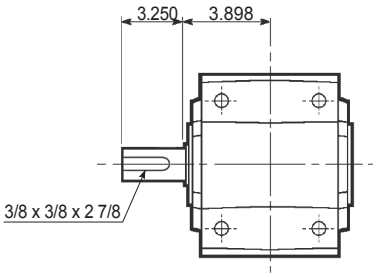


A 41

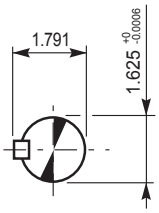
A 41...NUR



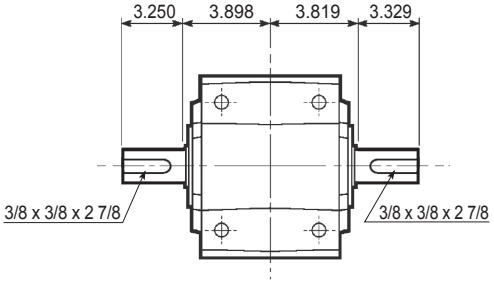
OUTPUT
(Inch Series)



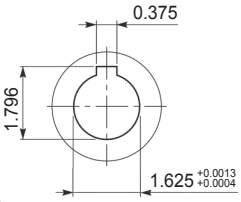
A 41...NUD



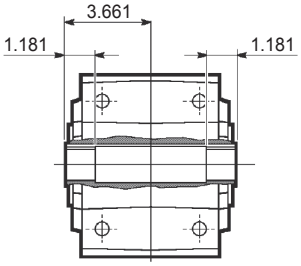
OUTPUT
(Inch Series)



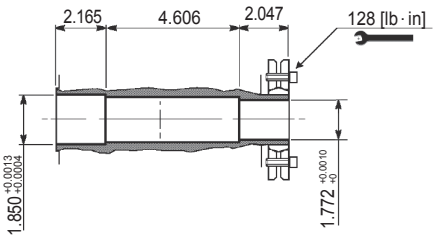
A 41...NUH

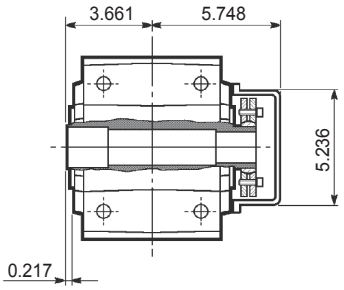


OUTPUT
(Inch Series)

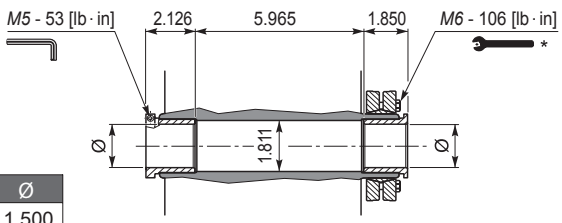


A 41...US

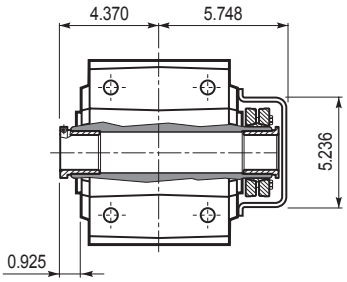




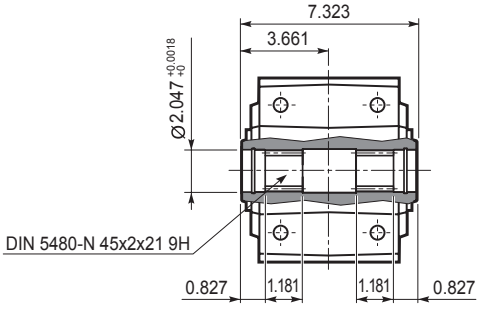
A 41...NQF



	Ø
NQF1-1/2	1.500
NQF1-5/8	1.625

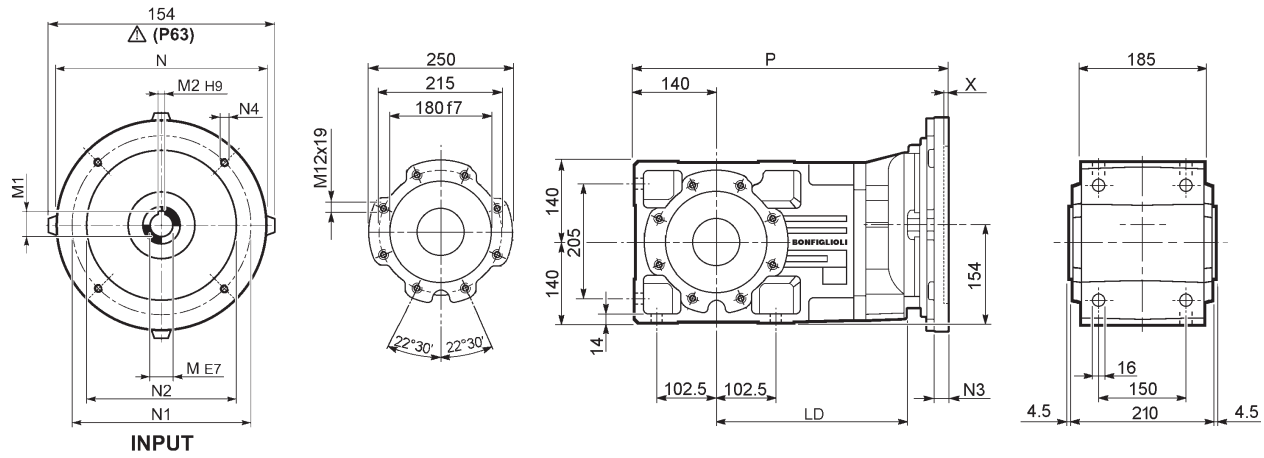


A 41...UV



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

A 50...P(IEC)

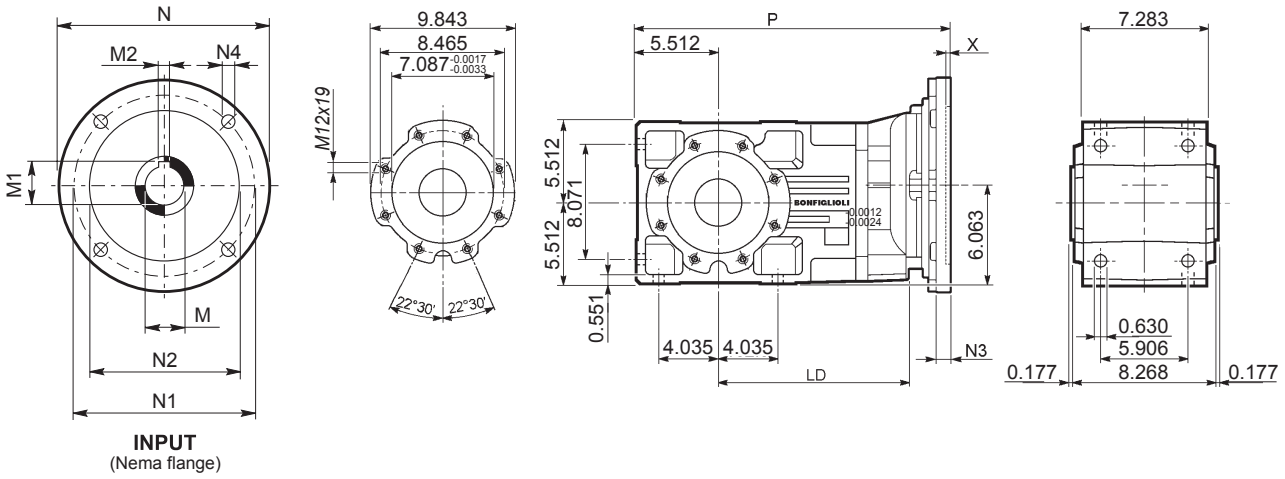


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 50 2/3	**P63**	284.5	11	12.8	4	140	115	95	—	M8x19	4	454.5	60
A 50 2/3	**P71**	284.5	14	16.3	5	160	130	110	—	M8x16	4.5	454.5	60
A 50 2/3	**P80**	299.5	19	21.8	6	200	165	130	—	M10x12	4	474	61
A 50 2/3	**P90**	299.5	24	27.3	8	200	165	130	—	M10x12	4	474	61
A 50 2/3	**P100**	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	**P112**	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	**P132**	284.5	38	41.3	10	300	265	230	16	14	5	520.5	68
A 50 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	571	72
A 50 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	571	72
A 50 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	526	62
A 50 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	526	62
A 50 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	545.5	63
A 50 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	545.5	63
A 50 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67
A 50 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

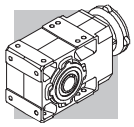
A 50...N(NEMA Input)



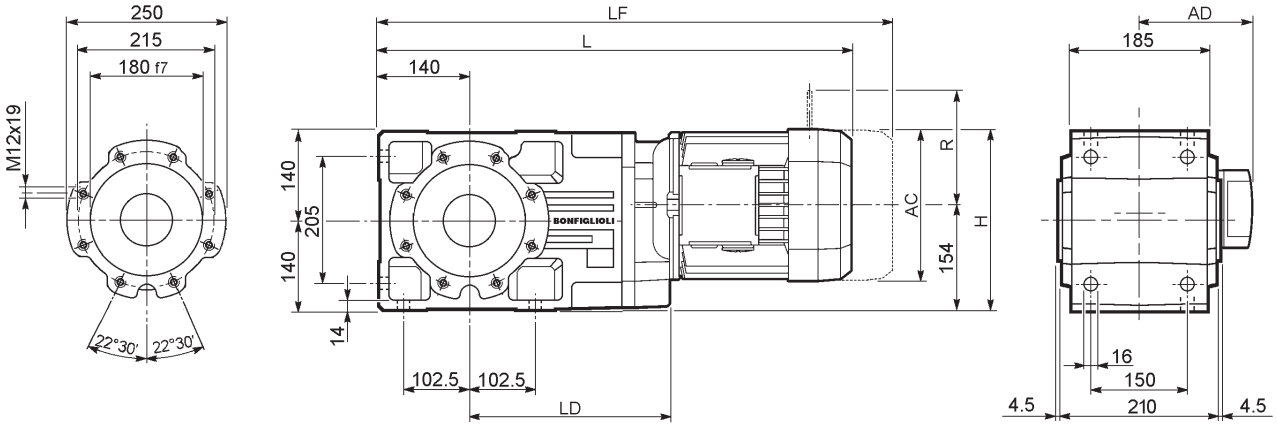
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 50 2/3	**N56C**	11.201	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	18.681	132
A 50 2/3	**N140TC**	11.201	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	18.681	134
A 50 2/3	**N180TC**	11.791	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	19.429	143
A 50 2/3	**N210TC**	11.201	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	20.669	150
A 50 2/3	**N250TC**	—	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	23.465	188
A 50 2/3	**N280TC**	—	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	23.661	192
A 50 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	21.496	137
A 50 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	21.496	139
A 50 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	22.323	148

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



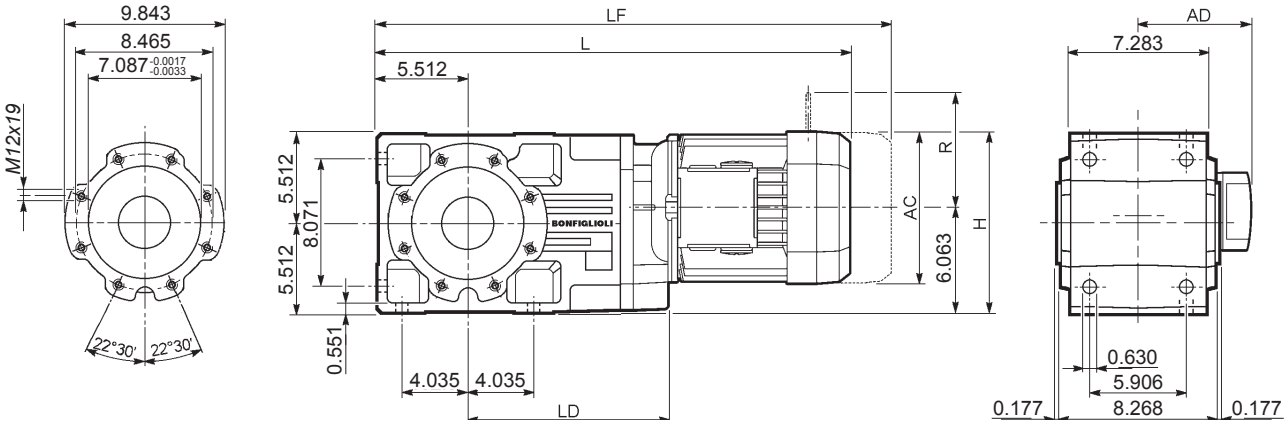
A 50...M/ME



Dimensões em mm

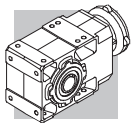
									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 50 2/3	**S1**	**M1**	138	223	609.5	—	108	66	670.5	69	103	135	124	108
A 50 2/3	**S2**	**ME2S**	156	232	638.5	284.5	119	68	—	—	—	—	—	—
A 50 2/3	**S3**	**ME3S**	195	251.5	681.5	299.5	142	74.5	—	—	—	—	—	—
A 50 2/3	**S3**	**ME3L**	195	251.5	713.5	299.5	142	81	—	—	—	—	—	—
A 50 2/3	**S4**	**ME4**	258	283	821.5	284.5	193	115	—	—	—	—	—	—
A 50 2/3	**S4**	**ME4LB**	258	283	856.5	284.5	193	123	—	—	—	—	—	—
A 50 2/3	**S5**	**ME5S**	310	309	908	—	245	143	—	—	—	—	—	—
A 50 2/3	**S5**	**ME5L**	310	309	952	—	245	159	—	—	—	—	—	—
A 50 4	**S1**	**M1**	138	223	681	—	108	67	742	70	103	135	124	108
A 50 4	**S2**	**ME2S**	156	232	710	—	119	71	—	—	—	—	—	—
A 50 4	**S3**	**ME3S**	195	251.5	753	—	142	77.5	—	—	—	—	—	—
A 50 4	**S3**	**ME3L**	195	251.5	785	—	142	83	—	—	—	—	—	—

A 50...M/ME

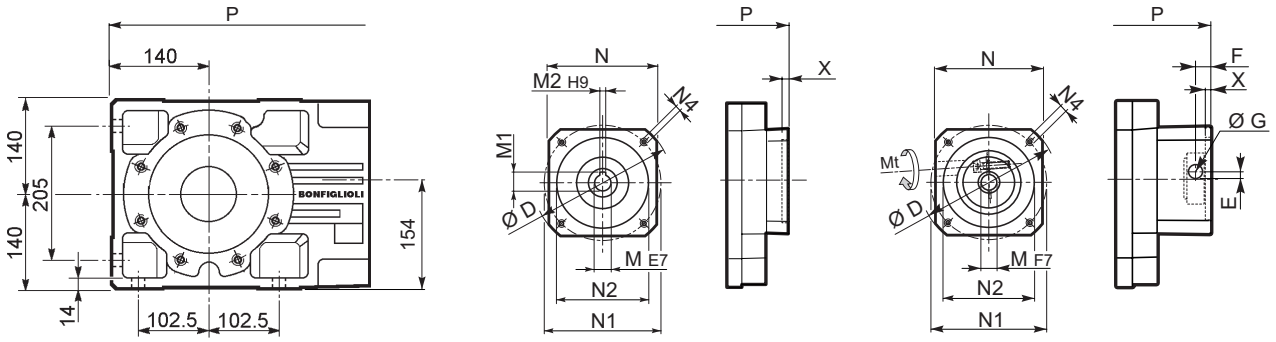


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 50 2/3	**S1**	**M1**	5.433	8.780	23.996	—	4.252	146	26.398	152	4.055	5.315	4.882	4.252
A 50 2/3	**S2**	**ME2S**	6.142	9.134	25.138	11.201	4.685	150	—	—	—	—	—	—
A 50 2/3	**S3**	**ME3S**	7.677	9.902	26.831	11.791	5.591	164	—	—	—	—	—	—
A 50 2/3	**S3**	**ME3L**	7.677	9.902	28.091	11.791	5.591	179	—	—	—	—	—	—
A 50 2/3	**S4**	**ME4**	10.157	11.142	32.343	11.201	7.598	254	—	—	—	—	—	—
A 50 2/3	**S4**	**ME4LB**	10.157	11.142	33.720	11.201	7.598	271	—	—	—	—	—	—
A 50 2/3	**S5**	**ME5S**	12.205	12.165	35.748	—	9.646	315	—	—	—	—	—	—
A 50 2/3	**S5**	**ME5L**	12.205	12.165	37.480	—	9.646	351	—	—	—	—	—	—
A 50 4	**S1**	**M1**	5.433	8.780	26.811	—	4.252	148	29.213	154	4.055	5.315	4.882	4.252
A 50 4	**S2**	**ME2S**	6.142	9.134	27.953	—	4.685	157	—	—	—	—	—	—
A 50 4	**S3**	**ME3S**	7.677	9.902	29.646	—	5.591	171	—	—	—	—	—	—
A 50 4	**S3**	**ME3L**	7.677	9.902	30.906	—	5.591	183	—	—	—	—	—	—



A 50...SK / SC

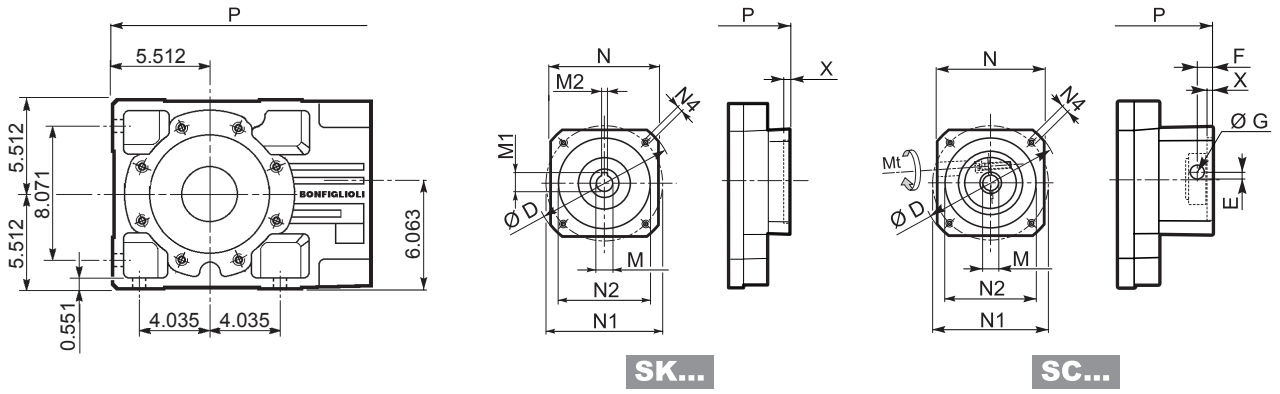


Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
A 50 2/3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	474	—	61/61
A 50 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	474	545.5	61/61/65
A 50 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	474	575	61/61/65
A 50 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	474	575	63/63/66
A 50 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	520.5	—	69/69
A 50 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	520.5	—	69/69
A 50 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	520.5	—	69/69

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	Kg
A 50 2/3	**SC80B**	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	497.5	—	62/62
A 50 2/3/4	**SC80C**	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	497.5	569	62/62/64
A 50 2/3/4	**SC95A**	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	**SC95B**	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	**SC95C**	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	**SC110A**	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	**SC110B**	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	**SC130A**	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	497.5	569	64/64/67
A 50 2/3	**SC130B**	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	543.5	—	68/68
A 50 2/3	**SC180A**	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	547.5	—	68/68
A 50 2/3	**SC180B**	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	547.5	—	68/68

A 50...SK / SC

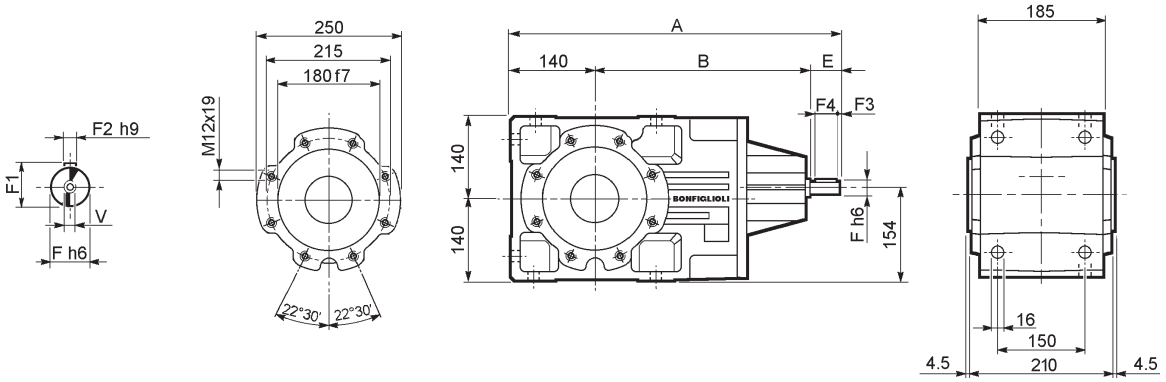


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
A 50 2/3	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	18.661	—	134/134
A 50 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	18.661	21.476	134/134/139
A 50 2/3/4	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	18.661	21.476	134/134/143
A 50 2/3/4	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	18.661	22.638	134/134/143
A 50 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	18.661	22.638	139/139/146
A 50 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	20.492	—	152/152
A 50 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	20.492	—	152/152
A 50 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	20.492	—	152/152

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	lbs
A 50 2/3	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	19.587	—	137/137
A 50 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	19.587	22.402	137/137/141
A 50 2/3/4	**SC110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	19.587	22.402	139/139/146
A 50 2/3/4	**SC110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	19.587	22.402	139/139/146
A 50 2/3/4	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	19.587	22.402	141/141/148
A 50 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	21.398	—	150/150
A 50 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	21.555	—	150/150
A 50 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	21.555	—	150/150

A 50...HS

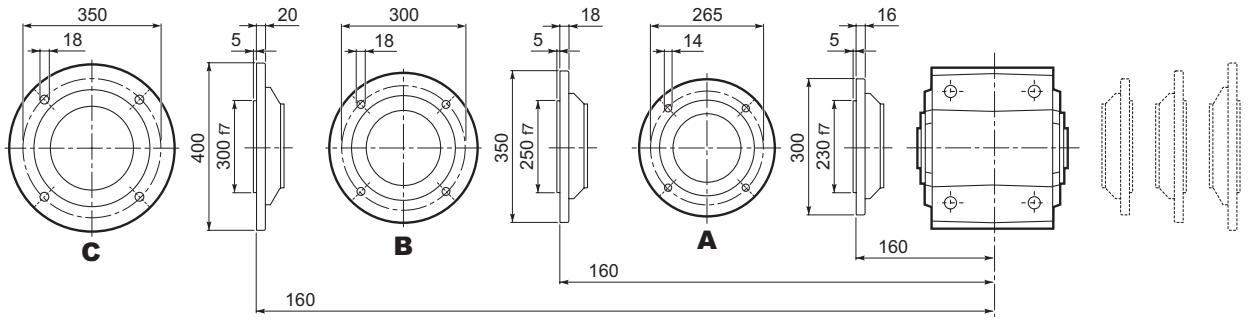


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 50 2		543.5	353.5	50	24	27	8	2.5	45	M8x19	72
A 50 3	**HS**	543.5	353.5	50	24	27	8	2.5	45	M8x19	76
A 50 4		576	396	40	19	21.5	6	2.5	35	M6x16	77

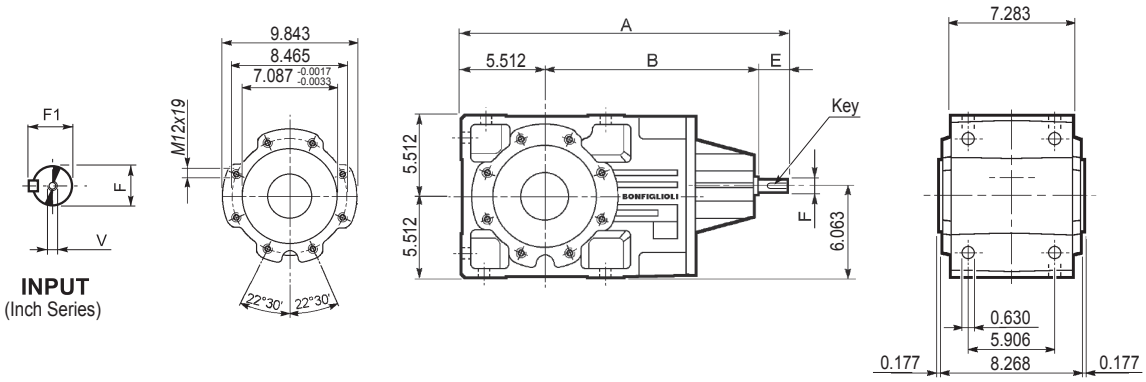
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 50...F...



Bonfiglioli Riduttori

A 50...NHS

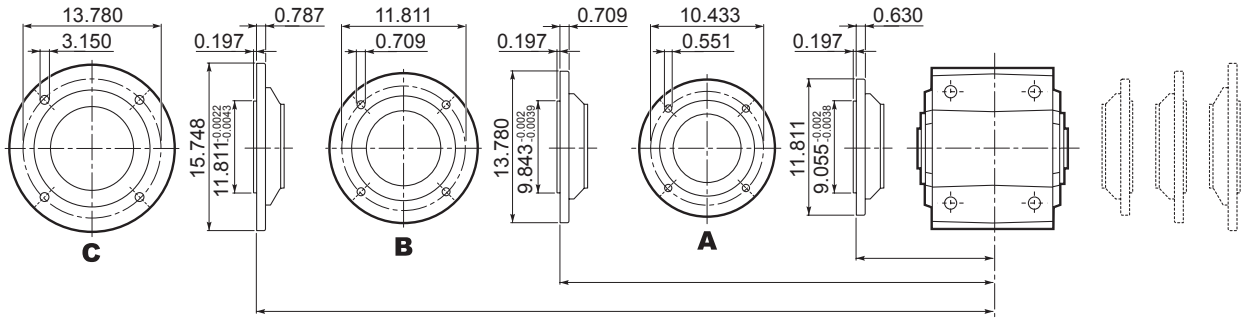


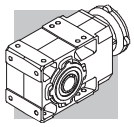
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 50 2	**NHS**	21.398	13.917	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	159
A 50 3	**NHS**	21.398	13.917	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	168
A 50 4	**NHS**	22.677	15.591	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	170

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

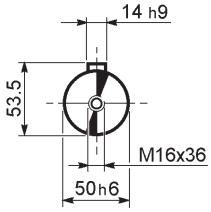
A 50...F...

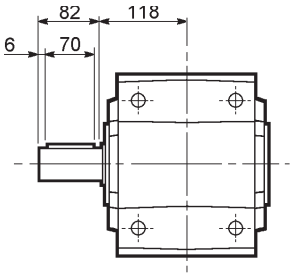




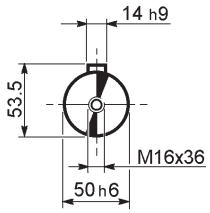
A 50

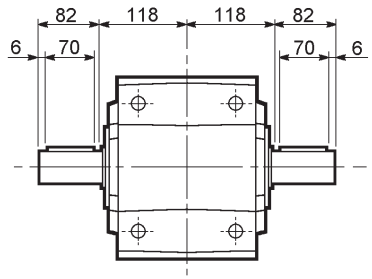
A 50...UR



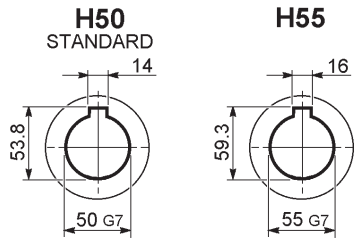


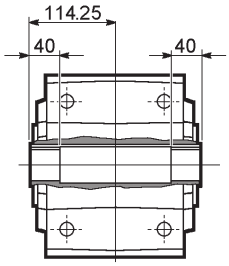
A 50...UD



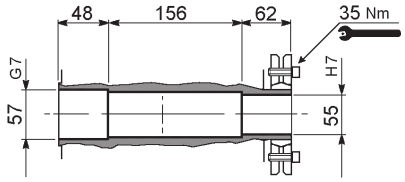


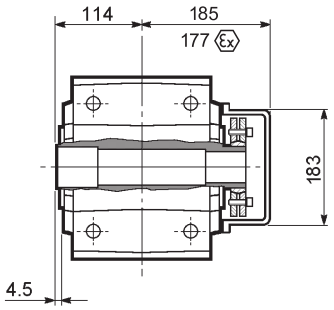
A 50...UH





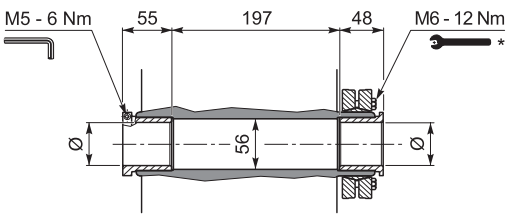
A 50...US

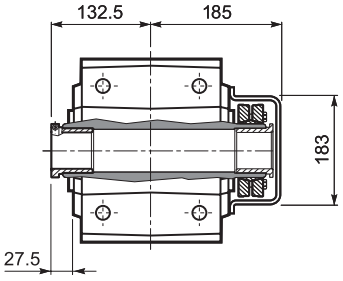




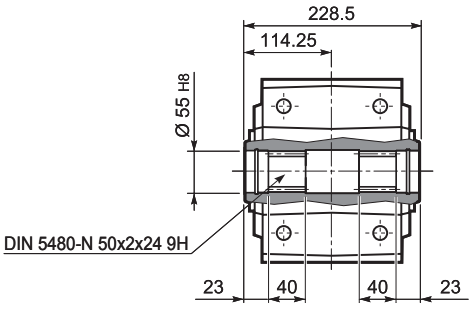
A 50...QF

	Ø
QF50	50
QF55	55

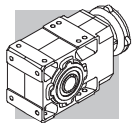




A 50...UV



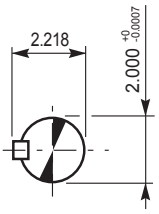
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

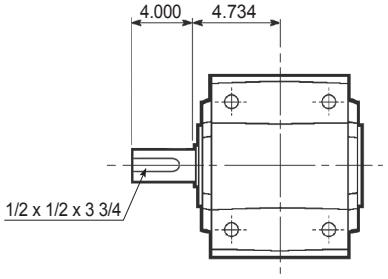


A 50

A 50...NUR

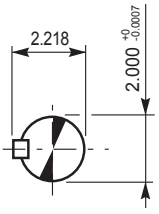
OUTPUT
(Inch Series)

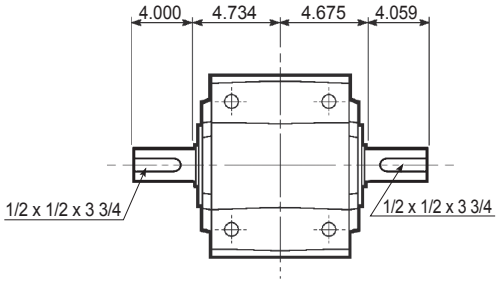




A 50...NUD

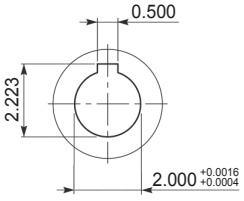
OUTPUT
(Inch Series)

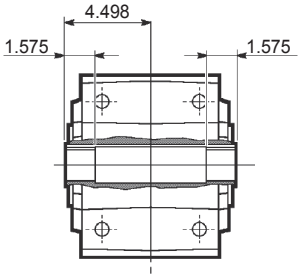




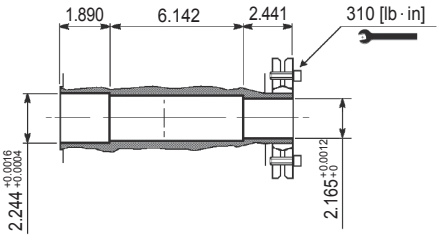
A 50...NUH

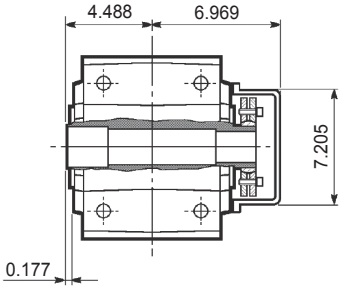
OUTPUT
(Inch Series)





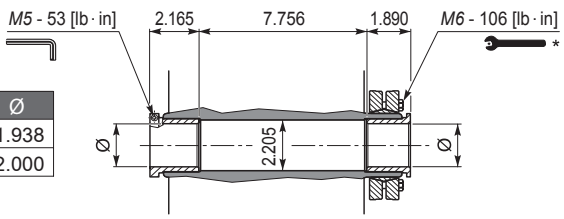
A 50...US

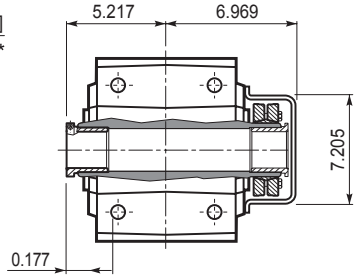




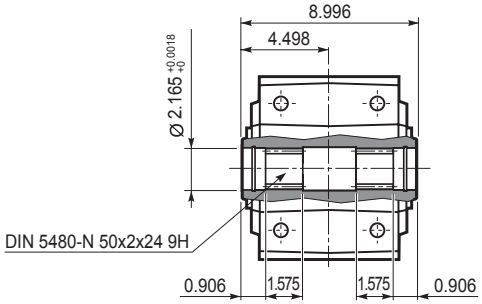
A 50...NQF

	Ø
NQF1-15/16	1.938
NQF2	2.000

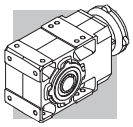




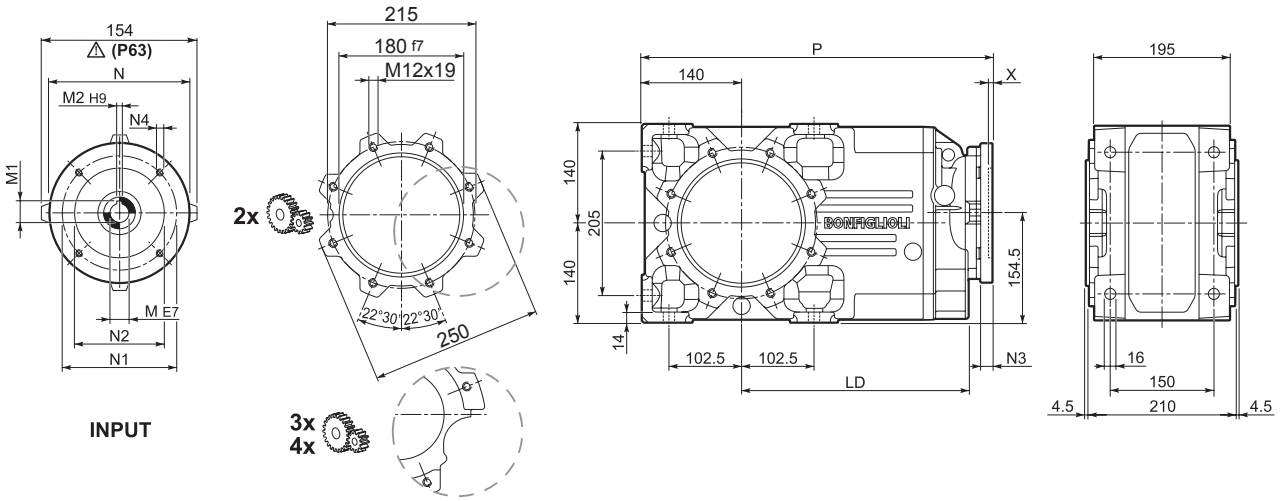
A 50...UV



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



A 55...P(IEC)

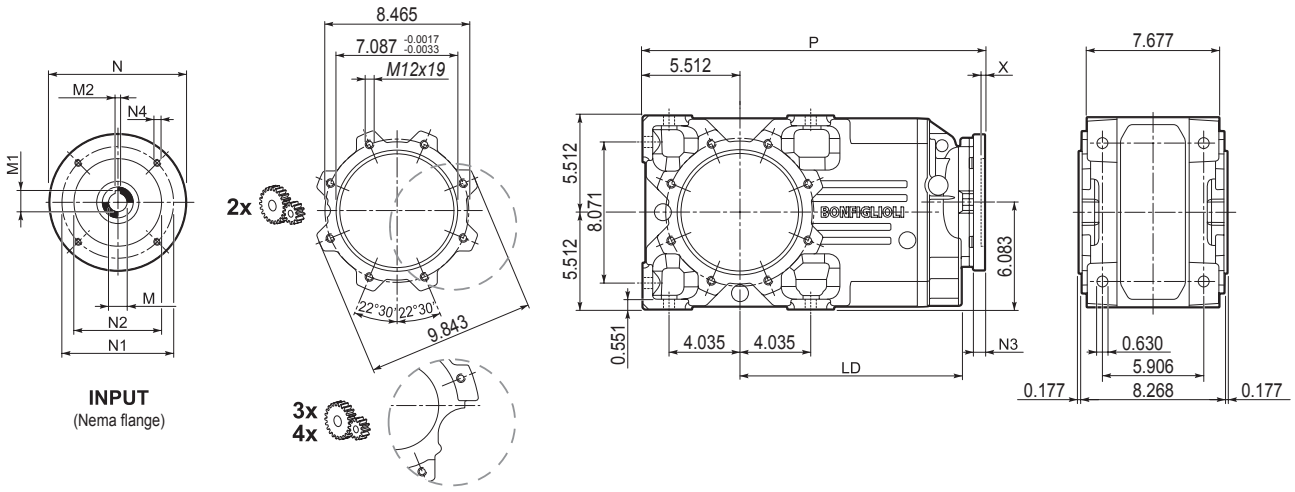


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 55 3	**P63**	302.5	11	12.8	4	140	115	95	—	M8x19	4	472.5	75
A 55 3	**P71**	302.5	14	16.3	5	160	130	110	—	M8x16	4.5	472.5	75
A 55 2/3	**P80**	317.5	19	21.8	6	200	165	130	—	M10x12	4	492	81
A 55 2/3	**P90**	317.5	24	27.3	8	200	165	130	—	M10x12	4	492	81
A 55 2/3	**P100**	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	**P112**	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	**P132**	302.5	38	41.3	10	300	265	230	16	14	5	538.5	93
A 55 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	589	110
A 55 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	589	110
A 55 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	544	77
A 55 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	544	77
A 55 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	563.5	78
A 55 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	563.5	78
A 55 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82
A 55 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

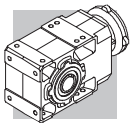
A 55...N(NEMA Input)



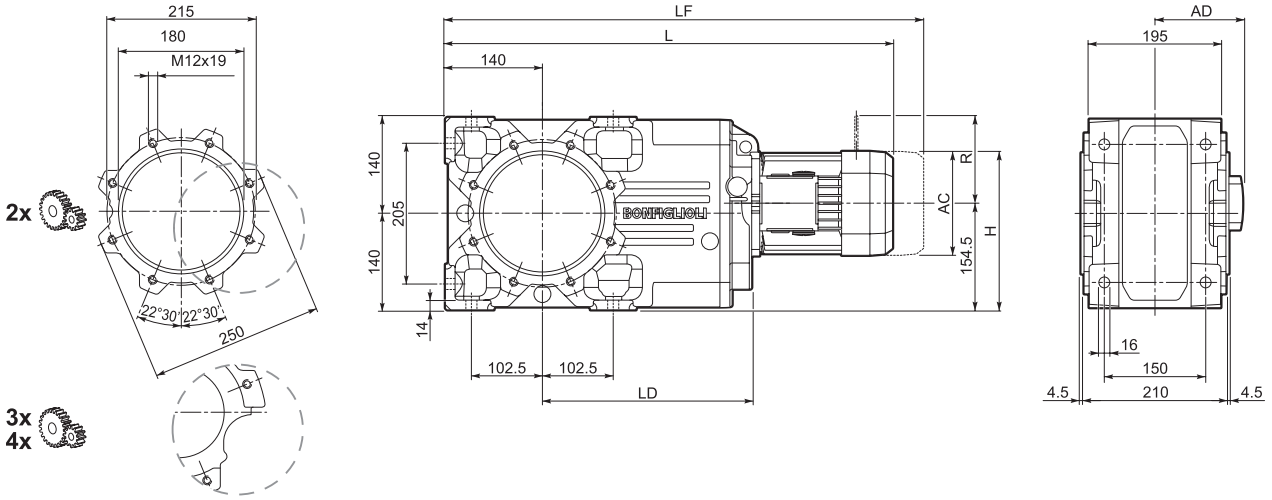
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 55 3	**N56C**	11.909	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	19.390	165
A 55 3	**N140TC**	11.909	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	19.390	179
A 55 2/3	**N180TC**	12.500	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	20.138	187
A 55 2/3	**N210TC**	11.909	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.531	0.531	0.217	21.378	205
A 55 2/3	**N250TC**	—	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0.0014}_{+0}$	13.780	7.250	8.500	—	0.551	0.217	24.173	272
A 55 2/3	**N280TC**	—	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0.0017}_{+0}$	13.740	10.500	9.000	—	0.551	0.217	24.370	276
A 55 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	22.205	170
A 55 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0.0012}_{+0}$	6.496	5.875	4.500	0.472	0.394	0.197	22.205	172
A 55 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0.0014}_{+0}$	8.996	7.250	8.500	0.630	0.551	0.217	23.031	181

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



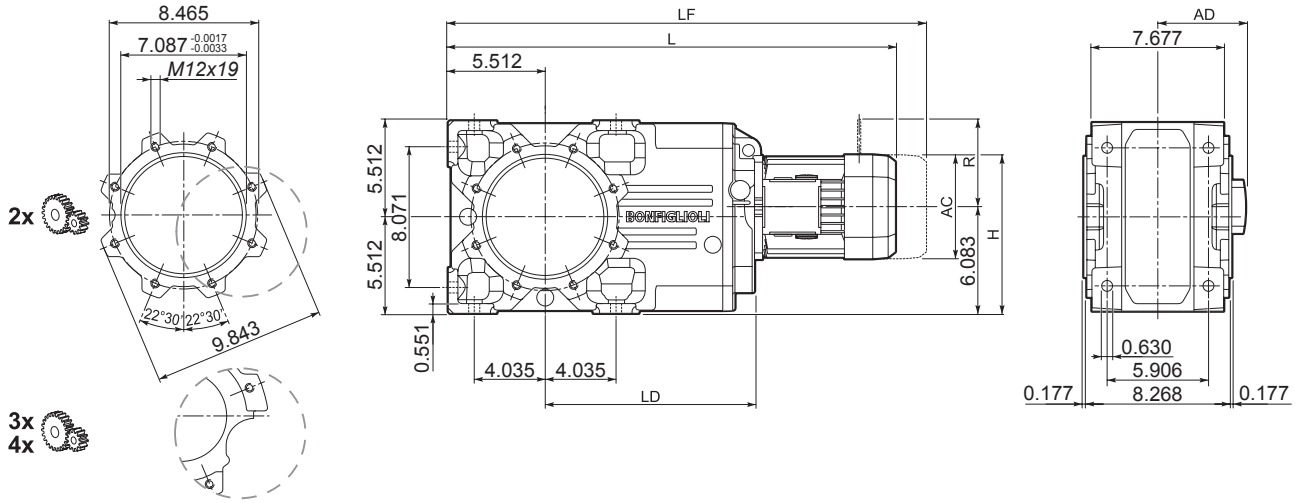
A 55...M/ME



Dimensões em mm

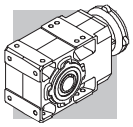
									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
A 55 3	**S1**	**M1**	138	198.5	627.5	—	108	81	688.5	84	103	135	124	108
A 55 2/3	**S2**	**ME2S**	156	232	656.5	302.5	119	88	—	—	—	—	—	—
A 55 2/3	**S3**	**ME3S**	195	251	699.5	317.5	142	94.5	—	—	—	—	—	—
A 55 2/3	**S3**	**ME3L**	195	251	731.5	317.5	142	101	—	—	—	—	—	—
A 55 2/3	**S4**	**ME4**	258	283	839.5	302.5	193	135	—	—	—	—	—	—
A 55 2/3	**S4**	**ME4LB**	258	283	874.5	302.5	193	143	—	—	—	—	—	—
A 55 2/3	**S5**	**ME5S**	310	309.5	926	—	245	163	—	—	—	—	—	—
A 55 2/3	**S5**	**ME5L**	310	309.5	970	—	245	179	—	—	—	—	—	—
A 55 4	**S1**	**M1**	138	223	699	—	108	82	760	85	103	135	124	108
A 55 4	**S2**	**ME2S**	156	232	728	—	119	86	—	—	—	—	—	—
A 55 4	**S3**	**ME3S**	195	251.5	771	—	142	92.5	—	—	—	—	—	—
A 55 4	**S3**	**ME3L**	195	251.5	803	—	142	98	—	—	—	—	—	—

A 55...M/ME

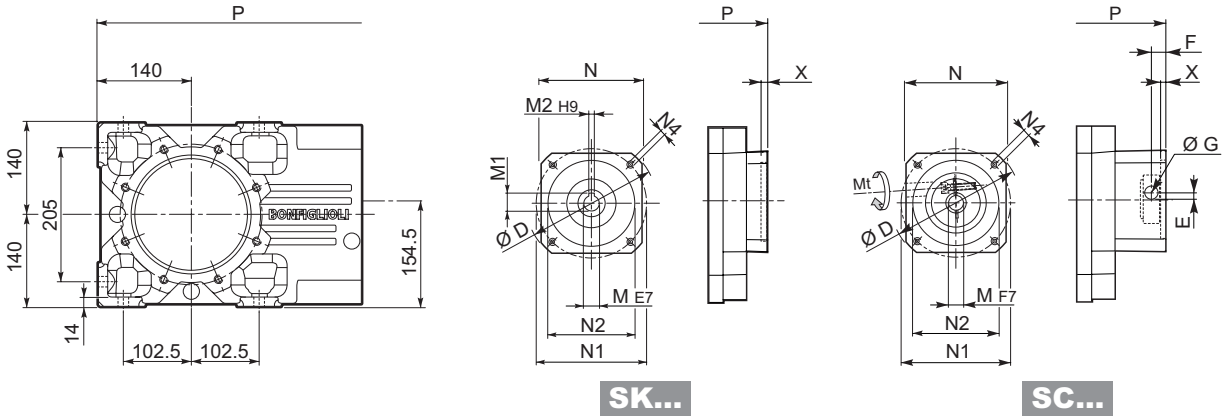


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
A 55 3	**S1**	**M1**	5.433	7.815	24.705	—	4.252	179	27.106	185	4.055	5.315	4.882	4.252
A 55 2/3	**S2**	**ME2S**	6.142	9.134	25.846	11.909	4.685	194	—	—	—	—	—	—
A 55 2/3	**S3**	**ME3S**	7.677	9.882	27.539	12.500	5.591	208	—	—	—	—	—	—
A 55 2/3	**S3**	**ME3L**	7.677	9.882	28.799	12.500	5.591	223	—	—	—	—	—	—
A 55 2/3	**S4**	**ME4**	10.157	11.142	33.051	11.909	7.598	298	—	—	—	—	—	—
A 55 2/3	**S4**	**ME4LB**	10.157	11.142	34.429	11.909	7.598	315	—	—	—	—	—	—
A 55 2/3	**S5**	**ME5S**	12.205	12.185	36.457	—	9.646	359	—	—	—	—	—	—
A 55 2/3	**S5**	**ME5L**	12.205	12.185	38.189	—	9.646	395	—	—	—	—	—	—
A 55 4	**S1**	**M1**	5.433	8.780	27.520	—	4.252	181	29.921	187	4.055	5.315	4.882	4.252
A 55 4	**S2**	**ME2S**	6.142	9.134	28.661	—	4.685	190	—	—	—	—	—	—
A 55 4	**S3**	**ME3S**	7.677	9.902	30.354	—	5.591	204	—	—	—	—	—	—
A 55 4	**S3**	**ME3L**	7.677	9.902	31.614	—	5.591	216	—	—	—	—	—	—



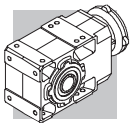
A 55...SK / SC



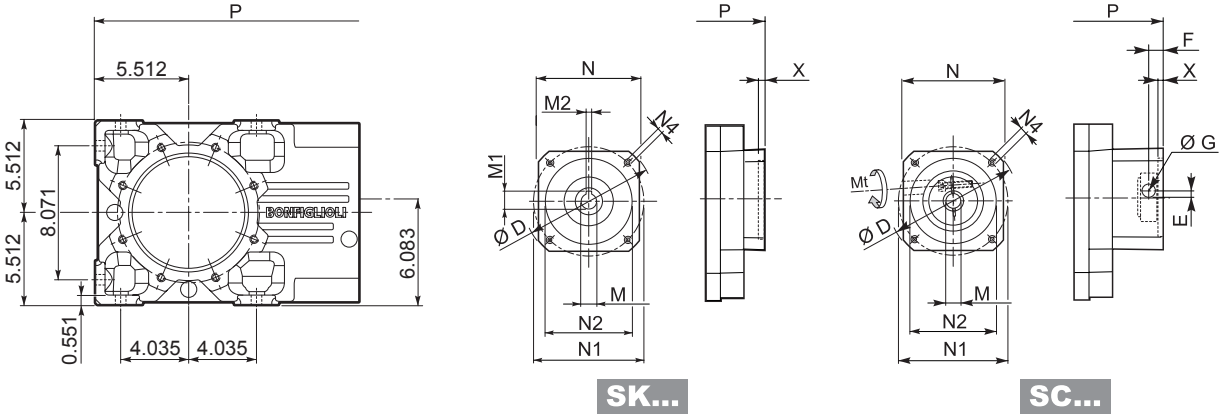
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
A 55 3	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	492	—	81
A 55 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	492	563.5	81/81/77
A 55 3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	492	563.5	81/81/77
A 55 2/3/4	**SK110A**	150	19	21.8	6	120	130	110	M8x12	5	492	593	81/81/78
A 55 2/3/4	**SK110B**	150	24	27.3	8	120	130	110	M8x12	5	492	593	81/81/78
A 55 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	492	593	83/83/79
A 55 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	538.5	—	90/90
A 55 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	538.5	—	90/90
A 55 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	538.5	—	90/90

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	Kg
A 55 3	**SC80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	515.5	—	82
A 55 2/3/4	**SC80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	515.5	587	82/82/78
A 55 3/4	**SC95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	**SC95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	**SC95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	515.5	587	82/82/78
A 55 2/3/4	**SC110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	515.5	587	83/83/79
A 55 2/3/4	**SC110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	515.5	587	83/83/79
A 55 2/3/4	**SC130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	515.5	587	84/84/80
A 55 2/3	**SC130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	561.5	—	93/93
A 55 2/3	**SC180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	565.5	—	93/93
A 55 2/3	**SC180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	565.5	—	93/93



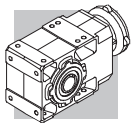
A 55...SK / SC



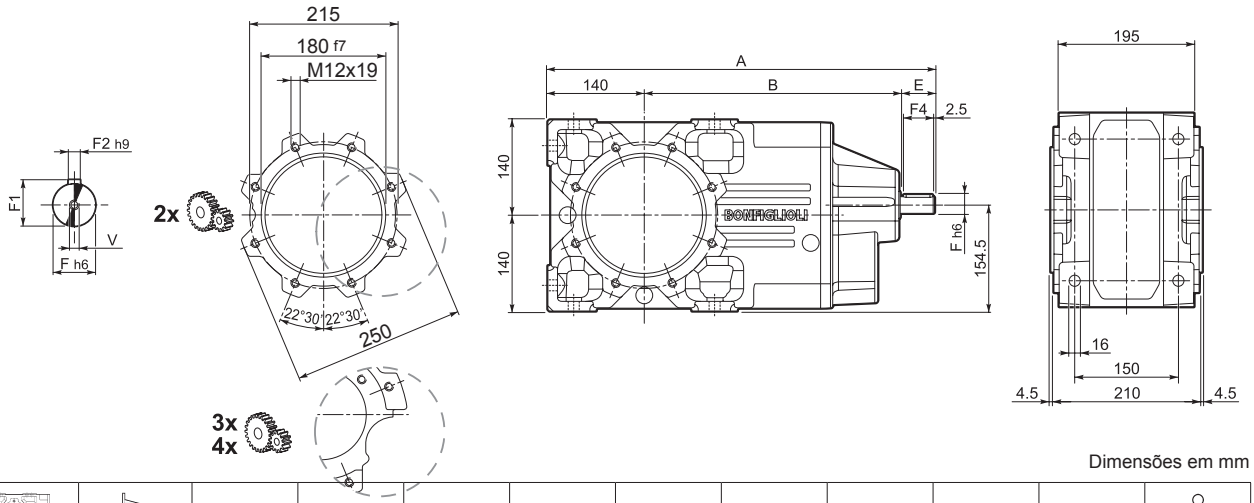
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
A 55 3	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	19.370	—	179
A 55 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	19.370	22.185	179/179/170
A 55 3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	19.370	22.185	179/179/170
A 55 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	19.370	22.185	179/179/170
A 55 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	19.370	22.185	179/179/170
A 55 2/3/4	**SK110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	19.370	23.346	179/179/172
A 55 2/3/4	**SK110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	19.370	23.346	179/179/172
A 55 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	19.370	23.346	183/183/174
A 55 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	21.201	—	198/198
A 55 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	21.201	—	198/198
A 55 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	21.201	—	198/198

		Mt [lb·in]		D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	lbs
A 55 3	**SC80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	20.295	—	181
A 55 2/3/4	**SC80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	20.295	23.110	181/181/172
A 55 3/4	**SC95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	20.295	23.110	181/181/172
A 55 2/3/4	**SC95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	20.295	23.110	181/181/172
A 55 2/3/4	**SC95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	20.295	23.110	181/181/172
A 55 2/3/4	**SC110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	20.295	23.110	183/183/174
A 55 2/3/4	**SC110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	20.295	23.110	183/183/174
A 55 2/3/4	**SC130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	20.295	23.110	185/185/176
A 55 2/3	**SC130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	22.106	—	205/205
A 55 2/3	**SC180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	22.264	—	205/205
A 55 2/3	**SC180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	22.264	—	205/205



A 55...HS

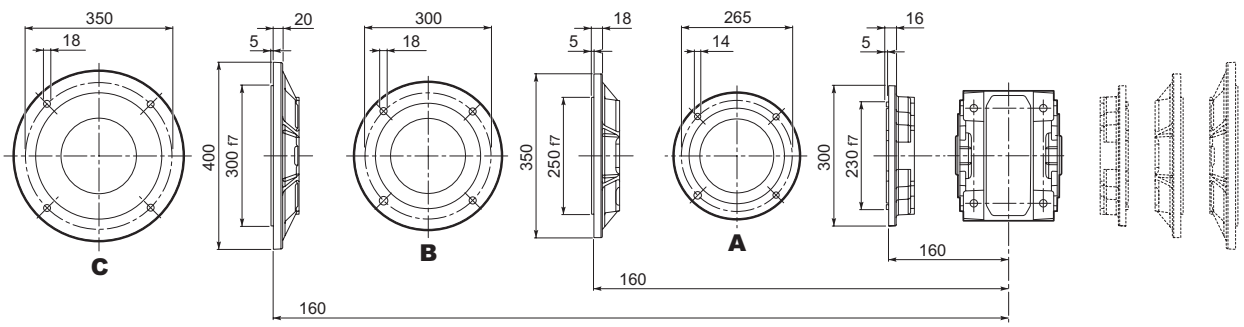


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 55 2		561.5	371.5	50	24	27	8	2.5	45	M8x19	96
A 55 3	**HS**	561.5	371.5	50	24	27	8	2.5	45	M8x19	91
A 55 4		594	414	40	19	21.5	6	2.5	35	M6x16	92

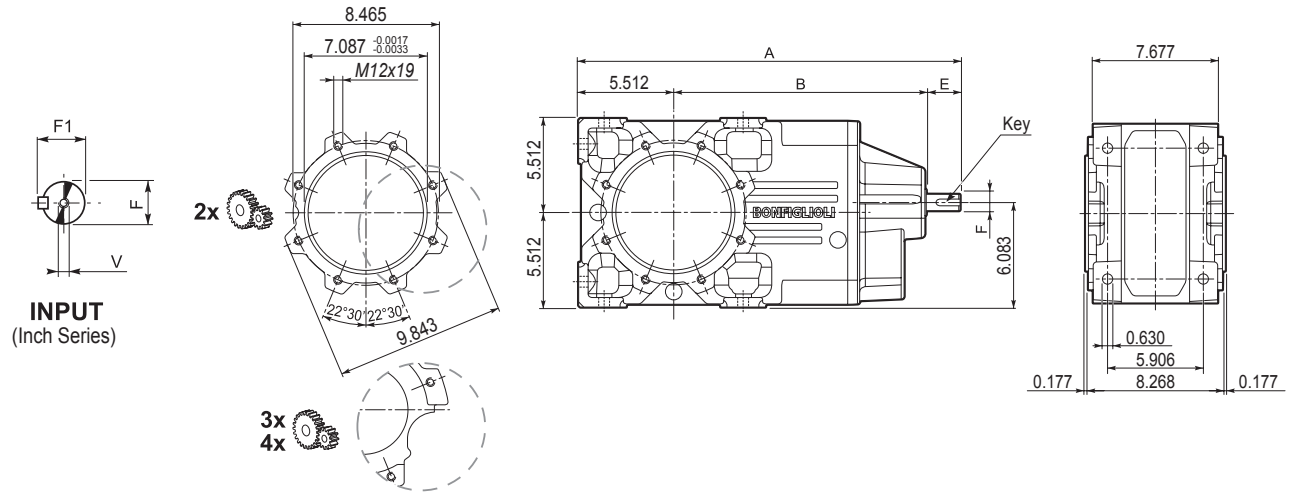
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 55...F...



Bonfiglioli Riduttori

A 55...NHS

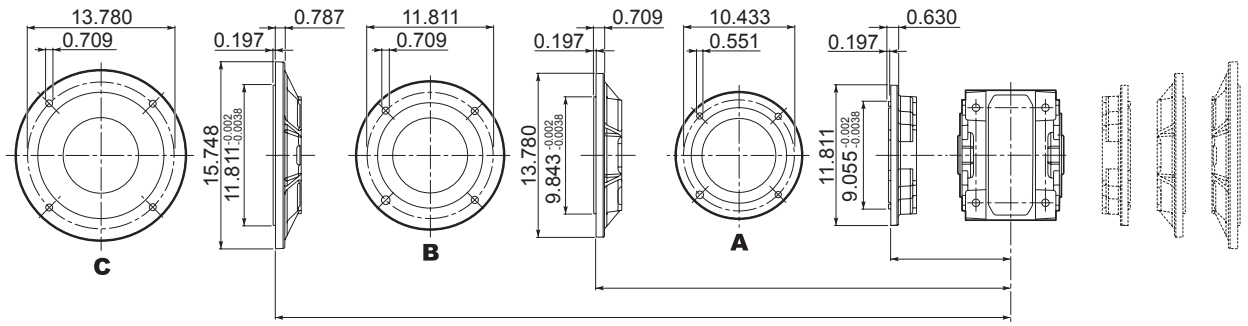


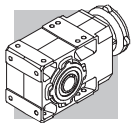
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 55 2	**NHS**	22.106	14.626	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	212
A 55 3	**NHS**	22.106	14.626	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	201
A 55 4	**NHS**	23.386	16.299	1.575	0.750 +0 -0.0005	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	203

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

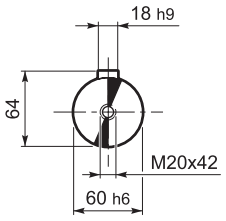
A 55...F...

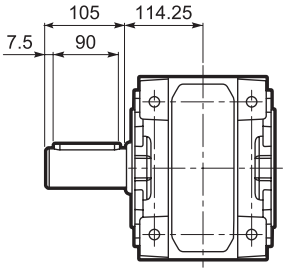




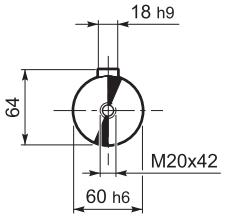
A 55

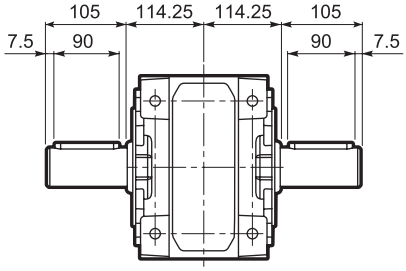
A 55...UR



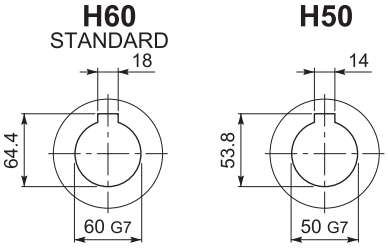


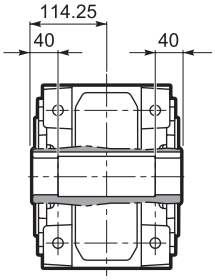
A 55...UD



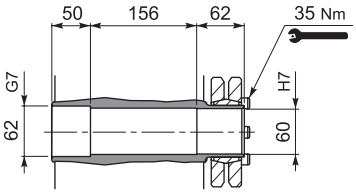


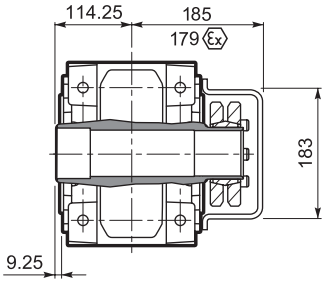
A 55...UH



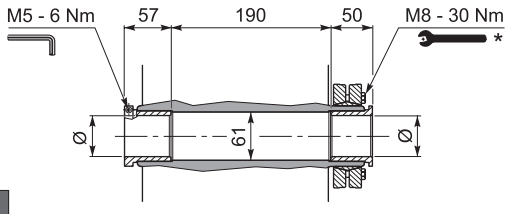


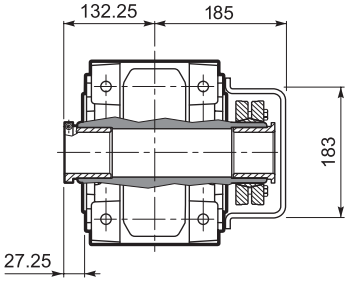
A 55...US





A 55...QF

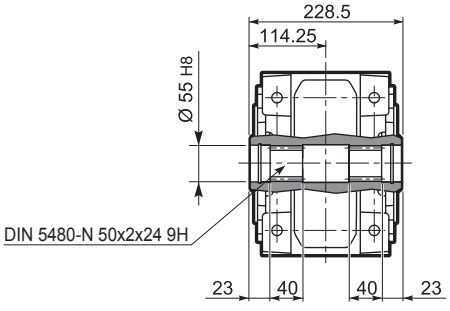




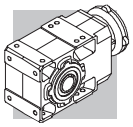
	Ø
QF55	55
QF60	60

$M_{n2\ max}$ [Nm]	
A 55 QF55	1900

A 55...UV

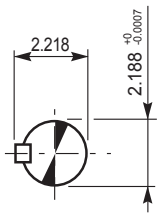


* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

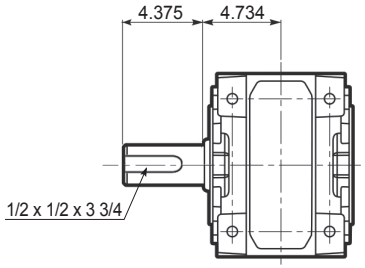


A 55

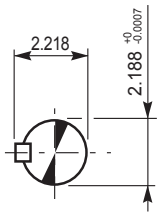
A 55...NUR



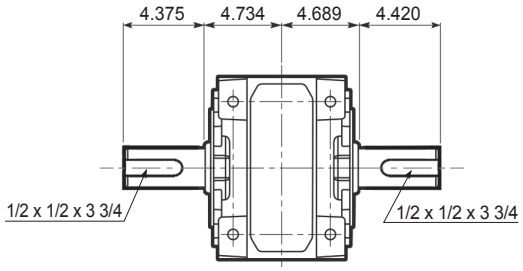
OUTPUT
(Inch Series)



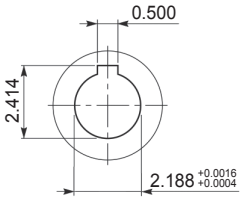
A 55...NUD



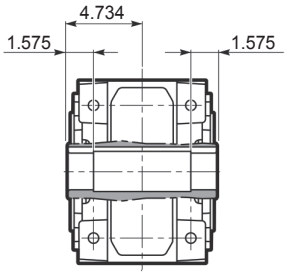
OUTPUT
(Inch Series)



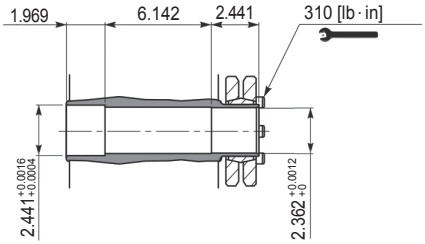
A 55...NUH

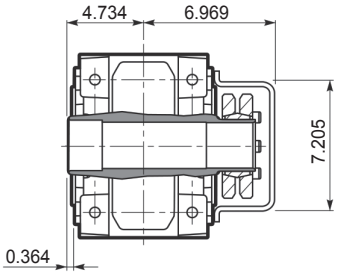


OUTPUT
(Inch Series)

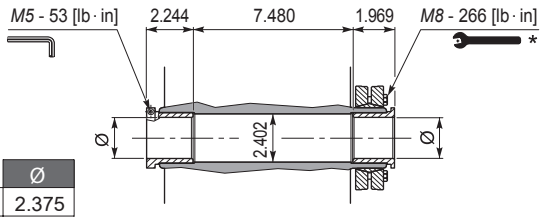


A 55...US

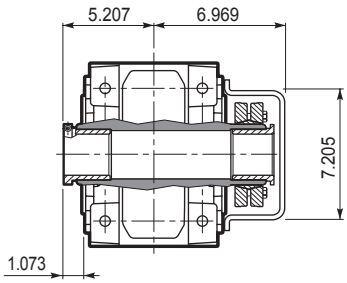




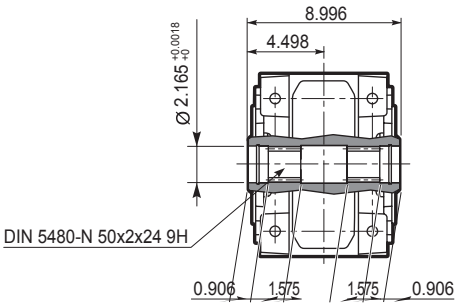
A 55...NQF



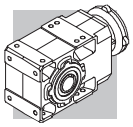
	Ø
NQF2-3/8	2.375



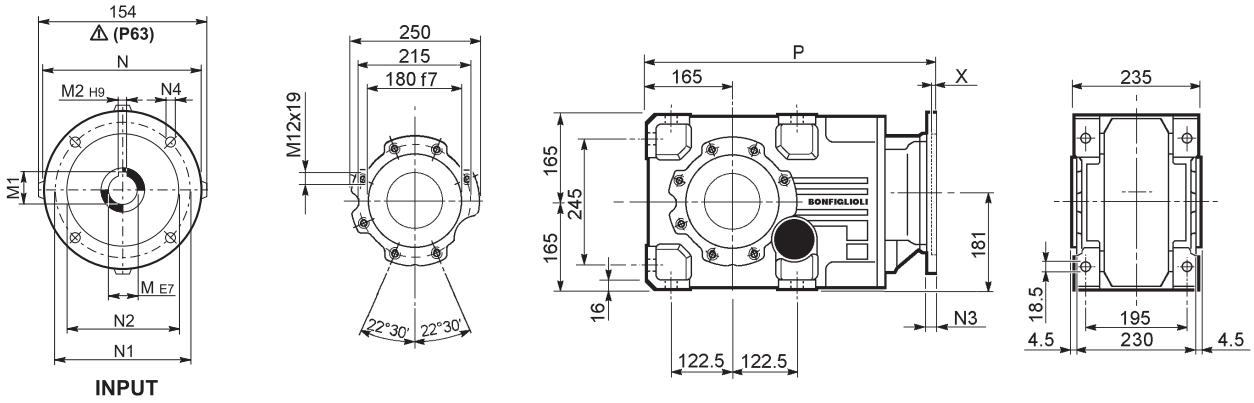
A 55...UV



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



A 60...P(IEC)

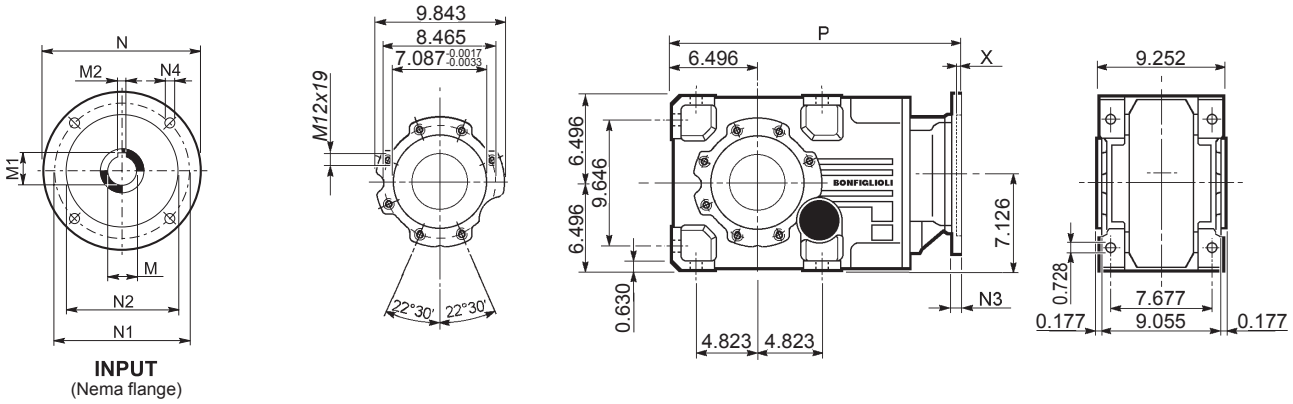


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 60 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	516.5	90
A 60 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	516.5	90
A 60 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	536	91
A 60 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	536	91
A 60 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	**P132**	38	41.3	10	300	265	230	16	14	5	582.5	104
A 60 2/3	**P160**	42	45.3	12	350	300	250	23	18	5.5	633	121
A 60 2/3	**P180**	48	51.8	14	350	300	250	23	18	5.5	633	121
A 60 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	587	88
A 60 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	587	88
A 60 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	606.5	90
A 60 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	606.5	90
A 60 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94
A 60 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

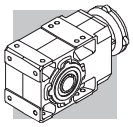
A 60...N(NEMA Input)



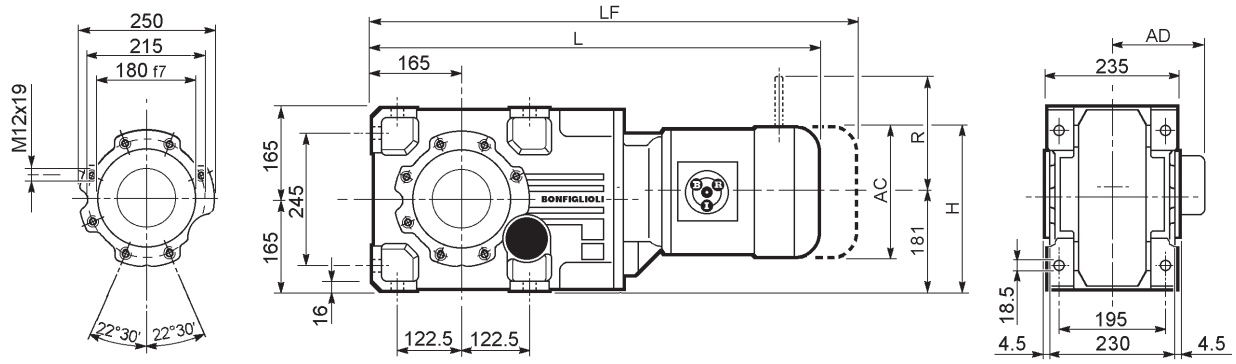
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 60 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	21.122	201
A 60 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.870	209
A 60 2/3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	23.110	229
A 60 2/3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	25.906	297
A 60 2/3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	26.102	300
A 60 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.898	194
A 60 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	23.898	198
A 60 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	24.724	207

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

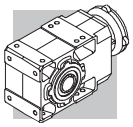


A 60...M/ME

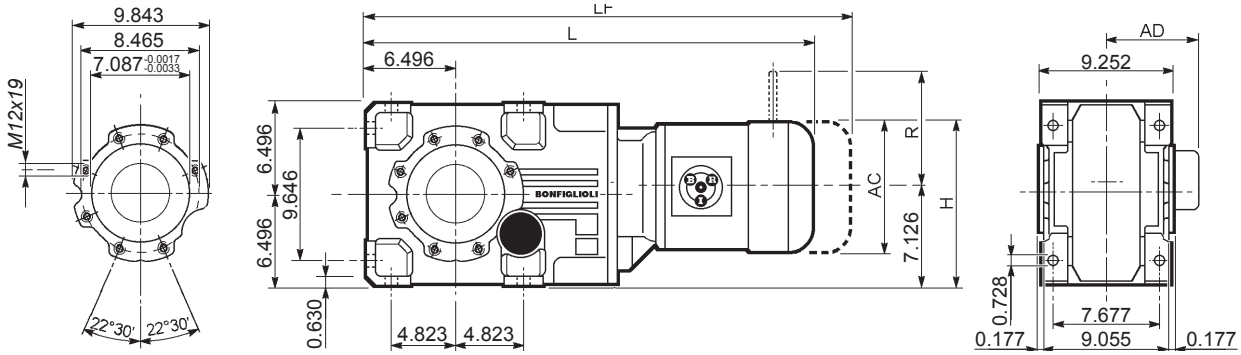


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 60 2/3	**S2**	**ME2S**	156	256.5	700.5	119	98	—	—	—	—	—	—
A 60 2/3	**S3**	**ME3S**	195	276	743.5	142	103	—	—	—	—	—	—
A 60 2/3	**S3**	**ME3L**	195	276	775.5	142	111	—	—	—	—	—	—
A 60 2/3	**S4**	**ME4**	258	307.5	883.5	193	145	—	—	—	—	—	—
A 60 2/3	**S4**	**ME4LB**	258	307.5	918.5	193	153	—	—	—	—	—	—
A 60 2/3	**S5**	**ME5S**	310	333.5	970	245	173	—	—	—	—	—	—
A 60 2/3	**S5**	**ME5L**	310	333.5	1014	245	189	—	—	—	—	—	—
A 60 4	**S1**	**M1**	138	247.5	742	108	100	803	103	103	135	124	108
A 60 4	**S2**	**ME2S**	156	256.5	771	119	104	—	—	—	—	—	—
A 60 4	**S3**	**ME3S**	195	276	814	142	109	—	—	—	—	—	—
A 60 4	**S3**	**ME3L**	195	276	846	142	117	—	—	—	—	—	—

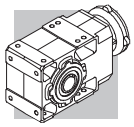


A 60...M/ME

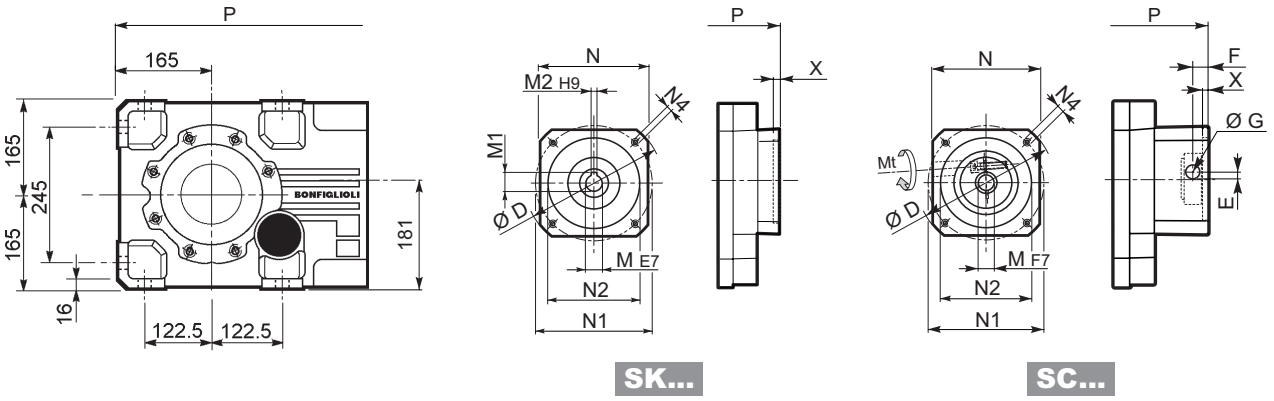


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 60 2/3	**S2**	**ME2S**	6.142	10.098	27.579	4.685	216	—	—	—	—	—	—
A 60 2/3	**S3**	**ME3S**	7.677	10.866	29.272	5.591	227	—	—	—	—	—	—
A 60 2/3	**S3**	**ME3L**	7.677	10.866	30.531	5.591	245	—	—	—	—	—	—
A 60 2/3	**S4**	**ME4**	10.157	12.106	34.783	7.598	320	—	—	—	—	—	—
A 60 2/3	**S4**	**ME4LB**	10.157	12.106	36.161	7.598	337	—	—	—	—	—	—
A 60 2/3	**S5**	**ME5S**	12.205	13.130	38.189	9.646	381	—	—	—	—	—	—
A 60 2/3	**S5**	**ME5L**	12.205	13.130	39.921	9.646	417	—	—	—	—	—	—
A 60 4	**S1**	**M1**	5.433	9.744	29.213	4.252	220	31.614	227	4.055	5.315	4.882	4.252
A 60 4	**S2**	**ME2S**	6.142	10.098	30.354	4.685	229	—	—	—	—	—	—
A 60 4	**S3**	**ME3S**	7.677	10.866	32.047	5.591	240	—	—	—	—	—	—
A 60 4	**S3**	**ME3L**	7.677	10.866	33.307	5.591	258	—	—	—	—	—	—



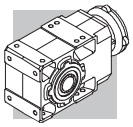
A 60...SK / SC



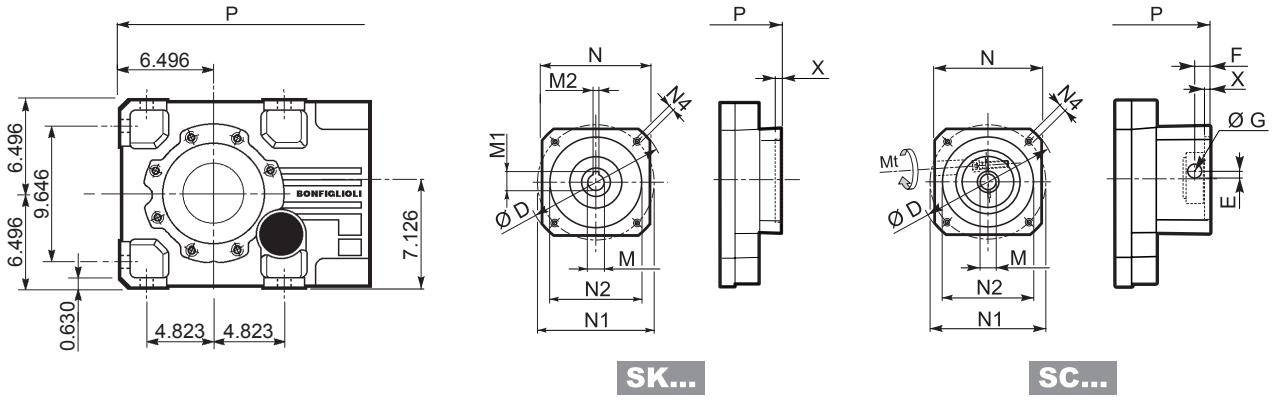
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	Kg
A 60 4	**SK80B**	120	14	16.3	5	96	100	80	M6x12	4	—	606.5	89
A 60 2/3/4	**SK80C**	120	19	21.8	6	96	100	80	M6x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK95A**	130	14	16.3	5	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK95B**	130	19	21.8	6	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK95C**	130	24	27.3	8	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	**SK110A**	140	19	21.8	6	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	**SK110B**	140	24	27.3	8	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	**SK130A**	188	24	27.3	8	142	165	130	M10x20	5	536	606.5	97/97/103
A 60 2/3	**SK130B**	189	32	35.3	10	160	165	130	M10x20	5	582.5	—	102/102
A 60 2/3	**SK180A**	240	32	35.3	10	192	215	180	M12x19	5	582.5	—	102/102
A 60 2/3	**SK180B**	240	38	41.3	10	192	215	180	M12x19	5	582.5	—	102/102

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	Kg
A 60 4	**SC80B**	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	630	90
A 60 2/3/4	**SC80C**	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	559.5	630	94/94/93
A 60 2/3/4	**SC95A**	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	**SC95B**	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	**SC95C**	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	**SC110A**	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	**SC110B**	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	**SC130A**	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	559.5	630	96/96/104
A 60 2/3	**SC130B**	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	605.5	—	105/105
A 60 2/3	**SC180A**	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	609.5	—	105/105
A 60 2/3	**SC180B**	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	609.5	—	105/105



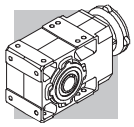
A 60...SK / SC



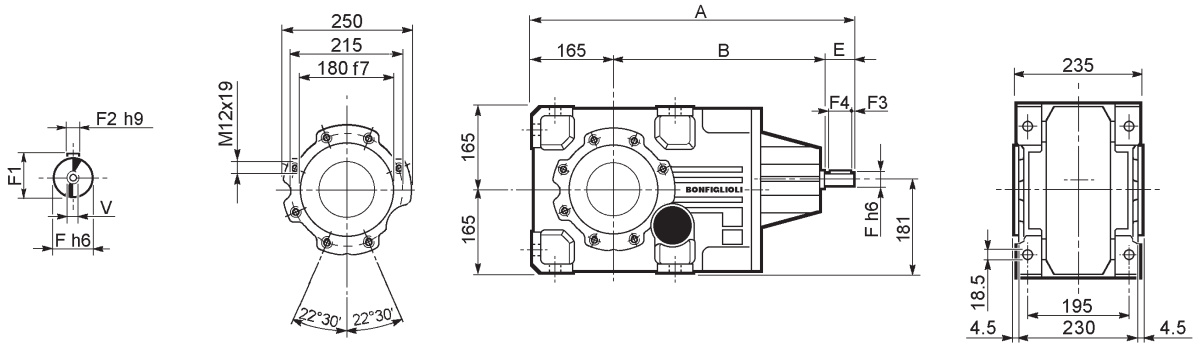
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P 2/3x	P 4x	lbs
A 60 4	**SK80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	—	23.878	196
A 60 2/3/4	**SK80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	21.102	23.878	205/205/203
A 60 2/3/4	**SK110A**	5.512	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	21.102	23.878	205/205/203
A 60 2/3/4	**SK110B**	5.512	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	21.102	23.878	205/205/203
A 60 2/3/4	**SK130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	21.102	23.878	214/214/227
A 60 2/3	**SK130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	22.933	—	225/225
A 60 2/3	**SK180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	22.933	—	225/225
A 60 2/3	**SK180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	22.933	—	225/225

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P 2/3x	P 3x	lbs
A 60 4	**SC80B**	*M6* 133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	—	24.803	198
A 60 2/3/4	**SC80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	22.028	24.803	207/207/205
A 60 2/3/4	**SC110A**	*M6* 133	5.512	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	22.028	24.803	209/209/205
A 60 2/3/4	**SC110B**	*M6* 133	5.512	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	22.028	24.803	209/209/205
A 60 2/3/4	**SC130A**	*M6* 133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	22.028	24.803	212/212/229
A 60 2/3	**SC130B**	*M8* 319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	23.839	—	231/231
A 60 2/3	**SC180A**	*M8* 319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	23.996	—	231/231
A 60 2/3	**SC180B**	*M8* 319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	23.996	—	231/231



A 60...HS

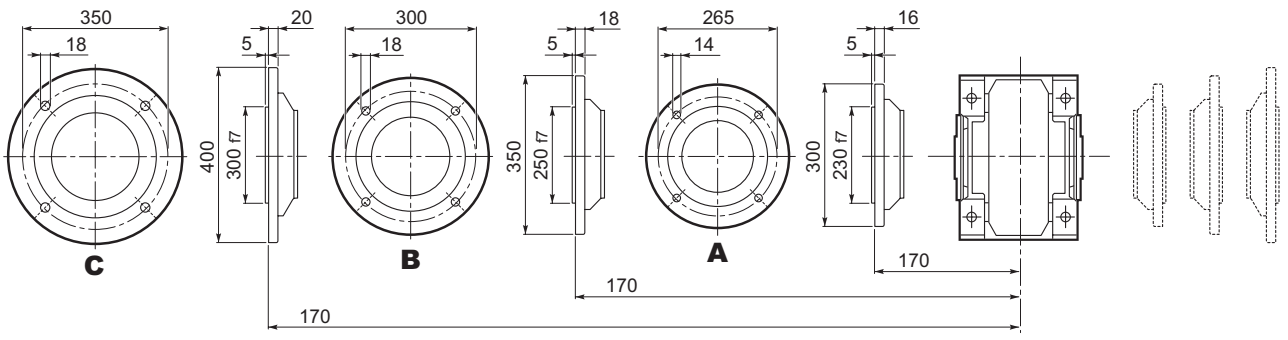


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 60 2	**HS**	633	408	60	28	31	8	5.0	50	M10x22	106
A 60 3		633	408	60	28	31	8	5.0	50	M10x22	106
A 60 4		676	461	50	24	27	8	2.5	45	M8x19	112

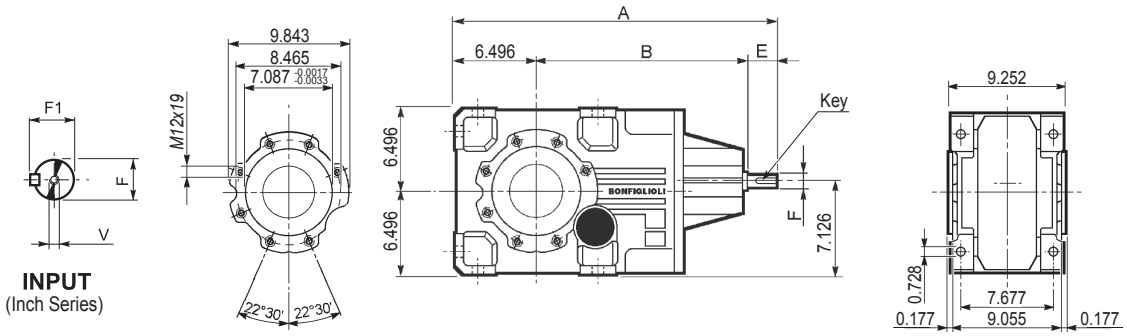
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

A 60...F...



Bonfiglioli Riduttori

A 60...NHS

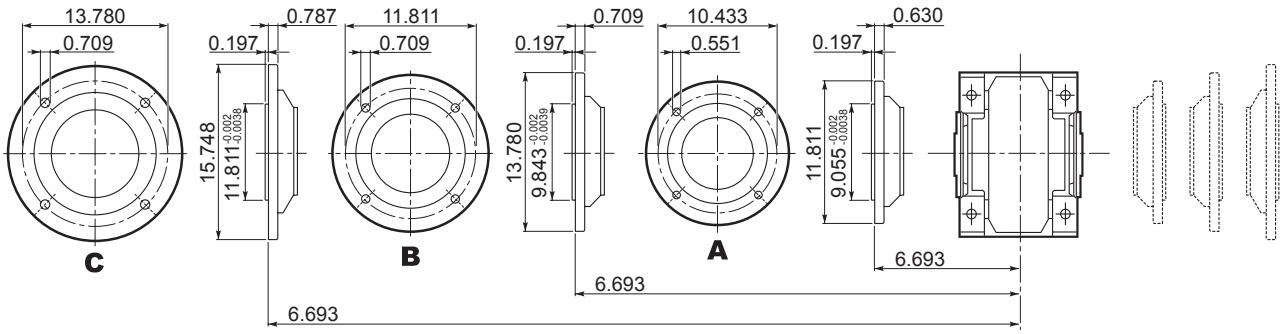


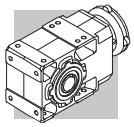
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	B	E	F	F1	V	Key	lbs
A 60 2	**NHS**	24.921	16.063	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	234
A 60 3	**NHS**	24.921	16.063	2.362	1.125 +0 -0.0005	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	234
A 60 4	**NHS**	26.614	18.150	1.969	1.000 +0 -0.0005	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	247

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

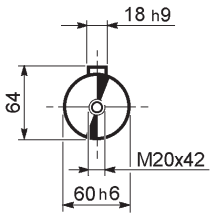
A 60...F...

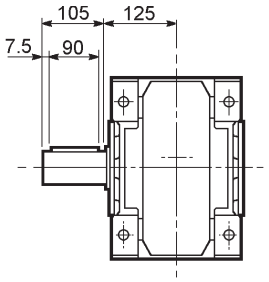




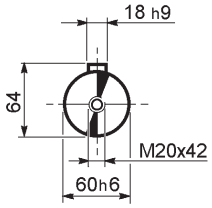
A 60

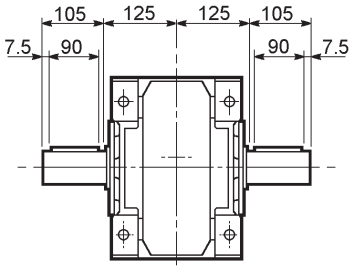
A 60...UR



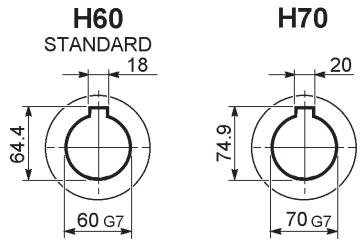


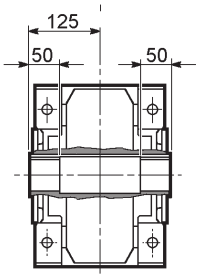
A 60...UD



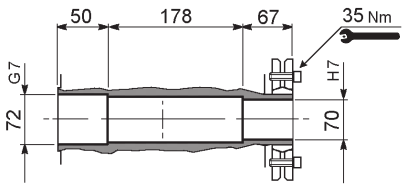


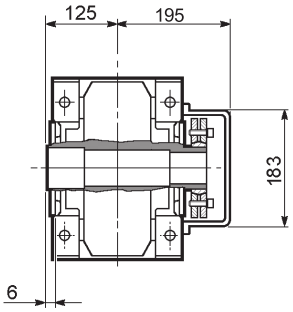
A 60...UH





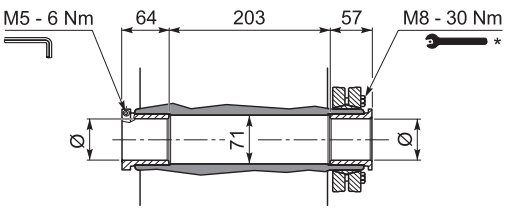
A 60...US

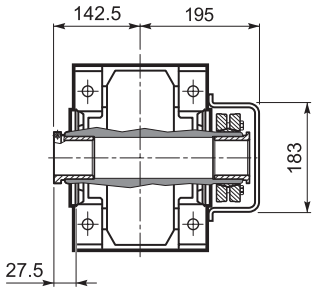




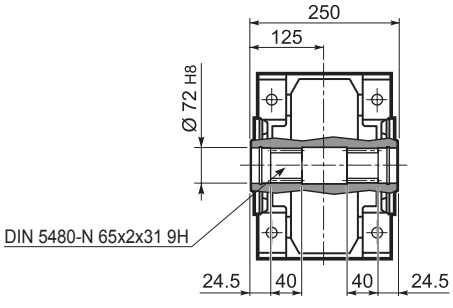
A 60...QF

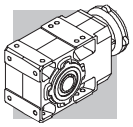
	Ø
QF60	60
QF65	65
QF70	70





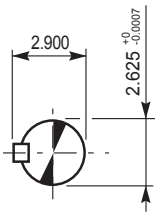
A 60...UV



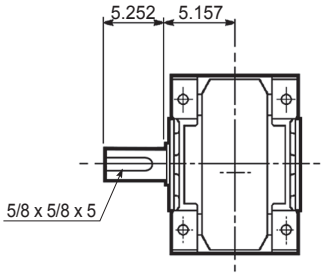


A 60

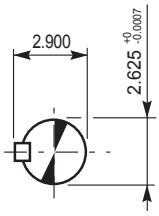
A 60...NUR



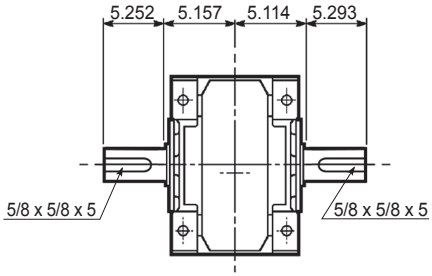
OUTPUT
(Inch Series)



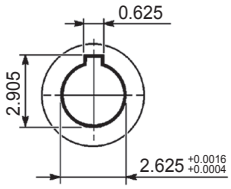
A 60...NUD



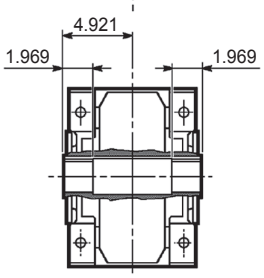
OUTPUT
(Inch Series)



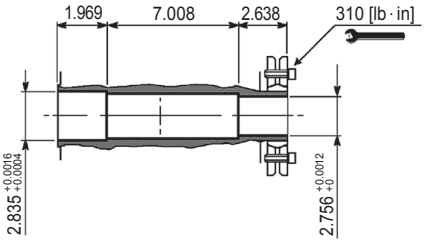
A 60...NUH

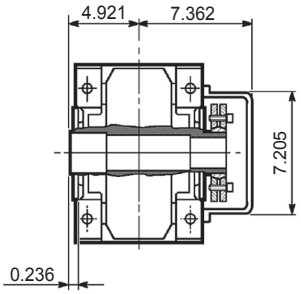


OUTPUT
(Inch Series)

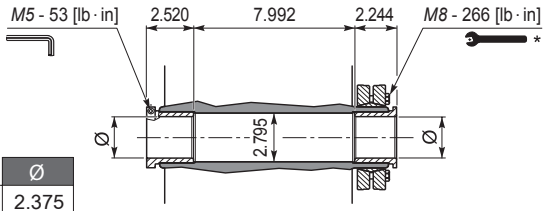


A 60...US

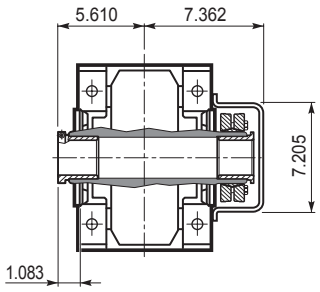




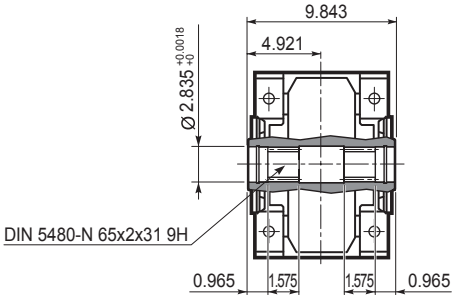
A 60...NQF



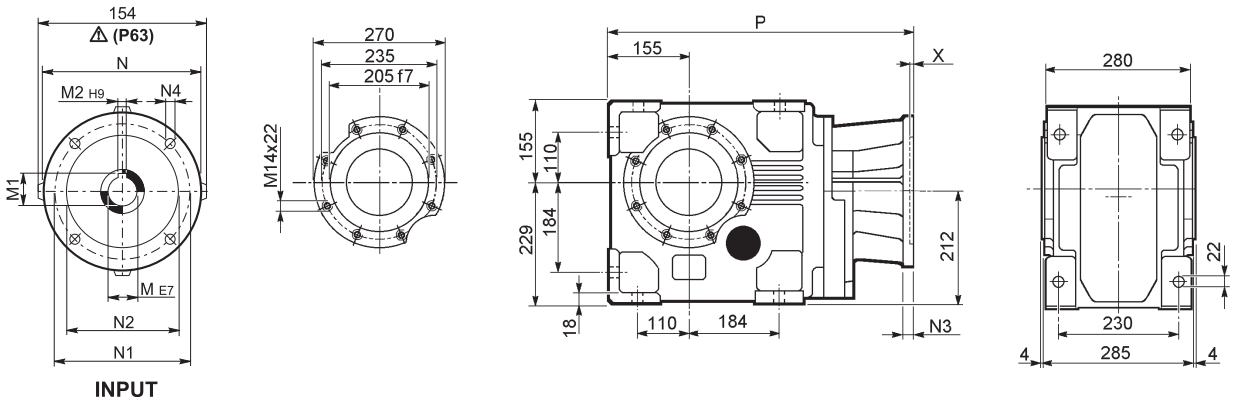
	Ø
NQF2-3/8	2.375
NQF2-7/16	2.438
NQF2-3/4	2.750



A 60...UV



A 70...P (IEC)

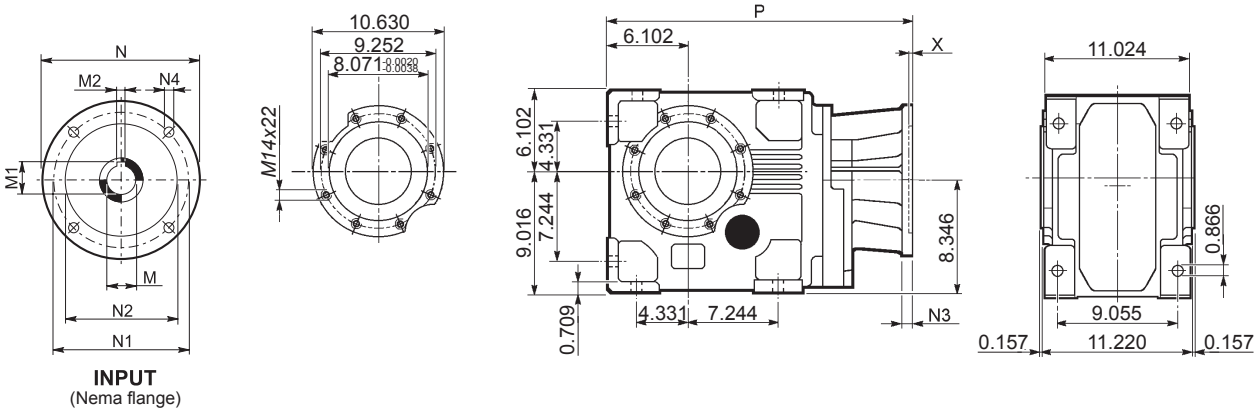


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 70 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	524	144
A 70 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	524	144
A 70 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	**P132**	38	41.3	10	300	265	230	16	14	5	570.5	154
A 70 3	**P160**	42	45.3	12	350	300	250	23	18	6	626	169
A 70 3	**P180**	48	51.8	14	350	300	250	23	18	6	626	169
A 70 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	651	179
A 70 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	555.5	146
A 70 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	555.5	146
A 70 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	575	147
A 70 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	575	147
A 70 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	**P132**	38	41.3	10	300	265	230	16	14	5	618.5	157

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

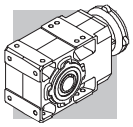
A 70...N(NEMA Input)



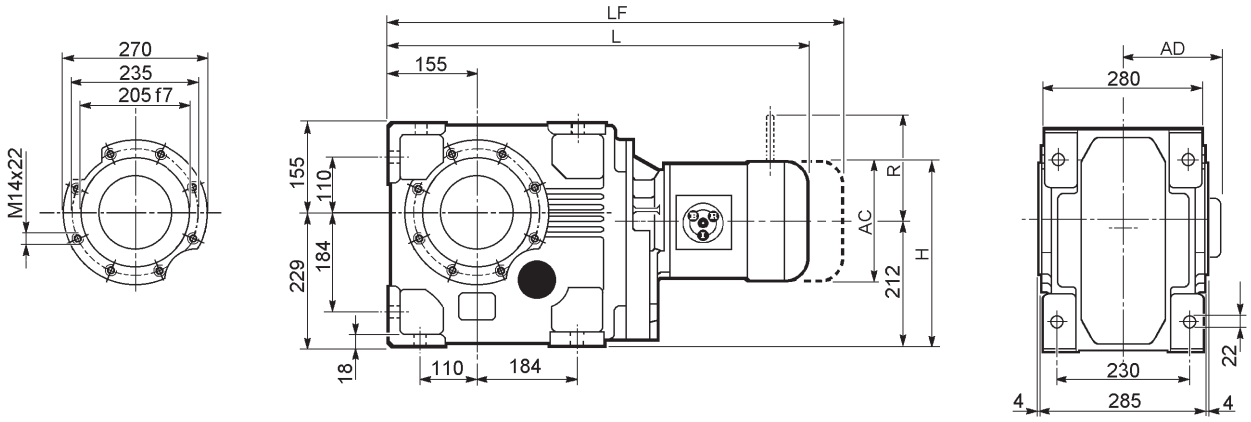
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 70 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	20.827	317
A 70 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	21.398	322
A 70 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	22.638	340
A 70 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	25.630	402
A 70 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	25.827	406
A 70 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	22.657	322
A 70 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	22.657	324
A 70 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	23.406	326
A 70 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	24.528	346

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

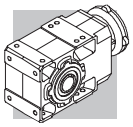


A 70...M/ME

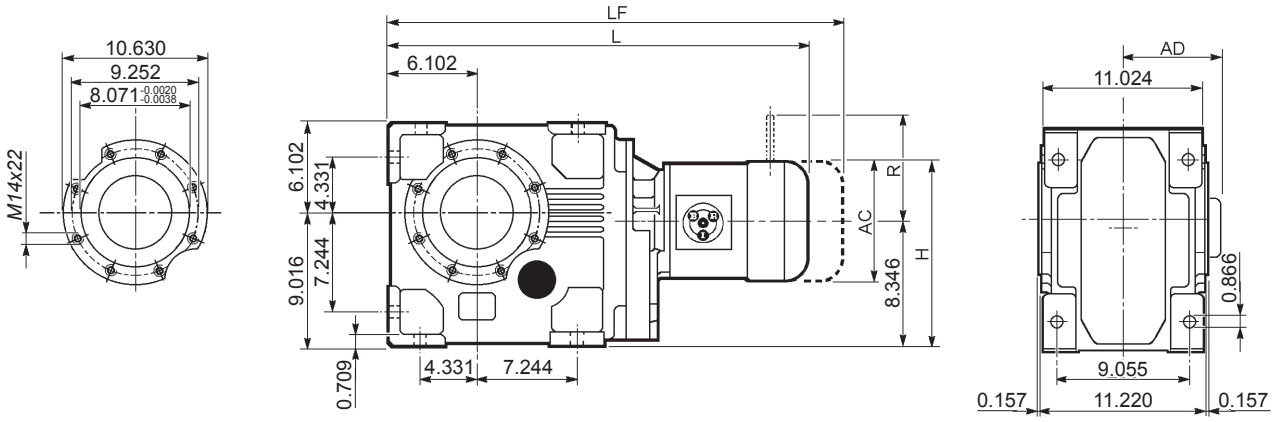


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 70 3	**S2**	**ME2S**	156	290	688.5	119	152	—	—	—	—	—	—
A 70 3	**S3**	**ME3S**	195	309.5	731.5	142	158.5	—	—	—	—	—	—
A 70 3	**S3**	**ME3L**	195	309.5	763.5	142	164	—	—	—	—	—	—
A 70 3	**S4**	**ME4**	258	341	872.5	193	198	—	—	—	—	—	—
A 70 3	**S4**	**ME4LB**	258	341	907.5	193	206	—	—	—	—	—	—
A 70 3	**S5**	**ME5S**	310	367	958	245	226	—	—	—	—	—	—
A 70 3	**S5**	**ME5L**	310	367	1002	245	242	—	—	—	—	—	—
A 70 4	**S1**	**M1**	138	281	710.5	108	152	771.5	155	103	135	124	108
A 70 4	**S2**	**ME2S**	156	290	739.5	119	156	—	—	—	—	—	—
A 70 4	**S3**	**ME3S**	195	309.5	782.5	142	162.5	—	—	—	—	—	—
A 70 4	**S3**	**ME3L**	195	309.5	814.5	142	168	—	—	—	—	—	—
A 70 4	**S4**	**ME4**	258	341	922.5	193	202	—	—	—	—	—	—
A 70 4	**S4**	**ME4LB**	258	341	957.5	193	210	—	—	—	—	—	—

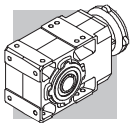


A 70...M/ME

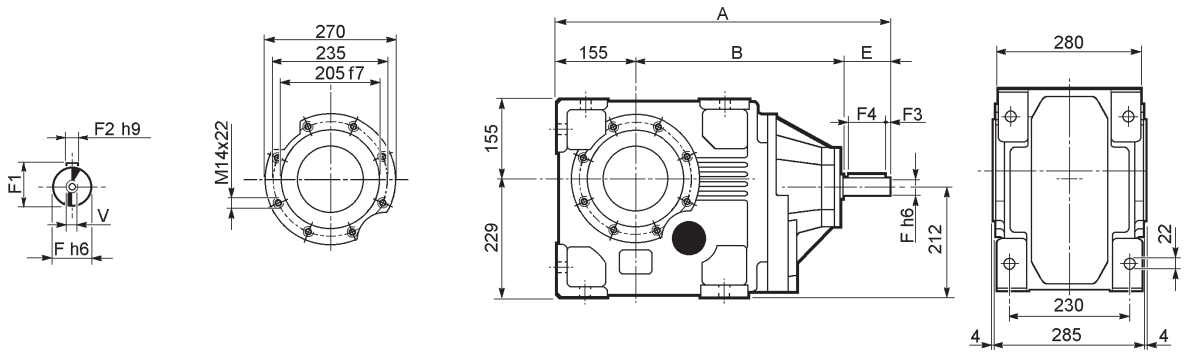


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 70 3	**S2**	**ME2S**	6.142	11.417	27.106	4.685	335	—	—	—	—	—	—
A 70 3	**S3**	**ME3S**	7.677	12.185	28.799	5.591	349	—	—	—	—	—	—
A 70 3	**S3**	**ME3L**	7.677	12.185	30.059	5.591	362	—	—	—	—	—	—
A 70 3	**S4**	**ME4**	10.157	13.425	34.350	7.598	437	—	—	—	—	—	—
A 70 3	**S4**	**ME4LB**	10.157	13.425	35.728	7.598	454	—	—	—	—	—	—
A 70 3	**S5**	**ME5S**	12.205	14.449	37.717	9.646	498	—	—	—	—	—	—
A 70 3	**S5**	**ME5L**	12.205	14.449	39.449	9.646	534	—	—	—	—	—	—
A 70 4	**S1**	**M1**	5.433	11.063	27.972	4.252	335	30.374	342	4.055	5.315	4.882	4.252
A 70 4	**S2**	**ME2S**	6.142	11.417	29.114	4.685	344	—	—	—	—	—	—
A 70 4	**S3**	**ME3S**	7.677	12.185	30.807	5.591	358	—	—	—	—	—	—
A 70 4	**S3**	**ME3L**	7.677	12.185	32.067	5.591	370	—	—	—	—	—	—
A 70 4	**S4**	**ME4**	10.157	13.425	36.319	7.598	445	—	—	—	—	—	—
A 70 4	**S4**	**ME4LB**	10.157	13.425	37.697	7.598	463	—	—	—	—	—	—



A 70...HS

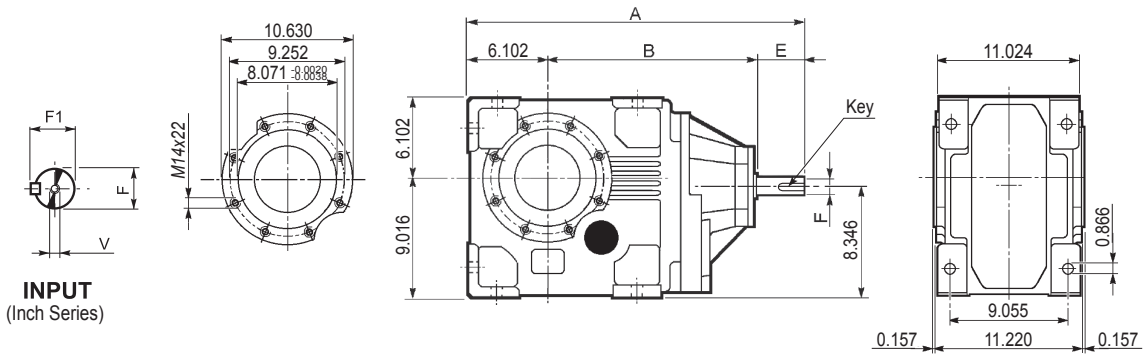


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 70 3	**HS**	708.5	443.5	110	42	45	12	10	90	M12x28	165
A 70 4		644.5	439.5	50	24	27	8	2.5	45	M8x19	149

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

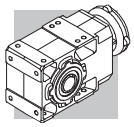
A 70...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

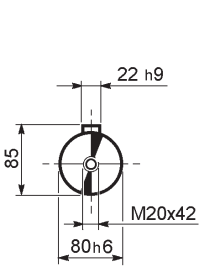
		A	B	E	F	F1	V	Key	lbs
A 70 3	**NHS**	27.813	17.461	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	364
A 70 4	**NHS**	25.374	17.303	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	328

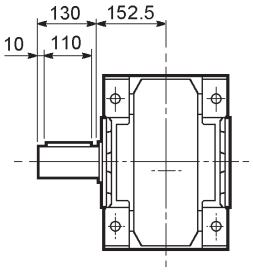
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



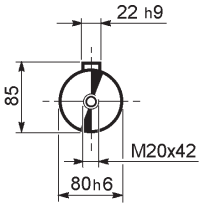
A 70

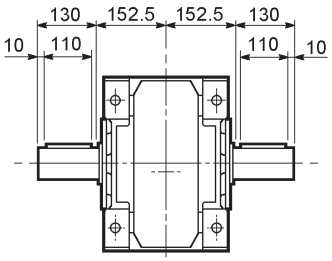
A 70...UR



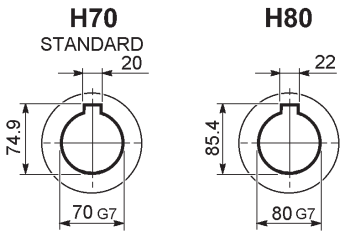


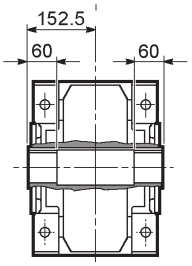
A 70...UD



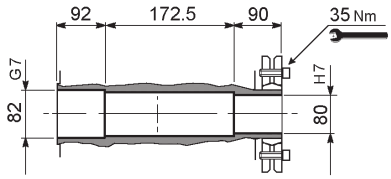


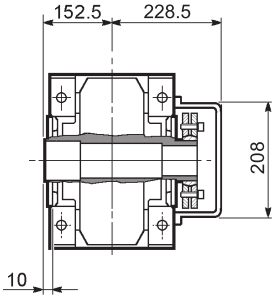
A 70...UH



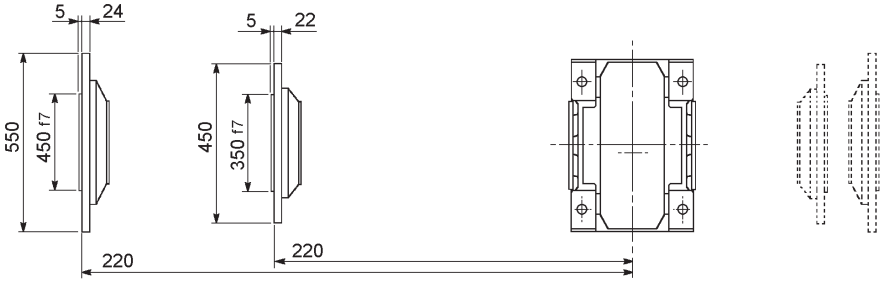


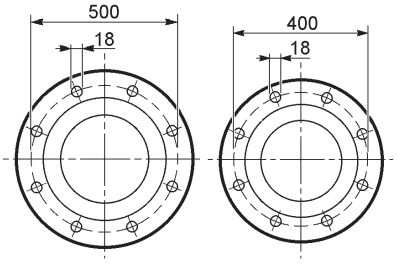
A 70...US





A 70...F...

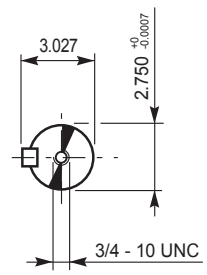


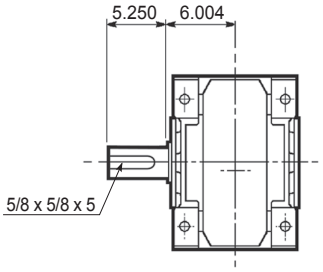


A 70

A 70...NUR

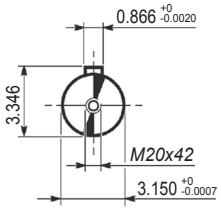
OUTPUT
(Inch Series)

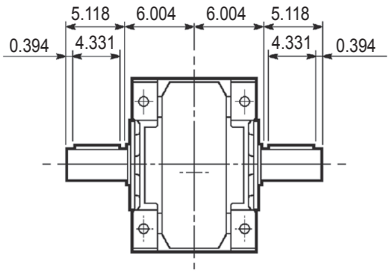




A 70...UD

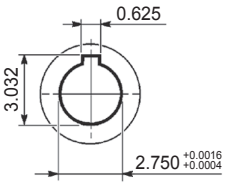
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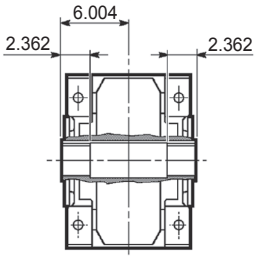




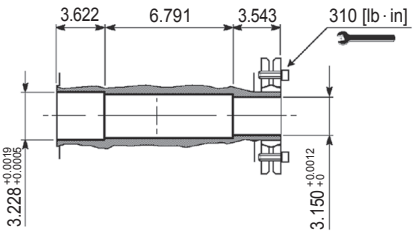
A 70...NUH

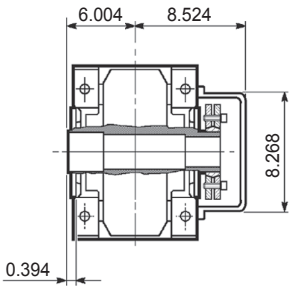
OUTPUT
(Inch Series)



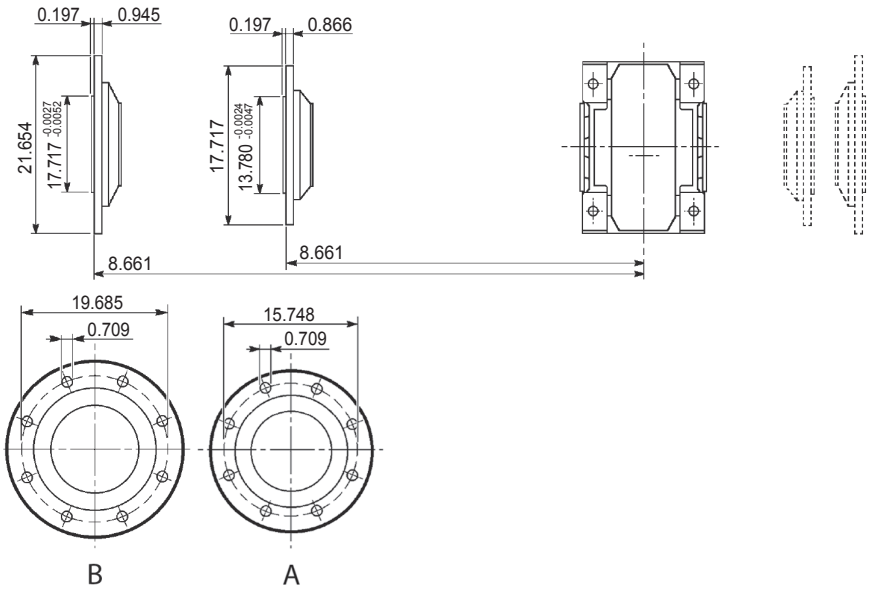


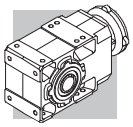
A 70...US



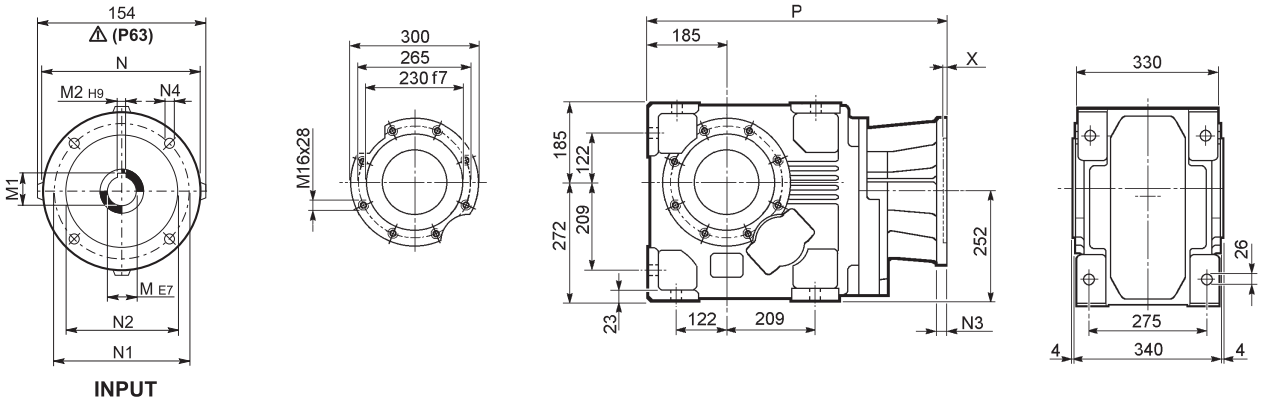


A 70...F...





A 80...P(IEC)

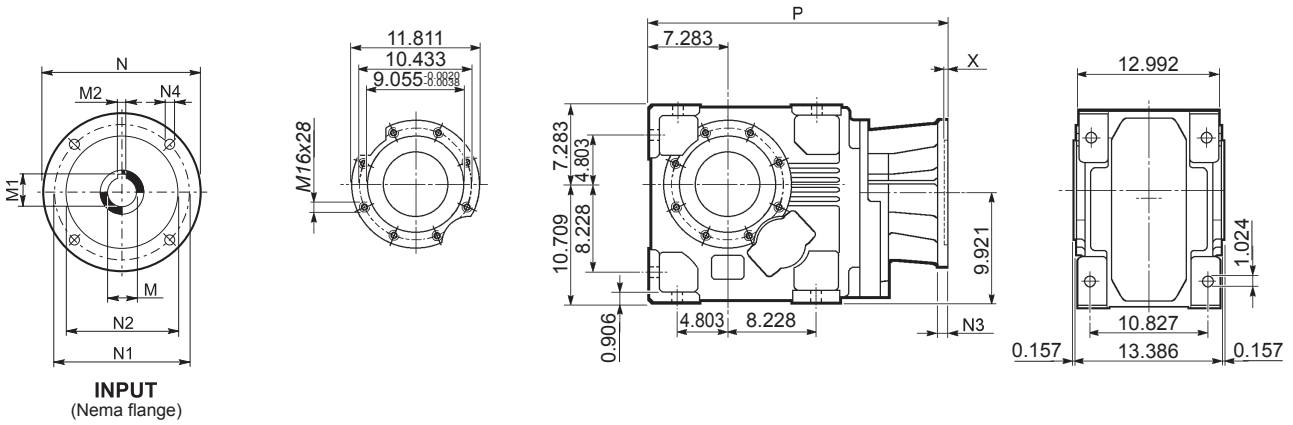


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 80 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	602	243
A 80 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	602	243
A 80 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	**P132**	38	41.3	10	300	265	230	16	14	5	648.5	253
A 80 3	**P160**	42	45.3	12	350	300	250	23	18	6	704	268
A 80 3	**P180**	48	51.8	14	350	300	250	23	18	6	704	268
A 80 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	729	279
A 80 3	**P225**	60	64.4	18	450	400	350	25	18	6	774.5	298
A 80 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	645.5	248
A 80 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	645.5	248
A 80 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	665	249
A 80 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	665	249
A 80 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	**P132**	38	41.3	10	300	265	230	16	M12x16	5	711.5	259

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

A 80...N(NEMA Input)

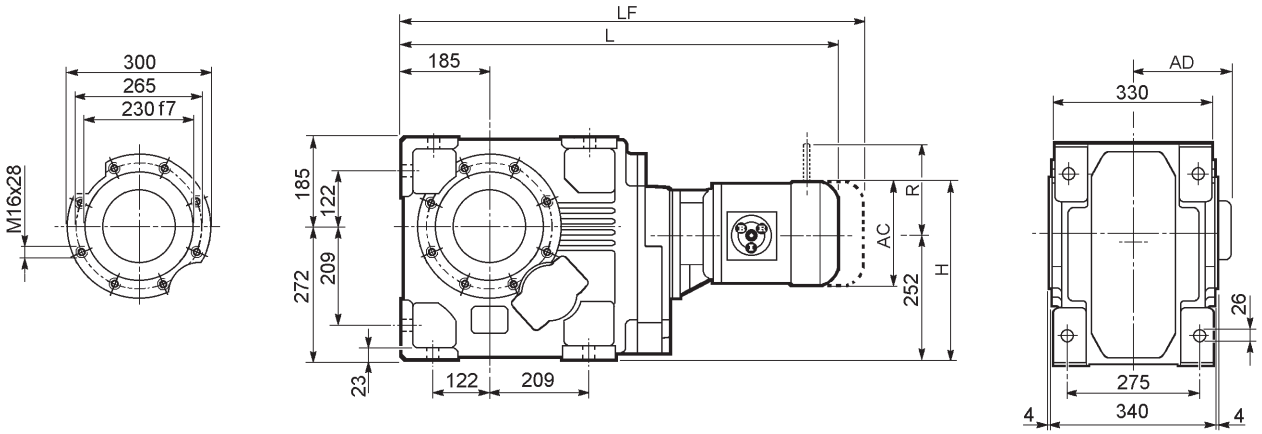


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 80 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	24.469	540
A 80 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	25.709	558
A 80 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	28.701	621
A 80 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	28.898	624
A 80 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	31.752	723
A 80 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	26.201	547
A 80 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	26.201	549
A 80 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	26.949	551
A 80 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	28.189	571

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

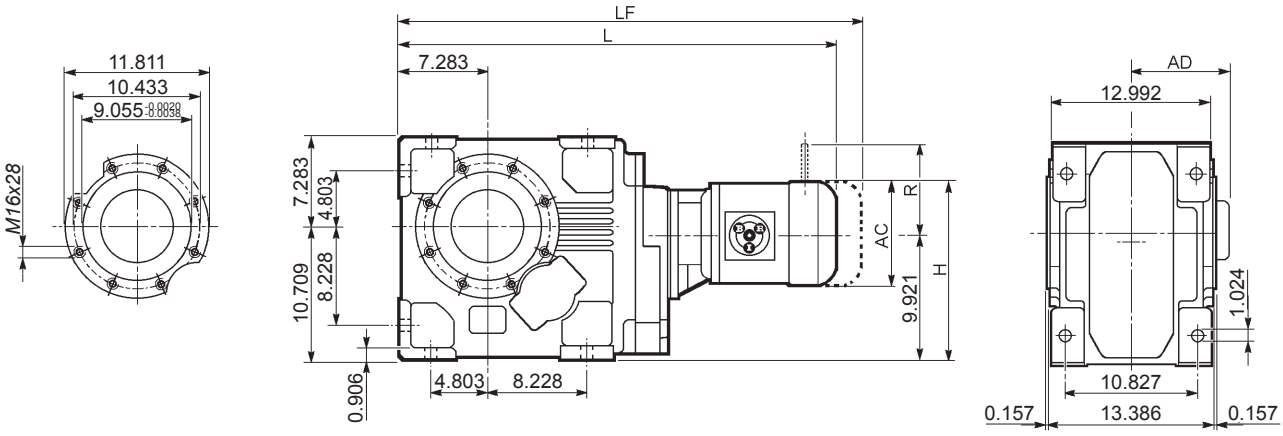
A 80...M/ME



Dimensões em mm

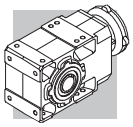
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 80 3	**S3**	**ME3S**	195	349.5	809.5	142	257.5	—	—	—	—	—	—
A 80 3	**S3**	**ME3L**	195	349.5	841.5	142	264	—	—	—	—	—	—
A 80 3	**S4**	**ME4**	258	381	949.5	193	298	—	—	—	—	—	—
A 80 3	**S4**	**ME4LB**	258	381	984.5	193	306	—	—	—	—	—	—
A 80 3	**S5**	**ME5S**	310	407	1036	245	326	—	—	—	—	—	—
A 80 3	**S5**	**ME5L**	310	407	1080	245	342	—	—	—	—	—	—
A 80 4	**S1**	**M1**	138	321	800.5	108	246	861.5	249	103	135	124	108
A 80 4	**S2**	**M2S**	156	330	829.5	119	250	899.5	254	129	146	134	119
A 80 4	**S2**	**ME2S**	156	330	829.5	119	250	—	—	—	—	—	—
A 80 4	**S3**	**ME3S**	195	349.5	872.5	142	256.5	—	—	—	—	—	—
A 80 4	**S3**	**ME3L**	195	349.5	904.5	142	262	—	—	—	—	—	—
A 80 4	**S4**	**ME4**	258	381	1012.5	193	296	—	—	—	—	—	—
A 80 4	**S4**	**ME4LB**	258	381	1047.5	193	304	—	—	—	—	—	—

A 80...M/ME

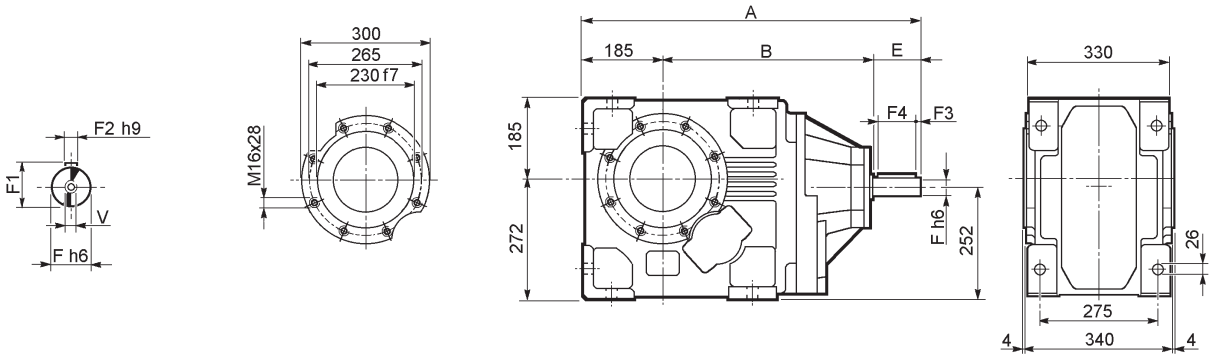


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 80 3	**S3**	**ME3S**	7.677	13.760	31.870	5.591	568	—	—	—	—	—	—
A 80 3	**S3**	**ME3L**	7.677	13.760	33.130	5.591	582	—	—	—	—	—	—
A 80 3	**S4**	**ME4**	10.157	15.000	37.382	7.598	657	—	—	—	—	—	—
A 80 3	**S4**	**ME4LB**	10.157	15.000	38.760	7.598	675	—	—	—	—	—	—
A 80 3	**S5**	**ME5S**	12.205	16.024	40.787	9.646	719	—	—	—	—	—	—
A 80 3	**S5**	**ME5L**	12.205	16.024	42.520	9.646	754	—	—	—	—	—	—
A 80 4	**S1**	**M1**	5.433	12.638	31.516	4.252	542	33.917	549	4.055	5.315	4.882	4.252
A 80 4	**S2**	**M2S**	6.142	12.992	32.657	4.685	551	35.413	560	5.079	5.748	5.276	4.685
A 80 4	**S2**	**ME2S**	6.142	12.992	32.657	4.685	551	—	—	—	—	—	—
A 80 4	**S3**	**ME3S**	7.677	13.760	34.350	5.591	565	—	—	—	—	—	—
A 80 4	**S3**	**ME3L**	7.677	13.760	35.610	5.591	578	—	—	—	—	—	—
A 80 4	**S4**	**ME4**	10.157	15.000	39.862	7.598	653	—	—	—	—	—	—
A 80 4	**S4**	**ME4LB**	10.157	15.000	41.240	7.598	670	—	—	—	—	—	—



A 80...HS

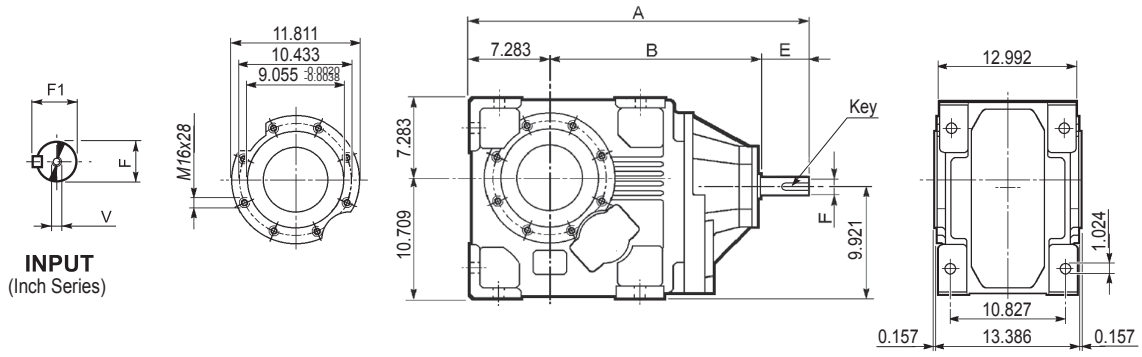


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 80 3	**HS**	786.5	491.5	110	42	45	12	10	90	M12x28	265
A 80 4		735	500	50	24	27	8	2.5	45	M8x19	250

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

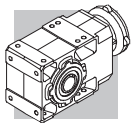
A 80...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

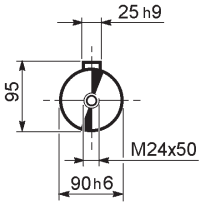
		A	B	E	F	F1	V	Key	lbs
A 80 3	**NHS**	30.884	19.350	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	584
A 80 4	**NHS**	28.937	19.685	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	551

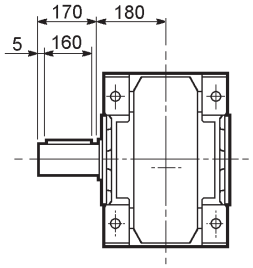
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



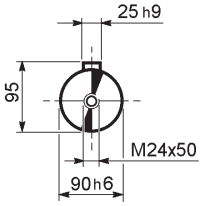
A 80

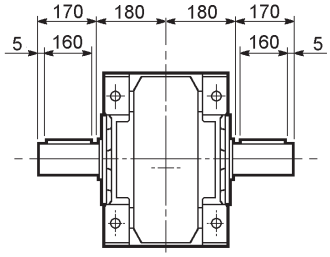
A 80...UR



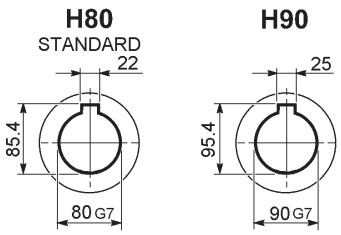


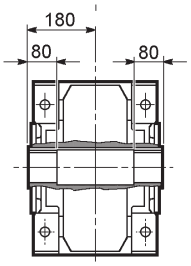
A 80...UD



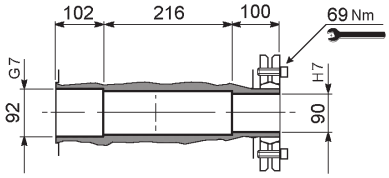


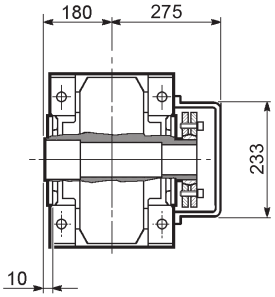
A 80...UH



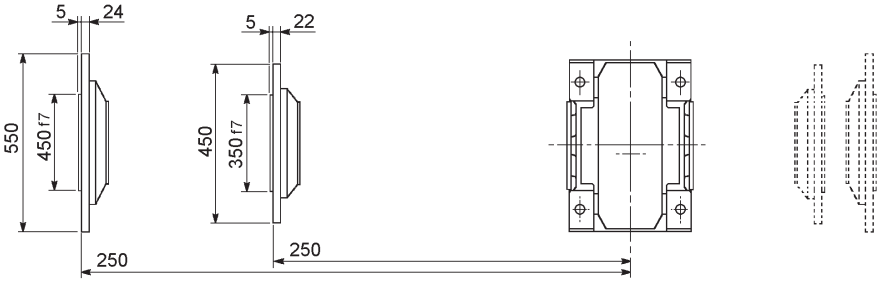


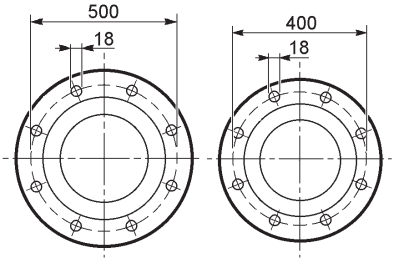
A 80...US





A 80...F...

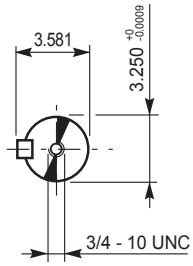


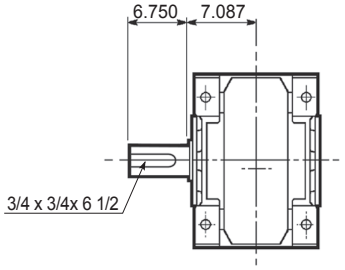


A 80

A 80...NUR

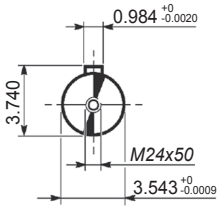
OUTPUT
(Inch Series)

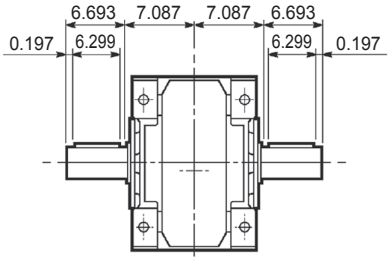




A 80...UD

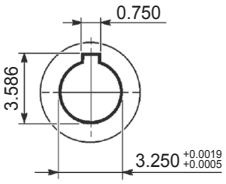
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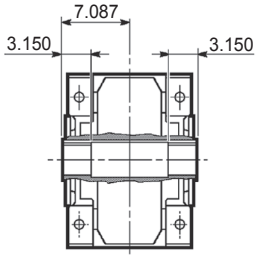




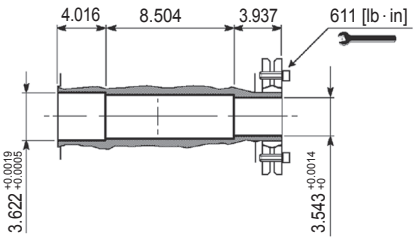
A 80...NUH

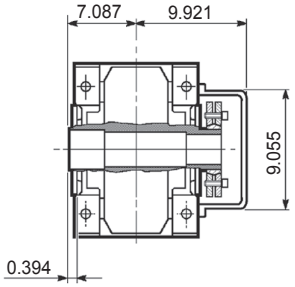
OUTPUT
(Inch Series)



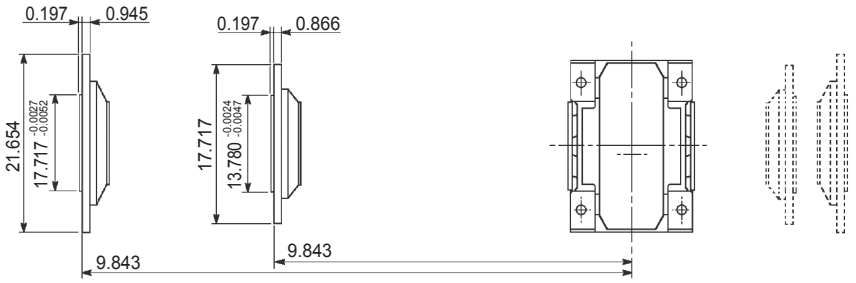


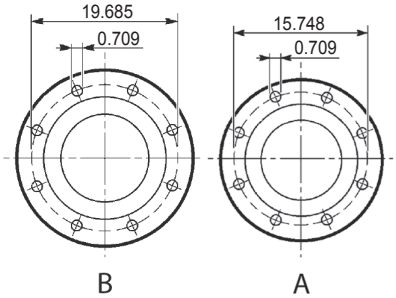
A 80...US

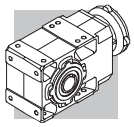




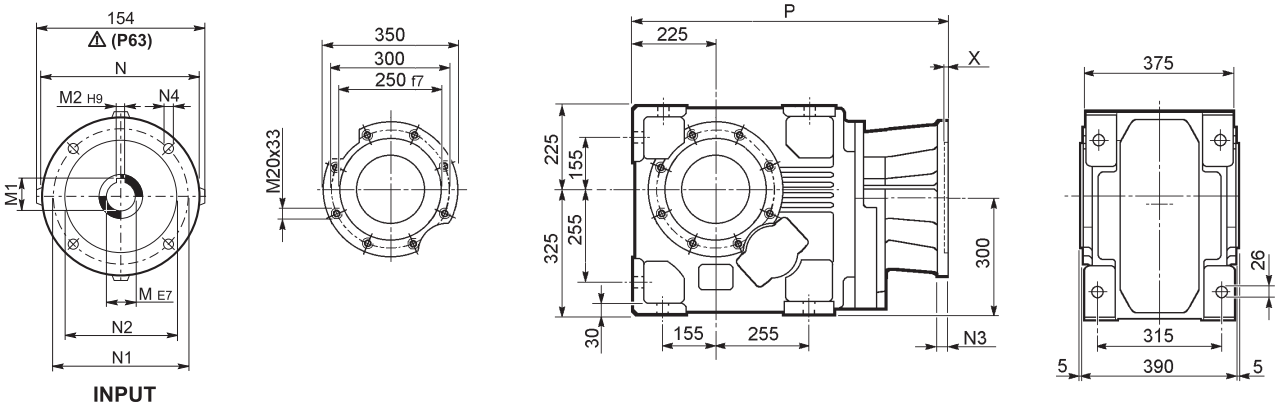
A 80...F...







A 90...P (IEC)

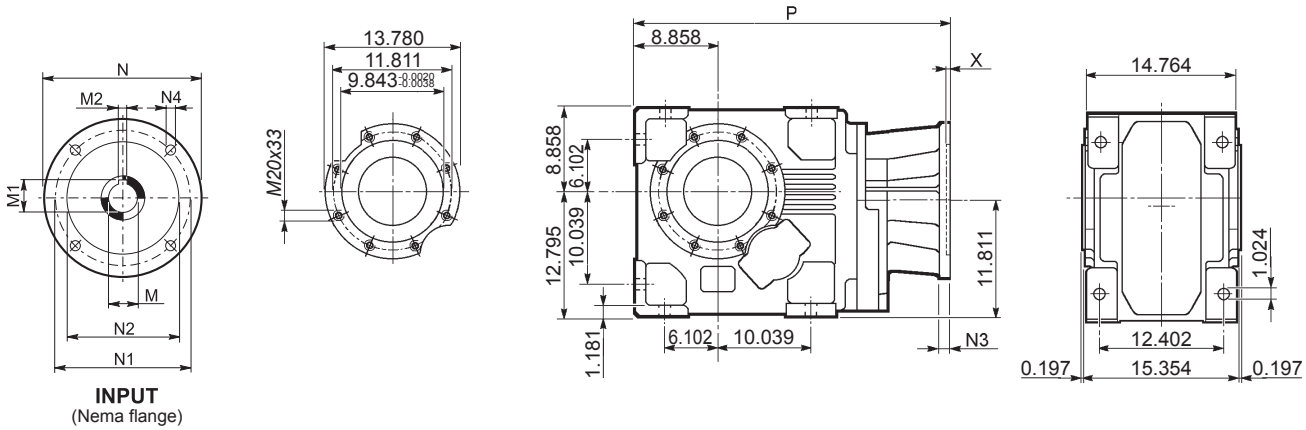


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 90 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	723	400
A 90 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	723	400
A 90 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	**P132**	38	41.3	10	300	265	230	16	14	5	769.5	409
A 90 3	**P160**	42	45.3	12	350	300	250	23	18	6	825	428
A 90 3	**P180**	48	51.8	14	350	300	250	23	18	6	825	429
A 90 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	850	436
A 90 3	**P225**	60	64.4	18	450	400	350	30	18	6	895.5	472
A 90 3	**P250**	65	69.4	18	550	500	450	30	18	6	925.5	475
A 90 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	786.5	411
A 90 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	786.5	412
A 90 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	806	413
A 90 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	806	413
A 90 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	**P132**	38	41.3	10	300	265	230	16	14	5	852.5	423
A 90 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	903	434
A 90 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	903	434

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

A 90...N(NEMA Input)



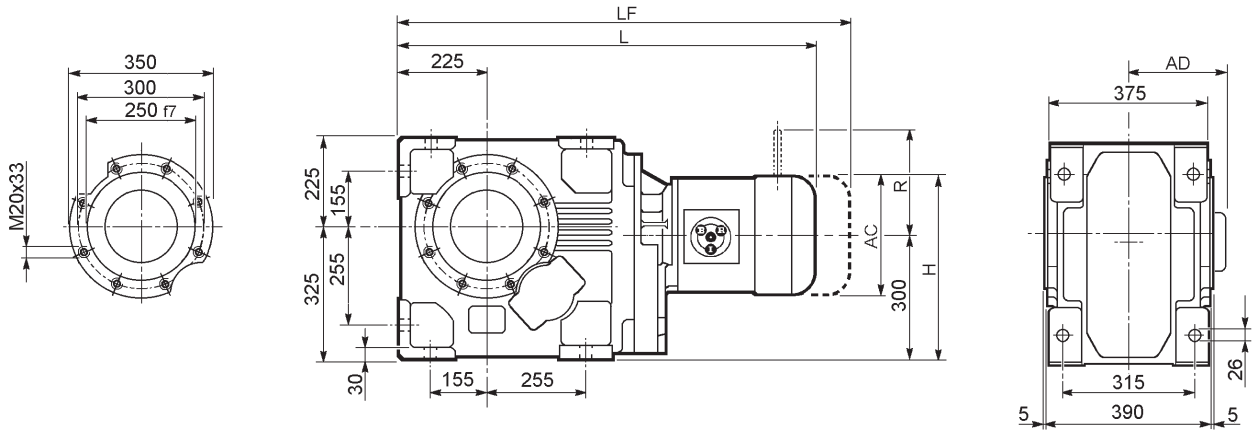
INPUT
(Nema flange)

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
A 90 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	29.232	884
A 90 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	30.472	902
A 90 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	33.465	973
A 90 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	33.661	977
A 90 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0.0017 +0	17.677	11.000	12.500	—	0.669	0.217	36.516	1107
A 90 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	31.752	908
A 90 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0.0012 +0	6.496	5.875	4.500	0.472	0.394	0.197	31.752	910
A 90 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0.0014 +0	8.996	7.250	8.500	0.630	0.551	0.217	32.500	915
A 90 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0.0014 +0	8.996	7.250	8.500	0.531	0.531	0.217	33.740	933
A 90 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0.0014 +0	13.780	7.250	8.500	—	0.551	0.217	36.535	987
A 90 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0.0017 +0	13.740	10.500	9.000	—	0.551	0.217	36.732	990

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

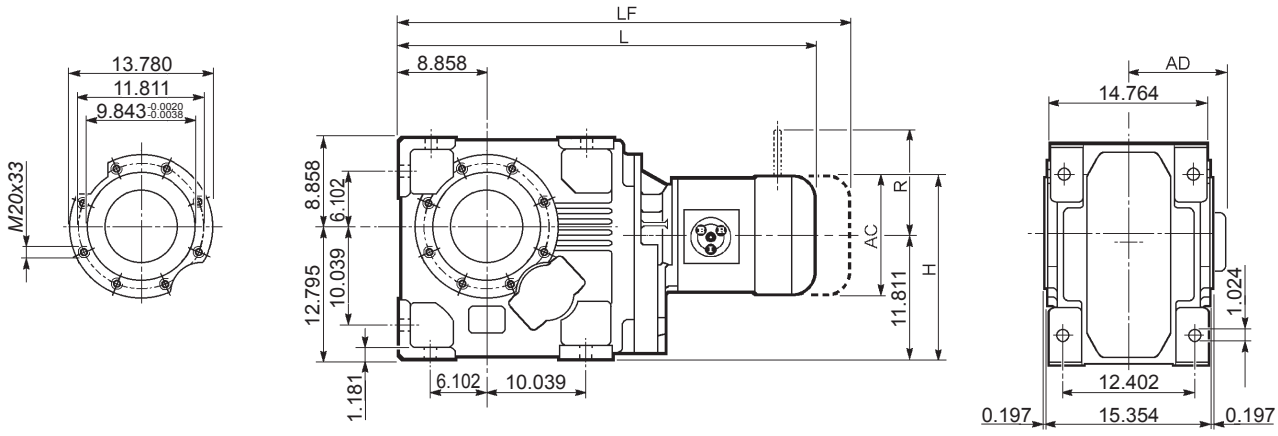
A 90...M/ME



Dimensões em mm

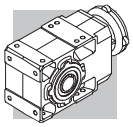
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
A 90 3	**S3**	**ME3S**	195	397.5	930.5	142	414.5	—	—	—	—	—	—
A 90 3	**S3**	**ME3L**	195	397.5	962.5	142	420	—	—	—	—	—	—
A 90 3	**S4**	**ME4**	258	429	1070.5	193	454	—	—	—	—	—	—
A 90 3	**S4**	**ME4LB**	258	429	1105.5	193	462	—	—	—	—	—	—
A 90 3	**S5**	**ME5S**	310	455	1157	245	482	—	—	—	—	—	—
A 90 3	**S5**	**ME5L**	310	455	1201	245	498	—	—	—	—	—	—
A 90 4	**S1**	**M1**	138	369	941.5	108	412	1002.5	249	103	135	124	108
A 90 4	**S2**	**M2S**	156	378	970.5	119	422	1040.5	426	129	146	134	119
A 90 4	**S2**	**ME2S**	156	378	970.5	119	422	—	—	—	—	—	—
A 90 4	**S3**	**ME3S**	195	397.5	1013.5	142	428.5	—	—	—	—	—	—
A 90 4	**S3**	**ME3L**	195	397.5	1045.5	142	434	—	—	—	—	—	—
A 90 4	**S4**	**ME4**	258	429	1153.5	193	468	—	—	—	—	—	—
A 90 4	**S4**	**ME4LB**	258	429	1188.5	193	476	—	—	—	—	—	—

A 90...M/ME

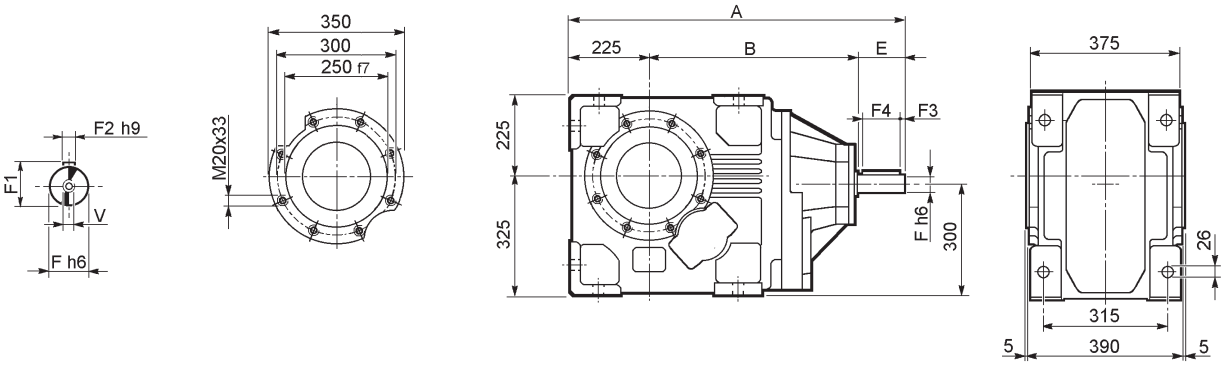


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
A 90 3	**S3**	**ME3S**	7.677	15.650	36.634	5.591	914	—	—	—	—	—	—
A 90 3	**S3**	**ME3L**	7.677	15.650	37.894	5.591	926	—	—	—	—	—	—
A 90 3	**S4**	**ME4**	10.157	16.890	42.146	7.598	1001	—	—	—	—	—	—
A 90 3	**S4**	**ME4LB**	10.157	16.890	43.524	7.598	1019	—	—	—	—	—	—
A 90 3	**S5**	**ME5S**	12.205	17.913	45.551	9.646	1063	—	—	—	—	—	—
A 90 3	**S5**	**ME5L**	12.205	17.913	47.283	9.646	1098	—	—	—	—	—	—
A 90 4	**S1**	**M1**	5.433	14.528	37.067	4.252	908	39.469	549	4.055	5.315	4.882	4.252
A 90 4	**S2**	**M2S**	6.142	14.882	38.209	4.685	930	40.965	939	5.079	5.748	5.276	4.685
A 90 4	**S2**	**ME2S**	6.142	14.882	38.209	4.685	930	—	—	—	—	—	—
A 90 4	**S3**	**ME3S**	7.677	15.650	39.902	5.591	945	—	—	—	—	—	—
A 90 4	**S3**	**ME3L**	7.677	15.650	41.161	5.591	957	—	—	—	—	—	—
A 90 4	**S4**	**ME4**	10.157	16.890	45.413	7.598	1032	—	—	—	—	—	—
A 90 4	**S4**	**ME4LB**	10.157	16.890	46.791	7.598	1049	—	—	—	—	—	—



A 90...HS

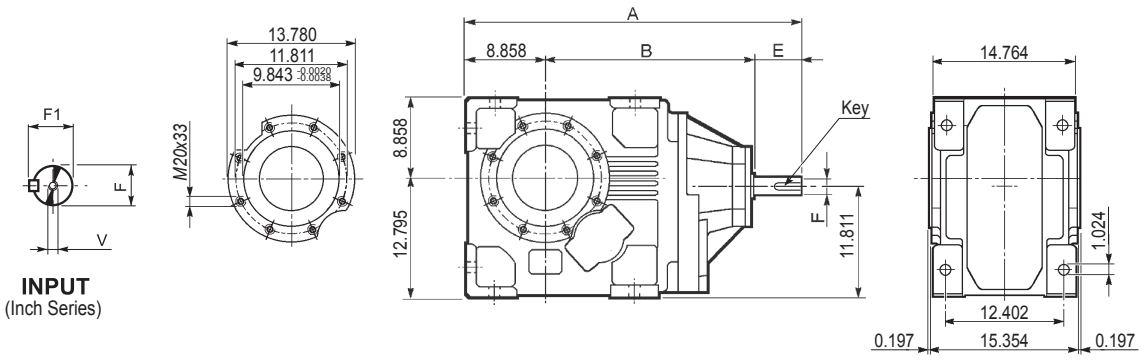


Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
A 90 3	**HS**	1009	644	140	60	64	18	10	120	M16x36	465
A 90 4		875.5	600.5	50	24	27	8	2.5	45	M8x19	415

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

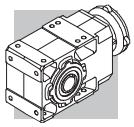
A 90...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

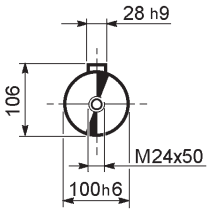
		A	B	E	F	F1	V	Key	lbs
A 90 3	**NHS**	39.213	25.354	5	2.125 $^{+0}_{-0.0006}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	1025
A 90 4	**NHS**	34.469	23.642	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	915

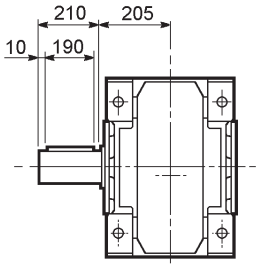
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



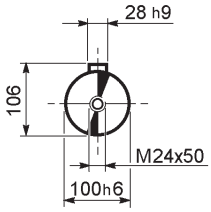
A 90

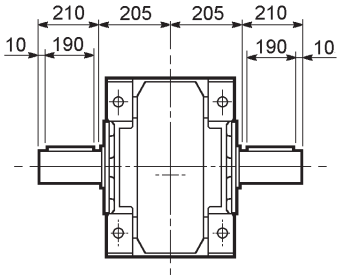
A 90...UR



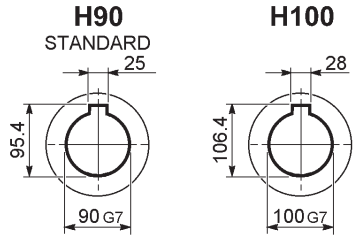


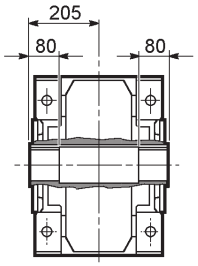
A 90...UD



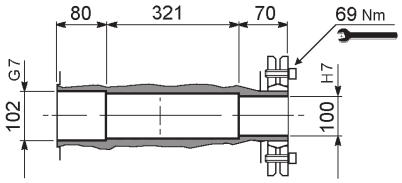


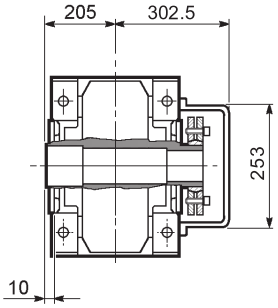
A 90...UH



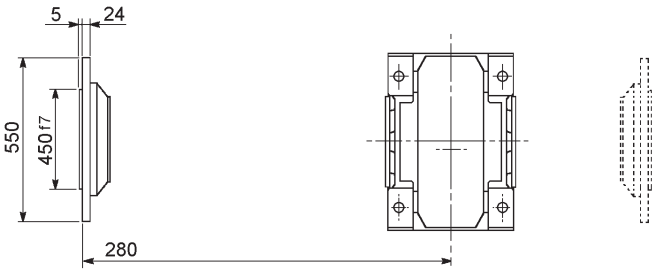


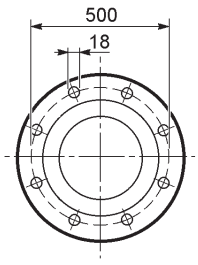
A 90...US



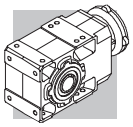


A 90...F...





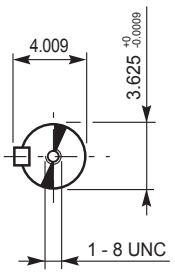
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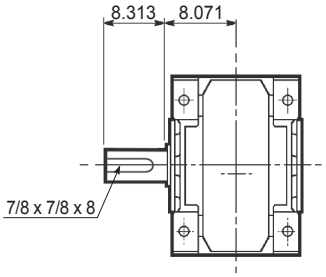


A 90

A 90...NUR

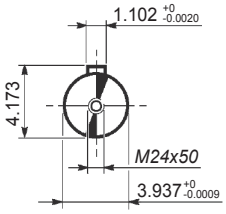
OUTPUT
(Inch Series)

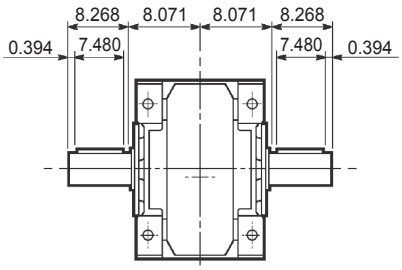




A 90...UD

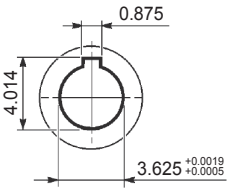
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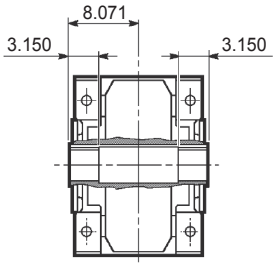




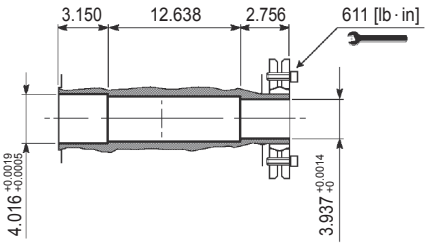
A 90...NUH

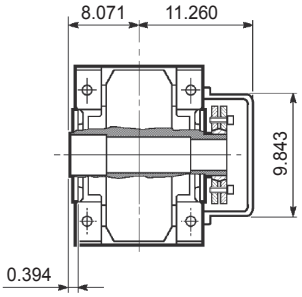
OUTPUT
(Inch Series)



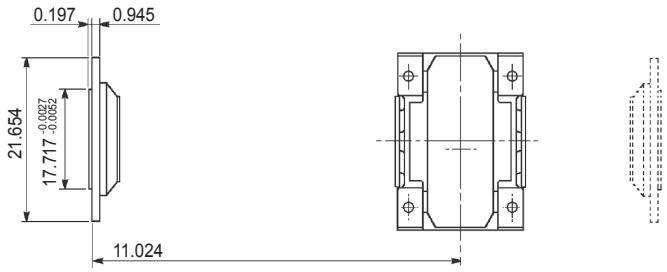


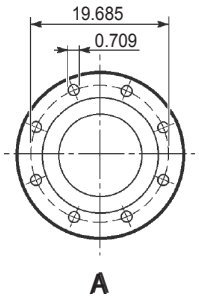
A 90...US



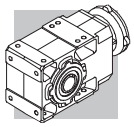


A 90...F...



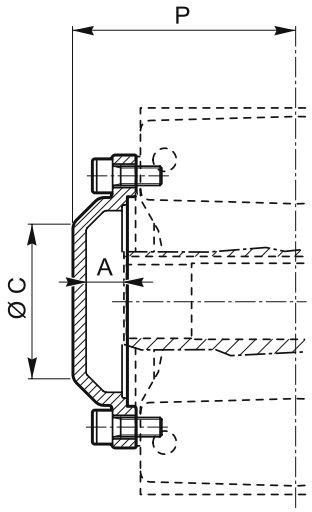


A

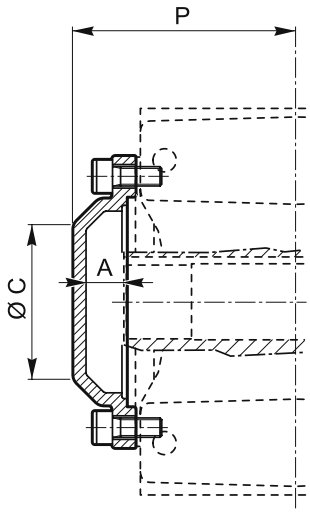


45 ACESSÓRIOS

45.1 Tampa de proteção



Dimensões em mm

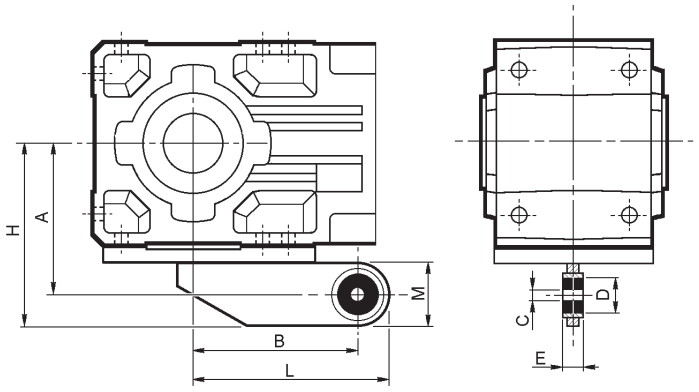


Dimensões em polegadas,
exceto quando mostra*dos em itálico [mm]*

	A	Ø C	P
A 05	0.689	1.417	2.894
A 10	0.807	2.362	3.327
A 20	0.787	2.953	3.701
A 30	0.787	2.953	4.094
A 35	0.768	3.150	4.488
A 41	0.827	4.331	4.724
A 50	1.024	3.937	5.846
A 55	1.063	3.937	5.866
A 60	0.984	3.937	6.220
A 70	1.319	4.724	7.618
A 80	1.496	5.512	8.976
A 90	1.693	5.984	10.157

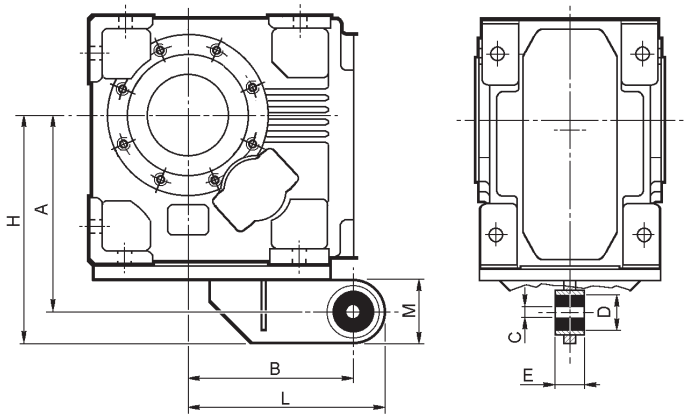
45.2 Braço de torque

O braço de torque vem completo com parafusos de fixação.



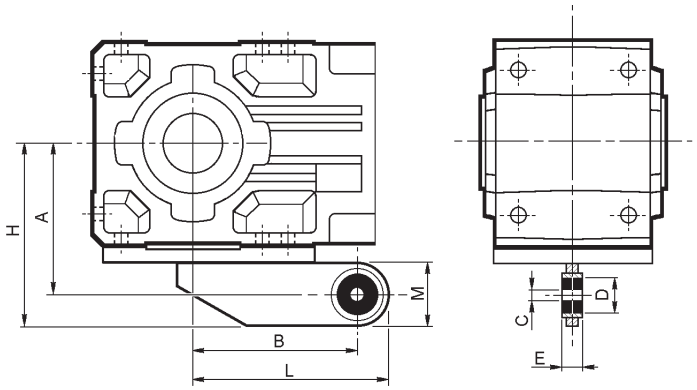
Dimensões em mm

	A	Ø C	P
A 05	17.5	36	73.5
A 10	20.5	60	84.5
A 20	20	75	94
A 30	20	75	104
A 35	19.5	80	114
A 41	21	110	120
A 50	26	100	148.5
A 55	27	100	149
A 60	25	100	158
A 70	33.5	120	193.5
A 80	38	140	228
A 90	43	152	258



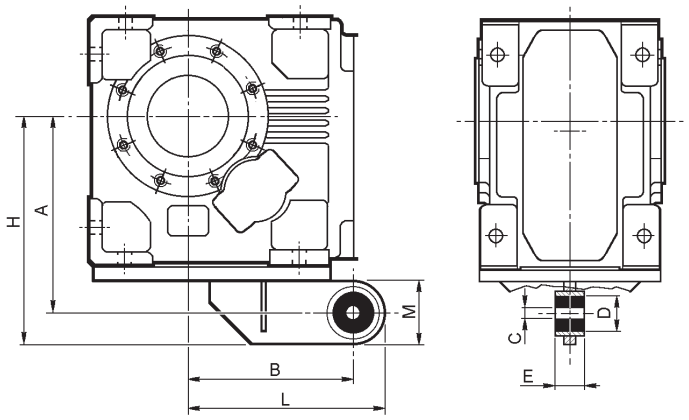
Dimensões em mm

	A	B	C	D	E	H	L	M
A 05	90.5	80	10	30	20	115.5	105	50
A 10	108	118	10	30	20	138	148	60
A 20	118	137	10	30	20	148	167	60



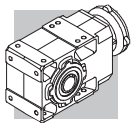
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	A	B	C	D	E	H	L	M
A 05	3.563	3.150	0.394	1.181	0.787	4.547	4.134	1.969
A 10	4.252	4.646	0.394	1.181	0.787	5.433	5.827	2.362
A 20	4.646	5.394	0.394	1.181	0.787	5.827	6.575	2.362
A 30	5.315	5.906	0.787	1.575	0.984	6.693	7.283	2.756
A 35	5.709	6.496	0.787	1.575	0.984	7.087	7.874	2.756
A 41	6.181	7.874	0.787	1.575	0.984	7.559	9.252	2.756
A 50	7.874	9.843	1.260	2.205	1.575	9.646	11.614	3.543
A 55	7.874	9.843	1.260	2.205	1.575	9.646	11.614	3.543
A 60	8.858	11.811	1.260	2.205	1.575	10.630	13.583	3.543



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	A	B	C	D	E	H	L	M
A 70	11.378	9.843	1.260	2.205	1.575	13.150	11.614	3.543
A 80	14.055	11.811	1.654	3.071	2.362	16.614	14.370	5.118
A 90	16.142	13.780	1.654	3.071	2.362	18.701	16.339	5.118

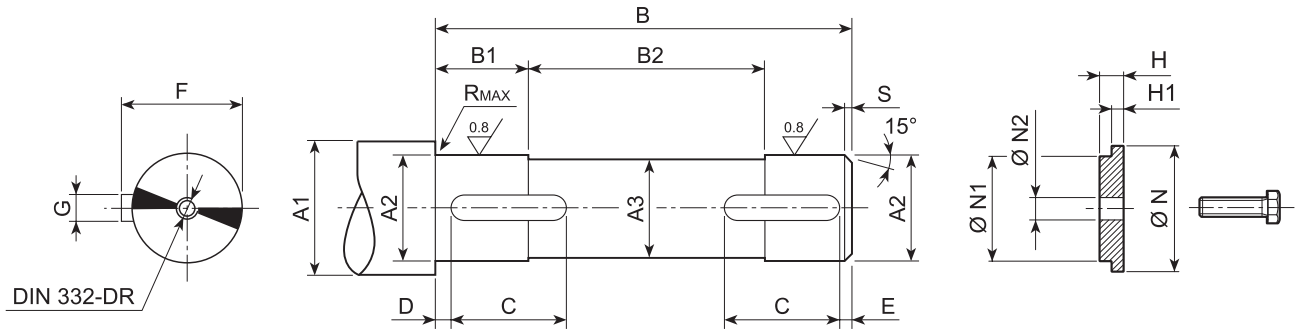


46 EIXO DO CLIENTE

Fabricar o eixo motriz a ser acoplado no eixo de saída do redutor com aço de boa qualidade, respeitando as dimensões informadas na tabela.

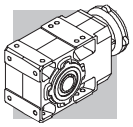
Um dispositivo, como o ilustrado na figura abaixo, também deverá ser instalado para fixar o eixo axialmente. Tomar o cuidado de verificar e dimensionar os diversos componentes para adequá-los às necessidades da aplicação.

UH_

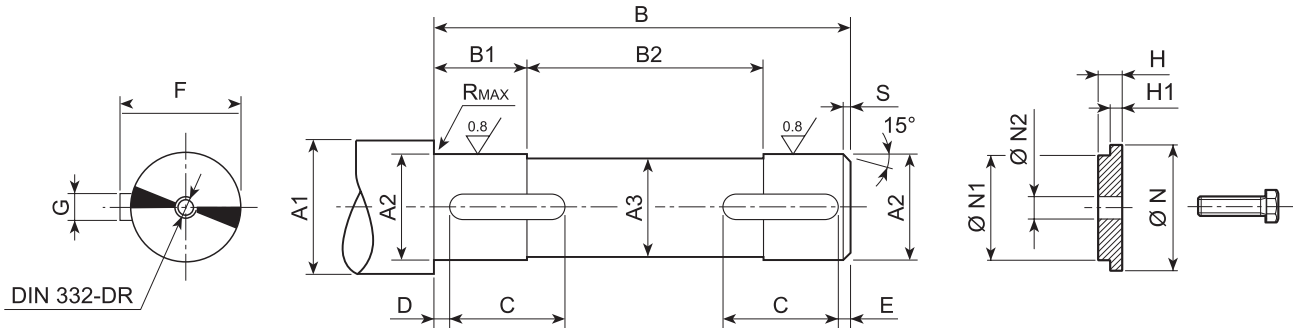


Dimensões em mm

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	N	N1	N2	H	H1	UNI 5739
A05 UH25	≥ 30	25 h7	24	102	21	62	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	35	25 d9	9	7	5.5	M8x25
A10 UH30	≥ 35	30 h7	29	118	16	87	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	35	30 d9	11	8.5	7	M10x30
A10 UH25	≥ 30	25 h7	24	118	16	87	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	30÷35	25 d9	9	7	5.5	M8x25
A20 UH35	≥ 42	35 h7	34	138	20	98	20	2	2	38	10 h9	0.5	1.5	10x8x20 A	42	35 d9	11	8.5	7	M10x30
A20 UH30	≥ 35	30 h7	29	138	20	98	25	2	2	33	8 h9	0.5	1.5	8x7x25 A	35÷42	30 d9	11	8.5	7	M10x30
A30 UH40	≥ 47	40 h7	39	158	23	112	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	47	40 d9	14	8.5	7	M12x35
A30 UH35	≥ 42	35 h7	34	158	23	112	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	42÷47	35 d9	11	8.5	7	M10x30
A35 UH40	≥ 47	40 h7	39	175	33	109	40	2	2	43	12 h9	1	1.5	12x8x40 A	47	40 d9	14	8.5	7	M12x35
A35 UH35	≥ 42	35 h7	34	175	33	109	40	2	2	38	10 h9	1	1.5	10x8x40 A	42÷47	35 d9	11	8.5	7	M10x30
A41 UH45	≥ 52	45 h7	44	184	28	128	45	2.5	2.5	48.5	14 h9	1	2	14x9x45 A	52	45 d9	14	8.5	7	M12x35
A41 UH40	≥ 47	40 h7	39	184	28	128	50	2.5	2.5	43	12 h9	1	2	12x8x50 A	47÷52	40 d9	14	8.5	7	M12x35
A50 UH55	≥ 63	55 h7	54	226	37.5	151	55	2.5	2.5	59	16 h9	1	2	16x10x55 A	63	55 d9	22	10	8	M20x50
A50 UH50	≥ 57	50 h7	49	226	37.5	151	65	2.5	2.5	53.5	14 h9	1	2	14x9x65 A	57÷63	50 d9	18	10	8	M16x45
A55 UH60	≥ 70	60 h7	59	226	37.5	151	65	2.5	2.5	64	18 h9	2	2	18x11x65 A	70	60 d9	22	10	8	M20x50
A55 UH50	≥ 60	50 h7	49	226	37.5	151	75	2.5	2.5	53.5	14 h9	2	2	14x9x75 A	60÷70	50 d9	18	10	8	M16x45
A60 UH70	≥ 78	70 h7	69	248	48	152	70	2.5	2.5	74.5	20 h9	2.5	2	20x12x70 A	78	70 d9	22	10	8.5	M20x50
A60 UH60	≥ 68	60 h7	59	248	48	152	80	2.5	2.5	64	18 h9	2.5	2	18x11x80 A	68÷78	60 d9	22	10	8.5	M20x50
A70 UH80	v89	80 h7	79	303	58	187	90	3	3	85	22 h9	2.5	2.5	22x14x90 A	89	80 d9	22	10	8.5	M20x50
A70 UH70	≥ 78	70 h7	69	303	58	187	110	3	3	74.5	20 h9	2.5	2.5	20x12x110 A	78÷89	70 d9	22	10	8.5	M20x50
A80 UH90	≥ 99	90 h7	89	358	78	202	120	3	3	95	25 h9	2.5	2.5	25x14x120 A	99	90 d9	26	22	20.5	M24x70
A80 UH80	≥ 89	80 h7	79	358	78	202	130	3	3	85	22 h9	2.5	2.5	22x14x130 A	89÷99	80 d9	22	10	8.5	M20x50
A90 UH100	≥ 111	100 h7	99	408	78	252	160	3	3	106	28 h9	2.5	2.5	28x16x160 A	111	100 d9	26	22	20.5	M24x70
A90 UH90	≥ 99	90 h7	89	408	78	252	190	3	3	95	25 h9	2.5	2.5	25x14x190 A	99÷111	90 d9	26	22	20.5	M24x70

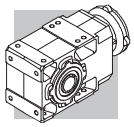


NUH_

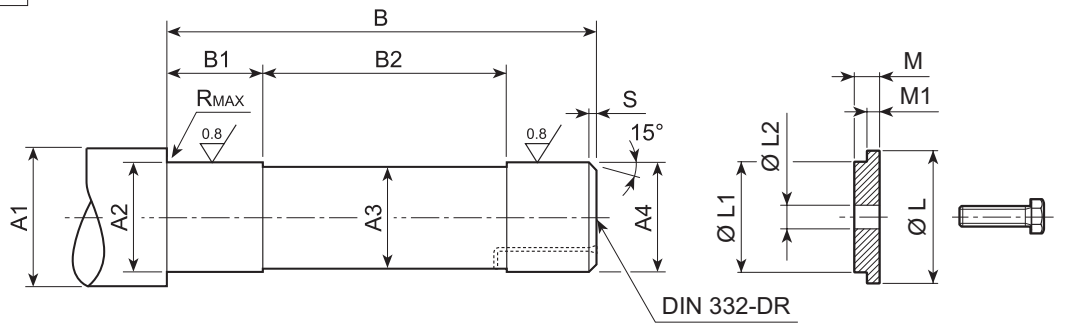


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	Key	N	N1	N2	H	H1	UNI 5739
A05	≥ 1.20	$0.961^{+0}_{-0.0008}$	4.016	0.827	2.441	0.875	0.079	0.079	1.109	0.250	$0.250^{+0}_{-0.0014}$	0.020	0.059	1/4 x 1/4 x 7/8	1.378	$1.000^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
A10	≥ 1.20	$0.961^{+0}_{-0.0008}$	4.646	0.630	3.425	0.875	0.079	0.079	1.109	0.250	$0.250^{+0}_{-0.0014}$	0.020	0.059	1/4 x 1/4 x 7/8	1.201 ÷ 1.378	$1.000^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
A20	≥ 1.46	$1.211^{+0}_{-0.0010}$	5.433	0.787	3.858	1.000	0.079	0.079	1.362	0.250	$0.250^{+0}_{-0.0014}$	0.020	0.059	1/4 x 1/4 x 1	1.457 ÷ 1.654	$1.250^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
A30	≥ 1.65	$1.336^{+0}_{-0.0010}$	6.220	0.906	4.409	1.250	0.079	0.079	1.513	0.313	$0.313^{+0}_{-0.0014}$	0.020	0.059	5/16 x 5/16 x 1 1/4	1.654 ÷ 1.850	$1.375^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
A35	≥ 1.77	$1.461^{+0}_{-0.0010}$	6.890	1.299	4.291	2.000	0.079	0.079	1.664	0.375	$0.375^{+0}_{-0.0014}$	0.039	0.059	3/8 x 3/8 x 2	1.772 ÷ 1.850	$1.500^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
A41	≥ 1.91	$1.586^{+0}_{-0.0010}$	7.244	1.102	5.039	2.000	0.098	0.098	1.791	0.375	$0.375^{+0}_{-0.0014}$	0.039	0.079	3/8 x 3/8 x 2	1.909 ÷ 2.047	$1.625^{-0.0031}_{-0.0056}$	0.551	0.335	0.276	*M12x35*
A50	≥ 2.28	$1.961^{+0}_{-0.0012}$	8.898	1.476	5.945	2.500	0.098	0.098	2.218	0.500	$0.500^{+0}_{-0.0017}$	0.039	0.079	1/2 x 1/2 x 2 1/2	2.283 ÷ 2.480	$2.000^{-0.0039}_{-0.0069}$	0.709	0.394	0.315	*M16x45*
A55	≥ 2.56	$2.148^{+0}_{-0.0012}$	8.898	1.476	5.945	2.500	0.098	0.098	2.409	0.500	$0.500^{+0}_{-0.0017}$	0.079	0.079	1/2 x 1/2 x 2 1/2	2.559 ÷ 2.756	$2.188^{-0.0039}_{-0.0069}$	0.709	0.394	0.315	*M16x45*
A60	≥ 2.95	$2.586^{+0}_{-0.0012}$	9.764	1.890	5.984	3.000	0.098	0.098	2.900	0.625	$0.625^{+0}_{-0.0017}$	0.098	0.079	5/8 x 5/8 x 3	2.953 ÷ 3.071	$2.625^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A70	≥ 3.07	$2.711^{+0}_{-0.0012}$	11.929	2.283	7.362	3.000	0.118	0.118	3.027	0.625	$0.625^{+0}_{-0.0017}$	0.098	0.098	5/8 x 5/8 x 3	3.071 ÷ 3.504	$2.750^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A80	≥ 3.60	$3.211^{+0}_{-0.0014}$	14.094	3.071	7.953	4.156	0.118	0.118	3.581	0.750	$0.750^{+0}_{-0.0020}$	0.098	0.098	3/4 x 3/4 x 4 5/32	3.602 ÷ 3.898	$3.250^{-0.0047}_{-0.0081}$	0.866	0.394	0.335	*M20x50*
A90	≥ 3.98	$3.586^{+0}_{-0.0014}$	16.063	3.071	9.921	5.500	0.118	0.118	4.009	0.875	$0.875^{+0}_{-0.0010}$	0.098	0.098	7/8 x 7/8 x 5 1/2	3.976 ÷ 4.370	$3.625^{-0.0047}_{-0.0081}$	1.024	0.866	0.807	*M24x70*



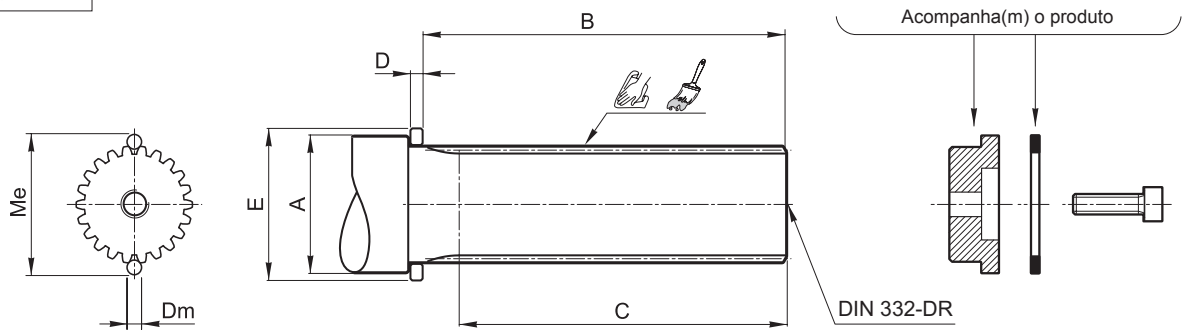
US



Dimensões em mm

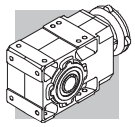
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
A 05	≥ 35	27 h7	24	25 h6	129.5	32	63.5	0.5	1.5	29.5	25 d9	11	8.5	7	M10x30
A 10	≥ 42	32 h7	29	30 h6	147.5	34	77.5	0.5	1.5	35.5	30 d9	11	8.5	7	M10x30
A 20	≥ 48	37 h7	34	35 h6	170	40	89	0.5	1.5	43	35 d9	14	8.5	7	M12x35
A 30	≥ 54	42 h7	39	40 h6	191.5	48	95.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 35	≥ 54	42 h7	39	40 h6	208.5	48	112.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 41	≥ 60	47 h7	44	45 h6	222	53	117	1	2	54	45 d9	18	10	8.5	M16x45
A 50	≥ 72	57 h7	54	55 g6	264	46	156	1	2	72	55 d9	22	10	8.5	M20x50
A 55	≥ 72	62 h7	59	60 g6	266	46	158	2.5	2	72	60 d9	22	10	8.5	M20x50
A 60	≥ 90	72 h7	69	70 g6	293	48	178	2.5	2.5	85	70 d9	22	10	8.5	M20x50
A 70	≥ 104	82 h7	79	80 g6	352.5	90	172.5	2.5	2.5	95	80 d9	22	10	8.5	M20x50
A 80	≥ 114	92 h7	89	90 g6	416	100	216	2.5	2.5	105	90 d9	26	22	20.5	M24x70
A 90	≥ 126	102 h7	99	100 g6	469	78	321	2.5	2.5	120	100 d9	26	22	20.5	M24x70

UV

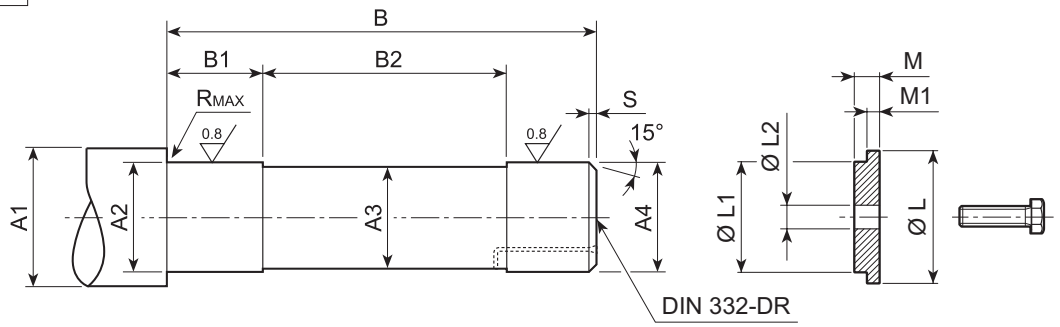


Dimensões em mm

	DIN 5480	Me	Dm	A	B	C	D	E	ISO 4762
A 20	30x1.25x22	33.04 +0/-0.04	2.75	≥ 40	111.5	≥ 95	7	45	M10x35
A 30	35x2x16	38.93 +0/-0.04	4	≥ 45	130.5	≥ 112	7	50	M12x40
A 35	35x2x16	38.93 +0/-0.04	4	≥ 45	147.5	≥ 129	7	50	M12x40
A 41	45x2x21	48.86 +0/-0.04	4	≥ 55	155.5	≥ 136	7	60	M16x45
A 50	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 55	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 60	65x2x31	68.97 +0 /-0.05	4	≥ 75	213.5	≥ 191	7	80	M20x55



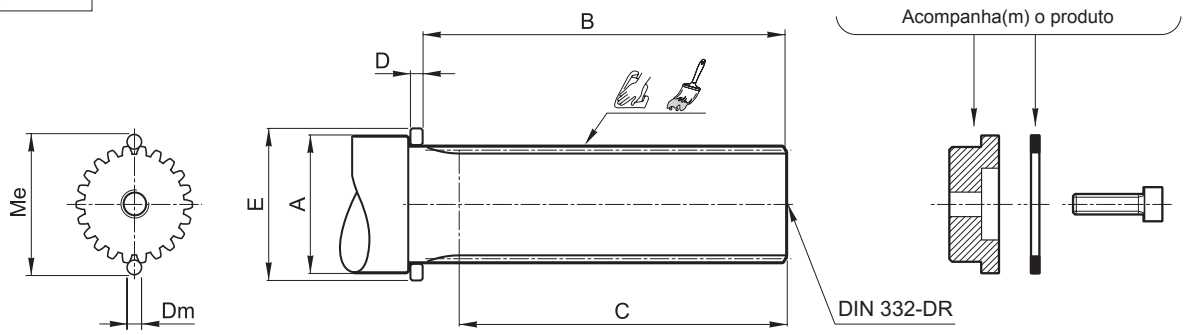
US



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

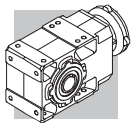
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
A 05	≥ 1.378	1.063 $^{+0}_{-0.0008}$	0.945	0.984 $^{+0}_{-0.0005}$	5.098	1.260	2.500	0.020	0.059	1.161	0.984 $^{-0.0026}_{-0.0046}$	0.433	0.335	0.276	*M10x30*
A 10	≥ 1.654	1.260 $^{+0}_{-0.0010}$	1.142	1.181 $^{+0}_{-0.0005}$	5.807	1.339	3.051	0.020	0.059	1.398	1.181 $^{-0.0026}_{-0.0046}$	0.433	0.335	0.276	*M10x30*
A 20	≥ 1.890	1.457 $^{+0}_{-0.0010}$	1.339	1.378 $^{+0}_{-0.0006}$	6.693	1.575	3.504	0.020	0.059	1.693	1.378 $^{-0.0031}_{-0.0056}$	0.551	0.335	0.276	*M12x35*
A 30	≥ 2.126	1.654 $^{+0}_{-0.0010}$	1.535	1.575 $^{+0}_{-0.0006}$	7.539	1.890	3.760	0.020	0.059	1.929	1.575 $^{-0.0031}_{-0.0056}$	0.709	0.394	0.335	*M16x45*
A 35	≥ 2.126	1.654 $^{+0}_{-0.0010}$	1.535	1.575 $^{+0}_{-0.0006}$	8.209	1.890	4.429	0.020	0.059	1.929	1.575 $^{-0.0031}_{-0.0056}$	0.709	0.394	0.335	*M16x45*
A 41	≥ 2.362	1.850 $^{+0}_{-0.0010}$	1.732	1.772 $^{+0}_{-0.0006}$	8.740	2.087	4.606	0.039	0.079	2.126	1.772 $^{-0.0031}_{-0.0056}$	0.709	0.394	0.335	*M16x45*
A 50	≥ 2.835	2.244 $^{+0}_{-0.0012}$	2.126	2.165 $^{-0.0004}_{-0.0011}$	10.394	1.811	6.142	0.039	0.079	2.835	2.165 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 55	≥ 2.835	2.441 $^{+0}_{-0.0012}$	2.323	2.362 $^{-0.0004}_{-0.0011}$	10.472	1.811	6.220	0.098	0.079	2.835	2.362 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 60	≥ 3.543	2.835 $^{+0}_{-0.0012}$	2.717	2.756 $^{-0.0004}_{-0.0011}$	11.535	1.890	7.008	0.098	0.098	3.346	2.756 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 70	≥ 4.094	3.228 $^{+0}_{-0.0014}$	3.110	3.150 $^{-0.0004}_{-0.0011}$	13.878	3.543	6.791	0.098	0.098	3.740	3.150 $^{-0.0039}_{-0.0069}$	0.866	0.394	0.335	*M20x50*
A 80	≥ 4.488	3.622 $^{+0}_{-0.0014}$	3.504	3.543 $^{-0.0005}_{-0.0013}$	16.378	3.937	8.504	0.098	0.098	4.134	3.543 $^{-0.0047}_{-0.0081}$	1.024	0.866	0.807	*M24x70*
A 90	≥ 4.961	4.016 $^{+0}_{-0.0014}$	3.898	3.937 $^{-0.0005}_{-0.0013}$	18.465	3.071	12.638	0.098	0.098	4.724	3.937 $^{-0.0047}_{-0.0081}$	1.024	0.866	0.807	*M24x70*

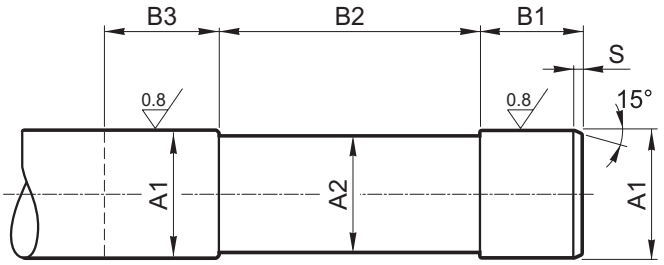
UV



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	DIN 5480	Me	Dm	A	B	C	D	E	ISO 4762
A 20	*30x1.25x22*	1.301 $^{+0}_{-0.0016}$	0.108	≥ 1.575	4.390	≥ 3.740	0.276	1.772	*M10x35*
A 30	*35x2x16*	1.533 $^{+0}_{-0.0016}$	0.157	≥ 1.772	5.138	≥ 4.409	0.276	1.969	*M12x40*
A 35	*35x2x16*	1.533 $^{+0}_{-0.0016}$	0.157	≥ 1.772	5.807	≥ 5.079	0.276	1.969	*M12x40*
A 41	*45x2x21*	1.924 $^{+0}_{-0.0016}$	0.157	≥ 2.165	6.122	≥ 5.354	0.276	2.362	*M16x45*
A 50	*50x2x24*	2.131 $^{+0}_{-0.0020}$	0.157	≥ 2.362	7.717	≥ 6.890	0.276	2.559	*M16x45*
A 55	*50x2x24*	2.131 $^{+0}_{-0.0020}$	0.157	≥ 2.362	7.717	≥ 6.890	0.276	2.559	*M16x45*
A 60	*65x2x31*	2.715 $^{+0}_{-0.0020}$	0.157	≥ 2.953	8.406	≥ 7.520	0.276	3.150	*M20x55*





QF

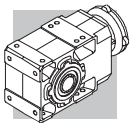
Dimensões em mm

		A1	A2	B1	B2	B3	S
A 10	QF25	25 h6	24	41	95	≥ 50	1.5
	QF30	30 h6	29				
A 20	QF25	25 h6	24	41	115	≥ 50	1.5
	QF30	30 h6	29				
A 30	QF35	35 h6	34	45	130	≥ 54	1.5
	QF40	40 h6	39				
A 35	QF35	35 h6	34	45	146.5	≥ 54	1.5
	QF40	40 h6	39				
A 41	QF40	40 h6	39	47	151.5	≥ 56	2
	QF45	45 h6	44				
A 50	QF50	50 h6	49	48	197	≥ 57	2
	QF55	55 h6	54				
A 55	QF55	55 h6	54	50	190	≥ 59	2
	QF60	60 h6	59				
A 60	QF60	60 h6	59	57	203	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				

NQF

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

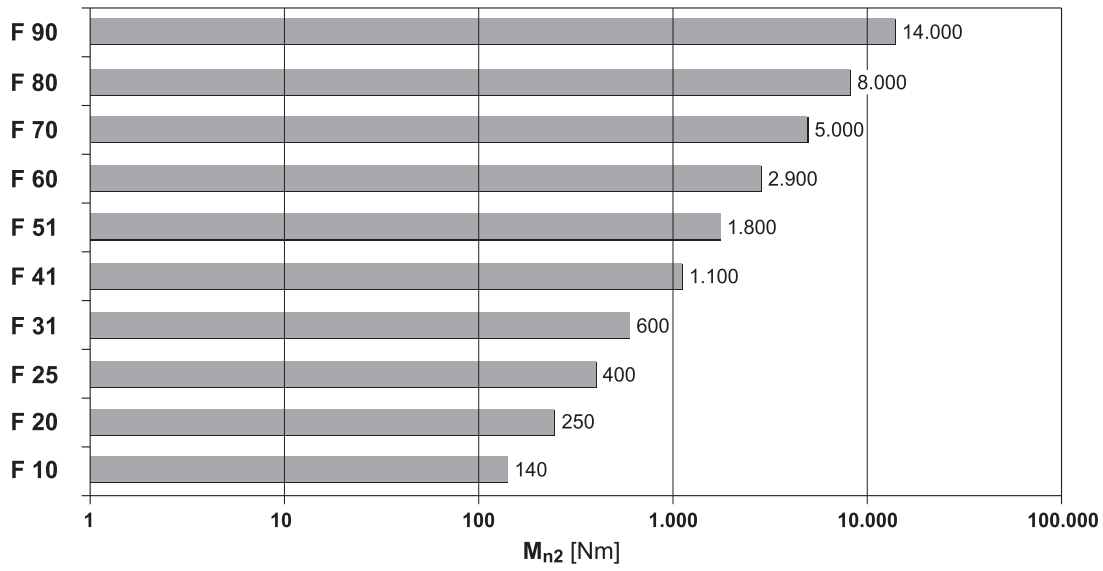
		A1	A2	B1	B2	B3	S
A 10	NQF1	1.000 $^{+0}_{-0.0005}$	0.961	1.614	3.740	≥ 1.969	0.059
	NQF1-3/16	1.1875 $^{+0}_{-0.0006}$	1.148				
A 20	NQF1	1.000 $^{+0}_{-0.0005}$	0.961	1.614	4.528	≥ 1.969	0.059
	NQF1-3/16	1.1875 $^{+0}_{-0.0006}$	1.148				
A 30	NQF1-3/8	1.375 $^{+0}_{-0.0006}$	1.336	1.772	5.118	≥ 2.126	0.059
	NQF1-7/16	1.4375 $^{+0}_{-0.0006}$	1.398				
A 35	NQF1-3/8	1.375 $^{+0}_{-0.0006}$	1.336	1.772	5.768	≥ 2.126	0.059
	NQF1-7/16	1.4375 $^{+0}_{-0.0006}$	1.398				
A 41	NQF1-1/2	1.500 $^{+0}_{-0.0006}$	1.461	1.850	5.965	≥ 2.205	0.079
	NQF1-5/8	1.625 $^{+0}_{-0.0006}$	1.586				
A 50	NQF1-15/16	1.9375 $^{+0}_{-0.0006}$	1.898	1.890	7.756	≥ 2.244	0.079
	NQF2	2.000 $^{+0}_{-0.0007}$	1.961				
A 55	NQF2-3/8	2.375 $^{+0}_{-0.0007}$	2.336	1.969	7.480	≥ 2.323	0.079
A 60	NQF2-3/8	2.375 $^{+0}_{-0.0007}$	2.336	2.244	7.992	≥ 2.598	0.098
	NQF2-7/16	2.4375 $^{+0}_{-0.0007}$	2.398				
	NQF2-3/4	2.750 $^{+0}_{-0.0007}$	2.711				

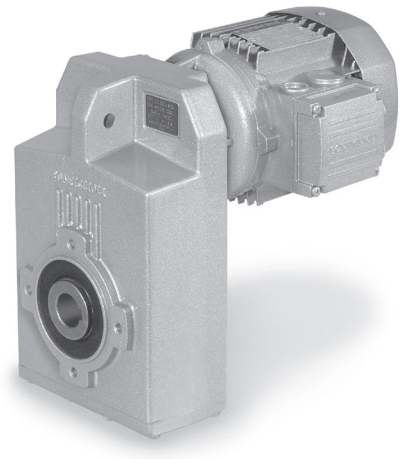


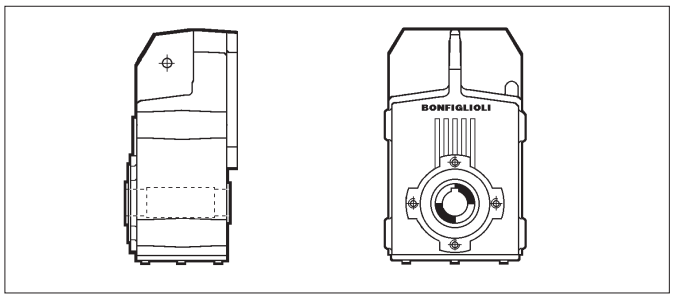
47 CARACTERÍSTICAS DE PROJETO

As principais características de projeto são:
- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 10, 20 e 25
- caixas em ferro fundido de alta resistência pintadas para tamanhos de quadro maiores.

(D 45)



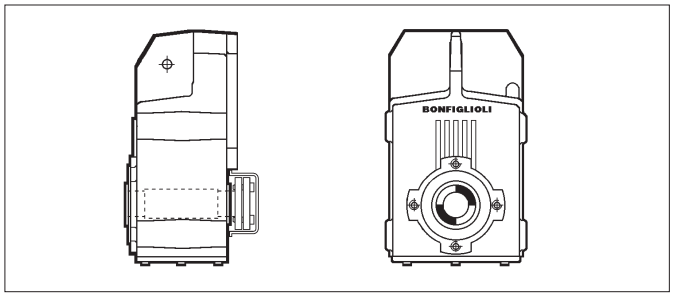




H / NH

Eixo de saída oco e chaveta

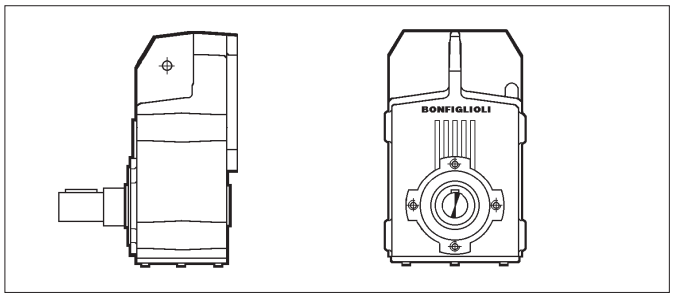
F 10 ... F 90



S

Eixo de saída oco e disco de contração

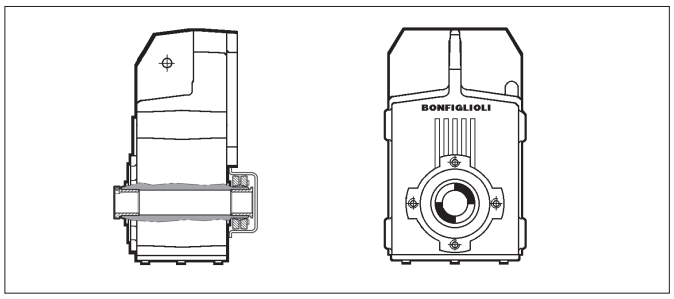
F 10 ... F 90



R / NR

Eixo de saída sólido

F 10 ... F 90



QF / NQF
(Quick-fit)

Eixo oco de encaixe rápido com buchas adaptadoras e disco de contração

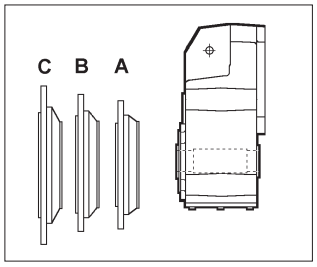
F 10 ... F 60

$M_{n2\ max}$ [Nm]			
F 25	QF30	NQF 1-3/16	350
F 41	QF42	NQF 1-5/8	850
	QF45	NQF 1-3/4	1000
F 51	QF50	NQF 1-15/16 NQF 2	1750

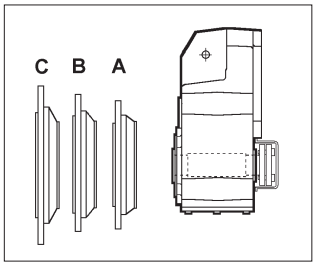
Versões básicas com flange parafusado

Os desenhos mostram os flanges aplicáveis às versões básicas.

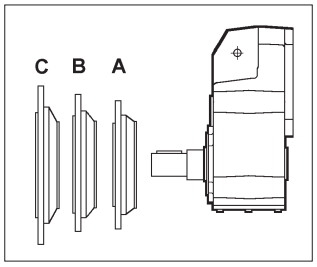
H / NH... F...



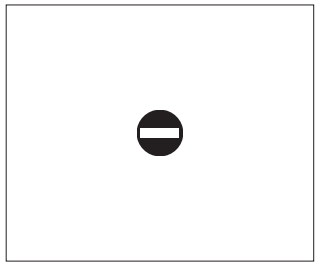
S F...



R / NR F...



QF / NQF...



49 DESIGNAÇÃO

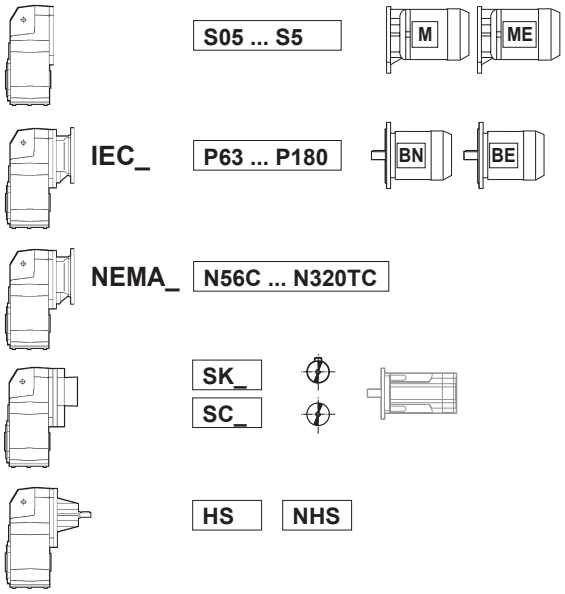
REDUTORES

F 10 2 H FA 9.8 S2 H5 .....

OPÇÕES

POSIÇÃO DE MONTAGEM
H1 (Padrão), **H2**, **H3**, **H4**, **H5**, **H6**

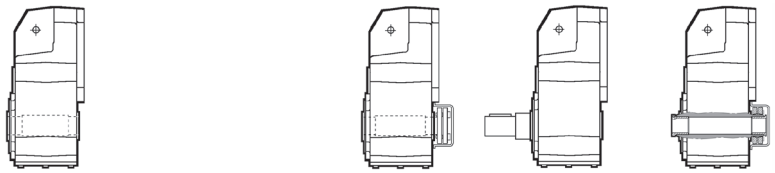
CONFIGURAÇÃO DE ENTRADA



RELAÇÃO DE TRANSMISSÃO

TAMANHO E POSIÇÃO DO FLANGE DE SAÍDA (especificar somente se solicitado)
F = Versão com flange
A, **B**, **C** = Tamanho do flange

VERSÃO



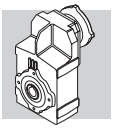
	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
Padrão	**H25**	**H30**	**H35**	**H35**	**H40**	**H50**	**H60**	**H80**	**H90**	**H100**
Alternativos	H30	H35	H40	H40	H45	H55	H70	H70	H80	H90

Diâmetros alternativos disponíveis mediante solicitação

REDUÇÕES
2 (F 10...F 51), **3** (F 20...F 90), **4** (F 31...F 90)

TAMANHO DO QUADRO DE ENGRENAGEM
10, **20**, **25**, **31**, **41**, **51**, **60**, **70**, **80**, **90**

TIPO **F** = helicoidal pendular



MOTOR FREIO

M 1LA 4 230/400-60 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPÇÕES

ALIMENTAÇÃO DO FREIO

TIPO DE RETIFICADOR AC/DC
NB, **SB**, **NBR**, **SBR**

LIBERAÇÃO MANUAL DO FREIO
R, **RM**

TORQUE DE FRENAGEM

TIPO DE FREIO
FD (freio d.c.)
FA (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS
W (padrão), **N**, **E**, **S**

MONTAGEM DO MOTOR
— (motor compacto)
B5 (motor - IEC)

CLASSE DE ISOLAMENTO
CL F padrão
CL H opção

GRAU DE PROTEÇÃO
IP55 padrão (**IP56** opção)
IP54, **IP55** freio motor

TENSÃO - FREQUÊNCIA

NÚMERO DE POLOS
2, **4**, **6**

TAMANHO DO MOTOR
0B ... 5LA (motor compacto)
63A ... 280M (motor IEC)

TIPO DE MOTOR
ME = trifásico compacto, classe IE2 **M** = trifásico compacto
BE = IEC trifásico, classe IE2 **BN** = trifásico IEC

NEMA = Trifásico a ser especificado conforme ordem

49.1 Opções de redutor

AL, AR
A pedido, o redutor pode ser fornecido completo com um dispositivo contrarrecuo que permite que o eixo de saída gire somente no sentido especificado no pedido. A tabela abaixo mostra os redutores em que o dispositivo contrarrecuo pode ser instalado.

(D 46)

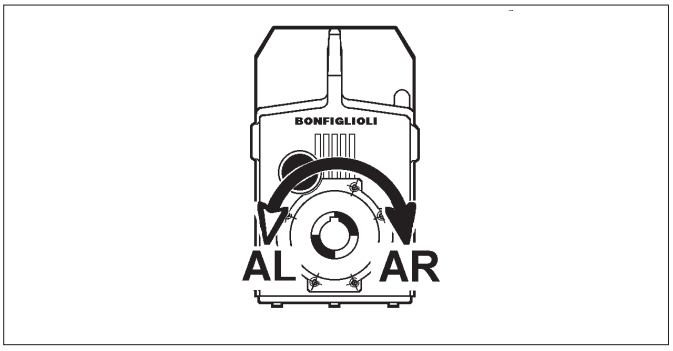
F 31 2*	**F 41 2** ⛀ (6.7; 10.8)					
F 31 3*	**F 41 3**	**F 51 3**	**F 60 3**	**F 70 3**	**F 80 3**	**F 90 3**
		F 51 4	**F 60 4**	**F 70 4**	**F 80 4**	**F 90 4**

* O fornecimento do contrarrecuo impedirá a configuração dos adaptadores de servomotor tipos S_60A, S_ 60B, S_80A.

Ao encomendar o redutor, o sentido da rotação livre deve ser especificado através das opções AR ou AL (Tabela D45).

⚠ Obs: Quando o dispositivo contrarrecuo operar com muita frequência, certifique-se de que o torque de retorno do redutor não exceda 70% do torque nominal M_{n2} do redutor em questão.

(D 47)



SO
Os redutores F 10 até F 41 geralmente preenchidos com óleo pela fábrica, são fornecidos sem lubrificação.

LO
Os redutores F 51 até F 90, geralmente fornecidos sem óleo, devem ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI REDUTORES de acordo com a posição de montagem especificada.

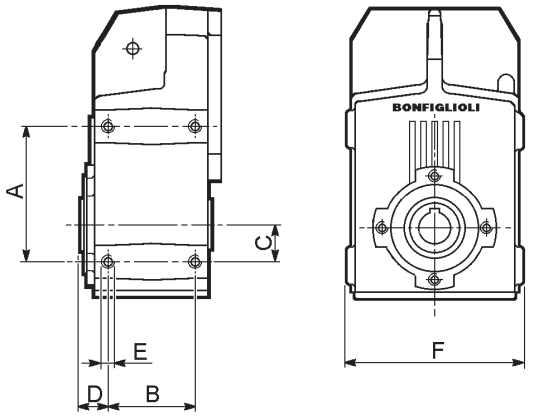
DV
Retentores de óleo duplos no eixo de entrada. (Disponível apenas para motorredutores integrais).

VV
Retentor de óleo em fluorelastômero no eixo de entrada.

PV
Os eixos de entrada e saída possuem retentor de óleo em Fluoroelastômero.

FL
Os redutores F 10...F 41 podem ser usinados e roscados especificando a opção FL.
As dimensões de montagem pertinentes à opção FL são fornecidas na tabela abaixo. Os redutores tipo F 51 até F 90 são usinados lateralmente e roscados por padrão.

(D 48)



	A	B	C	D	E	F
F 10	115	60	35	21.25	M8x16	163
F 20	130	70	40	26.5	M10x20	181
F 25	130	70	40	27.5	M10x20	181
F 31	147	80	45	30	M12x20	203
F 41	190	95	60	32.5	M12x22	235

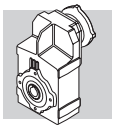
PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(D 49)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
C3	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
C4	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção “PINTURA”), os redutores serão acabados na cor RAL 7042. Os redutores também podem ser fornecidos com proteção de superfície para corrosividade classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.



PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(D 50)

PINTURA	Cor	número RAL
RAL7042*	Cinza Tráfego A	7042
RAL5010	Azul Genciano	5010
RAL9005	Preto de Jato	9005
RAL9006	Alumínio Branco	9006
RAL9010	Branco Puro	9010

* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

CERTIFICADOS

AC - Certificado de Conformidade
O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

CC - Certificado de Inspeção
O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

49.2 Acessórios

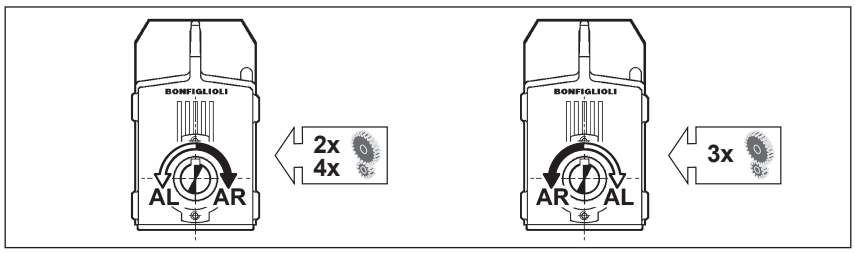
Ver capítulo 68 deste catálogo.

49.3 Opções de motor

AA, AC, AD
Posição angular da alavanca de liberação do freio em relação à caixa de terminais, olhando pelo lado da ventoinha.
Posição padrão = 90° no sentido horário. AA = 0°, AC = 180°, AD = 90° no sentido anti-horário.

AL, AR
Um dispositivo contrarrecuo instalado no próprio motor, conforme descrição na seção “Motores Elétricos” deste catálogo, está disponível para redutores com motores integrais Série M ou ME. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

(D 51)



CF
Filtro capacitivo.

D3
3 sensores bimetálicos de temperatura bobinagem, calibrados a 150°C.

E3
3 termistores de temperatura de bobinagem, calibrados a 150°C.

F1
Volante de inércia para partida e parada suaves.

H1
Aquecedores anticondensação. Tensão padrão: 1~ 230V ±10%.

PN
60 Hz de potência correspondente à potência normalizada de 50 Hz.

PS
Extensão de eixo duplo (exceto opções RC e U1).

RC
Tampa de gotejamento (exceto opção PS).

RV
Balanceamento do rotor em vibração classe B.

TC
A opção TC é uma variante de cobertura contra chuva para ambientes da indústria têxtil. Esta opção não é compatível com as variantes EN_ .

TP
Tropicalização.

U1
Refrigeração forçada (exceto opções PS e CUS).

U2
Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

50 LUBRIFICAÇÃO

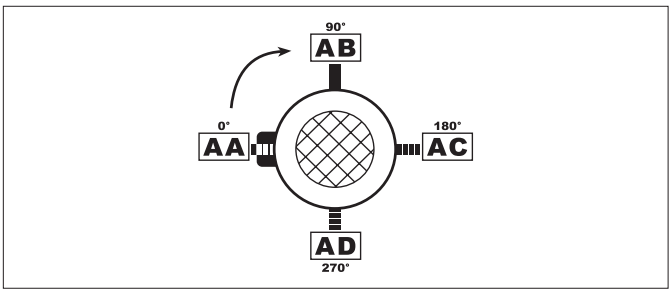
As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrifo. Quadros tamanhos F 10 até F 41 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo. Salvo especificado de outro modo, unidades tamanho F 51 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto. Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: www.bonfiglioli.com). O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor.
A operação dos redutores é permitida a temperaturas ambiente entre -20°C e +40°C. Entretanto, para temperaturas entre -20°C e -10°C, a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga. A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de -10°C, ou superior.

51 POSIÇÃO DE MONTAGEM E LOCALIZAÇÃO ANGULAR DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

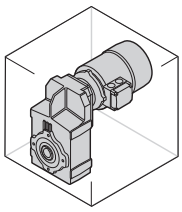
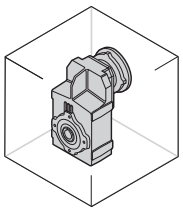
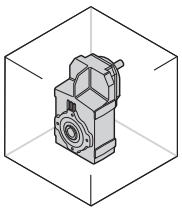
Localização angular da alavanca de liberação do freio.
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de 90° da caixa de terminais. Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.

(D 52)

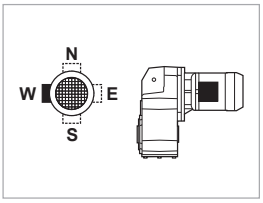


F ...

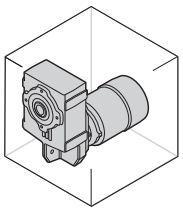
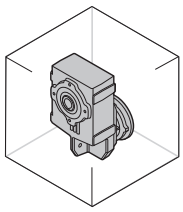
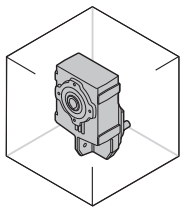
H1

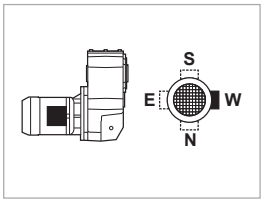
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



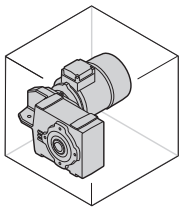
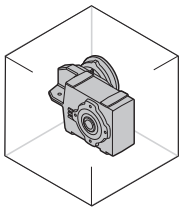
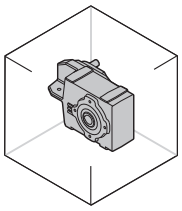
H2

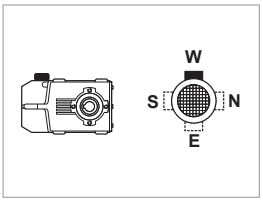
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



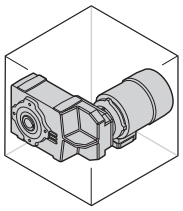
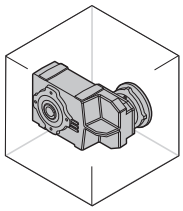
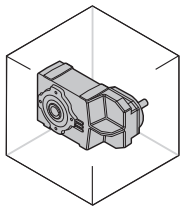
H3

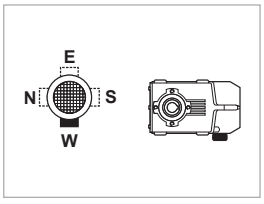
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



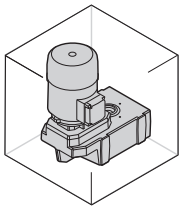
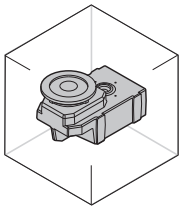
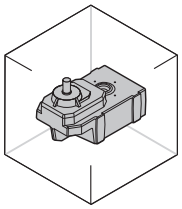
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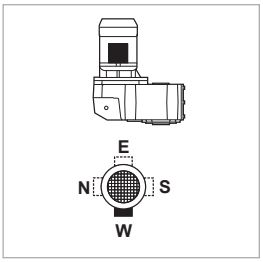
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



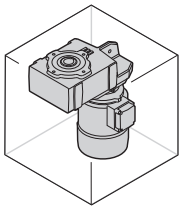
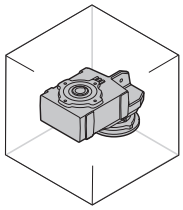
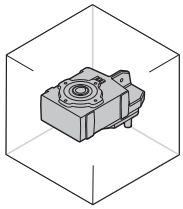
H5

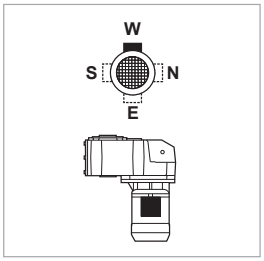
_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



H6

_S | _P(IEC) _N(NEMA) _SK / _SC | _HS _NHS



W = Default

52 CARGAS RADIAIS

Transmissões externas chavetadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo.
A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo (R_{c1} para o eixo de entrada, R_{c2} para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo (R_{n1} para o eixo de entrada, R_{n2} para o eixo de saída). Capacidade OHL informada na tabela de classificação.
Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.
A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

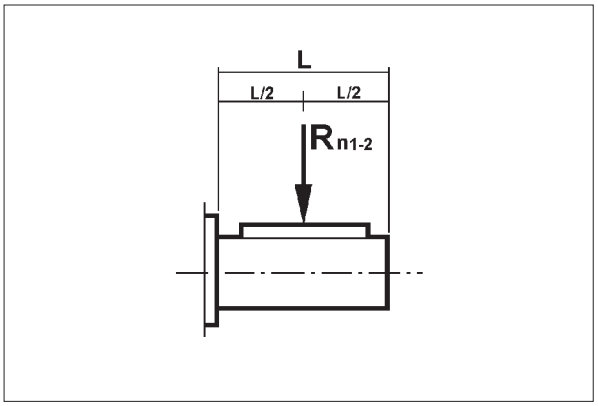
$$R_{c1}\,[N] = \frac{2000 \cdot M_1[Nm] \cdot K_r}{d\,[mm]} \quad ; \quad R_{c2}\,[N] = \frac{2000 \cdot M_2[Nm] \cdot K_r}{d\,[mm]} \qquad (35)$$

(D 53)

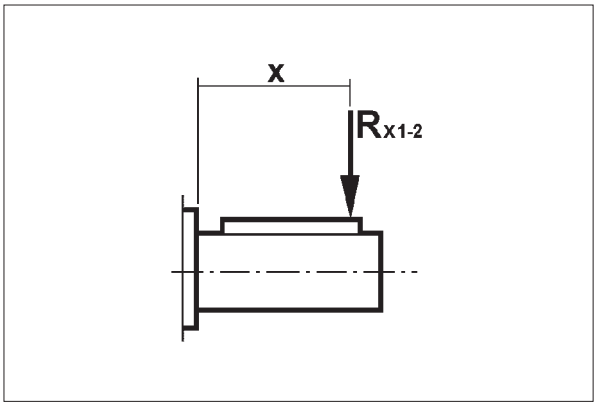
M_1 [Nm]	Torque aplicado ao eixo de entrada
M_2 [Nm]	Torque produzido no eixo de saída
d [mm]	Diâmetro primitivo do elemento chavetado no eixo
K_r = 1	Transmissão por corrente
K_r = 1.25	Transmissão por engrenagem
K_r = 1.5	Transmissão por correia tipo V
K_r = 2.0	Transmissão por correia plana

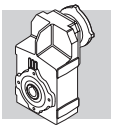
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(D 54)



(D 55)





a) Carga aplicada no ponto médio do eixo, guia. (D52)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$R_{c1} \leq R_{n1}$ [eixo de entrada]

ou

$R_{c2} \leq R_{n2}$ [eixo de saída]

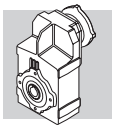
b) Carga fora da guia de ponto médio. (D53)

Quando a carga é deslocada a uma distância “x” do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância.
Cargas radiais permitidas revisadas R_{x1} (entrada) e R_{x2} (saída) são calculadas respectivamente a partir dos valores nominais originais R_{n1} e R_{n2} com o fator:

$$\frac{a}{b+x} \qquad (36)$$

(D 56)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	**b**	**c**	**a**	**b**	**c**
F 10 2	123	100.5	450	21	1	300
F 20 2	145	115	600	40	20	350
F 20 3	145	115	600	21	1	300
F 25 2 - F 25 3	157.5	127.5	800	40	20	350
F 25 4	157.5	127.5	800	21	1	300
F 31 2 - F 31 3	165	135	850	38.5	18.5	350
F 31 4	165	135	850	21	1	300
F 41 2 - F 41 3	191.5	151.5	1000	49.5	24.5	450
F 41 4	191.5	151.5	1000	40	20	350
F 51 2 - F 51 3	233.5	183.5	1300	49.5	24.5	450
F 51 4	233.5	183.5	1300	38.5	18.5	350
F 60 3	258.5	198.5	1100	55.5	25.5	600
F 60 4	258.5	198.5	1100	49.5	24.5	450
F 70 3	342	277	1600	86	31	1000
F 70 4	342	277	1600	49.5	24.5	450
F 80 3	386.5	301.5	1800	86	31	1000
F 80 4	386.5	301.5	1800	49.5	24.5	450
F 90 3	458.5	353.5	2400	116	46	1400
F 90 4	458.5	353.5	2400	49.5	24.5	450



O procedimento de verificação é descrito abaixo.

EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b + x} \quad (37)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (39)$$

EIXO DE SAÍDA

1. Calcular:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (40)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Por fim, a condição abaixo deve ser verificada:

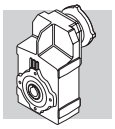
$$R_{c2} \leq R_{x2} \quad (42)$$

53 CARGAS AXIAIS, A_{n1}, A_{n2}

As cargas axiais permitidas nos eixos de entrada [A_{n1}] e de saída [A_{n2}] são obtidas a partir da carga radial do eixo em consideração [R_{n1}] e [R_{n2}] por meio da seguinte equação:

$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \quad (43)$$

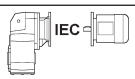
As cargas axiais calculadas com estas fórmulas aplicam-se às forças axiais ocorridas ao mesmo tempo que as cargas radiais nominais.
No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [A_n] equivale a 50% de OHL nominal [R_n] sobre o mesmo eixo.
Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.

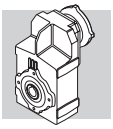


54 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

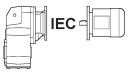
A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos. Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.

0.12 kW

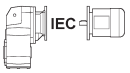
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
1.2	881	2.0	1439.5	10980			**F514_1439 P63 BN63A4**	550
1.2	863	1.3	1410.5	7795	**F414_1411 S05 M05A4**	542	**F414_1411 P63 BN63A4**	540
1.3	793	2.3	1295.5	10980			**F514_1296 P63 BN63A4**	550
1.4	743	1.5	1213.4	7795	**F414_1213 S05 M05A4**	542	**F414_1213 P63 BN63A4**	540
1.4	715	2.5	1167.6	10980			**F514_1168 P63 BN63A4**	550
1.5	668	1.6	1092.0	7795	**F414_1092 S05 M05A4**	542	**F414_1092 P63 BN63A4**	540
1.6	655	2.7	1070.3	10980			**F514_1070 P63 BN63A4**	550
1.6	638	0.9	1042.5	5725	**F314_1042 S05 M05A4**	532	**F314_1042 P63 BN63A4**	530
1.7	601	1.8	982.4	7795	**F414_982.4 S05 M05A4**	542	**F414_982.4 P63 BN63A4**	540
1.8	574	1.0	938.2	5954	**F314_938.2 S05 M05A4**	532	**F314_938.2 P63 BN63A4**	530
1.9	551	2.0	900.5	7795	**F414_900.5 S05 M05A4**	542	**F414_900.5 P63 BN63A4**	540
2.0	509	1.2	831.6	5954	**F314_831.6 S05 M05A4**	532	**F314_831.6 P63 BN63A4**	530
2.1	498	2.2	813.8	7795	**F414_813.8 S05 M05A4**	542	**F414_813.8 P63 BN63A4**	540
2.2	467	1.3	762.3	5954	**F314_762.3 S05 M05A4**	532	**F314_762.3 P63 BN63A4**	530
2.3	453	2.4	739.4	7795	**F414_739.4 S05 M05A4**	542	**F414_739.4 P63 BN63A4**	540
2.4	440	0.9	718.7	5673	**F254_718.7 S05 M05A4**	522	**F254_718.7 P63 BN63A4**	520
2.4	422	2.6	690.1	7795	**F414_690.1 S05 M05A4**	542	**F414_690.1 P63 BN63A4**	540
2.5	420	1.4	685.6	5954	**F314_685.6 S05 M05A4**	532	**F314_685.6 P63 BN63A4**	530
2.6	394	1.0	643.3	5948	**F254_643.3 S05 M05A4**	522	**F254_643.3 P63 BN63A4**	520
2.7	379	1.6	619.9	5954	**F314_619.9 S05 M05A4**	532	**F314_619.9 P63 BN63A4**	530
2.9	361	1.1	589.7	5948	**F254_589.7 S05 M05A4**	522	**F254_589.7 P63 BN63A4**	520
2.9	354	1.7	578.6	5954	**F314_578.6 S05 M05A4**	532	**F314_578.6 P63 BN63A4**	530
3.2	323	1.9	527.8	5954	**F314_527.8 S05 M05A4**	532	**F314_527.8 P63 BN63A4**	530
3.2	323	1.2	527.3	5948	**F254_527.3 S05 M05A4**	522	**F254_527.3 P63 BN63A4**	520
3.6	285	1.4	466.0	5948	**F254_466.0 S05 M05A4**	522	**F254_466.0 P63 BN63A4**	520
3.7	283	2.1	462.6	5954	**F314_462.6 S05 M05A4**	532	**F314_462.6 P63 BN63A4**	530
3.9	266	1.5	434.9	5948	**F254_434.9 S05 M05A4**	522	**F254_434.9 P63 BN63A4**	520
4.0	265	0.9	419.3	3668	**F203_419.3 S05 M05A4**	512	**F203_419.3 P63 BN63A4**	510
4.0	256	2.3	418.9	5954	**F314_418.9 S05 M05A4**	532	**F314_418.9 P63 BN63A4**	530
4.3	241	1.7	393.9	5948	**F254_393.9 S05 M05A4**	522	**F254_393.9 P63 BN63A4**	520
4.5	237	2.5	374.4	5954		532	**F313_374.4 P63 BN63A4**	530
4.5	236	1.1	372.9	3668	**F203_372.9 S05 M05A4**	512	**F203_372.9 P63 BN63A4**	510
5.1	211	1.9	333.1	5948	**F253_333.1 S05 M05A4**	522	**F253_333.1 P63 BN63A4**	520
5.1	210	2.9	332.8	5954			**F313_332.8 P63 BN63A4**	530
5.3	200	1.2	316.9	3668	**F203_316.9 S05 M05A4**	512	**F203_316.9 P63 BN63A4**	510
5.9	182	2.2	288.1	5948	**F253_288.1 S05 M05A4**	522	**F253_288.1 P63 BN63A4**	520
5.9	180	1.4	285.2	3668	**F203_285.2 S05 M05A4**	512	**F203_285.2 P63 BN63A4**	510
6.6	162	2.5	256.1	5948	**F253_256.1 S05 M05A4**	522	**F253_256.1 P63 BN63A4**	520
6.6	161	1.5	255.3	3668	**F203_255.3 S05 M05A4**	512	**F203_255.3 P63 BN63A4**	510
7.2	148	1.7	234.0	3668	**F203_234.0 S05 M05A4**	512	**F203_234.0 P63 BN63A4**	510
7.4	144	2.8	227.8	5948	**F253_227.8 S05 M05A4**	522	**F253_227.8 P63 BN63A4**	520
8.1	132	1.9	209.3	3668	**F203_209.3 S05 M05A4**	512	**F203_209.3 P63 BN63A4**	510
9.1	117	2.1	184.9	3668	**F203_184.9 S05 M05A4**	512	**F203_184.9 P63 BN63A4**	510
9.8	109	2.3	172.6	3668	**F203_172.6 S05 M05A4**	512	**F203_172.6 P63 BN63A4**	510
10.8	99	2.5	156.3	3668	**F203_156.3 S05 M05A4**	512	**F203_156.3 P63 BN63A4**	510

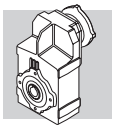


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n_2 rpm	M_2 Nm	S	i	R_{n2} N				
12.8	85	2.9	132.2	3668	**F202_132.2 S05 M05A4**	512	**F202_132.2 P63 BN63A4**	510
13.3	82	1.7	127.1	2579	**F102_127.1 S05 M05A4**	502	**F102_127.1 P63 BN63A4**	500
15.9	68	2.0	106.0	2579	**F102_106.0 S05 M05A4**	502	**F102_106.0 P63 BN63A4**	500
18.5	59	2.4	91.5	2579	**F102_91.5 S05 M05A4**	502	**F102_91.5 P63 BN63A4**	500
20.8	53	2.7	81.3	2579	**F102_81.3 S05 M05A4**	502	**F102_81.3 P63 BN63A4**	500

0.18 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
0.76	2087	2.4	2187.5	32375			**F704_2188 P63 BN63B4**	570
0.83	1926	2.6	2019.2	32375			**F704_2019 P63 BN63B4**	570
1.2	1373	1.3	1439.5	10980			**F514_1439 P63 BN63B4**	550
1.3	1236	1.5	1295.5	10980			**F514_1296 P63 BN63B4**	550
1.4	1158	1.0	1213.4	7795	**F414_1213 S05 M05B4**	542	**F414_1213 P63 BN63B4**	540
1.4	1114	1.6	1167.6	10980			**F514_1168 P63 BN63B4**	550
1.5	1089	2.7	1141.4	18500			**F604_1141 P63 BN63B4**	560
1.5	1042	1.1	1092.0	7795	**F414_1092 S05 M05B4**	542	**F414_1092 P63 BN63B4**	540
1.6	1021	1.8	1070.3	10980			**F514_1070 P63 BN63B4**	550
1.6	1005	2.9	1053.6	18500			**F604_1054 P63 BN63B4**	560
1.7	937	1.2	982.4	7795	**F414_982.4 S05 M05B4**	542	**F414_982.4 P63 BN63B4**	540
1.7	934	1.9	979.4	10980			**F514_979.4 P63 BN63B4**	550
1.9	859	1.3	900.5	7795	**F414_900.5 S05 M05B4**	542	**F414_900.5 P63 BN63B4**	540
1.9	845	2.1	885.5	10980			**F514_885.5 P63 BN63B4**	550
2.0	788	2.3	826.4	10980			**F514_826.4 P63 BN63B4**	550
2.1	776	1.4	813.8	7795	**F414_813.8 S05 M05B4**	542	**F414_813.8 P63 BN63B4**	540
2.3	705	1.6	739.4	7795	**F414_739.4 S05 M05B4**	542	**F414_739.4 P63 BN63B4**	540
2.4	658	1.7	690.1	7795	**F414_690.1 S05 M05B4**	542	**F414_690.1 P63 BN63B4**	540
2.4	654	0.9	685.6	5725	**F314_685.6 S05 M05B4**	532	**F314_685.6 P63 BN63B4**	530
2.5	645	2.8	676.3	10980			**F514_676.3 P63 BN63B4**	550
2.7	591	1.0	619.9	5954	**F314_619.9 S05 M05B4**	532	**F314_619.9 P63 BN63B4**	530
2.9	552	1.1	578.6	5954	**F314_578.6 S05 M05B4**	532	**F314_578.6 P63 BN63B4**	530
3.0	525	2.1	549.8	7795	**F414_549.8 S05 M05B4**	542	**F414_549.8 P63 BN63B4**	540
3.2	503	1.2	527.8	5954	**F314_527.8 S05 M05B4**	532	**F314_527.8 P63 BN63B4**	530
3.6	441	1.4	462.6	5954	**F314_462.6 S05 M05B4**	532	**F314_462.6 P63 BN63B4**	530
3.8	415	1.0	434.9	5948	**F254_434.9 S05 M05B4**	522	**F254_434.9 P63 BN63B4**	520
3.9	414	2.7	433.7	7795	**F414_433.7 S05 M05B4**	542	**F414_433.7 P63 BN63B4**	540
4.0	400	1.5	418.9	5954	**F314_418.9 S05 M05B4**	532	**F314_418.9 P63 BN63B4**	530
4.2	376	1.1	393.9	5948	**F254_393.9 S05 M05B4**	522	**F254_393.9 P63 BN63B4**	520
4.5	369	1.6	374.4	5954			**F313_374.4 P63 BN63B4**	530
5.0	328	1.2	333.1	5948	**F253_333.1 S05 M05B4**	522	**F253_333.1 P63 BN63B4**	520
5.0	328	1.8	332.8	5954			**F313_332.8 P63 BN63B4**	530
5.7	290	2.1	293.8	5954			**F313_293.8 P63 BN63B4**	530
5.8	284	1.4	288.1	5948	**F253_288.1 S05 M05B4**	522	**F253_288.1 P63 BN63B4**	520
6.5	252	1.6	256.1	5948	**F253_256.1 S05 M05B4**	522	**F253_256.1 P63 BN63B4**	520
6.5	252	1.0	255.3	3668	**F203_255.3 S05 M05B4**	512	**F203_255.3 P63 BN63B4**	510
6.6	250	2.4	253.6	5954			**F313_253.6 P63 BN63B4**	530
7.1	231	1.1	234.0	3668	**F203_234.0 S05 M05B4**	512	**F203_234.0 P63 BN63B4**	510
7.3	225	2.7	228.2	5954			**F313_228.2 P63 BN63B4**	530
7.3	225	1.8	227.8	5948	**F253_227.8 S05 M05B4**	522	**F253_227.8 P63 BN63B4**	520
8.0	206	1.2	209.3	3668	**F203_209.3 S05 M05B4**	512	**F203_209.3 P63 BN63B4**	510
8.6	191	2.1	193.6	5948	**F253_193.6 S05 M05B4**	522	**F253_193.6 P63 BN63B4**	520
9.0	182	1.4	184.9	3668	**F203_184.9 S05 M05B4**	512	**F203_184.9 P63 BN63B4**	510
9.6	172	2.3	174.2	5948	**F253_174.2 S05 M05B4**	522	**F253_174.2 P63 BN63B4**	520
9.7	170	1.5	172.6	3668	**F203_172.6 S05 M05B4**	512	**F203_172.6 P63 BN63B4**	510
10.7	154	1.6	156.3	3668	**F203_156.3 S05 M05B4**	512	**F203_156.3 P63 BN63B4**	510
10.7	154	2.6	155.9	5948	**F253_155.9 S05 M05B4**	522	**F253_155.9 P63 BN63B4**	520
11.7	141	2.8	143.0	5948	**F253_143.0 S05 M05B4**	522	**F253_143.0 P63 BN63B4**	520
12.6	133	1.9	132.2	3668	**F202_132.2 S05 M05B4**	512	**F202_132.2 P63 BN63B4**	510

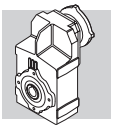


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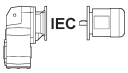
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
13.1	128	1.1	127.1	2579	**F102_127.1 S05 M05B4**	502	**F102_127.1 P63 BN63B4**	500
14.6	115	2.2	114.3	3668	**F202_114.3 S05 M05B4**	512	**F202_114.3 P63 BN63B4**	510
15.8	107	1.3	106.0	2579	**F102_106.0 S05 M05B4**	502	**F102_106.0 P63 BN63B4**	500
16.4	102	2.4	101.6	3668	**F202_101.6 S05 M05B4**	512	**F202_101.6 P63 BN63B4**	510
18.3	92	1.5	91.5	2579	**F102_91.5 S05 M05B4**	502	**F102_91.5 P63 BN63B4**	500
18.5	91	2.7	90.4	3668	**F202_90.4 S05 M05B4**	512	**F202_90.4 P63 BN63B4**	510
20.5	82	1.7	81.3	2579	**F102_81.3 S05 M05B4**	502	**F102_81.3 P63 BN63B4**	500
23.5	72	2.0	71.1	2579	**F102_71.1 S05 M05B4**	502	**F102_71.1 P63 BN63B4**	500
26.5	63	2.2	63.0	2579	**F102_63.0 S05 M05B4**	502	**F102_63.0 P63 BN63B4**	500
29.5	57	2.5	56.7	2579	**F102_56.7 S05 M05B4**	502	**F102_56.7 P63 BN63B4**	500
34	49	2.9	48.7	2579	**F102_48.7 S05 M05B4**	502	**F102_48.7 P63 BN63B4**	500

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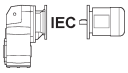
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
0.76	2756	1.8	2187.5	32375			**F704_2188 P71 BN71A4**	570
0.83	2544	2.0	2019.2	32375			**F704_2019 P71 BN71A4**	570
0.97	2163	2.3	1716.7	32375			**F704_1717 P71 BN71A4**	570
1.1	1997	2.5	1584.6	32375			**F704_1585 P71 BN71A4**	570
1.1	1867	2.7	1481.5	32375			**F704_1481 P71 BN71A4**	570
1.2	1814	1.0	1439.5	10980			**F514_1439 P71 BN71A4**	550
1.2	1723	2.9	1367.5	32375			**F704_1368 P71 BN71A4**	570
1.3	1632	1.1	1295.5	10980			**F514_1296 P71 BN71A4**	550
1.4	1471	1.2	1167.6	10980			**F514_1168 P71 BN71A4**	550
1.5	1438	2.0	1141.4	18500			**F604_1141 P71 BN71A4**	560
1.6	1349	1.3	1070.3	10980			**F514_1070 P71 BN71A4**	550
1.6	1328	2.2	1053.6	18500			**F604_1054 P71 BN71A4**	560
1.7	1234	1.5	979.4	10980			**F514_979.4 P71 BN71A4**	550
1.7	1208	2.4	958.9	18500			**F604_958.9 P71 BN71A4**	560
1.9	1135	1.0	900.5	7795	**F414_900.5 S05 M05C4**	542	**F414_900.5 P71 BN71A4**	540
1.9	1116	1.6	885.5	10980			**F514_885.5 P71 BN71A4**	550
1.9	1115	2.6	885.1	18500			**F604_885.1 P71 BN71A4**	560
2.0	1041	1.7	826.4	10980			**F514_826.4 P71 BN71A4**	550
2.0	1032	2.8	819.0	18500			**F604_819.0 P71 BN71A4**	560
2.1	1025	1.1	813.8	7795	**F414_813.8 S05 M05C4**	542	**F414_813.8 P71 BN71A4**	540
2.3	932	1.2	739.4	7795	**F414_739.4 S05 M05C4**	542	**F414_739.4 P71 BN71A4**	540
2.4	870	1.3	690.1	7795	**F414_690.1 S05 M05C4**	542	**F414_690.1 P71 BN71A4**	540
2.5	852	2.1	676.3	10980			**F514_676.3 P71 BN71A4**	550
3.0	693	1.6	549.8	7795	**F414_549.8 S05 M05C4**	542	**F414_549.8 P71 BN71A4**	540
3.1	668	2.7	530.5	10980			**F514_530.5 P71 BN71A4**	550
3.2	665	0.9	527.8	5725	**F314_527.8 S05 M05C4**	532	**F314_527.8 P71 BN71A4**	530
3.6	583	1.0	462.6	5954	**F314_462.6 S05 M05C4**	532	**F314_462.6 P71 BN71A4**	530
3.9	546	2.0	433.7	7795	**F414_433.7 S05 M05C4**	542	**F414_433.7 P71 BN71A4**	540
4.0	528	1.1	418.9	5954	**F314_418.9 S05 M05C4**	532	**F314_418.9 P71 BN71A4**	530
4.5	488	1.2	374.4	5954			**F313_374.4 P71 BN71A4**	530
4.8	449	2.5	344.8	7795			**F413_344.8 P71 BN71A4**	540
5.0	434	0.9	333.1	5948	**F253_333.1 S05 M05C4**	522	**F253_333.1 P71 BN71A4**	520
5.0	433	1.4	332.8	5954			**F313_332.8 P71 BN71A4**	530
5.6	386	2.8	296.6	7795			**F413_296.6 P71 BN71A4**	540
5.7	383	1.6	293.8	5954			**F313_293.8 P71 BN71A4**	530
5.8	375	1.1	288.1	5948	**F253_288.1 S05 M05C4**	522	**F253_288.1 P71 BN71A4**	520
6.5	333	1.2	256.1	5948	**F253_256.1 S05 M05C4**	522	**F253_256.1 P71 BN71A4**	520
6.6	330	1.8	253.6	5954			**F313_253.6 P71 BN71A4**	530
7.3	297	2.0	228.2	5954			**F313_228.2 P71 BN71A4**	530
7.3	297	1.3	227.8	5948	**F253_227.8 S05 M05C4**	522	**F253_227.8 P71 BN71A4**	520
8.0	272	0.9	209.3	3668	**F203_209.3 S05 M05C4**	512	**F203_209.3 P71 BN71A4**	510
8.3	263	2.3	202.3	5954			**F313_202.3 P71 BN71A4**	530
8.6	252	1.6	193.6	5948	**F253_193.6 S05 M05C4**	522	**F253_193.6 P71 BN71A4**	520
9.0	241	2.5	185.4	5954			**F313_185.4 P71 BN71A4**	530
9.0	241	1.0	184.9	3668	**F203_184.9 S05 M05C4**	512	**F203_184.9 P71 BN71A4**	510
9.6	227	1.8	174.2	5948	**F253_174.2 S05 M05C4**	522	**F253_174.2 P71 BN71A4**	520
9.7	225	1.1	172.6	3668	**F203_172.6 S05 M05C4**	512	**F203_172.6 P71 BN71A4**	510
10.0	217	2.8	166.8	5954			**F313_166.8 P71 BN71A4**	530
10.7	204	1.2	156.3	3668	**F203_156.3 S05 M05C4**	512	**F203_156.3 P71 BN71A4**	510

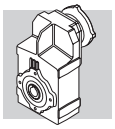


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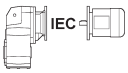
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
10.7	203	2.0	155.9	5948	**F253_155.9 S05 M05C4**	522	**F253_155.9 P71 BN71A4**	520
11.7	186	2.1	143.0	5948	**F253_143.0 S05 M05C4**	522	**F253_143.0 P71 BN71A4**	520
12.6	176	1.4	132.2	3668	**F202_132.2 S05 M05C4**	512	**F202_132.2 P71 BN71A4**	510
13.1	166	2.4	127.8	5948	**F253_127.8 S05 M05C4**	522	**F253_127.8 P71 BN71A4**	520
14.6	152	1.6	114.3	3668	**F202_114.3 S05 M05C4**	512	**F202_114.3 P71 BN71A4**	510
14.8	147	2.7	113.0	5948	**F253_113.0 S05 M05C4**	522	**F253_113.0 P71 BN71A4**	520
15.8	141	1.0	106.0	2579	**F102_106.0 S05 M05C4**	502	**F102_106.0 P71 BN71A4**	500
15.8	137	2.9	105.4	5948	**F253_105.4 S05 M05C4**	522	**F253_105.4 P71 BN71A4**	520
16.4	135	1.8	101.6	3668	**F202_101.6 S05 M05C4**	512	**F202_101.6 P71 BN71A4**	510
18.3	122	1.2	91.5	2579	**F102_91.5 S05 M05C4**	502	**F102_91.5 P71 BN71A4**	500
18.5	120	2.1	90.4	3668	**F202_90.4 S05 M05C4**	512	**F202_90.4 P71 BN71A4**	510
20.5	108	1.3	81.3	2579	**F102_81.3 S05 M05C4**	502	**F102_81.3 P71 BN71A4**	500
21.7	102	2.4	76.8	3668	**F202_76.8 S05 M05C4**	512	**F202_76.8 P71 BN71A4**	510
23.5	95	1.5	71.1	2579	**F102_71.1 S05 M05C4**	502	**F102_71.1 P71 BN71A4**	500
24.2	92	2.7	69.1	3668	**F202_69.1 S05 M05C4**	512	**F202_69.1 P71 BN71A4**	510
26.5	84	1.7	63.0	2579	**F102_63.0 S05 M05C4**	502	**F102_63.0 P71 BN71A4**	500
29.5	75	1.9	56.7	2579	**F102_56.7 S05 M05C4**	502	**F102_56.7 P71 BN71A4**	500
34	65	2.2	48.7	2579	**F102_48.7 S05 M05C4**	502	**F102_48.7 P71 BN71A4**	500
37	59	2.4	44.7	2579	**F102_44.7 S05 M05C4**	502	**F102_44.7 P71 BN71A4**	500
42	53	2.7	39.6	2579	**F102_39.6 S05 M05C4**	502	**F102_39.6 P71 BN71A4**	500
47	47	3.0	35.3	2579	**F102_35.3 S05 M05C4**	502	**F102_35.3 P71 BN71A4**	500

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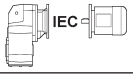
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
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0.84	3798	1.3	2019.2	32375	**F704_2019 S1 M1SD4**	572	**F704_2019 P71 BN71B4**	570
0.86	3737	2.1	1986.8	41715	**F804_1987 S1 M1SD4**	580	**F804_1987 P71 BN71B4**	578
0.93	3450	2.3	1834.0	41715	**F804_1834 S1 M1SD4**	580	**F804_1834 P71 BN71B4**	578
0.99	3229	1.5	1716.7	32375	**F704_1717 S1 M1SD4**	572	**F704_1717 P71 BN71B4**	570
0.99	3215	2.5	1709.1	41715	**F804_1709 S1 M1SD4**	580	**F804_1709 P71 BN71B4**	578
1.1	2981	1.7	1584.6	32375	**F704_1585 S1 M1SD4**	572	**F704_1585 P71 BN71B4**	570
1.1	2968	2.7	1577.6	41715	**F804_1578 S1 M1SD4**	580	**F804_1578 P71 BN71B4**	578
1.1	2787	1.8	1481.5	32375	**F704_1481 S1 M1SD4**	572	**F704_1481 P71 BN71B4**	570
1.2	2572	1.9	1367.5	32375	**F704_1368 S1 M1SD4**	572	**F704_1368 P71 BN71B4**	570
1.4	2223	2.2	1181.8	32375	**F704_1182 S1 M1SD4**	572	**F704_1182 P71 BN71B4**	570
1.5	2147	1.4	1141.4	18500	**F604_1141 S1 M1SD4**	562	**F604_1141 P71 BN71B4**	560
1.6	2052	2.4	1090.9	32375	**F704_1091 S1 M1SD4**	572	**F704_1091 P71 BN71B4**	570
1.6	1982	1.5	1053.6	18500	**F604_1054 S1 M1SD4**	562	**F604_1054 P71 BN71B4**	560
1.7	1842	1.0	979.4	10980	**F514_979.4 S1 M1SD4**	552	**F514_979.4 P71 BN71B4**	550
1.7	1833	2.7	974.4	32375	**F704_974.4 S1 M1SD4**	572	**F704_974.4 P71 BN71B4**	570
1.8	1804	1.6	958.9	18500	**F604_958.9 S1 M1SD4**	562	**F604_958.9 P71 BN71B4**	560
1.9	1692	3.0	899.4	32375	**F704_899.4 S1 M1SD4**	572	**F704_899.4 P71 BN71B4**	570
1.9	1666	1.1	885.5	10980	**F514_885.5 S1 M1SD4**	552	**F514_885.5 P71 BN71B4**	550
1.9	1665	1.7	885.1	18500	**F604_885.1 S1 M1SD4**	562	**F604_885.1 P71 BN71B4**	560
2.1	1555	1.2	826.4	10980	**F514_826.4 S1 M1SD4**	552	**F514_826.4 P71 BN71B4**	550
2.1	1540	1.9	819.0	18500	**F604_819.0 S1 M1SD4**	562	**F604_819.0 P71 BN71B4**	560
2.2	1422	2.0	756.0	18500	**F604_756.0 S1 M1SD4**	562	**F604_756.0 P71 BN71B4**	560
2.5	1272	1.4	676.3	10980	**F514_676.3 S1 M1SD4**	552	**F514_676.3 P71 BN71B4**	550
2.6	1246	2.3	662.4	18500	**F604_662.4 S1 M1SD4**	562	**F604_662.4 P71 BN71B4**	560
2.8	1150	2.5	611.4	18500	**F604_611.4 S1 M1SD4**	562	**F604_611.4 P71 BN71B4**	560
3.1	1034	1.1	549.8	7795	**F414_549.8 S1 M1SD4**	542	**F414_549.8 P71 BN71B4**	540
3.2	998	2.9	530.7	18500	**F604_530.7 S1 M1SD4**	562	**F604_530.7 P71 BN71B4**	560
3.2	998	1.8	530.5	10980	**F514_530.5 S1 M1SD4**	552	**F514_530.5 P71 BN71B4**	550
3.9	816	1.3	433.7	7795	**F414_433.7 S1 M1SD4**	542	**F414_433.7 P71 BN71B4**	540
4.0	807	2.2	429.1	10980	**F514_429.1 S1 M1SD4**	552	**F514_429.1 P71 BN71B4**	550
4.8	685	2.6	352.5	10980	**F513_352.5 S1 M1SD4**	552	**F513_352.5 P71 BN71B4**	550
4.9	670	1.6	344.8	7795	**F413_344.8 S1 M1SD4**	542	**F413_344.8 P71 BN71B4**	540
5.1	647	0.9	332.8	5725			**F313_332.8 P71 BN71B4**	530
5.4	617	2.9	317.3	10980	**F513_317.3 S1 M1SD4**	552	**F513_317.3 P71 BN71B4**	550
5.7	576	1.9	296.6	7795	**F413_296.6 S1 M1SD4**	542	**F413_296.6 P71 BN71B4**	540
5.8	571	1.1	293.8	5954	**F313_293.8 S1 M1SD4**	532	**F313_293.8 P71 BN71B4**	530
6.4	519	2.1	266.9	7795	**F413_266.9 S1 M1SD4**	542	**F413_266.9 P71 BN71B4**	540
6.7	493	1.2	253.6	5954	**F313_253.6 S1 M1SD4**	532	**F313_253.6 P71 BN71B4**	530

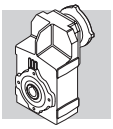


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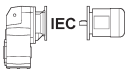
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
7.1	467	2.4	240.1	7795	**F413_240.1 S1 M1SD4**	542	**F413_240.1 P71 BN71B4**	540
7.4	444	1.4	228.2	5954	**F313_228.2 S1 M1SD4**	532	**F313_228.2 P71 BN71B4**	530
7.5	443	0.9	227.8	5673	**F253_227.8 S1 M1SD4**	522	**F253_227.8 P71 BN71B4**	520
7.7	428	2.6	220.1	7795	**F413_220.1 S1 M1SD4**	542	**F413_220.1 P71 BN71B4**	540
8.4	393	1.5	202.3	5954	**F313_202.3 S1 M1SD4**	532	**F313_202.3 P71 BN71B4**	530
8.5	387	2.8	198.9	7795	**F413_198.9 S1 M1SD4**	542	**F413_198.9 P71 BN71B4**	540
8.8	376	1.1	193.6	5948	**F253_193.6 S1 M1SD4**	522	**F253_193.6 P71 BN71B4**	520
9.2	360	1.7	185.4	5954	**F313_185.4 S1 M1SD4**	532	**F313_185.4 P71 BN71B4**	530
9.8	339	1.2	174.2	5948	**F253_174.2 S1 M1SD4**	522	**F253_174.2 P71 BN71B4**	520
10.2	324	1.9	166.8	5954	**F313_166.8 S1 M1SD4**	532	**F313_166.8 P71 BN71B4**	530
10.9	303	1.3	155.9	5948	**F253_155.9 S1 M1SD4**	522	**F253_155.9 P71 BN71B4**	520
11.3	293	2.0	150.8	5954	**F313_150.8 S1 M1SD4**	532	**F313_150.8 P71 BN71B4**	530
11.9	278	1.4	143.0	5948	**F253_143.0 S1 M1SD4**	522	**F253_143.0 P71 BN71B4**	520
12.1	274	2.2	140.7	5954	**F313_140.7 S1 M1SD4**	532	**F313_140.7 P71 BN71B4**	530
12.9	262	1.0	132.2	3668	**F202_132.2 S1 M1SD4**	512	**F202_132.2 P71 BN71B4**	510
13.2	250	2.4	128.4	5954	**F313_128.4 S1 M1SD4**	532	**F313_128.4 P71 BN71B4**	530
13.3	248	1.6	127.8	5948	**F253_127.8 S1 M1SD4**	522	**F253_127.8 P71 BN71B4**	520
14.9	227	1.1	114.3	3668	**F202_114.3 S1 M1SD4**	512	**F202_114.3 P71 BN71B4**	510
15.0	220	1.8	113.0	5948	**F253_113.0 S1 M1SD4**	522	**F253_113.0 P71 BN71B4**	520
15.1	219	2.7	112.5	5954	**F313_112.5 S1 M1SD4**	532	**F313_112.5 P71 BN71B4**	530
16.1	205	2.0	105.4	5948	**F253_105.4 S1 M1SD4**	522	**F253_105.4 P71 BN71B4**	520
16.7	198	2.9	101.9	5954	**F313_101.9 S1 M1SD4**	532	**F313_101.9 P71 BN71B4**	530
16.7	202	1.2	101.6	3668	**F202_101.6 S1 M1SD4**	512	**F202_101.6 P71 BN71B4**	510
17.8	186	2.2	95.5	5938	**F253_95.5 S1 M1SD4**	522	**F253_95.5 P71 BN71B4**	520
18.8	180	1.4	90.4	3668	**F202_90.4 S1 M1SD4**	512	**F202_90.4 P71 BN71B4**	510
20.4	162	2.5	83.4	5746	**F253_83.4 S1 M1SD4**	522	**F253_83.4 P71 BN71B4**	520
22.1	153	1.6	76.8	3668	**F202_76.8 S1 M1SD4**	512	**F202_76.8 P71 BN71B4**	510
22.2	149	2.7	76.6	5636	**F253_76.6 S1 M1SD4**	522	**F253_76.6 P71 BN71B4**	520
23.9	141	1.0	71.1	2579	**F102_71.1 S1 M1SD4**	502	**F102_71.1 P71 BN71B4**	500
24.6	137	1.8	69.1	3668	**F202_69.1 S1 M1SD4**	512	**F202_69.1 P71 BN71B4**	510
26.0	127	3.0	65.3	5417	**F253_65.3 S1 M1SD4**	522	**F253_65.3 P71 BN71B4**	520
27.0	125	1.1	63.0	2579	**F102_63.0 S1 M1SD4**	502	**F102_63.0 P71 BN71B4**	500
27.5	123	2.0	61.9	3668	**F202_61.9 S1 M1SD4**	512	**F202_61.9 P71 BN71B4**	510
30.0	113	2.2	56.7	3668	**F202_56.7 S1 M1SD4**	512	**F202_56.7 P71 BN71B4**	510
30.0	113	1.2	56.7	2579	**F102_56.7 S1 M1SD4**	502	**F102_56.7 P71 BN71B4**	500
34	101	2.4	50.7	3576	**F202_50.7 S1 M1SD4**	512	**F202_50.7 P71 BN71B4**	510
35	97	1.4	48.7	2579	**F102_48.7 S1 M1SD4**	502	**F102_48.7 P71 BN71B4**	500
38	89	2.6	44.8	3457	**F202_44.8 S1 M1SD4**	512	**F202_44.8 P71 BN71B4**	510
38	89	1.6	44.7	2579	**F102_44.7 S1 M1SD4**	502	**F102_44.7 P71 BN71B4**	500
41	83	2.8	41.8	3393	**F202_41.8 S1 M1SD4**	512	**F202_41.8 P71 BN71B4**	510
43	79	1.8	39.6	2579	**F102_39.6 S1 M1SD4**	502	**F102_39.6 P71 BN71B4**	500
48	70	2.0	35.3	2579	**F102_35.3 S1 M1SD4**	502	**F102_35.3 P71 BN71B4**	500
52	65	2.1	33.0	2579	**F102_33.0 S1 M1SD4**	502	**F102_33.0 P71 BN71B4**	500
57	59	2.2	29.6	2579	**F102_29.6 S1 M1SD4**	502	**F102_29.6 P71 BN71B4**	500
66	51	2.5	25.8	2477	**F102_25.8 S1 M1SD4**	502	**F102_25.8 P71 BN71B4**	500
74	45	2.8	22.8	2395	**F102_22.8 S1 M1SD4**	502	**F102_22.8 P71 BN71B4**	500

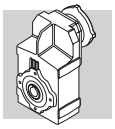
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n_2 rpm	M_2 Nm	S	i	R_{n2} N				
0.81	5893	2.4	2098.7	50930			**F904_2099 P80 BN80A4**	586
0.86	5579	1.4	1986.8	41715	**F804_1987 S1 M1LA4**	580	**F804_1987 P80 BN80A4**	578
0.88	5440	2.6	1937.3	50930			**F904_1937 P80 BN80A4**	586
0.93	5150	1.6	1834.0	41715	**F804_1834 S1 M1LA4**	580	**F804_1834 P80 BN80A4**	578
1.0	4820	1.0	1716.7	32375	**F704_1717 S1 M1LA4**	572	**F704_1717 P80 BN80A4**	570
1.0	4799	1.7	1709.1	41715	**F804_1709 S1 M1LA4**	580	**F804_1709 P80 BN80A4**	578
1.0	4780	2.9	1702.3	50930			**F904_1702 P80 BN80A4**	586
1.1	4450	1.1	1584.6	32375	**F704_1585 S1 M1LA4**	572	**F704_1585 P80 BN80A4**	570
1.1	4430	1.8	1577.6	41715	**F804_1578 S1 M1LA4**	580	**F804_1578 P80 BN80A4**	578
1.2	4160	1.2	1481.5	32375	**F704_1481 S1 M1LA4**	572	**F704_1481 P80 BN80A4**	570
1.2	3886	2.1	1383.8	41715	**F804_1384 S1 M1LA4**	580	**F804_1384 P80 BN80A4**	578
1.3	3840	1.3	1367.5	32375	**F704_1368 S1 M1LA4**	572	**F704_1368 P80 BN80A4**	570
1.3	3587	2.2	1277.3	41715	**F804_1277 S1 M1LA4**	580	**F804_1277 P80 BN80A4**	578
1.4	3319	1.5	1181.8	32375	**F704_1182 S1 M1LA4**	572	**F704_1182 P80 BN80A4**	570

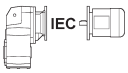


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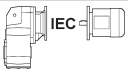
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
1.5	3219	2.5	1146.2	41715	**F804_1146 S1 M1LA4**	580	**F804_1146 P80 BN80A4**	578
1.5	3205	0.9	1141.4	18500	**F604_1141 S1 M1LA4**	562	**F604_1141 P80 BN80A4**	560
1.6	3063	1.6	1090.9	32375	**F704_1091 S1 M1LA4**	572	**F704_1091 P80 BN80A4**	570
1.6	2971	2.7	1058.1	41715	**F804_1058 S1 M1LA4**	580	**F804_1058 P80 BN80A4**	578
1.6	2959	1.0	1053.6	18500	**F604_1054 S1 M1LA4**	562	**F604_1054 P80 BN80A4**	560
1.8	2736	1.8	974.4	32375	**F704_974.4 S1 M1LA4**	572	**F704_974.4 P80 BN80A4**	570
1.8	2730	2.9	972.0	41715	**F804_972.0 S1 M1LA4**	580	**F804_972.0 P80 BN80A4**	578
1.8	2692	1.1	958.9	18500	**F604_958.9 S1 M1LA4**	562	**F604_958.9 P80 BN80A4**	560
1.9	2526	2.0	899.4	32375	**F704_899.4 S1 M1LA4**	572	**F704_899.4 P80 BN80A4**	570
1.9	2485	1.2	885.1	18500	**F604_885.1 S1 M1LA4**	562	**F604_885.1 P80 BN80A4**	560
2.1	2309	2.2	822.2	32375	**F704_822.2 S1 M1LA4**	572	**F704_822.2 P80 BN80A4**	570
2.1	2300	1.3	819.0	18500	**F604_819.0 S1 M1LA4**	562	**F604_819.0 P80 BN80A4**	560
2.3	2131	2.3	759.0	32375	**F704_759.0 S1 M1LA4**	572	**F704_759.0 P80 BN80A4**	570
2.3	2123	1.4	756.0	18500	**F604_756.0 S1 M1LA4**	562	**F604_756.0 P80 BN80A4**	560
2.5	1899	0.9	676.3	10065	**F514_676.3 S1 M1LA4**	552	**F514_676.3 P80 BN80A4**	550
2.6	1860	1.6	662.4	18500	**F604_662.4 S1 M1LA4**	562	**F604_662.4 P80 BN80A4**	560
2.6	1846	2.7	657.4	32375	**F704_657.4 S1 M1LA4**	572	**F704_657.4 P80 BN80A4**	570
2.8	1717	1.7	611.4	18500	**F604_611.4 S1 M1LA4**	562	**F604_611.4 P80 BN80A4**	560
2.8	1704	2.9	606.8	32375	**F704_606.8 S1 M1LA4**	572	**F704_606.8 P80 BN80A4**	570
3.2	1490	1.9	530.7	18500	**F604_530.7 S1 M1LA4**	562	**F604_530.7 P80 BN80A4**	560
3.2	1490	1.2	530.5	10980	**F514_530.5 S1 M1LA4**	552	**F514_530.5 P80 BN80A4**	550
3.5	1375	2.1	489.8	18500	**F604_489.8 S1 M1LA4**	562	**F604_489.8 P80 BN80A4**	560
3.9	1218	0.9	433.7	7107	**F414_433.7 S1 M1LA4**	542	**F414_433.7 P80 BN80A4**	540
4.0	1215	2.4	432.6	18500	**F604_432.6 S1 M1LA4**	562	**F604_432.6 P80 BN80A4**	560
4.0	1205	1.5	429.1	10980	**F514_429.1 S1 M1LA4**	552	**F514_429.1 P80 BN80A4**	550
4.3	1121	2.6	399.3	18500	**F604_399.3 S1 M1LA4**	562	**F604_399.3 P80 BN80A4**	560
4.9	1023	1.8	352.5	10980	**F513_352.5 S1 M1LA4**	552	**F513_352.5 P80 BN80A4**	550
5.0	1000	1.1	344.8	7795	**F413_344.8 S1 M1LA4**	542	**F413_344.8 P80 BN80A4**	540
5.4	921	2.0	317.3	10980	**F513_317.3 S1 M1LA4**	552	**F513_317.3 P80 BN80A4**	550
5.8	861	1.3	296.6	7795	**F413_296.6 S1 M1LA4**	542	**F413_296.6 P80 BN80A4**	540
6.0	830	2.2	285.9	10980	**F513_285.9 S1 M1LA4**	552	**F513_285.9 P80 BN80A4**	550
6.4	775	1.4	266.9	7795	**F413_266.9 S1 M1LA4**	542	**F413_266.9 P80 BN80A4**	540
6.5	761	2.4	262.1	10980	**F513_262.1 S1 M1LA4**	552	**F513_262.1 P80 BN80A4**	550
7.1	697	1.6	240.1	7795	**F413_240.1 S1 M1LA4**	542	**F413_240.1 P80 BN80A4**	540
7.1	696	2.6	239.8	10980	**F513_239.8 S1 M1LA4**	552	**F513_239.8 P80 BN80A4**	550
7.5	662	0.9	228.2	5404	**F313_228.2 S1 M1LA4**	532	**F313_228.2 P80 BN80A4**	530
7.8	639	1.7	220.1	7795	**F413_220.1 S1 M1LA4**	542	**F413_220.1 P80 BN80A4**	540
7.9	629	2.9	216.9	10980	**F513_216.9 S1 M1LA4**	552	**F513_216.9 P80 BN80A4**	550
8.5	587	1.0	202.3	5954	**F313_202.3 S1 M1LA4**	532	**F313_202.3 P80 BN80A4**	530
8.6	577	1.9	198.9	7795	**F413_198.9 S1 M1LA4**	542	**F413_198.9 P80 BN80A4**	540
9.2	538	1.1	185.4	5954	**F313_185.4 S1 M1LA4**	532	**F313_185.4 P80 BN80A4**	530
9.5	524	2.1	180.7	7795	**F413_180.7 S1 M1LA4**	542	**F413_180.7 P80 BN80A4**	540
10.1	489	2.2	168.7	7795	**F413_168.7 S1 M1LA4**	542	**F413_168.7 P80 BN80A4**	540
10.3	484	1.2	166.8	5954	**F313_166.8 S1 M1LA4**	532	**F313_166.8 P80 BN80A4**	530
11.3	438	1.4	150.8	5954	**F313_150.8 S1 M1LA4**	532	**F313_150.8 P80 BN80A4**	530
12.0	415	1.0	143.0	5673	**F253_143.0 S1 M1LA4**	522	**F253_143.0 P80 BN80A4**	520
12.2	408	1.5	140.7	5954	**F313_140.7 S1 M1LA4**	532	**F313_140.7 P80 BN80A4**	530
12.7	390	2.8	134.4	7795	**F413_134.4 S1 M1LA4**	542	**F413_134.4 P80 BN80A4**	540
13.3	372	1.6	128.4	5954	**F313_128.4 S1 M1LA4**	532	**F313_128.4 P80 BN80A4**	530
13.4	371	1.1	127.8	5883	**F253_127.8 S1 M1LA4**	522	**F253_127.8 P80 BN80A4**	520
15.1	328	1.2	113.0	5609	**F253_113.0 S1 M1LA4**	522	**F253_113.0 P80 BN80A4**	520
15.2	327	1.8	112.5	5954	**F313_112.5 S1 M1LA4**	532	**F313_112.5 P80 BN80A4**	530
16.2	306	1.3	105.4	5554	**F253_105.4 S1 M1LA4**	522	**F253_105.4 P80 BN80A4**	520
16.8	296	1.9	101.9	5954	**F313_101.9 S1 M1LA4**	532	**F313_101.9 P80 BN80A4**	530
17.9	277	1.4	95.5	5472	**F253_95.5 S1 M1LA4**	522	**F253_95.5 P80 BN80A4**	520
18.9	268	0.9	90.4	3347	**F202_90.4 S1 M1LA4**	512	**F202_90.4 P80 BN80A4**	510
19.6	254	2.2	87.4	5954	**F313_87.4 S1 M1LA4**	532	**F313_87.4 P80 BN80A4**	530
20.5	242	1.7	83.4	5344	**F253_83.4 S1 M1LA4**	522	**F253_83.4 P80 BN80A4**	520
21.7	229	2.4	78.9	5954	**F313_78.9 S1 M1LA4**	532	**F313_78.9 P80 BN80A4**	530
22.3	228	1.1	76.8	3668	**F202_76.8 S1 M1LA4**	512	**F202_76.8 P80 BN80A4**	510
22.3	222	1.8	76.6	5261	**F253_76.6 S1 M1LA4**	522	**F253_76.6 P80 BN80A4**	520
24.7	205	1.2	69.1	3650	**F202_69.1 S1 M1LA4**	512	**F202_69.1 P80 BN80A4**	510
24.8	200	2.8	69.1	5954	**F313_69.1 S1 M1LA4**	532	**F313_69.1 P80 BN80A4**	530
26.2	190	2.0	65.3	5097	**F253_65.3 S1 M1LA4**	522	**F253_65.3 P80 BN80A4**	520
27.6	183	1.4	61.9	3567	**F202_61.9 S1 M1LA4**	512	**F202_61.9 P80 BN80A4**	510
29.3	169	2.2	58.3	4968	**F253_58.3 S1 M1LA4**	522	**F253_58.3 P80 BN80A4**	520
30	168	1.5	56.7	3494	**F202_56.7 S1 M1LA4**	512	**F202_56.7 P80 BN80A4**	510
34	147	2.5	50.8	4822	**F253_50.8 S1 M1LA4**	522	**F253_50.8 P80 BN80A4**	520
34	150	1.6	50.7	3411	**F202_50.7 S1 M1LA4**	512	**F202_50.7 P80 BN80A4**	510

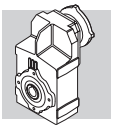


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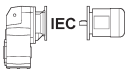
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
35	144	1.0	48.7	2441	**F102_48.7 S1 M1LA4**	502	**F102_48.7 P80 BN80A4**	500
38	132	2.8	45.6	4694			**F253_45.6 P80 BN80A4**	520
38	133	1.8	44.8	3310	**F202_44.8 S1 M1LA4**	512	**F202_44.8 P80 BN80A4**	510
38	132	1.1	44.7	2579	**F102_44.7 S1 M1LA4**	502	**F102_44.7 P80 BN80A4**	500
38	132	2.7	44.4	4703	**F252_44.4 S1 M1LA4**	522	**F252_44.4 P80 BN80A4**	520
41	124	1.9	41.8	3255	**F202_41.8 S1 M1LA4**	512	**F202_41.8 P80 BN80A4**	510
42	121	2.9	40.7	4602	**F252_40.7 S1 M1LA4**	522	**F252_40.7 P80 BN80A4**	520
43	118	1.2	39.6	2579	**F102_39.6 S1 M1LA4**	502	**F102_39.6 P80 BN80A4**	500
45	112	2.0	37.9	3173	**F202_37.9 S1 M1LA4**	512	**F202_37.9 P80 BN80A4**	510
48	105	1.3	35.3	2579	**F102_35.3 S1 M1LA4**	502	**F102_35.3 P80 BN80A4**	500
52	98	2.3	33.1	3063	**F202_33.1 S1 M1LA4**	512	**F202_33.1 P80 BN80A4**	510
52	98	1.4	33.0	2533	**F102_33.0 S1 M1LA4**	502	**F102_33.0 P80 BN80A4**	500
56	90	2.6	30.4	2989	**F202_30.4 S1 M1LA4**	512	**F202_30.4 P80 BN80A4**	510
58	88	1.5	29.6	2468	**F102_29.6 S1 M1LA4**	502	**F102_29.6 P80 BN80A4**	500
66	77	2.9	25.9	2870	**F202_25.9 S1 M1LA4**	512	**F202_25.9 P80 BN80A4**	510
66	76	1.7	25.8	2385	**F102_25.8 S1 M1LA4**	502	**F102_25.8 P80 BN80A4**	500
75	68	1.9	22.8	2312	**F102_22.8 S1 M1LA4**	502	**F102_22.8 P80 BN80A4**	500
88	57	2.2	19.3	2210	**F102_19.3 S1 M1LA4**	502	**F102_19.3 P80 BN80A4**	500
101	50	2.3	17.0	2128	**F102_17.0 S1 M1LA4**	502	**F102_17.0 P80 BN80A4**	500
117	43	2.5	14.6	2045	**F102_14.6 S1 M1LA4**	502	**F102_14.6 P80 BN80A4**	500
131	39	2.5	13.0	1971	**F102_13.0 S1 M1LA4**	502	**F102_13.0 P80 BN80A4**	500
148	34	2.6	11.5	1906	**F102_11.5 S1 M1LA4**	502	**F102_11.5 P80 BN80A4**	500
175	29	2.8	9.8	1814	**F102_9.8 S1 M1LA4**	502	**F102_9.8 P80 BN80A4**	500
199	25	3.0	8.6	1741	**F102_8.6 S1 M1LA4**	502	**F102_8.6 P80 BN80A4**	500

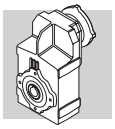
0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
0.83	7744	1.8	2098.7	50930	**F904_2099 S2 ME2SB4**	588	**F904_2099 P80 BE80B4**	586
0.88	7331	1.1	1986.8	41715	**F804_1987 S2 ME2SB4**	580	**F804_1987 P80 BE80B4**	578
0.90	7149	2.0	1937.3	50930	**F904_1937 S2 ME2SB4**	588	**F904_1937 P80 BE80B4**	586
0.95	6767	1.2	1834.0	41715	**F804_1834 S2 ME2SB4**	580	**F804_1834 P80 BE80B4**	578
1.0	6307	1.3	1709.1	41715	**F804_1709 S2 ME2SB4**	580	**F804_1709 P80 BE80B4**	578
1.0	6282	2.2	1702.3	50930	**F904_1702 S2 ME2SB4**	588	**F904_1702 P80 BE80B4**	586
1.1	5821	1.4	1577.6	41715	**F804_1578 S2 ME2SB4**	580	**F804_1578 P80 BE80B4**	578
1.1	5798	2.4	1571.4	50930	**F904_1571 S2 ME2SB4**	588	**F904_1571 P80 BE80B4**	586
1.2	5467	0.9	1481.5	32375	**F704_1481 S2 ME2SB4**	572	**F704_1481 P80 BE80B4**	570
1.2	5269	2.7	1427.9	50930	**F904_1428 S2 ME2SB4**	588	**F904_1428 P80 BE80B4**	586
1.3	5106	1.6	1383.8	41715	**F804_1384 S2 ME2SB4**	580	**F804_1384 P80 BE80B4**	578
1.3	5046	1.0	1367.5	32375	**F704_1368 S2 ME2SB4**	572	**F704_1368 P80 BE80B4**	570
1.3	4864	2.9	1318.1	50930	**F904_1318 S2 ME2SB4**	588	**F904_1318 P80 BE80B4**	586
1.4	4713	1.7	1277.3	41715	**F804_1277 S2 ME2SB4**	580	**F804_1277 P80 BE80B4**	578
1.5	4361	1.1	1181.8	32375	**F704_1182 S2 ME2SB4**	572	**F704_1182 P80 BE80B4**	570
1.5	4230	1.9	1146.2	41715	**F804_1146 S2 ME2SB4**	580	**F804_1146 P80 BE80B4**	578
1.6	4025	1.2	1090.9	32375	**F704_1091 S2 ME2SB4**	572	**F704_1091 P80 BE80B4**	570
1.6	3904	2.0	1058.1	41715	**F804_1058 S2 ME2SB4**	580	**F804_1058 P80 BE80B4**	578
1.8	3595	1.4	974.4	32375	**F704_974.4 S2 ME2SB4**	572	**F704_974.4 P80 BE80B4**	570
1.8	3587	2.2	972.0	41715	**F804_972.0 S2 ME2SB4**	580	**F804_972.0 P80 BE80B4**	578
1.9	3319	1.5	899.4	32375	**F704_899.4 S2 ME2SB4**	572	**F704_899.4 P80 BE80B4**	570
1.9	3311	2.4	897.3	41715	**F804_897.3 S2 ME2SB4**	580	**F804_897.3 P80 BE80B4**	578
2.1	3034	1.6	822.2	32375	**F704_822.2 S2 ME2SB4**	572	**F704_822.2 P80 BE80B4**	570
2.1	3022	1.0	819.0	18500	**F604_819.0 S2 ME2SB4**	562	**F604_819.0 P80 BE80B4**	560
2.3	2858	2.8	774.4	41715	**F804_774.4 S2 ME2SB4**	580	**F804_774.4 P80 BE80B4**	578
2.3	2801	1.8	759.0	32375	**F704_759.0 S2 ME2SB4**	572	**F704_759.0 P80 BE80B4**	570
2.3	2790	1.0	756.0	18500	**F604_756.0 S2 ME2SB4**	562	**F604_756.0 P80 BE80B4**	560
2.6	2444	1.2	662.4	18500	**F604_662.4 S2 ME2SB4**	562	**F604_662.4 P80 BE80B4**	560
2.7	2426	2.1	657.4	32375	**F704_657.4 S2 ME2SB4**	572	**F704_657.4 P80 BE80B4**	570
2.9	2256	1.3	611.4	18500	**F604_611.4 S2 ME2SB4**	562	**F604_611.4 P80 BE80B4**	560
2.9	2239	2.2	606.8	32375	**F704_606.8 S2 ME2SB4**	572	**F704_606.8 P80 BE80B4**	570
3.3	1958	1.5	530.7	18500	**F604_530.7 S2 ME2SB4**	562	**F604_530.7 P80 BE80B4**	560
3.3	1958	0.9	530.5	10065	**F514_530.5 S2 ME2SB4**	552	**F514_530.5 P80 BE80B4**	550



0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
3.4	1883	2.7	510.4	32375	**F704_510.4 S2 ME2SB4**	572	**F704_510.4 P80 BE80B4**	570
3.6	1808	1.6	489.8	18500	**F604_489.8 S2 ME2SB4**	562	**F604_489.8 P80 BE80B4**	560
3.7	1739	2.9	471.2	32375	**F704_471.2 S2 ME2SB4**	572	**F704_471.2 P80 BE80B4**	570
4.0	1596	1.8	432.6	18500	**F604_432.6 S2 ME2SB4**	562	**F604_432.6 P80 BE80B4**	560
4.1	1583	1.1	429.1	10980	**F514_429.1 S2 ME2SB4**	552	**F514_429.1 P80 BE80B4**	550
4.4	1474	2.0	399.3	18500	**F604_399.3 S2 ME2SB4**	562	**F604_399.3 P80 BE80B4**	560
5.0	1344	1.3	352.5	10980	**F513_352.5 S2 ME2SB4**	552	**F513_352.5 P80 BE80B4**	550
5.1	1261	2.3	341.7	18500	**F604_341.7 S2 ME2SB4**	562	**F604_341.7 P80 BE80B4**	560
5.5	1210	1.5	317.3	10980	**F513_317.3 S2 ME2SB4**	552	**F513_317.3 P80 BE80B4**	550
5.5	1164	2.5	315.4	18500	**F604_315.4 S2 ME2SB4**	562	**F604_315.4 P80 BE80B4**	560
5.9	1131	1.0	296.6	7795	**F413_296.6 S2 ME2SB4**	542	**F413_296.6 P80 BE80B4**	540
6.1	1090	1.7	285.9	10980	**F513_285.9 S2 ME2SB4**	552	**F513_285.9 P80 BE80B4**	550
6.2	1070	2.7	280.7	18500	**F603_280.7 S2 ME2SB4**	562	**F603_280.7 P80 BE80B4**	560
6.5	1018	1.1	266.9	7795	**F413_266.9 S2 ME2SB4**	542	**F413_266.9 P80 BE80B4**	540
6.7	999	1.8	262.1	10980	**F513_262.1 S2 ME2SB4**	552	**F513_262.1 P80 BE80B4**	550
6.7	988	2.9	259.1	18500	**F603_259.1 S2 ME2SB4**	562	**F603_259.1 P80 BE80B4**	560
7.3	916	1.2	240.1	7795	**F413_240.1 S2 ME2SB4**	542	**F413_240.1 P80 BE80B4**	540
7.3	915	2.0	239.8	10980	**F513_239.8 S2 ME2SB4**	552	**F513_239.8 P80 BE80B4**	550
7.9	839	1.3	220.1	7795	**F413_220.1 S2 ME2SB4**	542	**F413_220.1 P80 BE80B4**	540
8.0	827	2.2	216.9	10980	**F513_216.9 S2 ME2SB4**	552	**F513_216.9 P80 BE80B4**	550
8.6	772	2.3	202.4	10980	**F513_202.4 S2 ME2SB4**	552	**F513_202.4 P80 BE80B4**	550
8.8	758	1.5	198.9	7795	**F413_198.9 S2 ME2SB4**	542	**F413_198.9 P80 BE80B4**	540
9.7	689	1.6	180.7	7795	**F413_180.7 S2 ME2SB4**	542	**F413_180.7 P80 BE80B4**	540
10.3	643	1.7	168.7	7795	**F413_168.7 S2 ME2SB4**	542	**F413_168.7 P80 BE80B4**	540
10.5	636	0.9	166.8	5404	**F313_166.8 S2 ME2SB4**	532	**F313_166.8 P80 BE80B4**	530
10.5	632	2.9	165.6	10980	**F513_165.6 S2 ME2SB4**	552	**F513_165.6 P80 BE80B4**	550
11.6	575	1.0	150.8	5954	**F313_150.8 S2 ME2SB4**	532	**F313_150.8 P80 BE80B4**	530
12.4	537	1.1	140.7	5954	**F313_140.7 S2 ME2SB4**	532	**F313_140.7 P80 BE80B4**	530
13.0	512	2.1	134.4	7795	**F413_134.4 S2 ME2SB4**	542	**F413_134.4 P80 BE80B4**	540
13.6	489	1.2	128.4	5954	**F313_128.4 S2 ME2SB4**	532	**F313_128.4 P80 BE80B4**	530
15.4	431	0.9	113.0	5078	**F253_113.0 S2 ME2SB4**	522	**F253_113.0 P80 BE80B4**	520
15.5	429	1.4	112.5	5954	**F313_112.5 S2 ME2SB4**	532	**F313_112.5 P80 BE80B4**	530
16.5	404	2.7	106.0	7795	**F413_106.0 S2 ME2SB4**	542	**F413_106.0 P80 BE80B4**	540
16.6	402	1.0	105.4	5124	**F253_105.4 S2 ME2SB4**	522	**F253_105.4 P80 BE80B4**	520
17.1	388	1.5	101.9	5954	**F313_101.9 S2 ME2SB4**	532	**F313_101.9 P80 BE80B4**	530
18.3	364	1.1	95.5	4987	**F253_95.5 S2 ME2SB4**	522	**F253_95.5 P80 BE80B4**	520
20.0	333	1.7	87.4	5954	**F313_87.4 S2 ME2SB4**	532	**F313_87.4 P80 BE80B4**	530
20.9	318	1.3	83.4	4895	**F253_83.4 S2 ME2SB4**	522	**F253_83.4 P80 BE80B4**	520
22.1	301	1.8	78.9	5954	**F313_78.9 S2 ME2SB4**	532	**F313_78.9 P80 BE80B4**	530
22.8	292	1.4	76.6	4850	**F253_76.6 S2 ME2SB4**	522	**F253_76.6 P80 BE80B4**	520
25.2	269	0.9	69.1	3301	**F202_69.1 S2 ME2SB4**	512	**F202_69.1 P80 BE80B4**	510
25.3	263	2.1	69.1	5954	**F313_69.1 S2 ME2SB4**	532	**F313_69.1 P80 BE80B4**	530
26.7	249	1.5	65.3	4740	**F253_65.3 S2 ME2SB4**	522	**F253_65.3 P80 BE80B4**	520
27.8	239	2.3	62.8	5954	**F313_62.8 S2 ME2SB4**	532	**F313_62.8 P80 BE80B4**	530
28.2	241	1.0	61.9	3393	**F202_61.9 S2 ME2SB4**	512	**F202_61.9 P80 BE80B4**	510
29.9	222	1.7	58.3	4648	**F253_58.3 S2 ME2SB4**	522	**F253_58.3 P80 BE80B4**	520
31	221	1.1	56.7	3292	**F202_56.7 S2 ME2SB4**	512	**F202_56.7 P80 BE80B4**	510
33	199	2.7	52.1	5954	**F313_52.1 S2 ME2SB4**	532	**F313_52.1 P80 BE80B4**	530
34	194	1.9	50.8	4538	**F253_50.8 S2 ME2SB4**	522	**F253_50.8 P80 BE80B4**	520
34	198	1.2	50.7	3219	**F202_50.7 S2 ME2SB4**	512	**F202_50.7 P80 BE80B4**	510
38	174	2.1	45.6	4447	**F253_45.6 S2 ME2SB4**	522	**F253_45.6 P80 BE80B4**	520
39	175	1.3	44.8	3136	**F202_44.8 S2 ME2SB4**	512	**F202_44.8 P80 BE80B4**	510
39	173	2.1	44.4	4474	**F252_44.4 S2 ME2SB4**	522	**F252_44.4 P80 BE80B4**	520
42	163	1.4	41.8	3090	**F202_41.8 S2 ME2SB4**	512	**F202_41.8 P80 BE80B4**	510
43	159	2.2	40.7	4383	**F252_40.7 S2 ME2SB4**	522	**F252_40.7 P80 BE80B4**	520
44	154	0.9	39.6	2349	**F102_39.6 S2 ME2SB4**	502	**F102_39.6 P80 BE80B4**	500
46	148	1.6	37.9	3026	**F202_37.9 S2 ME2SB4**	512	**F202_37.9 P80 BE80B4**	510
48	142	2.6	36.4	4282	**F252_36.4 S2 ME2SB4**	522	**F252_36.4 P80 BE80B4**	520
49	138	1.0	35.3	2395	**F102_35.3 S2 ME2SB4**	502	**F102_35.3 P80 BE80B4**	500
53	129	1.8	33.1	2934	**F202_33.1 S2 ME2SB4**	512	**F202_33.1 P80 BE80B4**	510
53	128	1.1	33.0	2441	**F102_33.0 S2 ME2SB4**	502	**F102_33.0 P80 BE80B4**	500
54	125	3.0	32.2	4154	**F252_32.2 S2 ME2SB4**	522	**F252_32.2 P80 BE80B4**	520
57	118	1.9	30.4	2879	**F202_30.4 S2 ME2SB4**	512	**F202_30.4 P80 BE80B4**	510
59	115	1.1	29.6	2349	**F102_29.6 S2 ME2SB4**	502	**F102_29.6 P80 BE80B4**	500
67	101	2.2	25.9	2769	**F202_25.9 S2 ME2SB4**	512	**F202_25.9 P80 BE80B4**	510

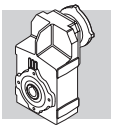


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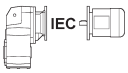
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
68	100	1.3	25.8	2275	**F102_25.8 S2 ME2SB4**	502	**F102_25.8 P80 BE80B4**	500
75	90	2.4	23.1	2687	**F202_23.1 S2 ME2SB4**	512	**F202_23.1 P80 BE80B4**	510
76	89	1.4	22.8	2210	**F102_22.8 S2 ME2SB4**	502	**F102_22.8 P80 BE80B4**	500
87	78	2.6	20.2	2595	**F202_20.2 S2 ME2SB4**	512	**F202_20.2 P80 BE80B4**	510
90	75	1.7	19.3	2128	**F102_19.3 S2 ME2SB4**	502	**F102_19.3 P80 BE80B4**	500
97	70	2.8	18.1	2513	**F202_18.1 S2 ME2SB4**	512	**F202_18.1 P80 BE80B4**	510
103	66	1.8	17.0	2054	**F102_17.0 S2 ME2SB4**	502	**F102_17.0 P80 BE80B4**	500
119	57	1.9	14.6	1980	**F102_14.6 S2 ME2SB4**	502	**F102_14.6 P80 BE80B4**	500
134	51	1.9	13.0	1906	**F102_13.0 S2 ME2SB4**	502	**F102_13.0 P80 BE80B4**	500
151	45	2.0	11.5	1851	**F102_11.5 S2 ME2SB4**	502	**F102_11.5 P80 BE80B4**	500
179	38	2.1	9.8	1768	**F102_9.8 S2 ME2SB4**	502	**F102_9.8 P80 BE80B4**	500
203	33	2.2	8.6	1704	**F102_8.6 S2 ME2SB4**	502	**F102_8.6 P80 BE80B4**	500
236	29	2.4	7.4	1630	**F102_7.4 S2 ME2SB4**	502	**F102_7.4 P80 BE80B4**	500

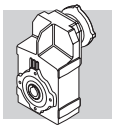
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n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
0.83	11333	1.2	2098.7	50930	**F904_2099 S3 ME3SA4**	588	**F904_2099 P90 BE90S4**	586
0.90	10461	1.3	1937.3	50930	**F904_1937 S3 ME3SA4**	588	**F904_1937 P90 BE90S4**	586
1.0	9193	1.5	1702.3	50930	**F904_1702 S3 ME3SA4**	588	**F904_1702 P90 BE90S4**	586
1.1	8519	0.9	1577.6	41715	**F804_1578 S3 ME3SA4**	580	**F804_1578 P90 BE90S4**	578
1.1	8485	1.6	1571.4	50930	**F904_1571 S3 ME3SA4**	588	**F904_1571 P90 BE90S4**	586
1.2	7711	1.8	1427.9	50930	**F904_1428 S3 ME3SA4**	588	**F904_1428 P90 BE90S4**	586
1.3	7472	1.1	1383.8	41715	**F804_1384 S3 ME3SA4**	580	**F804_1384 P90 BE90S4**	578
1.3	7118	2.0	1318.1	50930	**F904_1318 S3 ME3SA4**	588	**F904_1318 P90 BE90S4**	586
1.4	6898	1.2	1277.3	41715	**F804_1277 S3 ME3SA4**	580	**F804_1277 P90 BE90S4**	578
1.4	6507	2.2	1204.9	50930	**F904_1205 S3 ME3SA4**	588	**F904_1205 P90 BE90S4**	586
1.5	6190	1.3	1146.2	41715	**F804_1146 S3 ME3SA4**	580	**F804_1146 P90 BE90S4**	578
1.6	6006	2.3	1112.3	50930	**F904_1112 S3 ME3SA4**	588	**F904_1112 P90 BE90S4**	586
1.6	5714	1.4	1058.1	41715	**F804_1058 S3 ME3SA4**	580	**F804_1058 P90 BE90S4**	578
1.8	5325	2.6	986.0	50930	**F904_986.0 S3 ME3SA4**	588	**F904_986.0 P90 BE90S4**	586
1.8	5262	1.0	974.4	32375	**F704_974.4 S3 ME3SA4**	572	**F704_974.4 P90 BE90S4**	570
1.8	5249	1.5	972.0	41715	**F804_972.0 S3 ME3SA4**	580	**F804_972.0 P90 BE90S4**	578
1.9	4915	2.8	910.2	50930	**F904_910.2 S3 ME3SA4**	588	**F904_910.2 P90 BE90S4**	586
1.9	4857	1.0	899.4	32375	**F704_899.4 S3 ME3SA4**	572	**F704_899.4 P90 BE90S4**	570
1.9	4845	1.7	897.3	41715	**F804_897.3 S3 ME3SA4**	580	**F804_897.3 P90 BE90S4**	578
2.1	4440	1.1	822.2	32375	**F704_822.2 S3 ME3SA4**	572	**F704_822.2 P90 BE90S4**	570
2.2	4182	1.9	774.4	41715	**F804_774.4 S3 ME3SA4**	580	**F804_774.4 P90 BE90S4**	578
2.3	4098	1.2	759.0	32375	**F704_759.0 S3 ME3SA4**	572	**F704_759.0 P90 BE90S4**	570
2.4	3860	2.1	714.9	41715	**F804_714.9 S3 ME3SA4**	580	**F804_714.9 P90 BE90S4**	578
2.6	3550	1.4	657.4	32375	**F704_657.4 S3 ME3SA4**	572	**F704_657.4 P90 BE90S4**	570
2.8	3299	2.4	610.9	41715	**F804_610.9 S3 ME3SA4**	580	**F804_610.9 P90 BE90S4**	578
2.9	3277	1.5	606.8	32375	**F704_606.8 S3 ME3SA4**	572	**F704_606.8 P90 BE90S4**	570
3.1	3045	2.6	563.9	41715	**F804_563.9 S3 ME3SA4**	580	**F804_563.9 P90 BE90S4**	578
3.3	2866	1.0	530.7	18500	**F604_530.7 S3 ME3SA4**	562	**F604_530.7 P90 BE90S4**	560
3.4	2756	1.8	510.4	32375	**F704_510.4 S3 ME3SA4**	572	**F704_510.4 P90 BE90S4**	570
3.6	2645	1.1	489.8	18500	**F604_489.8 S3 ME3SA4**	562	**F604_489.8 P90 BE90S4**	560
3.7	2544	2.0	471.2	32375	**F704_471.2 S3 ME3SA4**	572	**F704_471.2 P90 BE90S4**	570
4.0	2336	1.2	432.6	18500	**F604_432.6 S3 ME3SA4**	562	**F604_432.6 P90 BE90S4**	560
4.3	2179	2.3	403.5	32375	**F704_403.5 S3 ME3SA4**	572	**F704_403.5 P90 BE90S4**	570
4.4	2156	1.3	399.3	18500	**F604_399.3 S3 ME3SA4**	562	**F604_399.3 P90 BE90S4**	560
4.7	2011	2.5	372.5	32375	**F704_372.5 S3 ME3SA4**	572	**F704_372.5 P90 BE90S4**	570
4.9	1967	0.9	352.5	10065	**F513_352.5 S3 ME3SA4**	552	**F513_352.5 P90 BE90S4**	550
5.1	1845	1.6	341.7	18500	**F604_341.7 S3 ME3SA4**	562	**F604_341.7 P90 BE90S4**	560
5.5	1770	1.0	317.3	10980	**F513_317.3 S3 ME3SA4**	552	**F513_317.3 P90 BE90S4**	550
5.5	1703	1.7	315.4	18500	**F604_315.4 S3 ME3SA4**	562	**F604_315.4 P90 BE90S4**	560

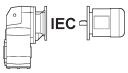


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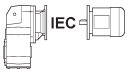
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
6.1	1596	1.1	285.9	10980	**F513_285.9 S3 ME3SA4**	552	**F513_285.9 P90 BE90S4**	550
6.2	1566	1.9	280.7	18500	**F603_280.7 S3 ME3SA4**	562	**F603_280.7 P90 BE90S4**	560
6.6	1463	1.2	262.1	10980	**F513_262.1 S3 ME3SA4**	552	**F513_262.1 P90 BE90S4**	550
6.7	1446	2.0	259.1	18500	**F603_259.1 S3 ME3SA4**	562	**F603_259.1 P90 BE90S4**	560
7.3	1338	1.3	239.8	10980	**F513_239.8 S3 ME3SA4**	552	**F513_239.8 P90 BE90S4**	550
7.4	1316	2.2	235.8	18500	**F603_235.8 S3 ME3SA4**	562	**F603_235.8 P90 BE90S4**	560
8.0	1214	2.4	217.6	18500	**F603_217.6 S3 ME3SA4**	562	**F603_217.6 P90 BE90S4**	560
8.0	1210	1.5	216.9	10980	**F513_216.9 S3 ME3SA4**	552	**F513_216.9 P90 BE90S4**	550
8.6	1129	1.6	202.4	10980	**F513_202.4 S3 ME3SA4**	552	**F513_202.4 P90 BE90S4**	550
8.6	1124	2.6	201.4	18500	**F603_201.4 S3 ME3SA4**	562	**F603_201.4 P90 BE90S4**	560
8.7	1110	1.0	198.9	7795	**F413_198.9 S3 ME3SA4**	542	**F413_198.9 P90 BE90S4**	540
9.4	1037	2.8	185.9	18500	**F603_185.9 S3 ME3SA4**	562	**F603_185.9 P90 BE90S4**	560
9.6	1009	1.1	180.7	7795	**F413_180.7 S3 ME3SA4**	542	**F413_180.7 P90 BE90S4**	540
10.3	941	1.2	168.7	7795	**F413_168.7 S3 ME3SA4**	542	**F413_168.7 P90 BE90S4**	540
10.5	924	1.9	165.6	10980	**F513_165.6 S3 ME3SA4**	552	**F513_165.6 P90 BE90S4**	550
12.9	750	1.5	134.4	7795	**F413_134.4 S3 ME3SA4**	542	**F413_134.4 P90 BE90S4**	540
13.4	725	2.5	129.9	10980	**F513_129.9 S3 ME3SA4**	552	**F513_129.9 P90 BE90S4**	550
15.5	628	0.9	112.5	5404	**F313_112.5 S3 ME3SA4**	532	**F313_112.5 P90 BE90S4**	530
16.4	592	1.9	106.0	7795	**F413_106.0 S3 ME3SA4**	542	**F413_106.0 P90 BE90S4**	540
17.1	569	1.0	101.9	5954	**F313_101.9 S3 ME3SA4**	532	**F313_101.9 P90 BE90S4**	530
19.9	488	1.1	87.4	5954	**F313_87.4 S3 ME3SA4**	532	**F313_87.4 P90 BE90S4**	530
20.5	474	2.2	84.9	7795	**F413_84.9 S3 ME3SA4**	542	**F413_84.9 P90 BE90S4**	540
22.1	440	1.3	78.9	5954	**F313_78.9 S3 ME3SA4**	532	**F313_78.9 P90 BE90S4**	530
22.7	427	0.9	76.6	4282	**F253_76.6 S3 ME3SA4**	522	**F253_76.6 P90 BE90S4**	520
25.2	385	1.4	69.1	5954	**F313_69.1 S3 ME3SA4**	532	**F313_69.1 P90 BE90S4**	530
26.2	371	2.7	66.5	7795	**F413_66.5 S3 ME3SA4**	542	**F413_66.5 P90 BE90S4**	540
26.6	365	1.0	65.3	4218	**F253_65.3 S3 ME3SA4**	522	**F253_65.3 P90 BE90S4**	520
27.7	350	1.6	62.8	5954	**F313_62.8 S3 ME3SA4**	532	**F313_62.8 P90 BE90S4**	530
29.8	326	1.1	58.3	4118	**F253_58.3 S3 ME3SA4**	522	**F253_58.3 P90 BE90S4**	520
33	291	1.8	52.1	5954	**F313_52.1 S3 ME3SA4**	532	**F313_52.1 P90 BE90S4**	530
34	283	1.3	50.8	4072	**F253_50.8 S3 ME3SA4**	522	**F253_50.8 P90 BE90S4**	520
37	265	2.2	47.5	5954	**F313_47.5 S3 ME3SA4**	532	**F313_47.5 P90 BE90S4**	530
38	254	1.5	45.6	4026	**F253_45.6 S3 ME3SA4**	522	**F253_45.6 P90 BE90S4**	520
39	256	0.9	44.8	2779	**F202_44.8 S3 ME3SA4**	512	**F202_44.8 P90 BE90S4**	510
39	254	2.2	44.6	5954	**F312_44.6 S3 ME3SA4**	532	**F312_44.6 P90 BE90S4**	530
39	253	1.4	44.4	4090	**F252_44.4 S3 ME3SA4**	522	**F252_44.4 P90 BE90S4**	520
42	238	1.0	41.8	2843	**F202_41.8 S3 ME3SA4**	512	**F202_41.8 P90 BE90S4**	510
43	232	1.5	40.7	4035	**F252_40.7 S3 ME3SA4**	522	**F252_40.7 P90 BE90S4**	520
43	230	2.4	40.4	5954	**F312_40.4 S3 ME3SA4**	532	**F312_40.4 P90 BE90S4**	530
46	216	1.1	37.9	2797	**F202_37.9 S3 ME3SA4**	512	**F202_37.9 P90 BE90S4**	510
46	215	2.6	37.7	5954	**F312_37.7 S3 ME3SA4**	532	**F312_37.7 P90 BE90S4**	530
48	208	1.8	36.4	3962	**F252_36.4 S3 ME3SA4**	522	**F252_36.4 P90 BE90S4**	520
51	196	2.8	34.4	5954	**F312_34.4 S3 ME3SA4**	532	**F312_34.4 P90 BE90S4**	530
53	189	1.2	33.1	2733	**F202_33.1 S3 ME3SA4**	512	**F202_33.1 P90 BE90S4**	510
54	183	2.0	32.2	3880	**F252_32.2 S3 ME3SA4**	522	**F252_32.2 P90 BE90S4**	520
57	173	1.3	30.4	2687	**F202_30.4 S3 ME3SA4**	512	**F202_30.4 P90 BE90S4**	510
58	171	2.2	30.0	3834	**F252_30.0 S3 ME3SA4**	522	**F252_30.0 P90 BE90S4**	520
64	155	2.4	27.2	3752	**F252_27.2 S3 ME3SA4**	522	**F252_27.2 P90 BE90S4**	520
67	148	1.5	25.9	2604	**F202_25.9 S3 ME3SA4**	512	**F202_25.9 P90 BE90S4**	510
73	135	2.8	23.8	3651	**F252_23.8 S3 ME3SA4**	522	**F252_23.8 P90 BE90S4**	520
75	132	1.6	23.1	2549	**F202_23.1 S3 ME3SA4**	512	**F202_23.1 P90 BE90S4**	510
76	130	1.0	22.8	1934	**F102_22.8 S3 ME3SA4**	502	**F102_22.8 P90 BE90S4**	500
80	124	3.0	21.8	3587	**F252_21.8 S3 ME3SA4**	522	**F252_21.8 P90 BE90S4**	520
86	115	1.8	20.2	2467	**F202_20.2 S3 ME3SA4**	512	**F202_20.2 P90 BE90S4**	510
90	110	1.1	19.3	1999	**F102_19.3 S3 ME3SA4**	502	**F102_19.3 P90 BE90S4**	500
96	103	1.9	18.1	2403	**F202_18.1 S3 ME3SA4**	512	**F202_18.1 P90 BE90S4**	510
102	97	1.2	17.0	1943	**F102_17.0 S3 ME3SA4**	502	**F102_17.0 P90 BE90S4**	500
118	84	2.2	14.8	2293	**F202_14.8 S3 ME3SA4**	512	**F202_14.8 P90 BE90S4**	510
119	83	1.3	14.6	1888	**F102_14.6 S3 ME3SA4**	502	**F102_14.6 P90 BE90S4**	500
134	74	1.3	13.0	1824	**F102_13.0 S3 ME3SA4**	502	**F102_13.0 P90 BE90S4**	500

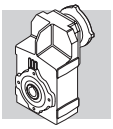


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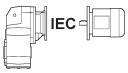
n_2 rpm	M_2 Nm	S	i	R_{n2} N				
151	66	1.3	11.5	1768	**F102_11.5 S3 ME3SA4**	502	**F102_11.5 P90 BE90S4**	500
155	64	2.5	11.2	2118	**F202_11.2 S3 ME3SA4**	512	**F202_11.2 P90 BE90S4**	510
173	57	2.7	10.0	2017	**F202_10.0 S3 ME3SA4**	512	**F202_10.0 P90 BE90S4**	510
178	56	1.5	9.8	1695	**F102_9.8 S3 ME3SA4**	502	**F102_9.8 P90 BE90S4**	500
199	50	2.9	8.7	1981	**F202_8.7 S3 ME3SA4**	512	**F202_8.7 P90 BE90S4**	510
203	49	1.5	8.6	1639	**F102_8.6 S3 ME3SA4**	502	**F102_8.6 P90 BE90S4**	500
222	45	3.0	7.8	1926	**F202_7.8 S3 ME3SA4**	512	**F202_7.8 P90 BE90S4**	510
235	42	1.7	7.4	1584	**F102_7.4 S3 ME3SA4**	502	**F102_7.4 P90 BE90S4**	500

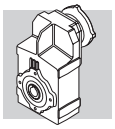
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n_2 rpm	M_2 Nm	S	i	R_{n2} N				
0.83	15488	0.9	2098.7	50930	**F904_2099 S3 ME3SB4**	588	**F904_2099 P90 BE90LA4**	586
0.90	14297	1.0	1937.3	50930	**F904_1937 S3 ME3SB4**	588	**F904_1937 P90 BE90LA4**	586
1.0	12563	1.1	1702.3	50930	**F904_1702 S3 ME3SB4**	588	**F904_1702 P90 BE90LA4**	586
1.1	11597	1.2	1571.4	50930	**F904_1571 S3 ME3SB4**	588	**F904_1571 P90 BE90LA4**	586
1.2	10538	1.3	1427.9	50930	**F904_1428 S3 ME3SB4**	588	**F904_1428 P90 BE90LA4**	586
1.3	9727	1.4	1318.1	50930	**F904_1318 S3 ME3SB4**	588	**F904_1318 P90 BE90LA4**	586
1.4	8893	1.6	1204.9	50930	**F904_1205 S3 ME3SB4**	588	**F904_1205 P90 BE90LA4**	586
1.5	8459	0.9	1146.2	41715	**F804_1146 S3 ME3SB4**	580	**F804_1146 P90 BE90LA4**	578
1.6	8208	1.7	1112.3	50930	**F904_1112 S3 ME3SB4**	588	**F904_1112 P90 BE90LA4**	586
1.6	7809	1.0	1058.1	41715	**F804_1058 S3 ME3SB4**	580	**F804_1058 P90 BE90LA4**	578
1.8	7277	1.9	986.0	50930	**F904_986.0 S3 ME3SB4**	588	**F904_986.0 P90 BE90LA4**	586
1.8	7174	1.1	972.0	41715	**F804_972.0 S3 ME3SB4**	580	**F804_972.0 P90 BE90LA4**	578
1.9	6717	2.1	910.2	50930	**F904_910.2 S3 ME3SB4**	588	**F904_910.2 P90 BE90LA4**	586
1.9	6622	1.2	897.3	41715	**F804_897.3 S3 ME3SB4**	580	**F804_897.3 P90 BE90LA4**	578
2.2	5715	1.4	774.4	41715	**F804_774.4 S3 ME3SB4**	580	**F804_774.4 P90 BE90LA4**	578
2.2	5708	2.5	773.4	50930	**F904_773.4 S3 ME3SB4**	588	**F904_773.4 P90 BE90LA4**	586
2.4	5276	1.5	714.9	41715	**F804_714.9 S3 ME3SB4**	580	**F804_714.9 P90 BE90LA4**	578
2.4	5269	2.7	714.0	50930	**F904_714.0 S3 ME3SB4**	588	**F904_714.0 P90 BE90LA4**	586
2.6	4852	1.0	657.4	32375	**F704_657.4 S3 ME3SB4**	572	**F704_657.4 P90 BE90LA4**	570
2.8	4508	1.8	610.9	41715	**F804_610.9 S3 ME3SB4**	580	**F804_610.9 P90 BE90LA4**	578
2.9	4478	1.1	606.8	32375	**F704_606.8 S3 ME3SB4**	572	**F704_606.8 P90 BE90LA4**	570
3.1	4161	1.9	563.9	41715	**F804_563.9 S3 ME3SB4**	580	**F804_563.9 P90 BE90LA4**	578
3.4	3767	1.3	510.4	32375	**F704_510.4 S3 ME3SB4**	572	**F704_510.4 P90 BE90LA4**	570
3.6	3610	2.2	489.1	41715	**F804_489.1 S3 ME3SB4**	580	**F804_489.1 P90 BE90LA4**	578
3.7	3477	1.4	471.2	32375	**F704_471.2 S3 ME3SB4**	572	**F704_471.2 P90 BE90LA4**	570
3.9	3332	2.4	451.5	41715	**F804_451.5 S3 ME3SB4**	580	**F804_451.5 P90 BE90LA4**	578
4.0	3193	0.9	432.6	18500	**F604_432.6 S3 ME3SB4**	562	**F604_432.6 P90 BE90LA4**	560
4.3	2978	1.7	403.5	32375	**F704_403.5 S3 ME3SB4**	572	**F704_403.5 P90 BE90LA4**	570
4.4	2947	1.0	399.3	18500	**F604_399.3 S3 ME3SB4**	562	**F604_399.3 P90 BE90LA4**	560
4.5	2828	2.8	383.2	41715	**F804_383.2 S3 ME3SB4**	580	**F804_383.2 P90 BE90LA4**	578
4.7	2749	1.8	372.5	32375	**F704_372.5 S3 ME3SB4**	572	**F704_372.5 P90 BE90LA4**	570
5.1	2522	1.2	341.7	18500	**F604_341.7 S3 ME3SB4**	562	**F604_341.7 P90 BE90LA4**	560
5.5	2328	1.2	315.4	18500	**F604_315.4 S3 ME3SB4**	562	**F604_315.4 P90 BE90LA4**	560
5.7	2246	2.2	304.3	32375	**F704_304.3 S3 ME3SB4**	572	**F704_304.3 P90 BE90LA4**	570
6.2	2073	2.4	280.9	32375	**F704_280.9 S3 ME3SB4**	572	**F704_280.9 P90 BE90LA4**	570
6.2	2140	1.4	280.7	18500	**F603_280.7 S3 ME3SB4**	562	**F603_280.7 P90 BE90LA4**	560
6.6	1999	0.9	262.1	10065	**F513_262.1 S3 ME3SB4**	552	**F513_262.1 P90 BE90LA4**	550
6.7	1976	1.5	259.1	18500	**F603_259.1 S3 ME3SB4**	562	**F603_259.1 P90 BE90LA4**	560
7.3	1829	1.0	239.8	10980	**F513_239.8 S3 ME3SB4**	552	**F513_239.8 P90 BE90LA4**	550
7.4	1798	1.6	235.8	18500	**F603_235.8 S3 ME3SB4**	562	**F603_235.8 P90 BE90LA4**	560
7.4	1731	2.9	234.6	32375	**F704_234.6 S3 ME3SB4**	572	**F704_234.6 P90 BE90LA4**	570
8.0	1660	1.7	217.6	18500	**F603_217.6 S3 ME3SB4**	562	**F603_217.6 P90 BE90LA4**	560
8.0	1654	1.1	216.9	10980	**F513_216.9 S3 ME3SB4**	552	**F513_216.9 P90 BE90LA4**	550



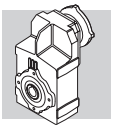
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n_2 rpm	M_2 Nm	S	i	R_{n2} N				
8.6	1543	1.2	202.4	10980	**F513_202.4 S3 ME3SB4**	552	**F513_202.4 P90 BE90LA4**	550
8.6	1536	1.9	201.4	18500	**F603_201.4 S3 ME3SB4**	562	**F603_201.4 P90 BE90LA4**	560
9.4	1418	2.0	185.9	18500	**F603_185.9 S3 ME3SB4**	562	**F603_185.9 P90 BE90LA4**	560
10.5	1263	1.4	165.6	10980	**F513_165.6 S3 ME3SB4**	552	**F513_165.6 P90 BE90LA4**	550
10.7	1242	2.3	162.9	18500	**F603_162.9 S3 ME3SB4**	562	**F603_162.9 P90 BE90LA4**	560
11.6	1147	2.5	150.4	18500	**F603_150.4 S3 ME3SB4**	562	**F603_150.4 P90 BE90LA4**	560
12.9	1025	1.1	134.4	7795	**F413_134.4 S3 ME3SB4**	542	**F413_134.4 P90 BE90LA4**	540
13.3	995	2.9	130.5	18500	**F603_130.5 S3 ME3SB4**	562	**F603_130.5 P90 BE90LA4**	560
13.4	991	1.8	129.9	10980	**F513_129.9 S3 ME3SB4**	552	**F513_129.9 P90 BE90LA4**	550
16.4	808	1.4	106.0	7795	**F413_106.0 S3 ME3SB4**	542	**F413_106.0 P90 BE90LA4**	540
16.6	801	2.2	105.1	10980	**F513_105.1 S3 ME3SB4**	552	**F513_105.1 P90 BE90LA4**	550
20.5	647	1.6	84.9	7795	**F413_84.9 S3 ME3SB4**	542	**F413_84.9 P90 BE90LA4**	540
20.9	635	2.8	83.2	10980	**F513_83.2 S3 ME3SB4**	552	**F513_83.2 P90 BE90LA4**	550
22.1	601	0.9	78.9	5404	**F313_78.9 S3 ME3SB4**	532	**F313_78.9 P90 BE90LA4**	530
25.2	527	1.1	69.1	5954	**F313_69.1 S3 ME3SB4**	532	**F313_69.1 P90 BE90LA4**	530
26.2	507	2.0	66.5	7795	**F413_66.5 S3 ME3SB4**	542	**F413_66.5 P90 BE90LA4**	540
27.7	479	1.2	62.8	5954	**F313_62.8 S3 ME3SB4**	532	**F313_62.8 P90 BE90LA4**	530
28.9	459	2.2	60.2	7795	**F413_60.2 S3 ME3SB4**	542	**F413_60.2 P90 BE90LA4**	540
33	397	1.4	52.1	5954	**F313_52.1 S3 ME3SB4**	532	**F313_52.1 P90 BE90LA4**	530
34	393	2.6	51.5	7795	**F413_51.5 S3 ME3SB4**	542	**F413_51.5 P90 BE90LA4**	540
34	387	1.0	50.8	3706	**F253_50.8 S3 ME3SB4**	522	**F253_50.8 P90 BE90LA4**	520
36	373	2.7	47.9	7795	**F412_47.9 S3 ME3SB4**	542	**F412_47.9 P90 BE90LA4**	540
37	363	1.6	47.5	5954	**F313_47.5 S3 ME3SB4**	532	**F313_47.5 P90 BE90LA4**	530
38	347	1.1	45.6	3550	**F253_45.6 S3 ME3SB4**	522	**F253_45.6 P90 BE90LA4**	520
39	348	1.6	44.6	5954	**F312_44.6 S3 ME3SB4**	532	**F312_44.6 P90 BE90LA4**	530
39	346	1.0	44.4	3825	**F252_44.4 S3 ME3SB4**	522	**F252_44.4 P90 BE90LA4**	520
43	317	1.1	40.7	3633	**F252_40.7 S3 ME3SB4**	522	**F252_40.7 P90 BE90LA4**	520
43	314	1.8	40.4	5954	**F312_40.4 S3 ME3SB4**	532	**F312_40.4 P90 BE90LA4**	530
46	293	1.9	37.7	5954	**F312_37.7 S3 ME3SB4**	532	**F312_37.7 P90 BE90LA4**	530
48	284	1.3	36.4	3605	**F252_36.4 S3 ME3SB4**	522	**F252_36.4 P90 BE90LA4**	520
51	268	2.1	34.4	5954	**F312_34.4 S3 ME3SB4**	532	**F312_34.4 P90 BE90LA4**	530
54	251	1.5	32.2	3559	**F252_32.2 S3 ME3SB4**	522	**F252_32.2 P90 BE90LA4**	520
57	237	1.0	30.4	2476	**F202_30.4 S3 ME3SB4**	512	**F202_30.4 P90 BE90LA4**	510
58	235	2.4	30.1	5954	**F312_30.1 S3 ME3SB4**	532	**F312_30.1 P90 BE90LA4**	530
58	234	1.6	30.0	3532	**F252_30.0 S3 ME3SB4**	522	**F252_30.0 P90 BE90LA4**	520
64	212	2.6	27.3	5954	**F312_27.3 S3 ME3SB4**	532	**F312_27.3 P90 BE90LA4**	530
64	212	1.8	27.2	3486	**F252_27.2 S3 ME3SB4**	522	**F252_27.2 P90 BE90LA4**	520
67	202	1.1	25.9	2421	**F202_25.9 S3 ME3SB4**	512	**F202_25.9 P90 BE90LA4**	510
73	185	2.0	23.8	3413	**F252_23.8 S3 ME3SB4**	522	**F252_23.8 P90 BE90LA4**	520
75	180	1.2	23.1	2384	**F202_23.1 S3 ME3SB4**	512	**F202_23.1 P90 BE90LA4**	510
80	170	2.2	21.8	3367	**F252_21.8 S3 ME3SB4**	522	**F252_21.8 P90 BE90LA4**	520
86	157	1.3	20.2	2320	**F202_20.2 S3 ME3SB4**	512	**F202_20.2 P90 BE90LA4**	510
93	145	2.6	18.6	3267	**F252_18.6 S3 ME3SB4**	522	**F252_18.6 P90 BE90LA4**	520
96	141	1.4	18.1	2274	**F202_18.1 S3 ME3SB4**	512	**F202_18.1 P90 BE90LA4**	510
105	129	2.9	16.6	3193	**F252_16.6 S3 ME3SB4**	522	**F252_16.6 P90 BE90LA4**	520
118	115	1.6	14.8	2182	**F202_14.8 S3 ME3SB4**	512	**F202_14.8 P90 BE90LA4**	510
119	114	1.0	14.6	1750	**F102_14.6 S3 ME3SB4**	502	**F102_14.6 P90 BE90LA4**	500
134	101	0.9	13.0	1612	**F102_13.0 S3 ME3SB4**	502	**F102_13.0 P90 BE90LA4**	500
151	90	1.0	11.5	1068	**F102_11.5 S3 ME3SB4**	502	**F102_11.5 P90 BE90LA4**	500
155	88	1.9	11.2	2036	**F202_11.2 S3 ME3SB4**	512	**F202_11.2 P90 BE90LA4**	510
173	78	1.9	10.0	1981	**F202_10.0 S3 ME3SB4**	512	**F202_10.0 P90 BE90LA4**	510
178	76	1.1	9.8	1621	**F102_9.8 S3 ME3SB4**	502	**F102_9.8 P90 BE90LA4**	500
199	68	2.1	8.7	1917	**F202_8.7 S3 ME3SB4**	512	**F202_8.7 P90 BE90LA4**	510
203	67	1.1	8.6	1575	**F102_8.6 S3 ME3SB4**	502	**F102_8.6 P90 BE90LA4**	500
222	61	2.2	7.8	1862	**F202_7.8 S3 ME3SB4**	512	**F202_7.8 P90 BE90LA4**	510
235	58	1.2	7.4	1520	**F102_7.4 S3 ME3SB4**	502	**F102_7.4 P90 BE90LA4**	500
271	50	2.4	6.4	1770	**F202_6.4 S3 ME3SB4**	512	**F202_6.4 P90 BE90LA4**	510

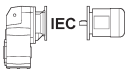


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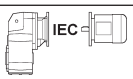
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1.2	15421	0.9	1427.9	50930	**F904_1428 S3 ME3LA4**	588	**F904_1428 P100 BE100LA4**	586
1.3	14235	1.0	1318.1	50930	**F904_1318 S3 ME3LA4**	588	**F904_1318 P100 BE100LA4**	586
1.4	13013	1.1	1204.9	50930	**F904_1205 S3 ME3LA4**	588	**F904_1205 P100 BE100LA4**	586
1.6	12012	1.2	1112.3	50930	**F904_1112 S3 ME3LA4**	588	**F904_1112 P100 BE100LA4**	586
1.8	10649	1.3	986.0	50930	**F904_986.0 S3 ME3LA4**	588	**F904_986.0 P100 BE100LA4**	586
1.9	9830	1.4	910.2	50930	**F904_910.2 S3 ME3LA4**	588	**F904_910.2 P100 BE100LA4**	586
2.3	8364	1.0	774.4	41715	**F804_774.4 S3 ME3LA4**	580	**F804_774.4 P100 BE100LA4**	578
2.3	8353	1.7	773.4	50930	**F904_773.4 S3 ME3LA4**	588	**F904_773.4 P100 BE100LA4**	586
2.4	7720	1.0	714.9	41715	**F804_714.9 S3 ME3LA4**	580	**F804_714.9 P100 BE100LA4**	578
2.4	7711	1.8	714.0	50930	**F904_714.0 S3 ME3LA4**	588	**F904_714.0 P100 BE100LA4**	586
2.8	6757	2.1	625.6	50930	**F904_625.6 S3 ME3LA4**	588	**F904_625.6 P100 BE100LA4**	586
2.9	6597	1.2	610.9	41715	**F804_610.9 S3 ME3LA4**	580	**F804_610.9 P100 BE100LA4**	578
3.0	6237	2.2	577.5	50930	**F904_577.5 S3 ME3LA4**	588	**F904_577.5 P100 BE100LA4**	586
3.1	6090	1.3	563.9	41715	**F804_563.9 S3 ME3LA4**	580	**F804_563.9 P100 BE100LA4**	578
3.4	5512	0.9	510.4	32375	**F704_510.4 S3 ME3LA4**	572	**F704_510.4 P100 BE100LA4**	570
3.5	5352	2.6	495.6	50930	**F904_495.6 S3 ME3LA4**	588	**F904_495.6 P100 BE100LA4**	586
3.6	5282	1.5	489.1	41715	**F804_489.1 S3 ME3LA4**	580	**F804_489.1 P100 BE100LA4**	578
3.7	5088	1.0	471.2	32375	**F704_471.2 S3 ME3LA4**	572	**F704_471.2 P100 BE100LA4**	570
3.8	4940	2.8	457.5	50930	**F904_457.5 S3 ME3LA4**	588	**F904_457.5 P100 BE100LA4**	586
3.9	4876	1.6	451.5	41715	**F804_451.5 S3 ME3LA4**	580	**F804_451.5 P100 BE100LA4**	578
4.3	4358	1.1	403.5	32375	**F704_403.5 S3 ME3LA4**	572	**F704_403.5 P100 BE100LA4**	570
4.6	4138	1.9	383.2	41715	**F804_383.2 S3 ME3LA4**	580	**F804_383.2 P100 BE100LA4**	578
4.7	4023	1.2	372.5	32375	**F704_372.5 S3 ME3LA4**	572	**F704_372.5 P100 BE100LA4**	570
4.9	3820	2.1	353.7	41715	**F804_353.7 S3 ME3LA4**	580	**F804_353.7 P100 BE100LA4**	578
5.7	3287	1.5	304.3	32375	**F704_304.3 S3 ME3LA4**	572	**F704_304.3 P100 BE100LA4**	570
5.9	3205	2.5	296.7	41715	**F804_296.7 S3 ME3LA4**	580	**F804_296.7 P100 BE100LA4**	578
6.2	3034	1.6	280.9	32375	**F704_280.9 S3 ME3LA4**	572	**F704_280.9 P100 BE100LA4**	570
6.2	3132	0.9	280.7	18500	**F603_280.7 S3 ME3LA4**	562	**F603_280.7 P100 BE100LA4**	560
6.4	2958	2.7	273.9	41715	**F804_273.9 S3 ME3LA4**	580	**F804_273.9 P100 BE100LA4**	578
6.7	2891	1.0	259.1	18500	**F603_259.1 S3 ME3LA4**	562	**F603_259.1 P100 BE100LA4**	560
7.4	2631	1.1	235.8	18500	**F603_235.8 S3 ME3LA4**	562	**F603_235.8 P100 BE100LA4**	560
7.4	2533	2.0	234.6	32375	**F704_234.6 S3 ME3LA4**	572	**F704_234.6 P100 BE100LA4**	570
8.0	2429	1.2	217.6	18500	**F603_217.6 S3 ME3LA4**	562	**F603_217.6 P100 BE100LA4**	560
8.1	2338	2.1	216.5	32375	**F704_216.5 S3 ME3LA4**	572	**F704_216.5 P100 BE100LA4**	570
8.7	2247	1.3	201.4	18500	**F603_201.4 S3 ME3LA4**	562	**F603_201.4 P100 BE100LA4**	560
8.9	2188	2.3	196.0	32375	**F703_196.0 S3 ME3LA4**	572	**F703_196.0 P100 BE100LA4**	570
9.4	2075	1.4	185.9	18500	**F603_185.9 S3 ME3LA4**	562	**F603_185.9 P100 BE100LA4**	560
9.6	2019	2.5	180.9	32375	**F703_180.9 S3 ME3LA4**	572	**F703_180.9 P100 BE100LA4**	570
10.5	1860	2.7	166.7	32375	**F703_166.7 S3 ME3LA4**	572	**F703_166.7 P100 BE100LA4**	570
10.5	1848	1.0	165.6	10980	**F513_165.6 S3 ME3LA4**	552	**F513_165.6 P100 BE100LA4**	550
10.7	1818	1.6	162.9	18500	**F603_162.9 S3 ME3LA4**	562	**F603_162.9 P100 BE100LA4**	560
11.3	1717	2.9	153.8	32375	**F703_153.8 S3 ME3LA4**	572	**F703_153.8 P100 BE100LA4**	570
11.6	1678	1.7	150.4	18500	**F603_150.4 S3 ME3LA4**	562	**F603_150.4 P100 BE100LA4**	560
13.4	1456	2.0	130.5	18500	**F603_130.5 S3 ME3LA4**	562	**F603_130.5 P100 BE100LA4**	560
13.4	1450	1.2	129.9	10980	**F513_129.9 S3 ME3LA4**	552	**F513_129.9 P100 BE100LA4**	550
14.5	1344	2.2	120.5	18500	**F603_120.5 S3 ME3LA4**	562	**F603_120.5 P100 BE100LA4**	560
16.4	1187	2.4	106.4	18500	**F603_106.4 S3 ME3LA4**	562	**F603_106.4 P100 BE100LA4**	560
16.5	1183	0.9	106.0	7107	**F413_106.0 S3 ME3LA4**	542	**F413_106.0 P100 BE100LA4**	540
16.6	1173	1.5	105.1	10980	**F513_105.1 S3 ME3LA4**	552	**F513_105.1 P100 BE100LA4**	550
17.8	1096	2.6	98.2	18500	**F603_98.2 S3 ME3LA4**	562	**F603_98.2 P100 BE100LA4**	560
20.6	947	1.1	84.9	7795	**F413_84.9 S3 ME3LA4**	542	**F413_84.9 P100 BE100LA4**	540
21.0	929	1.9	83.2	10980	**F513_83.2 S3 ME3LA4**	552	**F513_83.2 P100 BE100LA4**	550
26.2	742	1.4	66.5	7795	**F413_66.5 S3 ME3LA4**	542	**F413_66.5 P100 BE100LA4**	540
26.5	735	2.2	65.8	10980	**F513_65.8 S3 ME3LA4**	552	**F513_65.8 P100 BE100LA4**	550

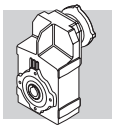


2.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
29.0	672	1.5	60.2	7795	**F413_60.2 S3 ME3LA4**	542	**F413_60.2 P100 BE100LA4**	540
33	581	0.9	52.1	5404	**F313_52.1 S3 ME3LA4**	532	**F313_52.1 P100 BE100LA4**	530
34	575	1.7	51.5	7795	**F413_51.5 S3 ME3LA4**	542	**F413_51.5 P100 BE100LA4**	540
36	546	2.8	48.9	10980	**F513_48.9 S3 ME3LA4**	552	**F513_48.9 P100 BE100LA4**	550
36	546	1.8	47.9	7795	**F412_47.9 S3 ME3LA4**	542	**F412_47.9 P100 BE100LA4**	540
37	531	1.1	47.5	5954	**F313_47.5 S3 ME3LA4**	532	**F313_47.5 P100 BE100LA4**	530
39	509	1.1	44.6	5954	**F312_44.6 S3 ME3LA4**	532	**F312_44.6 P100 BE100LA4**	530
43	460	1.2	40.4	5954	**F312_40.4 S3 ME3LA4**	532	**F312_40.4 P100 BE100LA4**	530
46	435	2.3	38.2	7795	**F412_38.2 S3 ME3LA4**	542	**F412_38.2 P100 BE100LA4**	540
46	429	1.3	37.7	5954	**F312_37.7 S3 ME3LA4**	532	**F312_37.7 P100 BE100LA4**	530
51	392	1.4	34.4	5945	**F312_34.4 S3 ME3LA4**	532	**F312_34.4 P100 BE100LA4**	530
54	367	1.0	32.2	3312	**F252_32.2 S3 ME3LA4**	522	**F252_32.2 P100 BE100LA4**	520
58	343	1.6	30.1	5826	**F312_30.1 S3 ME3LA4**	532	**F312_30.1 P100 BE100LA4**	530
58	343	3.0	30.1	7795	**F412_30.1 S3 ME3LA4**	542	**F412_30.1 P100 BE100LA4**	540
58	342	1.1	30.0	3020	**F252_30.0 S3 ME3LA4**	522	**F252_30.0 P100 BE100LA4**	520
64	311	1.8	27.3	5725	**F312_27.3 S3 ME3LA4**	532	**F312_27.3 P100 BE100LA4**	530
64	310	1.2	27.2	3020	**F252_27.2 S3 ME3LA4**	522	**F252_27.2 P100 BE100LA4**	520
73	271	1.4	23.8	3010	**F252_23.8 S3 ME3LA4**	522	**F252_23.8 P100 BE100LA4**	520
75	267	2.1	23.4	5569	**F312_23.4 S3 ME3LA4**	532	**F312_23.4 P100 BE100LA4**	530
80	249	1.5	21.8	2992	**F252_21.8 S3 ME3LA4**	522	**F252_21.8 P100 BE100LA4**	520
83	241	2.3	21.1	5459	**F312_21.1 S3 ME3LA4**	532	**F312_21.1 P100 BE100LA4**	530
94	212	1.8	18.6	2946	**F252_18.6 S3 ME3LA4**	522	**F252_18.6 P100 BE100LA4**	520
94	211	2.6	18.5	5304	**F312_18.5 S3 ME3LA4**	532	**F312_18.5 P100 BE100LA4**	530
97	206	1.0	18.1	2063	**F202_18.1 S3 ME3LA4**	512	**F202_18.1 P100 BE100LA4**	510
104	192	2.9	16.8	5194	**F312_16.8 S3 ME3LA4**	532	**F312_16.8 P100 BE100LA4**	530
105	189	2.0	16.6	2910	**F252_16.6 S3 ME3LA4**	522	**F252_16.6 P100 BE100LA4**	520
118	169	1.1	14.8	2008	**F202_14.8 S3 ME3LA4**	512	**F202_14.8 P100 BE100LA4**	510
121	165	2.3	14.5	2855	**F252_14.5 S3 ME3LA4**	522	**F252_14.5 P100 BE100LA4**	520
134	148	2.5	13.0	2809	**F252_13.0 S3 ME3LA4**	522	**F252_13.0 P100 BE100LA4**	520
155	128	1.3	11.2	1889	**F202_11.2 S3 ME3LA4**	512	**F202_11.2 P100 BE100LA4**	510
174	114	1.3	10.0	1834	**F202_10.0 S3 ME3LA4**	512	**F202_10.0 P100 BE100LA4**	510
187	107	2.3	9.4	2654	**F252_9.4 S3 ME3LA4**	522	**F252_9.4 P100 BE100LA4**	520
200	100	1.4	8.7	1797	**F202_8.7 S3 ME3LA4**	512	**F202_8.7 P100 BE100LA4**	510
208	96	2.5	8.4	2589	**F252_8.4 S3 ME3LA4**	522	**F252_8.4 P100 BE100LA4**	520
223	89	1.5	7.8	1761	**F202_7.8 S3 ME3LA4**	512	**F202_7.8 P100 BE100LA4**	510
272	73	1.6	6.4	1687	**F202_6.4 S3 ME3LA4**	512	**F202_6.4 P100 BE100LA4**	510

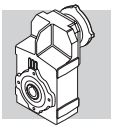
3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
1.8	14643	1.0	986.0	50930	**F904_986.0 S3 ME3LB4**	588	**F904_986.0 P100 BE100LB4**	586
1.9	13516	1.0	910.2	50930	**F904_910.2 S3 ME3LB4**	588	**F904_910.2 P100 BE100LB4**	586
2.2	11486	1.2	773.4	50930	**F904_773.4 S3 ME3LB4**	588	**F904_773.4 P100 BE100LB4**	586
2.4	10602	1.3	714.0	50930	**F904_714.0 S3 ME3LB4**	588	**F904_714.0 P100 BE100LB4**	586
2.8	9290	1.5	625.6	50930	**F904_625.6 S3 ME3LB4**	588	**F904_625.6 P100 BE100LB4**	586
3.0	8576	1.6	577.5	50930	**F904_577.5 S3 ME3LB4**	588	**F904_577.5 P100 BE100LB4**	586
3.1	8374	1.0	563.9	41715	**F804_563.9 S3 ME3LB4**	580	**F804_563.9 P100 BE100LB4**	578
3.5	7359	1.9	495.6	50930	**F904_495.6 S3 ME3LB4**	588	**F904_495.6 P100 BE100LB4**	586
3.5	7263	1.1	489.1	41715	**F804_489.1 S3 ME3LB4**	580	**F804_489.1 P100 BE100LB4**	578

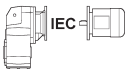


3 kW

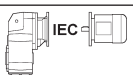
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
3.8	6793	2.1	457.5	50930	**F904_457.5 S3 ME3LB4**	588	**F904_457.5 P100 BE100LB4**	586
3.8	6705	1.2	451.5	41715	**F804_451.5 S3 ME3LB4**	580	**F804_451.5 P100 BE100LB4**	578
4.4	5821	2.4	392.0	50930	**F904_392.0 S3 ME3LB4**	588	**F904_392.0 P100 BE100LB4**	586
4.5	5690	1.4	383.2	41715	**F804_383.2 S3 ME3LB4**	580	**F804_383.2 P100 BE100LB4**	578
4.7	5531	0.9	372.5	32375	**F704_372.5 S3 ME3LB4**	572	**F704_372.5 P100 BE100LB4**	570
4.8	5373	2.6	361.8	50930	**F904_361.8 S3 ME3LB4**	588	**F904_361.8 P100 BE100LB4**	586
4.9	5252	1.5	353.7	41715	**F804_353.7 S3 ME3LB4**	580	**F804_353.7 P100 BE100LB4**	578
5.7	4520	1.1	304.3	32375	**F704_304.3 S3 ME3LB4**	572	**F704_304.3 P100 BE100LB4**	570
5.8	4406	1.8	296.7	41715	**F804_296.7 S3 ME3LB4**	580	**F804_296.7 P100 BE100LB4**	578
6.2	4172	1.2	280.9	32375	**F704_280.9 S3 ME3LB4**	572	**F704_280.9 P100 BE100LB4**	570
6.3	4067	2.0	273.9	41715	**F804_273.9 S3 ME3LB4**	580	**F804_273.9 P100 BE100LB4**	578
7.4	3483	1.4	234.6	32375	**F704_234.6 S3 ME3LB4**	572	**F704_234.6 P100 BE100LB4**	570
7.9	3245	2.5	218.5	41715	**F804_218.5 S3 ME3LB4**	580	**F804_218.5 P100 BE100LB4**	578
8.0	3215	1.6	216.5	32375	**F704_216.5 S3 ME3LB4**	572	**F704_216.5 P100 BE100LB4**	570
8.6	3090	0.9	201.4	18500	**F603_201.4 S3 ME3LB4**	562	**F603_201.4 P100 BE100LB4**	560
8.7	3069	2.6	200.0	41715	**F803_200.0 S3 ME3LB4**	580	**F803_200.0 P100 BE100LB4**	578
8.9	3008	1.7	196.0	32375	**F703_196.0 S3 ME3LB4**	572	**F703_196.0 P100 BE100LB4**	570
9.3	2853	1.0	185.9	18500	**F603_185.9 S3 ME3LB4**	562	**F603_185.9 P100 BE100LB4**	560
9.4	2833	2.8	184.6	41715	**F803_184.6 S3 ME3LB4**	580	**F803_184.6 P100 BE100LB4**	578
9.6	2777	1.8	180.9	32375	**F703_180.9 S3 ME3LB4**	572	**F703_180.9 P100 BE100LB4**	570
10.4	2558	2.0	166.7	32375	**F703_166.7 S3 ME3LB4**	572	**F703_166.7 P100 BE100LB4**	570
10.7	2499	1.2	162.9	18500	**F603_162.9 S3 ME3LB4**	562	**F603_162.9 P100 BE100LB4**	560
11.3	2361	2.1	153.8	32375	**F703_153.8 S3 ME3LB4**	572	**F703_153.8 P100 BE100LB4**	570
11.5	2307	1.3	150.4	18500	**F603_150.4 S3 ME3LB4**	562	**F603_150.4 P100 BE100LB4**	560
13.0	2040	2.5	133.0	32375	**F703_133.0 S3 ME3LB4**	572	**F703_133.0 P100 BE100LB4**	570
13.3	2002	1.4	130.5	18500	**F603_130.5 S3 ME3LB4**	562	**F603_130.5 P100 BE100LB4**	560
13.4	1994	0.9	129.9	10980	**F513_129.9 S3 ME3LB4**	552	**F513_129.9 P100 BE100LB4**	550
14.1	1883	2.7	122.7	32375	**F703_122.7 S3 ME3LB4**	572	**F703_122.7 P100 BE100LB4**	570
14.4	1848	1.6	120.5	18500	**F603_120.5 S3 ME3LB4**	562	**F603_120.5 P100 BE100LB4**	560
15.8	1682	3.0	109.6	32375	**F703_109.6 S3 ME3LB4**	572	**F703_109.6 P100 BE100LB4**	570
16.3	1632	1.8	106.4	18500	**F603_106.4 S3 ME3LB4**	562	**F603_106.4 P100 BE100LB4**	560
16.5	1613	1.1	105.1	10980	**F513_105.1 S3 ME3LB4**	552	**F513_105.1 P100 BE100LB4**	550
17.7	1507	1.9	98.2	18500	**F603_98.2 S3 ME3LB4**	562	**F603_98.2 P100 BE100LB4**	560
20.7	1289	2.2	84.0	18500	**F603_84.0 S3 ME3LB4**	562	**F603_84.0 P100 BE100LB4**	560
20.8	1277	1.4	83.2	10980	**F513_83.2 S3 ME3LB4**	552	**F513_83.2 P100 BE100LB4**	550
22.4	1190	2.4	77.6	18500	**F603_77.6 S3 ME3LB4**	562	**F603_77.6 P100 BE100LB4**	560
25.4	1048	2.8	68.3	18500	**F603_68.3 S3 ME3LB4**	562	**F603_68.3 P100 BE100LB4**	560
26.1	1020	1.0	66.5	7382	**F413_66.5 S3 ME3LB4**	542	**F413_66.5 P100 BE100LB4**	540
26.4	1010	1.6	65.8	10980	**F513_65.8 S3 ME3LB4**	552	**F513_65.8 P100 BE100LB4**	550
27.5	967	3.0	63.0	18500	**F603_63.0 S3 ME3LB4**	562	**F603_63.0 P100 BE100LB4**	560
28.8	924	1.1	60.2	7795	**F413_60.2 S3 ME3LB4**	542	**F413_60.2 P100 BE100LB4**	540
34	790	1.3	51.5	7795	**F413_51.5 S3 ME3LB4**	542	**F413_51.5 P100 BE100LB4**	540
35	750	2.0	48.9	10980	**F513_48.9 S3 ME3LB4**	552	**F513_48.9 P100 BE100LB4**	550
36	751	1.3	47.9	7795	**F412_47.9 S3 ME3LB4**	542	**F412_47.9 P100 BE100LB4**	540
45	599	1.7	38.2	7795	**F412_38.2 S3 ME3LB4**	542	**F412_38.2 P100 BE100LB4**	540
46	591	0.9	37.7	5267	**F312_37.7 S3 ME3LB4**	532	**F312_37.7 P100 BE100LB4**	530
47	582	2.7	37.1	10797	**F512_37.1 S3 ME3LB4**	552	**F512_37.1 P100 BE100LB4**	550
50	539	1.0	34.4	5322	**F312_34.4 S3 ME3LB4**	532	**F312_34.4 P100 BE100LB4**	530
58	472	1.2	30.1	5285	**F312_30.1 S3 ME3LB4**	532	**F312_30.1 P100 BE100LB4**	530
58	472	2.2	30.1	7602	**F412_30.1 S3 ME3LB4**	542	**F412_30.1 P100 BE100LB4**	540
64	427	1.3	27.3	5240	**F312_27.3 S3 ME3LB4**	532	**F312_27.3 P100 BE100LB4**	530

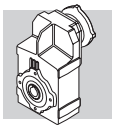


3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
72	378	2.7	24.1	7299	**F412_24.1 S3 ME3LB4**	542	**F412_24.1 P100 BE100LB4**	540
73	372	1.0	23.8	2837	**F252_23.8 S3 ME3LB4**	522	**F252_23.8 P100 BE100LB4**	520
74	367	1.5	23.4	5148	**F312_23.4 S3 ME3LB4**	532	**F312_23.4 P100 BE100LB4**	530
80	342	1.1	21.8	2562	**F252_21.8 S3 ME3LB4**	522	**F252_21.8 P100 BE100LB4**	520
82	331	1.7	21.1	5075	**F312_21.1 S3 ME3LB4**	532	**F312_21.1 P100 BE100LB4**	530
93	292	1.3	18.6	2589	**F252_18.6 S3 ME3LB4**	522	**F252_18.6 P100 BE100LB4**	520
94	290	1.9	18.5	4974	**F312_18.5 S3 ME3LB4**	532	**F312_18.5 P100 BE100LB4**	530
103	263	2.1	16.8	4891	**F312_16.8 S3 ME3LB4**	532	**F312_16.8 P100 BE100LB4**	530
104	261	1.4	16.6	2589	**F252_16.6 S3 ME3LB4**	522	**F252_16.6 P100 BE100LB4**	520
120	227	1.6	14.5	2571	**F252_14.5 S3 ME3LB4**	522	**F252_14.5 P100 BE100LB4**	520
124	219	2.5	13.9	4717	**F312_13.9 S3 ME3LB4**	532	**F312_13.9 P100 BE100LB4**	530
134	203	1.8	13.0	2553	**F252_13.0 S3 ME3LB4**	522	**F252_13.0 P100 BE100LB4**	520
136	199	2.8	12.7	4635	**F312_12.7 S3 ME3LB4**	532	**F312_12.7 P100 BE100LB4**	530
154	176	0.9	11.2	1678	**F202_11.2 S3 ME3LB4**	512	**F202_11.2 P100 BE100LB4**	510
163	167	2.2	10.6	2498	**F252_10.6 S3 ME3LB4**	522	**F252_10.6 P100 BE100LB4**	520
173	157	1.0	10.0	1696	**F202_10.0 S3 ME3LB4**	512	**F202_10.0 P100 BE100LB4**	510
185	147	1.7	9.4	2480	**F252_9.4 S3 ME3LB4**	522	**F252_9.4 P100 BE100LB4**	520
192	141	2.6	9.0	4259	**F312_9.0 S3 ME3LB4**	532	**F312_9.0 P100 BE100LB4**	530
199	137	1.0	8.7	1669	**F202_8.7 S3 ME3LB4**	512	**F202_8.7 P100 BE100LB4**	510
207	132	1.8	8.4	2434	**F252_8.4 S3 ME3LB4**	522	**F252_8.4 P100 BE100LB4**	520
211	129	2.8	8.2	4168	**F312_8.2 S3 ME3LB4**	532	**F312_8.2 P100 BE100LB4**	530
221	123	1.1	7.8	1641	**F202_7.8 S3 ME3LB4**	512	**F202_7.8 P100 BE100LB4**	510
253	108	2.2	6.9	2342	**F252_6.9 S3 ME3LB4**	522	**F252_6.9 P100 BE100LB4**	520
271	101	1.2	6.4	1586	**F202_6.4 S3 ME3LB4**	512	**F202_6.4 P100 BE100LB4**	510

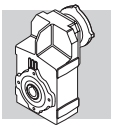
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n_2 rpm	M_2 Nm	S	i	R_{n2} N				
2.2	13922	1.0	773.4	50930	**F904_773.4 S4 ME4SA4**	588	**F904_773.4 P112 BE112M4**	586
2.4	12851	1.1	714.0	50930	**F904_714.0 S4 ME4SA4**	588	**F904_714.0 P112 BE112M4**	586
2.8	11261	1.2	625.6	50930	**F904_625.6 S4 ME4SA4**	588	**F904_625.6 P112 BE112M4**	586
3.0	10395	1.3	577.5	50930	**F904_577.5 S4 ME4SA4**	588	**F904_577.5 P112 BE112M4**	586
3.5	8920	1.6	495.6	50930	**F904_495.6 S4 ME4SA4**	588	**F904_495.6 P112 BE112M4**	586
3.6	8804	0.9	489.1	41715	**F804_489.1 S4 ME4SA4**	580	**F804_489.1 P112 BE112M4**	578
3.8	8234	1.7	457.5	50930	**F904_457.5 S4 ME4SA4**	588	**F904_457.5 P112 BE112M4**	586
3.9	8127	1.0	451.5	41715	**F804_451.5 S4 ME4SA4**	580	**F804_451.5 P112 BE112M4**	578
4.4	7056	2.0	392.0	50930	**F904_392.0 S4 ME4SA4**	588	**F904_392.0 P112 BE112M4**	586
4.5	6897	1.2	383.2	41715	**F804_383.2 S4 ME4SA4**	580	**F804_383.2 P112 BE112M4**	578
4.8	6513	2.1	361.8	50930	**F904_361.8 S4 ME4SA4**	588	**F904_361.8 P112 BE112M4**	586
4.9	6366	1.3	353.7	41715	**F804_353.7 S4 ME4SA4**	580	**F804_353.7 P112 BE112M4**	578
5.7	5478	0.9	304.3	32375	**F704_304.3 S4 ME4SA4**	572	**F704_304.3 P112 BE112M4**	570
5.9	5341	1.5	296.7	41715	**F804_296.7 S4 ME4SA4**	580	**F804_296.7 P112 BE112M4**	578
6.0	5240	2.7	291.1	50930	**F904_291.1 S4 ME4SA4**	588	**F904_291.1 P112 BE112M4**	586
6.2	5057	1.0	280.9	32375	**F704_280.9 S4 ME4SA4**	572	**F704_280.9 P112 BE112M4**	570
6.4	4930	1.6	273.9	41715	**F804_273.9 S4 ME4SA4**	580	**F804_273.9 P112 BE112M4**	578
6.5	4837	2.9	268.7	50930	**F904_268.7 S4 ME4SA4**	588	**F904_268.7 P112 BE112M4**	586
7.4	4222	1.2	234.6	32375	**F704_234.6 S4 ME4SA4**	572	**F704_234.6 P112 BE112M4**	570
8.0	3933	2.0	218.5	41715	**F804_218.5 S4 ME4SA4**	580	**F804_218.5 P112 BE112M4**	578

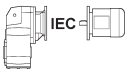


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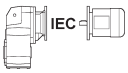
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
8.0	3897	1.3	216.5	32375	**F704_216.5 S4 ME4SA4**	572	**F704_216.5 P112 BE112M4**	570
8.7	3720	2.2	200.0	41715	**F803_200.0 S4 ME4SA4**	580	**F803_200.0 P112 BE112M4**	578
8.9	3646	1.4	196.0	32375	**F703_196.0 S4 ME4SA4**	572	**F703_196.0 P112 BE112M4**	570
9.4	3434	2.3	184.6	41715	**F803_184.6 S4 ME4SA4**	580	**F803_184.6 P112 BE112M4**	578
9.6	3366	1.5	180.9	32375	**F703_180.9 S4 ME4SA4**	572	**F703_180.9 P112 BE112M4**	570
10.4	3100	1.6	166.7	32375	**F703_166.7 S4 ME4SA4**	572	**F703_166.7 P112 BE112M4**	570
10.7	3030	1.0	162.9	18500	**F603_162.9 S4 ME4SA4**	562	**F603_162.9 P112 BE112M4**	560
10.9	2980	2.7	160.2	41715	**F803_160.2 S4 ME4SA4**	580	**F803_160.2 P112 BE112M4**	578
11.3	2862	1.7	153.8	32375	**F703_153.8 S4 ME4SA4**	572	**F703_153.8 P112 BE112M4**	570
11.6	2797	1.0	150.4	18500	**F603_150.4 S4 ME4SA4**	562	**F603_150.4 P112 BE112M4**	560
11.8	2751	2.9	147.9	41715	**F803_147.9 S4 ME4SA4**	580	**F803_147.9 P112 BE112M4**	578
13.1	2473	2.0	133.0	32375	**F703_133.0 S4 ME4SA4**	572	**F703_133.0 P112 BE112M4**	570
13.3	2427	1.2	130.5	18500	**F603_130.5 S4 ME4SA4**	562	**F603_130.5 P112 BE112M4**	560
14.2	2283	2.2	122.7	32375	**F703_122.7 S4 ME4SA4**	572	**F703_122.7 P112 BE112M4**	570
14.4	2240	1.3	120.5	18500	**F603_120.5 S4 ME4SA4**	562	**F603_120.5 P112 BE112M4**	560
15.9	2039	2.5	109.6	32375	**F703_109.6 S4 ME4SA4**	572	**F703_109.6 P112 BE112M4**	570
16.4	1979	1.5	106.4	18500	**F603_106.4 S4 ME4SA4**	562	**F603_106.4 P112 BE112M4**	560
16.6	1955	0.9	105.1	10065	**F513_105.1 S4 ME4SA4**	552	**F513_105.1 P112 BE112M4**	550
17.2	1882	2.7	101.2	32375	**F703_101.2 S4 ME4SA4**	572	**F703_101.2 P112 BE112M4**	570
17.7	1826	1.6	98.2	18500	**F603_98.2 S4 ME4SA4**	562	**F603_98.2 P112 BE112M4**	560
18.8	1721	2.9	92.5	32375	**F703_92.5 S4 ME4SA4**	572	**F703_92.5 P112 BE112M4**	570
20.7	1563	1.9	84.0	18500	**F603_84.0 S4 ME4SA4**	562	**F603_84.0 P112 BE112M4**	560
20.9	1548	1.1	83.2	10980	**F513_83.2 S4 ME4SA4**	552	**F513_83.2 P112 BE112M4**	550
22.4	1443	2.0	77.6	18500	**F603_77.6 S4 ME4SA4**	562	**F603_77.6 P112 BE112M4**	560
25.5	1270	2.3	68.3	18500	**F603_68.3 S4 ME4SA4**	562	**F603_68.3 P112 BE112M4**	560
26.4	1225	1.3	65.8	10980	**F513_65.8 S4 ME4SA4**	552	**F513_65.8 P112 BE112M4**	550
27.6	1172	2.5	63.0	18500	**F603_63.0 S4 ME4SA4**	562	**F603_63.0 P112 BE112M4**	560
28.9	1121	0.9	60.2	7107	**F413_60.2 S4 ME4SA4**	542	**F413_60.2 P112 BE112M4**	540
34	958	1.0	51.5	7474	**F413_51.5 S4 ME4SA4**	542	**F413_51.5 P112 BE112M4**	540
36	910	1.7	48.9	10614	**F513_48.9 S4 ME4SA4**	552	**F513_48.9 P112 BE112M4**	550
36	911	1.1	47.9	7474	**F412_47.9 S4 ME4SA4**	542	**F412_47.9 P112 BE112M4**	540
46	725	1.4	38.2	7079	**F412_38.2 S4 ME4SA4**	542	**F412_38.2 P112 BE112M4**	540
47	706	2.2	37.1	10248	**F512_37.1 S4 ME4SA4**	552	**F512_37.1 P112 BE112M4**	550
58	572	1.0	30.1	4946	**F312_30.1 S4 ME4SA4**	532	**F312_30.1 P112 BE112M4**	530
58	572	1.8	30.1	6978	**F412_30.1 S4 ME4SA4**	542	**F412_30.1 P112 BE112M4**	540
58	571	2.7	30.0	9791	**F512_30.0 S4 ME4SA4**	552	**F512_30.0 P112 BE112M4**	550
64	518	1.1	27.3	4855	**F312_27.3 S4 ME4SA4**	532	**F312_27.3 P112 BE112M4**	530
72	458	2.2	24.1	6804	**F412_24.1 S4 ME4SA4**	542	**F412_24.1 P112 BE112M4**	540
74	444	1.3	23.4	4617	**F312_23.4 S4 ME4SA4**	532	**F312_23.4 P112 BE112M4**	530
82	401	1.4	21.1	4598	**F312_21.1 S4 ME4SA4**	532	**F312_21.1 P112 BE112M4**	530
92	359	2.8	18.9	6557	**F412_18.9 S4 ME4SA4**	542	**F412_18.9 P112 BE112M4**	540
93	354	1.1	18.6	2288			**F252_18.6 P112 BE112M4**	520
94	351	1.6	18.5	4562	**F312_18.5 S4 ME4SA4**	532	**F312_18.5 P112 BE112M4**	530
104	319	1.7	16.8	4516	**F312_16.8 S4 ME4SA4**	532	**F312_16.8 P112 BE112M4**	530
105	316	1.2	16.6	2178			**F252_16.6 P112 BE112M4**	520
120	275	1.4	14.5	2214			**F252_14.5 P112 BE112M4**	520
125	265	2.1	13.9	4415	**F312_13.9 S4 ME4SA4**	532	**F312_13.9 P112 BE112M4**	530
134	247	1.5	13.0	2233			**F252_13.0 P112 BE112M4**	520
137	242	2.3	12.7	4351	**F312_12.7 S4 ME4SA4**	532	**F312_12.7 P112 BE112M4**	530
162	204	2.7	10.7	4232	**F312_10.7 S4 ME4SA4**	532	**F312_10.7 P112 BE112M4**	530
164	202	1.8	10.6	2242			**F252_10.6 P112 BE112M4**	520

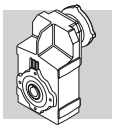


3.7 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
186	178	1.4	9.4	2260			**F252_9.4 P112 BE112M4**	520
193	171	2.1	9.0	4049	**F312_9.0 S4 ME4SA4**	532	**F312_9.0 P112 BE112M4**	530
207	159	1.5	8.4	2242			**F252_8.4 P112 BE112M4**	520
211	156	2.3	8.2	3985	**F312_8.2 S4 ME4SA4**	532	**F312_8.2 P112 BE112M4**	530
250	132	2.7	6.9	3847	**F312_6.9 S4 ME4SA4**	532	**F312_6.9 P112 BE112M4**	530
253	131	1.8	6.9	2187			**F252_6.9 P112 BE112M4**	520
271	122	1.0	6.4	1467			**F202_6.4 P112 BE112M4**	510

5.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
3.6	13380	1.0	495.6	50930	**F904_495.6 S4 ME4SB4**	588	**F904_495.6 P132 BE132S4**	586
3.8	12351	1.1	457.5	50930	**F904_457.5 S4 ME4SB4**	588	**F904_457.5 P132 BE132S4**	586
4.5	10584	1.3	392.0	50930	**F904_392.0 S4 ME4SB4**	588	**F904_392.0 P132 BE132S4**	586
4.9	9770	1.4	361.8	50930	**F904_361.8 S4 ME4SB4**	588	**F904_361.8 P132 BE132S4**	586
5.9	8011	1.0	296.7	41715	**F804_296.7 S4 ME4SB4**	580	**F804_296.7 P132 BE132S4**	578
6.0	7860	1.8	291.1	50930	**F904_291.1 S4 ME4SB4**	588	**F904_291.1 P132 BE132S4**	586
6.4	7395	1.1	273.9	41715	**F804_273.9 S4 ME4SB4**	580	**F804_273.9 P132 BE132S4**	578
6.5	7256	1.9	268.7	50930	**F904_268.7 S4 ME4SB4**	588	**F904_268.7 P132 BE132S4**	586
7.6	6248	2.2	231.4	50930	**F904_231.4 S4 ME4SB4**	588	**F904_231.4 P132 BE132S4**	586
8.1	5899	1.4	218.5	41715	**F804_218.5 S4 ME4SB4**	580	**F804_218.5 P132 BE132S4**	578
8.2	5767	2.4	213.6	50930	**F904_213.6 S4 ME4SB4**	588	**F904_213.6 P132 BE132S4**	586
8.8	5580	1.4	200.0	41715	**F803_200.0 S4 ME4SB4**	580	**F803_200.0 P132 BE132S4**	578
9.0	5469	0.9	196.0	30525	**F703_196.0 S4 ME4SB4**	572	**F703_196.0 P132 BE132S4**	570
9.1	5417	2.6	194.2	50930	**F903_194.2 S4 ME4SB4**	588	**F903_194.2 P132 BE132S4**	586
9.5	5151	1.6	184.6	41715	**F803_184.6 S4 ME4SB4**	580	**F803_184.6 P132 BE132S4**	578
9.7	5048	1.0	180.9	32375	**F703_180.9 S4 ME4SB4**	572	**F703_180.9 P132 BE132S4**	570
9.8	5000	2.8	179.2	50930	**F903_179.2 S4 ME4SB4**	588	**F903_179.2 P132 BE132S4**	586
10.6	4650	1.1	166.7	32375	**F703_166.7 S4 ME4SB4**	572	**F703_166.7 P132 BE132S4**	570
11.0	4470	1.8	160.2	41715	**F803_160.2 S4 ME4SB4**	580	**F803_160.2 P132 BE132S4**	578
11.4	4292	1.2	153.8	32375	**F703_153.8 S4 ME4SB4**	572	**F703_153.8 P132 BE132S4**	570
11.9	4126	1.9	147.9	41715	**F803_147.9 S4 ME4SB4**	580	**F803_147.9 P132 BE132S4**	578
13.2	3709	1.3	133.0	32375	**F703_133.0 S4 ME4SB4**	572	**F703_133.0 P132 BE132S4**	570
13.3	3702	2.2	132.7	41715	**F803_132.7 S4 ME4SB4**	580	**F803_132.7 P132 BE132S4**	578
14.3	3424	1.5	122.7	32375	**F703_122.7 S4 ME4SB4**	572	**F703_122.7 P132 BE132S4**	570
14.4	3417	2.3	122.5	41715	**F803_122.5 S4 ME4SB4**	580	**F803_122.5 P132 BE132S4**	578
15.5	3174	2.5	113.8	41715	**F803_113.8 S4 ME4SB4**	580	**F803_113.8 P132 BE132S4**	578
16.1	3058	1.6	109.6	32375	**F703_109.6 S4 ME4SB4**	572	**F703_109.6 P132 BE132S4**	570
16.5	2968	1.0	106.4	18500	**F603_106.4 S4 ME4SB4**	562	**F603_106.4 P132 BE132S4**	560
16.8	2930	2.7	105.0	41715	**F803_105.0 S4 ME4SB4**	580	**F803_105.0 P132 BE132S4**	578
17.4	2823	1.8	101.2	32375	**F703_101.2 S4 ME4SB4**	572	**F703_101.2 P132 BE132S4**	570
17.9	2740	1.1	98.2	18500	**F603_98.2 S4 ME4SB4**	562	**F603_98.2 P132 BE132S4**	560

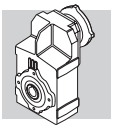


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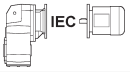
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
19.0	2581	1.9	92.5	32375	**F703_92.5 S4 ME4SB4**	572	**F703_92.5 P132 BE132S4**	570
20.6	2382	2.1	85.4	32375	**F703_85.4 S4 ME4SB4**	572	**F703_85.4 P132 BE132S4**	570
20.9	2344	1.2	84.0	18500	**F603_84.0 S4 ME4SB4**	562	**F603_84.0 P132 BE132S4**	560
22.7	2164	1.3	77.6	18500	**F603_77.6 S4 ME4SB4**	562	**F603_77.6 P132 BE132S4**	560
23.9	2052	2.4	73.6	32375	**F703_73.6 S4 ME4SB4**	572	**F703_73.6 P132 BE132S4**	570
25.8	1905	1.5	68.3	18500	**F603_68.3 S4 ME4SB4**	562	**F603_68.3 P132 BE132S4**	560
25.9	1894	2.6	67.9	32375	**F703_67.9 S4 ME4SB4**	572	**F703_67.9 P132 BE132S4**	570
27.9	1758	1.6	63.0	18500	**F603_63.0 S4 ME4SB4**	562	**F603_63.0 P132 BE132S4**	560
28.2	1744	2.9	62.5	32375	**F703_62.5 S4 ME4SB4**	572	**F703_62.5 P132 BE132S4**	570
34	1446	2.0	51.8	18500	**F603_51.8 S4 ME4SB4**	562	**F603_51.8 P132 BE132S4**	560
36	1364	1.1	48.9	9425	**F513_48.9 S4 ME4SB4**	552	**F513_48.9 P132 BE132S4**	550
37	1335	2.2	47.8	18500	**F603_47.8 S4 ME4SB4**	562	**F603_47.8 P132 BE132S4**	560
42	1174	2.5	42.1	18500	**F603_42.1 S4 ME4SB4**	562	**F603_42.1 P132 BE132S4**	560
45	1084	2.7	38.8	18500	**F603_38.8 S4 ME4SB4**	562	**F603_38.8 P132 BE132S4**	560
46	1088	0.9	38.2	6098	**F412_38.2 S4 ME4SB4**	542	**F412_38.2 P132 BE132S4**	540
47	1058	1.5	37.1	9425	**F512_37.1 S4 ME4SB4**	552	**F512_37.1 P132 BE132S4**	550
58	858	1.2	30.1	6034	**F412_30.1 S4 ME4SB4**	542	**F412_30.1 P132 BE132S4**	540
59	856	1.8	30.0	9104	**F512_30.0 S4 ME4SB4**	552	**F512_30.0 P132 BE132S4**	550
69	709	2.5	25.4	18500	**F603_25.4 S4 ME4SB4**	562	**F603_25.4 P132 BE132S4**	560
73	687	1.5	24.1	6034	**F412_24.1 S4 ME4SB4**	542	**F412_24.1 P132 BE132S4**	540
74	678	2.2	23.8	8747	**F512_23.8 S4 ME4SB4**	552	**F512_23.8 P132 BE132S4**	550
75	655	2.7	23.5	18500	**F603_23.5 S4 ME4SB4**	562	**F603_23.5 P132 BE132S4**	560
83	602	0.9	21.1	4003	**F312_21.1 S4 ME4SB4**	532	**F312_21.1 P132 BE132S4**	530
93	538	1.9	18.9	5942	**F412_18.9 S4 ME4SB4**	542	**F412_18.9 P132 BE132S4**	540
94	536	2.6	18.8	8336	**F512_18.8 S4 ME4SB4**	552	**F512_18.8 P132 BE132S4**	550
95	527	1.1	18.5	4104	**F312_18.5 S4 ME4SB4**	532	**F312_18.5 P132 BE132S4**	530
103	488	2.0	17.1	5878	**F412_17.1 S4 ME4SB4**	542	**F412_17.1 P132 BE132S4**	540
105	479	1.2	16.8	3939	**F312_16.8 S4 ME4SB4**	532	**F312_16.8 P132 BE132S4**	530
120	417	2.3	14.6	5759	**F412_14.6 S4 ME4SB4**	542	**F412_14.6 P132 BE132S4**	540
126	397	1.4	13.9	3829	**F312_13.9 S4 ME4SB4**	532	**F312_13.9 P132 BE132S4**	530
138	363	1.5	12.7	3646	**F312_12.7 S4 ME4SB4**	532	**F312_12.7 P132 BE132S4**	530
163	307	2.7	10.8	5474	**F412_10.8 S4 ME4SB4**	542	**F412_10.8 P132 BE132S4**	540
164	306	1.8	10.7	3554	**F312_10.7 S4 ME4SB4**	532	**F312_10.7 P132 BE132S4**	530
193	260	2.5	9.1	5328	**F412_9.1 S4 ME4SB4**	542	**F412_9.1 P132 BE132S4**	540
195	257	1.4	9.0	3527	**F312_9.0 S4 ME4SB4**	532	**F312_9.0 P132 BE132S4**	530
214	235	1.5	8.2	3435	**F312_8.2 S4 ME4SB4**	532	**F312_8.2 P132 BE132S4**	530
253	198	1.8	6.9	3307	**F312_6.9 S4 ME4SB4**	532	**F312_6.9 P132 BE132S4**	530

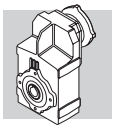
7.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
4.5	14465	1.0	392.0	50930	**F904_392.0 S4 ME4LA4**	588	**F904_392.0 P132 BE132MA4**	586
4.9	13352	1.0	361.8	50930	**F904_361.8 S4 ME4LA4**	588	**F904_361.8 P132 BE132MA4**	586



7.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
6.0	10742	1.3	291.1	50930	**F904_291.1 S4 ME4LA4**	588	**F904_291.1 P132 BE132MA4**	586
6.5	9916	1.4	268.7	50930	**F904_268.7 S4 ME4LA4**	588	**F904_268.7 P132 BE132MA4**	586
7.6	8538	1.6	231.4	50930	**F904_231.4 S4 ME4LA4**	588	**F904_231.4 P132 BE132MA4**	586
8.1	8062	1.0	218.5	41715	**F804_218.5 S4 ME4LA4**	580	**F804_218.5 P132 BE132MA4**	578
8.2	7882	1.8	213.6	50930	**F904_213.6 S4 ME4LA4**	588	**F904_213.6 P132 BE132MA4**	586
8.8	7626	1.0	200.0	41715	**F803_200.0 S4 ME4LA4**	580	**F803_200.0 P132 BE132MA4**	578
9.1	7403	1.9	194.2	50930	**F903_194.2 S4 ME4LA4**	588	**F903_194.2 P132 BE132MA4**	586
9.5	7039	1.1	184.6	41715	**F803_184.6 S4 ME4LA4**	580	**F803_184.6 P132 BE132MA4**	578
9.8	6834	2.0	179.2	50930	**F903_179.2 S4 ME4LA4**	588	**F903_179.2 P132 BE132MA4**	586
10.8	6209	2.3	162.8	50930	**F903_162.8 S4 ME4LA4**	588	**F903_162.8 P132 BE132MA4**	586
11.0	6109	1.3	160.2	41715	**F803_160.2 S4 ME4LA4**	580	**F803_160.2 P132 BE132MA4**	578
11.7	5731	2.4	150.3	50930	**F903_150.3 S4 ME4LA4**	588	**F903_150.3 P132 BE132MA4**	586
11.9	5640	1.4	147.9	41715	**F803_147.9 S4 ME4LA4**	580	**F803_147.9 P132 BE132MA4**	578
12.8	5237	2.7	137.3	50930	**F903_137.3 S4 ME4LA4**	588	**F903_137.3 P132 BE132MA4**	586
13.2	5070	1.0	133.0	32375	**F703_133.0 S4 ME4LA4**	572	**F703_133.0 P132 BE132MA4**	570
13.3	5060	1.6	132.7	41715	**F803_132.7 S4 ME4LA4**	580	**F803_132.7 P132 BE132MA4**	578
13.9	4834	2.9	126.8	50930	**F903_126.8 S4 ME4LA4**	588	**F903_126.8 P132 BE132MA4**	586
14.3	4680	1.1	122.7	32375	**F703_122.7 S4 ME4LA4**	572	**F703_122.7 P132 BE132MA4**	570
14.4	4670	1.7	122.5	41715	**F803_122.5 S4 ME4LA4**	580	**F803_122.5 P132 BE132MA4**	578
15.5	4337	1.8	113.8	41715	**F803_113.8 S4 ME4LA4**	580	**F803_113.8 P132 BE132MA4**	578
16.1	4180	1.2	109.6	32375	**F703_109.6 S4 ME4LA4**	572	**F703_109.6 P132 BE132MA4**	570
16.8	4004	2.0	105.0	41715	**F803_105.0 S4 ME4LA4**	580	**F803_105.0 P132 BE132MA4**	578
17.4	3858	1.3	101.2	32375	**F703_101.2 S4 ME4LA4**	572	**F703_101.2 P132 BE132MA4**	570
19.0	3527	1.4	92.5	32375	**F703_92.5 S4 ME4LA4**	572	**F703_92.5 P132 BE132MA4**	570
19.1	3520	2.3	92.3	41715	**F803_92.3 S4 ME4LA4**	580	**F803_92.3 P132 BE132MA4**	578
20.6	3256	1.5	85.4	32375	**F703_85.4 S4 ME4LA4**	572	**F703_85.4 P132 BE132MA4**	570
20.7	3249	2.5	85.2	41715	**F803_85.2 S4 ME4LA4**	580	**F803_85.2 P132 BE132MA4**	578
20.9	3204	0.9	84.0	17575	**F603_84.0 S4 ME4LA4**	562	**F603_84.0 P132 BE132MA4**	560
22.7	2957	1.0	77.6	18500	**F603_77.6 S4 ME4LA4**	562	**F603_77.6 P132 BE132MA4**	560
23.1	2907	2.8	76.3	41715	**F803_76.3 S4 ME4LA4**	580	**F803_76.3 P132 BE132MA4**	578
23.9	2805	1.8	73.6	32375	**F703_73.6 S4 ME4LA4**	572	**F703_73.6 P132 BE132MA4**	570
25.0	2684	3.0	70.4	41437	**F803_70.4 S4 ME4LA4**	580	**F803_70.4 P132 BE132MA4**	578
25.8	2604	1.1	68.3	18500	**F603_68.3 S4 ME4LA4**	562	**F603_68.3 P132 BE132MA4**	560
25.9	2589	1.9	67.9	32375	**F703_67.9 S4 ME4LA4**	572	**F703_67.9 P132 BE132MA4**	570
27.9	2403	1.2	63.0	18500	**F603_63.0 S4 ME4LA4**	562	**F603_63.0 P132 BE132MA4**	560
28.2	2383	2.1	62.5	32375	**F703_62.5 S4 ME4LA4**	572	**F703_62.5 P132 BE132MA4**	570
31	2200	2.3	57.7	32283	**F703_57.7 S4 ME4LA4**	572	**F703_57.7 P132 BE132MA4**	570
34	1976	1.5	51.8	18500	**F603_51.8 S4 ME4LA4**	562	**F603_51.8 P132 BE132MA4**	560
36	1867	2.5	49.0	31265	**F703_49.0 S4 ME4LA4**	572	**F703_49.0 P132 BE132MA4**	570
37	1824	1.6	47.8	18500	**F603_47.8 S4 ME4LA4**	562	**F603_47.8 P132 BE132MA4**	560
39	1723	2.7	45.2	30710	**F703_45.2 S4 ME4LA4**	572	**F703_45.2 P132 BE132MA4**	570
42	1605	1.8	42.1	18500	**F603_42.1 S4 ME4LA4**	562	**F603_42.1 P132 BE132MA4**	560
45	1481	2.0	38.8	18500	**F603_38.8 S4 ME4LA4**	562	**F603_38.8 P132 BE132MA4**	560
47	1446	1.1	37.1	8317	**F512_37.1 S4 ME4LA4**	552	**F512_37.1 P132 BE132MA4**	550
55	1223	2.3	32.1	18500	**F603_32.1 S4 ME4LA4**	562	**F603_32.1 P132 BE132MA4**	560
59	1170	1.3	30.0	8244	**F512_30.0 S4 ME4LA4**	552	**F512_30.0 P132 BE132MA4**	550

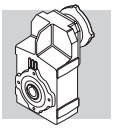


7.5 kW

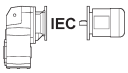
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
59	1129	2.4	29.6	18500	**F603_29.6 S4 ME4LA4**	562	**F603_29.6 P132 BE132MA4**	560
69	969	1.8	25.4	18500	**F603_25.4 S4 ME4LA4**	562	**F603_25.4 P132 BE132MA4**	560
73	939	1.1	24.1	5044	**F412_24.1 S4 ME4LA4**	542	**F412_24.1 P132 BE132MA4**	540
74	927	1.6	23.8	8061	**F512_23.8 S4 ME4LA4**	552	**F512_23.8 P132 BE132MA4**	550
75	895	2.0	23.5	18500	**F603_23.5 S4 ME4LA4**	562	**F603_23.5 P132 BE132MA4**	560
85	788	2.3	20.7	18500	**F603_20.7 S4 ME4LA4**	562	**F603_20.7 P132 BE132MA4**	560
92	727	2.4	19.1	18500	**F603_19.1 S4 ME4LA4**	562	**F603_19.1 P132 BE132MA4**	560
93	736	1.4	18.9	5163	**F412_18.9 S4 ME4LA4**	542	**F412_18.9 P132 BE132MA4**	540
94	733	1.9	18.8	7796	**F512_18.8 S4 ME4LA4**	552	**F512_18.8 P132 BE132MA4**	550
103	667	1.5	17.1	5181	**F412_17.1 S4 ME4LA4**	542	**F412_17.1 P132 BE132MA4**	540
112	598	3.0	15.7	18500	**F603_15.7 S4 ME4LA4**	562	**F603_15.7 P132 BE132MA4**	560
120	570	1.6	14.6	5163	**F412_14.6 S4 ME4LA4**	542	**F412_14.6 P132 BE132MA4**	540
126	544	2.4	14.0	7393	**F512_14.0 S4 ME4LA4**	552	**F512_14.0 P132 BE132MA4**	550
126	543	1.0	13.9	3646	**F312_13.9 S4 ME4LA4**	532	**F312_13.9 P132 BE132MA4**	530
138	496	1.1	12.7	3554	**F312_12.7 S4 ME4LA4**	532	**F312_12.7 P132 BE132MA4**	530
158	433	2.8	11.1	7046	**F512_11.1 S4 ME4LA4**	552	**F512_11.1 P132 BE132MA4**	550
163	420	2.0	10.8	5034	**F412_10.8 S4 ME4LA4**	542	**F412_10.8 P132 BE132MA4**	540
164	419	1.3	10.7	3417	**F312_10.7 S4 ME4LA4**	532	**F312_10.7 P132 BE132MA4**	530
193	356	1.8	9.1	4961	**F412_9.1 S4 ME4LA4**	542	**F412_9.1 P132 BE132MA4**	540
194	353	2.8	9.1	6670	**F512_9.1 S4 ME4LA4**	552	**F512_9.1 P132 BE132MA4**	550
195	351	1.0	9.0	3453	**F312_9.0 S4 ME4LA4**	532	**F312_9.0 P132 BE132MA4**	530
214	321	1.1	8.2	3371	**F312_8.2 S4 ME4LA4**	532	**F312_8.2 P132 BE132MA4**	530
253	271	1.3	6.9	3224	**F312_6.9 S4 ME4LA4**	532	**F312_6.9 P132 BE132MA4**	530
262	262	2.3	6.7	4713	**F412_6.7 S4 ME4LA4**	542	**F412_6.7 P132 BE132MA4**	540

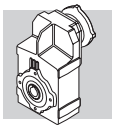
9.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
6.0	13100	1.1	291.1	50930	**F904_291.1 S4 ME4LB4**	588	**F904_291.1 P132 BE132MB4**	586
6.5	12093	1.2	268.7	50930	**F904_268.7 S4 ME4LB4**	588	**F904_268.7 P132 BE132MB4**	586
7.6	10413	1.3	231.4	50930	**F904_231.4 S4 ME4LB4**	588	**F904_231.4 P132 BE132MB4**	586
8.2	9612	1.5	213.6	50930	**F904_213.6 S4 ME4LB4**	588	**F904_213.6 P132 BE132MB4**	586
9.1	9028	1.6	194.2	50930	**F903_194.2 S4 ME4LB4**	588	**F903_194.2 P132 BE132MB4**	586
9.5	8585	0.9	184.6	38934	**F803_184.6 S4 ME4LB4**	580	**F803_184.6 P132 BE132MB4**	578
9.8	8334	1.7	179.2	50930	**F903_179.2 S4 ME4LB4**	588	**F903_179.2 P132 BE132MB4**	586
10.8	7572	1.8	162.8	50930	**F903_162.8 S4 ME4LB4**	588	**F903_162.8 P132 BE132MB4**	586
11.0	7451	1.1	160.2	41715	**F803_160.2 S4 ME4LB4**	580	**F803_160.2 P132 BE132MB4**	578
11.7	6989	2.0	150.3	50930	**F903_150.3 S4 ME4LB4**	588	**F903_150.3 P132 BE132MB4**	586
11.9	6877	1.2	147.9	41715	**F803_147.9 S4 ME4LB4**	580	**F803_147.9 P132 BE132MB4**	578
12.8	6386	2.2	137.3	50930	**F903_137.3 S4 ME4LB4**	588	**F903_137.3 P132 BE132MB4**	586
13.3	6170	1.3	132.7	41715	**F803_132.7 S4 ME4LB4**	580	**F803_132.7 P132 BE132MB4**	578
13.9	5895	2.4	126.8	50930	**F903_126.8 S4 ME4LB4**	588	**F903_126.8 P132 BE132MB4**	586



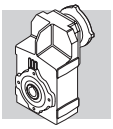
9.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
14.4	5696	1.4	122.5	41715	**F803_122.5 S4 ME4LB4**	580	**F803_122.5 P132 BE132MB4**	578
15.5	5289	1.5	113.8	41715	**F803_113.8 S4 ME4LB4**	580	**F803_113.8 P132 BE132MB4**	578
15.7	5205	2.7	111.9	50930	**F903_111.9 S4 ME4LB4**	588	**F903_111.9 P132 BE132MB4**	586
16.1	5097	1.0	109.6	32375	**F703_109.6 S4 ME4LB4**	572	**F703_109.6 P132 BE132MB4**	570
16.8	4883	1.6	105.0	41715	**F803_105.0 S4 ME4LB4**	580	**F803_105.0 P132 BE132MB4**	578
17.0	4805	2.9	103.3	50930	**F903_103.3 S4 ME4LB4**	588	**F903_103.3 P132 BE132MB4**	586
17.4	4705	1.1	101.2	32375	**F703_101.2 S4 ME4LB4**	572	**F703_101.2 P132 BE132MB4**	570
19.0	4301	1.2	92.5	32375	**F703_92.5 S4 ME4LB4**	572	**F703_92.5 P132 BE132MB4**	570
19.1	4292	1.9	92.3	41715	**F803_92.3 S4 ME4LB4**	580	**F803_92.3 P132 BE132MB4**	578
20.6	3970	1.3	85.4	32375	**F703_85.4 S4 ME4LB4**	572	**F703_85.4 P132 BE132MB4**	570
20.7	3962	2.0	85.2	41715	**F803_85.2 S4 ME4LB4**	580	**F803_85.2 P132 BE132MB4**	578
23.1	3546	2.3	76.3	40881	**F803_76.3 S4 ME4LB4**	580	**F803_76.3 P132 BE132MB4**	578
23.9	3420	1.5	73.6	32375	**F703_73.6 S4 ME4LB4**	572	**F703_73.6 P132 BE132MB4**	570
25.0	3273	2.4	70.4	40510	**F803_70.4 S4 ME4LB4**	580	**F803_70.4 P132 BE132MB4**	578
25.8	3175	0.9	68.3	17575	**F603_68.3 S4 ME4LB4**	562	**F603_68.3 P132 BE132MB4**	560
25.9	3157	1.6	67.9	32005	**F703_67.9 S4 ME4LB4**	572	**F703_67.9 P132 BE132MB4**	570
27.9	2931	1.0	63.0	18500	**F603_63.0 S4 ME4LB4**	562	**F603_63.0 P132 BE132MB4**	560
28.2	2906	1.7	62.5	31635	**F703_62.5 S4 ME4LB4**	572	**F703_62.5 P132 BE132MB4**	570
28.6	2858	2.8	61.5	39119	**F803_61.5 S4 ME4LB4**	580	**F803_61.5 P132 BE132MB4**	578
31	2683	1.9	57.7	31173	**F703_57.7 S4 ME4LB4**	572	**F703_57.7 P132 BE132MB4**	570
34	2410	1.2	51.8	18500	**F603_51.8 S4 ME4LB4**	562	**F603_51.8 P132 BE132MB4**	560
36	2277	2.0	49.0	30340	**F703_49.0 S4 ME4LB4**	572	**F703_49.0 P132 BE132MB4**	570
37	2225	1.3	47.8	18500	**F603_47.8 S4 ME4LB4**	562	**F603_47.8 P132 BE132MB4**	560
39	2101	2.2	45.2	29878	**F703_45.2 S4 ME4LB4**	572	**F703_45.2 P132 BE132MB4**	570
42	1957	1.5	42.1	18500	**F603_42.1 S4 ME4LB4**	562	**F603_42.1 P132 BE132MB4**	560
45	1806	1.6	38.8	18500	**F603_38.8 S4 ME4LB4**	562	**F603_38.8 P132 BE132MB4**	560
55	1492	1.9	32.1	18500	**F603_32.1 S4 ME4LB4**	562	**F603_32.1 P132 BE132MB4**	560
59	1427	1.1	30.0	7512	**F512_30.0 S4 ME4LB4**	552	**F512_30.0 P132 BE132MB4**	550
59	1377	2.0	29.6	18500	**F603_29.6 S4 ME4LB4**	562	**F603_29.6 P132 BE132MB4**	560
69	1182	1.5	25.4	18500	**F603_25.4 S4 ME4LB4**	562	**F603_25.4 P132 BE132MB4**	560
74	1130	1.3	23.8	7476	**F512_23.8 S4 ME4LB4**	552	**F512_23.8 P132 BE132MB4**	550
75	1091	1.6	23.5	18500	**F603_23.5 S4 ME4LB4**	562	**F603_23.5 P132 BE132MB4**	560
85	961	1.9	20.7	18500	**F603_20.7 S4 ME4LB4**	562	**F603_20.7 P132 BE132MB4**	560
92	887	2.0	19.1	18500	**F603_19.1 S4 ME4LB4**	562	**F603_19.1 P132 BE132MB4**	560
93	897	1.1	18.9	4512	**F412_18.9 S4 ME4LB4**	542	**F412_18.9 P132 BE132MB4**	540
94	894	1.6	18.8	7338	**F512_18.8 S4 ME4LB4**	552	**F512_18.8 P132 BE132MB4**	550
103	813	1.2	17.1	4585	**F412_17.1 S4 ME4LB4**	542	**F412_17.1 P132 BE132MB4**	540
112	729	2.4	15.7	18500	**F603_15.7 S4 ME4LB4**	562	**F603_15.7 P132 BE132MB4**	560
120	695	1.4	14.6	4649	**F412_14.6 S4 ME4LB4**	542	**F412_14.6 P132 BE132MB4**	540
122	673	2.6	14.5	18500	**F603_14.5 S4 ME4LB4**	562	**F603_14.5 P132 BE132MB4**	560
126	664	2.0	14.0	7046	**F512_14.0 S4 ME4LB4**	552	**F512_14.0 P132 BE132MB4**	550
138	605	0.9	12.7	3206	**F312_12.7 S4 ME4LB4**	532	**F312_12.7 P132 BE132MB4**	530
158	528	2.3	11.1	6771	**F512_11.1 S4 ME4LB4**	552	**F512_11.1 P132 BE132MB4**	550
163	512	1.6	10.8	4658	**F412_10.8 S4 ME4LB4**	542	**F412_10.8 P132 BE132MB4**	540
164	511	1.1	10.7	3353	**F312_10.7 S4 ME4LB4**	532	**F312_10.7 P132 BE132MB4**	530
193	434	1.5	9.1	4658	**F412_9.1 S4 ME4LB4**	542	**F412_9.1 P132 BE132MB4**	540
194	430	2.3	9.1	6442	**F512_9.1 S4 ME4LB4**	552	**F512_9.1 P132 BE132MB4**	550
214	391	0.9	8.2	3069	**F312_8.2 S4 ME4LB4**	532	**F312_8.2 P132 BE132MB4**	530
245	342	2.6	7.2	6131	**F512_7.2 S4 ME4LB4**	552	**F512_7.2 P132 BE132MB4**	550
253	330	1.1	6.9	3160	**F312_6.9 S4 ME4LB4**	532	**F312_6.9 P132 BE132MB4**	530
262	320	1.9	6.7	4484	**F412_6.7 S4 ME4LB4**	542	**F412_6.7 P132 BE132MB4**	540



11 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
6.6	14511	1.0	268.7	50930	**F904_268.7 S5 ME5SA4**	588	**F904_268.7 P160 BE160M4**	586
7.6	12495	1.1	231.4	50930	**F904_231.4 S5 ME5SA4**	588	**F904_231.4 P160 BE160M4**	586
8.3	11534	1.2	213.6	50930	**F904_213.6 S5 ME5SA4**	588	**F904_213.6 P160 BE160M4**	586
9.1	10834	1.3	194.2	50930	**F903_194.2 S5 ME5SA4**	588	**F903_194.2 P160 BE160M4**	586
9.8	10000	1.4	179.2	50930	**F903_179.2 S5 ME5SA4**	588	**F903_179.2 P160 BE160M4**	586
10.8	9086	1.5	162.8	50930	**F903_162.8 S5 ME5SA4**	588	**F903_162.8 P160 BE160M4**	586
11.7	8387	1.7	150.3	50930	**F903_150.3 S5 ME5SA4**	588	**F903_150.3 P160 BE160M4**	586
11.9	8253	1.0	147.9	39861	**F803_147.9 S5 ME5SA4**	580	**F803_147.9 P160 BE160M4**	578
12.9	7664	1.8	137.3	50930	**F903_137.3 S5 ME5SA4**	588	**F903_137.3 P160 BE160M4**	586
13.3	7404	1.1	132.7	41715	**F803_132.7 S5 ME5SA4**	580	**F803_132.7 P160 BE160M4**	578
13.9	7074	2.0	126.8	50930	**F903_126.8 S5 ME5SA4**	588	**F903_126.8 P160 BE160M4**	586
14.4	6835	1.2	122.5	41715	**F803_122.5 S5 ME5SA4**	580	**F803_122.5 P160 BE160M4**	578
15.5	6347	1.3	113.8	41715	**F803_113.8 S5 ME5SA4**	580	**F803_113.8 P160 BE160M4**	578
15.8	6247	2.2	111.9	50930	**F903_111.9 S5 ME5SA4**	588	**F903_111.9 P160 BE160M4**	586
16.8	5859	1.4	105.0	41159	**F803_105.0 S5 ME5SA4**	580	**F803_105.0 P160 BE160M4**	578
17.1	5766	2.4	103.3	50930	**F903_103.3 S5 ME5SA4**	588	**F903_103.3 P160 BE160M4**	586
18.4	5343	2.6	95.8	50930	**F903_95.8 S5 ME5SA4**	588	**F903_95.8 P160 BE160M4**	586
19.1	5162	1.0	92.5	29600	**F703_92.5 S5 ME5SA4**	572	**F703_92.5 P160 BE160M4**	570
19.1	5151	1.6	92.3	40881	**F803_92.3 S5 ME5SA4**	580	**F803_92.3 P160 BE160M4**	578
20.0	4932	2.8	88.4	50930	**F903_88.4 S5 ME5SA4**	588	**F903_88.4 P160 BE160M4**	586
20.7	4764	1.0	85.4	30710	**F703_85.4 S5 ME5SA4**	572	**F703_85.4 P160 BE160M4**	570
20.7	4755	1.7	85.2	40788	**F803_85.2 S5 ME5SA4**	580	**F803_85.2 P160 BE160M4**	578
23.1	4255	1.9	76.3	39676	**F803_76.3 S5 ME5SA4**	580	**F803_76.3 P160 BE160M4**	578
24.0	4105	1.2	73.6	30988	**F703_73.6 S5 ME5SA4**	572	**F703_73.6 P160 BE160M4**	570
25.1	3927	2.0	70.4	39398	**F803_70.4 S5 ME5SA4**	580	**F803_70.4 P160 BE160M4**	578
26.0	3789	1.3	67.9	30618	**F703_67.9 S5 ME5SA4**	572	**F703_67.9 P160 BE160M4**	570
28.2	3488	1.4	62.5	30433	**F703_62.5 S5 ME5SA4**	572	**F703_62.5 P160 BE160M4**	570
28.7	3429	2.3	61.5	38100	**F803_61.5 S5 ME5SA4**	580	**F803_61.5 P160 BE160M4**	578
31	3219	1.6	57.7	30063	**F703_57.7 S5 ME5SA4**	572	**F703_57.7 P160 BE160M4**	570
31	3166	2.5	56.7	37822	**F803_56.7 S5 ME5SA4**	580	**F803_56.7 P160 BE160M4**	578
34	2892	1.0	51.8	18500	**F603_51.8 S5 ME5SA4**	562	**F603_51.8 P160 BE160M4**	560
36	2740	2.9	49.1	36246			**F803_49.1 P160 BE160M4**	578
36	2732	1.7	49.0	29415	**F703_49.0 S5 ME5SA4**	572	**F703_49.0 P160 BE160M4**	570
37	2669	1.1	47.8	18500	**F603_47.8 S5 ME5SA4**	562	**F603_47.8 P160 BE160M4**	560
39	2522	1.8	45.2	28953	**F703_45.2 S5 ME5SA4**	572	**F703_45.2 P160 BE160M4**	570
42	2348	1.2	42.1	18500	**F603_42.1 S5 ME5SA4**	562	**F603_42.1 P160 BE160M4**	560
45	2168	1.3	38.8	18500	**F603_38.8 S5 ME5SA4**	562	**F603_38.8 P160 BE160M4**	560
46	2142	2.2	38.4	27935			**F703_38.4 P160 BE160M4**	570
50	1978	2.3	35.4	27380			**F703_35.4 P160 BE160M4**	570
55	1790	1.6	32.1	18500	**F603_32.1 S5 ME5SA4**	562	**F603_32.1 P160 BE160M4**	560
59	1712	0.9	30.0	6945	**F512_30.0 S5 ME5SA4**	552	**F512_30.0 P160 BE160M4**	550
59	1674	2.8	30.0	26825			**F703_30.0 P160 BE160M4**	570
60	1653	1.7	29.6	18500	**F603_29.6 S5 ME5SA4**	562	**F603_29.6 P160 BE160M4**	560
64	1545	2.8	27.7	26178			**F703_27.7 P160 BE160M4**	570
69	1418	1.3	25.4	18500	**F603_25.4 S5 ME5SA4**	562	**F603_25.4 P160 BE160M4**	560
72	1370	2.7	24.6	25715	**F703_24.6 S5 ME5SA4**	572	**F703_24.6 P160 BE160M4**	570
74	1356	1.1	23.8	6863	**F512_23.8 S5 ME5SA4**	552	**F512_23.8 P160 BE160M4**	550
75	1309	1.4	23.5	18500	**F603_23.5 S5 ME5SA4**	562	**F603_23.5 P160 BE160M4**	560
85	1153	1.5	20.7	18500	**F603_20.7 S5 ME5SA4**	562	**F603_20.7 P160 BE160M4**	560
93	1064	1.7	19.1	18500	**F603_19.1 S5 ME5SA4**	562	**F603_19.1 P160 BE160M4**	560
94	1073	1.3	18.8	6853	**F512_18.8 S5 ME5SA4**	552	**F512_18.8 P160 BE160M4**	550
113	875	2.0	15.7	18500	**F603_15.7 S5 ME5SA4**	562	**F603_15.7 P160 BE160M4**	560

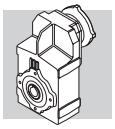


11 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
122	808	2.2	14.5	18500	**F603_14.5 S5 ME5SA4**	562	**F603_14.5 P160 BE160M4**	560
126	797	1.6	14.0	6689	**F512_14.0 S5 ME5SA4**	552	**F512_14.0 P160 BE160M4**	550
139	710	2.5	12.7	17945	**F603_12.7 S5 ME5SA4**	562	**F603_12.7 P160 BE160M4**	560
150	656	2.7	11.8	17575	**F603_11.8 S5 ME5SA4**	562	**F603_11.8 P160 BE160M4**	560
159	633	1.9	11.1	6487	**F512_11.1 S5 ME5SA4**	552	**F512_11.1 P160 BE160M4**	550
195	516	1.9	9.1	6195	**F512_9.1 S5 ME5SA4**	552	**F512_9.1 P160 BE160M4**	550
245	410	2.2	7.2	5938	**F512_7.2 S5 ME5SA4**	552	**F512_7.2 P160 BE160M4**	550

15 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
9.1	14626	1.0	194.2	50930	**F903_194.2 S5 ME5LA4**	588	**F903_194.2 P160 BE160L4**	586
9.9	13501	1.0	179.2	50930	**F903_179.2 S5 ME5LA4**	588	**F903_179.2 P160 BE160L4**	586
10.9	12266	1.1	162.8	50930	**F903_162.8 S5 ME5LA4**	588	**F903_162.8 P160 BE160L4**	586
11.8	11323	1.2	150.3	50930	**F903_150.3 S5 ME5LA4**	588	**F903_150.3 P160 BE160L4**	586
12.9	10346	1.4	137.3	50930	**F903_137.3 S5 ME5LA4**	588	**F903_137.3 P160 BE160L4**	586
14.0	9550	1.5	126.8	50930	**F903_126.8 S5 ME5LA4**	588	**F903_126.8 P160 BE160L4**	586
15.6	8569	0.9	113.8	38007	**F803_113.8 S5 ME5LA4**	580	**F803_113.8 P160 BE160L4**	578
15.8	8433	1.7	111.9	50930	**F903_111.9 S5 ME5LA4**	588	**F903_111.9 P160 BE160L4**	586
16.9	7910	1.0	105.0	38749	**F803_105.0 S5 ME5LA4**	580	**F803_105.0 P160 BE160L4**	578
17.1	7784	1.8	103.3	50930	**F903_103.3 S5 ME5LA4**	588	**F903_103.3 P160 BE160L4**	586
18.5	7214	1.9	95.8	50930	**F903_95.8 S5 ME5LA4**	588	**F903_95.8 P160 BE160L4**	586
19.2	6954	1.2	92.3	38285	**F803_92.3 S5 ME5LA4**	580	**F803_92.3 P160 BE160L4**	578
20.0	6659	2.1	88.4	50930	**F903_88.4 S5 ME5LA4**	588	**F903_88.4 P160 BE160L4**	586
20.8	6419	1.2	85.2	37822	**F803_85.2 S5 ME5LA4**	580	**F803_85.2 P160 BE160L4**	578
23.1	5774	2.4	76.7	50930	**F903_76.7 S5 ME5LA4**	588	**F903_76.7 P160 BE160L4**	586
23.2	5744	1.4	76.3	37544	**F803_76.3 S5 ME5LA4**	580	**F803_76.3 P160 BE160L4**	578
24.1	5541	0.9	73.6	28953	**F703_73.6 S5 ME5LA4**	572	**F703_73.6 P160 BE160L4**	570
25.0	5330	2.6	70.8	50930	**F903_70.8 S5 ME5LA4**	588	**F903_70.8 P160 BE160L4**	586
25.1	5302	1.5	70.4	36987	**F803_70.4 S5 ME5LA4**	580	**F803_70.4 P160 BE160L4**	578
26.1	5115	1.0	67.9	29508	**F703_67.9 S5 ME5LA4**	572	**F703_67.9 P160 BE160L4**	570
28.3	4708	1.1	62.5	28953	**F703_62.5 S5 ME5LA4**	572	**F703_62.5 P160 BE160L4**	570
28.5	4678	3.0	62.1	50930			**F903_62.1 P160 BE160L4**	586
28.8	4630	1.7	61.5	35875	**F803_61.5 S5 ME5LA4**	580	**F803_61.5 P160 BE160L4**	578
31	4346	1.2	57.7	27473	**F703_57.7 S5 ME5LA4**	572	**F703_57.7 P160 BE160L4**	570
31	4274	1.9	56.7	35782	**F803_56.7 S5 ME5LA4**	580	**F803_56.7 P160 BE160L4**	578
36	3699	2.2	49.1	35041			**F803_49.1 P160 BE160L4**	578
36	3688	1.3	49.0	27195	**F703_49.0 S5 ME5LA4**	572	**F703_49.0 P160 BE160L4**	570
39	3415	2.3	45.3	34484			**F803_45.3 P160 BE160L4**	578
39	3404	1.4	45.2	26918	**F703_45.2 S5 ME5LA4**	572	**F703_45.2 P160 BE160L4**	570
42	3170	0.9	42.1	17575	**F603_42.1 S5 ME5LA4**	562	**F603_42.1 P160 BE160L4**	560
45	2938	2.5	39.0	33187			**F803_39.0 P160 BE160L4**	578
46	2926	1.0	38.8	18500	**F603_38.8 S5 ME5LA4**	562	**F603_38.8 P160 BE160L4**	560
46	2892	1.6	38.4	26455			**F703_38.4 P160 BE160L4**	570
49	2712	2.7	36.0	32630			**F803_36.0 P160 BE160L4**	578
50	2670	1.7	35.4	26085			**F703_35.4 P160 BE160L4**	570
55	2417	1.2	32.1	18500	**F603_32.1 S5 ME5LA4**	562	**F603_32.1 P160 BE160L4**	560
59	2260	2.1	30.0	25623			**F703_30.0 P160 BE160L4**	570
60	2231	1.2	29.6	18500	**F603_29.6 S5 ME5LA4**	562	**F603_29.6 P160 BE160L4**	560
64	2086	2.1	27.7	25068			**F703_27.7 P160 BE160L4**	570
70	1915	0.9	25.4	17575	**F603_25.4 S5 ME5LA4**	562	**F603_25.4 P160 BE160L4**	560

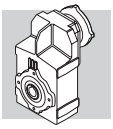


15 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
72	1850	2.0	24.6	24513	**F703_24.6 S5 ME5LA4**	572	**F703_24.6 P160 BE160L4**	570
75	1768	1.0	23.5	18500	**F603_23.5 S5 ME5LA4**	562	**F603_23.5 P160 BE160L4**	560
78	1703	2.4	22.6	24235	**F703_22.6 S5 ME5LA4**	572	**F703_22.6 P160 BE160L4**	570
85	1572	2.4	20.9	23773	**F703_20.9 S5 ME5LA4**	572	**F703_20.9 P160 BE160L4**	570
86	1556	1.1	20.7	18500	**F603_20.7 S5 ME5LA4**	562	**F603_20.7 P160 BE160L4**	560
93	1436	1.2	19.1	18500	**F603_19.1 S5 ME5LA4**	562	**F603_19.1 P160 BE160L4**	560
94	1448	1.0	18.8	6222	**F512_18.8 S5 ME5LA4**	552	**F512_18.8 P160 BE160L4**	550
113	1181	1.5	15.7	18130	**F603_15.7 S5 ME5LA4**	562	**F603_15.7 P160 BE160L4**	560
122	1090	1.6	14.5	17760	**F603_14.5 S5 ME5LA4**	562	**F603_14.5 P160 BE160L4**	560
127	1076	1.2	14.0	5902	**F512_14.0 S5 ME5LA4**	552	**F512_14.0 P160 BE160L4**	550
139	959	1.9	12.7	17390	**F603_12.7 S5 ME5LA4**	562	**F603_12.7 P160 BE160L4**	560
151	885	2.0	11.8	17020	**F603_11.8 S5 ME5LA4**	562	**F603_11.8 P160 BE160L4**	560
159	855	1.4	11.1	5490	**F512_11.1 S5 ME5LA4**	552	**F512_11.1 P160 BE160L4**	550
182	731	2.4	9.7	16373	**F603_9.7 S5 ME5LA4**	562	**F603_9.7 P160 BE160L4**	560
196	696	1.4	9.1	5307	**F512_9.1 S5 ME5LA4**	552	**F512_9.1 P160 BE160L4**	550
198	675	2.6	9.0	16003	**F603_9.0 S5 ME5LA4**	562	**F603_9.0 P160 BE160L4**	560
246	554	1.6	7.2	5161	**F512_7.2 S5 ME5LA4**	552	**F512_7.2 P160 BE160L4**	550

18.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
10.8	15143	0.9	162.8	48615			**F903_162.8 P180 BE180M4**	586
11.7	13978	1.0	150.3	50930			**F903_150.3 P180 BE180M4**	586
12.9	12773	1.1	137.3	50930			**F903_137.3 P180 BE180M4**	586
13.9	11790	1.2	126.8	50930			**F903_126.8 P180 BE180M4**	586
15.8	10411	1.3	111.9	50930			**F903_111.9 P180 BE180M4**	586
17.1	9610	1.5	103.3	50930			**F903_103.3 P180 BE180M4**	586
18.4	8906	1.6	95.8	50930			**F903_95.8 P180 BE180M4**	586
19.1	8585	0.9	92.3	35041			**F803_92.3 P180 BE180M4**	578
20.0	8221	1.7	88.4	50930			**F903_88.4 P180 BE180M4**	586
20.7	7924	1.0	85.2	35690			**F803_85.2 P180 BE180M4**	578
23.0	7128	2.0	76.7	50930			**F903_76.7 P180 BE180M4**	586
23.1	7091	1.1	76.3	35319			**F803_76.3 P180 BE180M4**	578
24.9	6580	2.1	70.8	50930			**F903_70.8 P180 BE180M4**	586
25.1	6546	1.2	70.4	34855			**F803_70.4 P180 BE180M4**	578
28.4	5775	2.4	62.1	50930			**F903_62.1 P180 BE180M4**	586
28.7	5716	1.4	61.5	34670			**F803_61.5 P180 BE180M4**	578
31	5365	0.9	57.7	26548			**F703_57.7 P180 BE180M4**	570
31	5331	2.4	57.3	50930			**F903_57.3 P180 BE180M4**	586
31	5276	1.5	56.7	34114			**F803_56.7 P180 BE180M4**	578
35	4640	2.8	49.9	50930			**F903_49.9 P180 BE180M4**	586
36	4567	1.8	49.1	33187			**F803_49.1 P180 BE180M4**	578
36	4553	1.0	49.0	25345			**F703_49.0 P180 BE180M4**	570
39	4216	1.9	45.3	33094			**F803_45.3 P180 BE180M4**	578
39	4203	1.1	45.2	25160			**F703_45.2 P180 BE180M4**	570
45	3627	2.0	39.0	32445			**F803_39.0 P180 BE180M4**	578
46	3571	1.3	38.4	24975			**F703_38.4 P180 BE180M4**	570
49	3348	2.2	36.0	31889			**F803_36.0 P180 BE180M4**	578

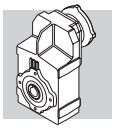


18.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
50	3296	1.4	35.4	24698			**F703_35.4 P180 BE180M4**	570
55	2984	0.9	32.1	17113			**F603_32.1 P180 BE180M4**	560
56	2906	2.6	31.3	30962			**F803_31.3 P180 BE180M4**	578
59	2790	1.7	30.0	24513			**F703_30.0 P180 BE180M4**	570
60	2754	1.0	29.6	17760			**F603_29.6 P180 BE180M4**	560
61	2683	2.8	28.8	30591			**F803_28.8 P180 BE180M4**	578
64	2575	1.7	27.7	24050			**F703_27.7 P180 BE180M4**	570
70	2346	2.5	25.2	29757			**F803_25.2 P180 BE180M4**	578
72	2284	1.6	24.6	23588			**F703_24.6 P180 BE180M4**	570
78	2102	1.9	22.6	23310			**F703_22.6 P180 BE180M4**	570
85	1940	1.9	20.9	23033			**F703_20.9 P180 BE180M4**	570
85	1921	0.9	20.7	17113			**F603_20.7 P180 BE180M4**	560
93	1773	1.0	19.1	17760			**F603_19.1 P180 BE180M4**	560
100	1647	2.4	17.7	22385			**F703_17.7 P180 BE180M4**	570
108	1520	2.4	16.3	22015			**F703_16.3 P180 BE180M4**	570
113	1458	1.2	15.7	17298			**F603_15.7 P180 BE180M4**	560
122	1346	1.3	14.5	17205			**F603_14.5 P180 BE180M4**	560
126	1328	1.0	14.0	5399			**F512_14.0 P180 BE180M4**	550
127	1291	2.8	13.9	21275			**F703_13.9 P180 BE180M4**	570
138	1192	2.8	12.8	20905			**F703_12.8 P180 BE180M4**	570
139	1184	1.5	12.7	16928			**F603_12.7 P180 BE180M4**	560
150	1093	1.6	11.8	16558			**F603_11.8 P180 BE180M4**	560
159	1055	1.1	11.1	5307			**F512_11.1 P180 BE180M4**	550
182	903	2.0	9.7	16003			**F603_9.7 P180 BE180M4**	560
195	860	1.2	9.1	5151			**F512_9.1 P180 BE180M4**	550
197	833	2.1	9.0	15633			**F603_9.0 P180 BE180M4**	560
245	683	1.3	7.2	4941			**F512_7.2 P180 BE180M4**	550

22 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
12.9	15199	0.9	137.3	48615			**F903_137.3 P180 BE180L4**	586
14.0	14030	1.0	126.8	50745			**F903_126.8 P180 BE180L4**	586
15.8	12389	1.1	111.9	50930			**F903_111.9 P180 BE180L4**	586
17.1	11436	1.2	103.3	50930			**F903_103.3 P180 BE180L4**	586
18.5	10598	1.3	95.8	50930			**F903_95.8 P180 BE180L4**	586
20.0	9783	1.4	88.4	50930			**F903_88.4 P180 BE180L4**	586
23.1	8483	1.7	76.7	50930			**F903_76.7 P180 BE180L4**	586
23.2	8439	0.9	76.3	32352			**F803_76.3 P180 BE180L4**	578
25.0	7830	1.8	70.8	50930			**F903_70.8 P180 BE180L4**	586
25.1	7789	1.0	70.4	32352			**F803_70.4 P180 BE180L4**	578
28.5	6873	2.0	62.1	50930			**F903_62.1 P180 BE180L4**	586
28.8	6802	1.2	61.5	32816			**F803_61.5 P180 BE180L4**	578
31	6344	2.1	57.3	50930			**F903_57.3 P180 BE180L4**	586
31	6278	1.3	56.7	32445			**F803_56.7 P180 BE180L4**	578
35	5522	2.4	49.9	50374			**F903_49.9 P180 BE180L4**	586
36	5435	1.5	49.1	31611			**F803_49.1 P180 BE180L4**	578
38	5097	2.5	46.1	49541			**F903_46.1 P180 BE180L4**	586



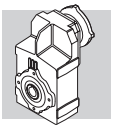
22 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
39	5017	1.6	45.3	31796			**F803_45.3 P180 BE180L4**	578
39	5001	0.9	45.2	24143			**F703_45.2 P180 BE180L4**	570
44	4482	2.9	40.5	48430			**F903_40.5 P180 BE180L4**	586
45	4316	1.7	39.0	30869			**F803_39.0 P180 BE180L4**	578
46	4249	1.1	38.4	23495			**F703_38.4 P180 BE180L4**	570
49	3984	1.9	36.0	30776			**F803_36.0 P180 BE180L4**	578
50	3922	1.2	35.4	23403			**F703_35.4 P180 BE180L4**	570
57	3458	2.1	31.3	30220			**F803_31.3 P180 BE180L4**	578
59	3320	1.4	30.0	23218			**F703_30.0 P180 BE180L4**	570
61	3192	2.3	28.8	29664			**F803_28.8 P180 BE180L4**	578
64	3065	1.4	27.7	22940			**F703_27.7 P180 BE180L4**	570
70	2792	2.1	25.2	29015			**F803_25.2 P180 BE180L4**	578
72	2718	1.4	24.6	22663			**F703_24.6 P180 BE180L4**	570
78	2502	1.6	22.6	22478			**F703_22.6 P180 BE180L4**	570
80	2438	2.6	22.0	27995			**F803_22.0 P180 BE180L4**	578
85	2309	1.6	20.9	22200			**F703_20.9 P180 BE180L4**	570
87	2250	2.6	20.3	27717			**F803_20.3 P180 BE180L4**	578
100	1960	2.1	17.7	21645			**F703_17.7 P180 BE180L4**	570
108	1809	2.0	16.3	21368			**F703_16.3 P180 BE180L4**	570
113	1735	1.0	15.7	16835			**F603_15.7 P180 BE180L4**	560
122	1602	1.1	14.5	16650			**F603_14.5 P180 BE180L4**	560
127	1537	2.4	13.9	20720			**F703_13.9 P180 BE180L4**	570
138	1418	2.4	12.8	20443			**F703_12.8 P180 BE180L4**	570
139	1409	1.3	12.7	16373			**F603_12.7 P180 BE180L4**	560
151	1301	1.4	11.8	16095			**F603_11.8 P180 BE180L4**	560
159	1256	1.0	11.1	4740			**F512_11.1 P180 BE180L4**	550
163	1201	2.7	10.9	19795			**F703_10.9 P180 BE180L4**	570
177	1108	2.7	10.0	19425			**F703_10.0 P180 BE180L4**	570
182	1074	1.7	9.7	15633			**F603_9.7 P180 BE180L4**	560
196	1023	1.0	9.1	4804			**F512_9.1 P180 BE180L4**	550
198	992	1.8	9.0	15263			**F603_9.0 P180 BE180L4**	560
246	813	1.1	7.2	4804			**F512_7.2 P180 BE180L4**	550

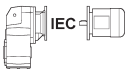
30 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
18.4	14427	1.0	95.8	47874			**F903_95.8 P200 IEC200L4**	586
19.9	13317	1.1	88.4	48337			**F903_88.4 P200 IEC200L4**	586
23.0	11548	1.2	76.7	48522			**F903_76.7 P200 IEC200L4**	586
24.9	10660	1.3	70.8	48245			**F903_70.8 P200 IEC200L4**	586
28.3	9356	1.5	62.1	47967			**F903_62.1 P200 IEC200L4**	586
31	8636	1.5	57.3	47596			**F903_57.3 P200 IEC200L4**	586
31	8547	0.9	56.7	28922			**F803_56.7 P200 IEC200L4**	578
35	7517	1.7	49.9	47041			**F903_49.9 P200 IEC200L4**	586
36	7398	1.1	49.1	28366			**F803_49.1 P200 IEC200L4**	578
38	6939	1.9	46.1	46485			**F903_46.1 P200 IEC200L4**	586
39	6829	1.2	45.3	28644			**F803_45.3 P200 IEC200L4**	578
43	6102	2.1	40.5	45744			**F903_40.5 P200 IEC200L4**	586
45	5876	1.3	39.0	28737			**F803_39.0 P200 IEC200L4**	578
47	5632	2.2	37.4	45096			**F903_37.4 P200 IEC200L4**	586

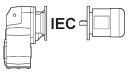
As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



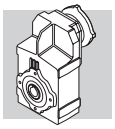
30 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
49	5424	1.4	36.0	28366			**F803_36.0 P200 IEC200L4**	578
56	4708	1.6	31.3	27717			**F803_31.3 P200 IEC200L4**	578
57	4670	2.6	31.0	43800			**F903_31.0 P200 IEC200L4**	586
59	4520	1.0	30.0	20628			**F703_30.0 P200 IEC200L4**	570
61	4346	1.7	28.8	27347			**F803_28.8 P200 IEC200L4**	578
62	4311	2.6	28.6	43152			**F903_28.6 P200 IEC200L4**	586
64	4172	1.0	27.7	20535			**F703_27.7 P200 IEC200L4**	570
69	3825	2.9	25.4	42133			**F903_25.4 P200 IEC200L4**	586
70	3801	1.5	25.2	27347			**F803_25.2 P200 IEC200L4**	578
80	3319	1.9	22.0	26883			**F803_22.0 P200 IEC200L4**	578
87	3063	1.9	20.3	26420			**F803_20.3 P200 IEC200L4**	578
99	2668	1.5	17.7	20165			**F703_17.7 P200 IEC200L4**	570
100	2652	2.4	17.6	25863			**F803_17.6 P200 IEC200L4**	578
108	2462	1.5	16.3	19888			**F703_16.3 P200 IEC200L4**	570
108	2448	2.4	16.2	25400			**F803_16.2 P200 IEC200L4**	578
126	2106	3.0	14.0	24751			**F803_14.0 P200 IEC200L4**	578
127	2092	1.7	13.9	19518			**F703_13.9 P200 IEC200L4**	570
136	1944	3.0	12.9	24287			**F803_12.9 P200 IEC200L4**	578
137	1931	1.7	12.8	19333			**F703_12.8 P200 IEC200L4**	570
162	1635	2.0	10.9	18778			**F703_10.9 P200 IEC200L4**	570
176	1509	2.0	10.0	18500			**F703_10.0 P200 IEC200L4**	570

37 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N				
23.0	14221	1.0	76.7	45837			**F903_76.7 P225 IEC225S4**	586
24.9	13127	1.1	70.8	44078			**F903_70.8 P225 IEC225S4**	586
28.4	11522	1.2	62.1	44726			**F903_62.1 P225 IEC225S4**	586
31	10635	1.2	57.3	44170			**F903_57.3 P225 IEC225S4**	586
35	9257	1.4	49.9	44078			**F903_49.9 P225 IEC225S4**	586
38	8545	1.5	46.1	43707			**F903_46.1 P225 IEC225S4**	586
39	8410	0.9	45.3	26234			**F803_45.3 P225 IEC225S4**	578
44	7514	1.7	40.5	43337			**F903_40.5 P225 IEC225S4**	586
45	7236	1.0	39.0	26420			**F803_39.0 P225 IEC225S4**	578
47	6936	1.8	37.4	42874			**F903_37.4 P225 IEC225S4**	586
49	6679	1.1	36.0	26234			**F803_36.0 P225 IEC225S4**	578
56	5798	1.3	31.3	26327			**F803_31.3 P225 IEC225S4**	578
57	5751	2.1	31.0	41948			**F903_31.0 P225 IEC225S4**	586
61	5352	1.4	28.8	26049			**F803_28.8 P225 IEC225S4**	578
62	5308	2.1	28.6	41392			**F903_28.6 P225 IEC225S4**	586
70	4710	2.4	25.4	40651			**F903_25.4 P225 IEC225S4**	586
70	4680	1.2	25.2	25771			**F803_25.2 P225 IEC225S4**	578
79	4134	2.7	22.3	39818			**F903_22.3 P225 IEC225S4**	586
80	4087	1.5	22.0	25585			**F803_22.0 P225 IEC225S4**	578
86	3816	2.7	20.6	39170			**F903_20.6 P225 IEC225S4**	586
87	3772	1.5	20.3	25214			**F803_20.3 P225 IEC225S4**	578
100	3265	1.9	17.6	24844			**F803_17.6 P225 IEC225S4**	578
109	3014	1.9	16.2	24380			**F803_16.2 P225 IEC225S4**	578
126	2593	2.4	14.0	23917			**F803_14.0 P225 IEC225S4**	578
137	2394	2.4	12.9	23453			**F803_12.9 P225 IEC225S4**	578
158	2078	2.7	11.2	22712			**F803_11.2 P225 IEC225S4**	578
171	1918	2.7	10.3	22526			**F803_10.3 P225 IEC225S4**	578

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



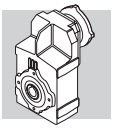
45 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
28.5	13976	1.0	62.1	41948			**F903_62.1 P225 IEC225M4**	586
31	12901	1.0	57.3	40929			**F903_57.3 P225 IEC225M4**	586
35	11230	1.2	49.9	41392			**F903_49.9 P225 IEC225M4**	586
38	10366	1.3	46.1	40651			**F903_46.1 P225 IEC225M4**	586
44	9115	1.4	40.5	40651			**F903_40.5 P225 IEC225M4**	586
47	8414	1.5	37.4	40374			**F903_37.4 P225 IEC225M4**	586
49	8102	0.9	36.0	23639			**F803_36.0 P225 IEC225M4**	578
57	7033	1.1	31.3	24195			**F803_31.3 P225 IEC225M4**	578
57	6976	1.7	31.0	39911			**F903_31.0 P225 IEC225M4**	586
61	6492	1.1	28.8	24102			**F803_28.8 P225 IEC225M4**	578
62	6439	1.7	28.6	39448			**F903_28.6 P225 IEC225M4**	586
70	5713	1.9	25.4	38892			**F903_25.4 P225 IEC225M4**	586
70	5677	1.0	25.2	24102			**F803_25.2 P225 IEC225M4**	578
79	5015	2.2	22.3	38336			**F903_22.3 P225 IEC225M4**	586
80	4957	1.3	22.0	24102			**F803_22.0 P225 IEC225M4**	578
86	4629	2.3	20.6	37781			**F903_20.6 P225 IEC225M4**	586
87	4576	1.3	20.3	23824			**F803_20.3 P225 IEC225M4**	578
99	4029	2.5	17.9	36947			**F903_17.9 P225 IEC225M4**	586
101	3961	1.6	17.6	23639			**F803_17.6 P225 IEC225M4**	578
107	3719	2.6	16.5	36392			**F903_16.5 P225 IEC225M4**	586
109	3656	1.6	16.2	23360			**F803_16.2 P225 IEC225M4**	578
122	3270	2.8	14.5	35558			**F903_14.5 P225 IEC225M4**	586
127	3146	2.0	14.0	22990			**F803_14.0 P225 IEC225M4**	578
132	3019	2.9	13.4	35003			**F903_13.4 P225 IEC225M4**	586
137	2904	2.0	12.9	22341			**F803_12.9 P225 IEC225M4**	578
158	2521	2.2	11.2	22248			**F803_11.2 P225 IEC225M4**	578
171	2327	2.2	10.3	21785			**F803_10.3 P225 IEC225M4**	578

50 kW

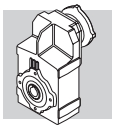
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
35	13689	1.0	49.9	37688			**F903_49.9 P250 IEC250M4**	586
38	12636	1.0	46.1	36762			**F903_46.1 P250 IEC250M4**	586
44	11111	1.2	40.5	37318			**F903_40.5 P250 IEC250M4**	586
47	10256	1.2	37.4	37225			**F903_37.4 P250 IEC250M4**	586
57	8504	1.4	31.0	37318			**F903_31.0 P250 IEC250M4**	586
62	7850	1.4	28.6	37133			**F903_28.6 P250 IEC250M4**	586
70	6965	1.6	25.4	36762			**F903_25.4 P250 IEC250M4**	586
79	6113	1.8	22.3	36484			**F903_22.3 P250 IEC250M4**	586
86	5643	1.9	20.6	36021			**F903_20.6 P250 IEC250M4**	586
99	4912	2.1	17.9	35466			**F903_17.9 P250 IEC250M4**	586
107	4534	2.1	16.5	35003			**F903_16.5 P250 IEC250M4**	586
122	3987	2.3	14.5	34355			**F903_14.5 P250 IEC250M4**	586
132	3680	2.3	13.4	33892			**F903_13.4 P250 IEC250M4**	586
159	3051	2.7	11.1	32780			**F903_11.1 P250 IEC250M4**	586
172	2816	2.6	10.3	32225			**F903_10.3 P250 IEC250M4**	586

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



F 10 — 140 Nm

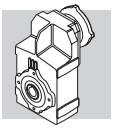
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 10 2_7.4	7.4	243	70	1.9	1183	1510	162	80	1.4	1300	1724	
F 10 2_8.6	8.6	209	75	1.7	1155	1575	140	86	1.3	1300	1797	
F 10 2_9.8	9.8	184	82	1.7	1146	1639	122	94	1.3	1300	1871	
F 10 2_11.5	11.5	157	88	1.5	1119	1722	104	101	1.2	1300	1965	
F 10 2_13.0	13.0	138	95	1.5	1110	1787	92	109	1.1	1300	2039	
F 10 2_14.6	14.6	123	109	1.5	1192	1842	82	125	1.1	1300	2102	
F 10 2_17.0	17.0	106	117	1.4	1192	1925	71	135	1.0	1300	2197	
F 10 2_19.3	19.3	93	125	1.3	1192	2008	62	140	0.96	1300	2291	
F 10 2_22.8	22.8	79	128	1.1	1192	2128	53	140	0.81	1300	2428	
F 10 2_25.8	25.8	70	128	0.99	1192	2238	47	140	0.72	1300	2554	
F 10 2_29.6	29.6	61	132	0.88	1192	2358	41	140	0.63	1300	2691	
F 10 2_33.0	33.0	55	137	0.82	1192	2459	36	140	0.56	1300	2800	506
F 10 2_35.3	35.3	51	140	0.79	1192	2524	34	140	0.52	1300	2800	
F 10 2_39.6	39.6	45	140	0.70	1192	2579	30	140	0.47	1300	2800	
F 10 2_44.7	44.7	40	140	0.62	1192	2579	26.8	140	0.41	1300	2800	
F 10 2_48.7	48.7	37	140	0.57	1192	2579	24.6	140	0.38	1300	2800	
F 10 2_56.7	56.7	32	140	0.49	1192	2579	21.2	140	0.33	1300	2800	
F 10 2_63.0	63.0	28.6	140	0.44	1192	2620	19.0	140	0.29	1300	2800	
F 10 2_71.1	71.1	25.3	140	0.39	1192	2750	16.9	140	0.26	1300	2800	
F 10 2_81.3	81.3	22.1	140	0.34	1192	2800	14.8	140	0.23	1300	2800	
F 10 2_91.5	91.5	19.7	140	0.30	1192	2800	13.1	140	0.20	1300	2800	
F 10 2_106.0	106.0	17.0	140	0.26	1192	2800	11.3	140	0.17	1300	2800	
F 10 2_127.1	127.1	14.2	140	0.22	1192	2800	9.4	140	0.15	1300	2800	



F 20 — 250 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 20 2_6.4	6.4	281	120	3.7	—	1577	188	137	2.8	—	1816	
F 20 2_7.8	7.8	231	132	3.4	—	1669	154	151	2.6	—	1922	
F 20 2_8.7	8.7	207	143	3.3	—	1715	138	163	2.5	—	1975	
F 20 2_10.0	10.0	180	152	3.0	—	1788	120	173	2.3	—	2059	
F 20 2_11.2	11.2	161	163	2.9	—	1843	107	186	2.2	—	2123	
F 20 2_14.8	14.8	122	187	2.5	933	2027	81	213	1.9	1074	2334	
F 20 2_18.1	18.1	99	196	2.1	942	2182	66	224	1.6	1084	2513	
F 20 2_20.2	20.2	89	205	2.0	989	2256	59	234	1.5	1137	2598	
F 20 2_23.1	23.1	78	216	1.9	924	2357	52	247	1.4	1063	2714	
F 20 2_25.9	25.9	69	221	1.7	1016	2458	46	250	1.3	1169	2830	
F 20 2_30.4	30.4	59	230	1.5	970	2604	39	250	1.1	1116	2999	
F 20 2_33.1	33.1	54	230	1.4	1035	2696	36	250	1.0	1191	3105	
F 20 2_37.9	37.9	47	230	1.2	1044	2852	32	250	0.87	1201	3284	
F 20 2_41.8	41.8	43	230	1.1	1127	2971	28.7	250	0.79	1297	3421	
F 20 2_44.8	44.8	40	235	1.0	1109	3054	26.8	250	0.74	1276	3516	
F 20 2_50.7	50.7	36	238	0.93	1220	3210	23.7	250	0.65	1403	3696	
F 20 2_56.7	56.7	32	250	0.87	1257	3356	21.2	250	0.58	1446	3865	
F 20 2_61.9	61.9	29.1	250	0.80	1266	3475	19.4	250	0.53	1456	4000	
F 20 2_69.1	69.1	26.0	250	0.72	1266	3622	17.4	250	0.48	1456	4000	516
F 20 2_76.8	76.8	23.4	250	0.65	1275	3668	15.6	250	0.43	1467	4000	
F 20 2_90.4	90.4	19.9	250	0.55	1284	3668	13.3	250	0.37	1478	4000	
F 20 2_101.6	101.6	17.7	250	0.49	1284	3668	11.8	250	0.33	1478	4000	
F 20 2_114.3	114.3	15.7	250	0.43	1294	3670	10.5	250	0.29	1488	4000	
F 20 2_132.2	132.2	13.6	250	0.38	1294	3890	9.1	250	0.25	1488	4000	
F 20 3_156.3	156.3	11.5	250	0.32	1201	4000	7.7	250	0.22	1300	4000	
F 20 3_172.6	172.6	10.4	250	0.29	1201	4000	7.0	250	0.20	1300	4000	
F 20 3_184.9	184.9	9.7	250	0.27	1210	4000	6.5	250	0.18	1300	4000	
F 20 3_209.3	209.3	8.6	250	0.24	1240	4000	5.7	250	0.16	1300	4000	
F 20 3_234.0	234.0	7.7	250	0.22	1270	4000	5.1	250	0.14	1300	4000	
F 20 3_255.3	255.3	7.1	250	0.20	1280	4000	4.7	250	0.13	1300	4000	
F 20 3_285.2	285.2	6.3	250	0.18	1300	4000	4.2	250	0.12	1300	4000	
F 20 3_316.9	316.9	5.7	250	0.16	1300	4000	3.8	250	0.11	1300	4000	
F 20 3_372.9	372.9	4.8	250	0.14	1300	4000	3.2	250	0.09	1300	4000	
F 20 3_419.3	419.3	4.3	250	0.12	1300	4000	2.9	250	0.08	1300	4000	
F 20 3_471.7	471.7	3.8	250	0.11	1300	4000	2.5	250	0.07	1300	4000	
F 20 3_545.3	545.3	3.3	250	0.09	1300	4000	2.2	250	0.06	1300	4000	

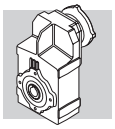
(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



F 25 — 400 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 25 2_6.9	6.9	261	182	5.2	—	2123	174	206	3.9	—	2438	
F 25 2_8.4	8.4	214	200	4.7	—	2242	143	227	3.6	—	2575	
F 25 2_9.4	9.4	191	210	4.4	—	2324	128	237	3.3	—	2670	
F 25 2_10.6	10.6	170	284	5.3	—	2123	113	322	4.0	—	2438	
F 25 2_13.0	13.0	138	298	4.6	—	2297	92	338	3.4	—	2638	
F 25 2_14.5	14.5	124	308	4.2	—	2388	83	348	3.2	—	2743	
F 25 2_16.6	16.6	108	317	3.8	—	2525	72	359	2.9	—	2901	
F 25 2_18.6	18.6	97	326	3.5	—	2626	65	369	2.6	—	3016	
F 25 2_21.8	21.8	83	331	3.0	—	2827	55	375	2.3	266	3248	
F 25 2_23.8	23.8	76	336	2.8	277	2928	50	380	2.1	319	3363	
F 25 2_27.2	27.2	66	340	2.5	296	3111	44	385	1.9	340	3573	
F 25 2_30.0	30.0	60	345	2.3	379	3239	40	390	1.7	436	3721	
F 25 2_32.2	32.2	56	345	2.1	379	3349	37	390	1.6	436	3847	
F 25 2_36.4	36.4	49	345	1.9	554	3550	33	390	1.4	638	4078	
F 25 2_40.7	40.7	44	345	1.7	665	3733	29.5	375	1.2	765	4288	
F 25 2_44.4	44.4	41	345	1.5	720	3889	27.0	385	1.1	765	4467	
F 25 3_45.6	45.6	39	373	1.7	1691	3687	26.3	400	1.2	1945	4236	
F 25 3_50.8	50.8	35	373	1.5	1709	3889	23.6	400	1.1	1967	4467	
F 25 3_58.3	58.3	31	373	1.3	1719	4145	20.6	400	0.93	1977	4761	
F 25 3_65.3	65.3	27.6	375	1.2	1728	4374	18.4	400	0.83	1988	5024	
F 25 3_76.6	76.6	23.5	395	1.05	1737	4703	15.7	400	0.71	1998	5402	
F 25 3_83.4	83.4	21.6	400	0.97	1737	4877	14.4	400	0.65	1998	5602	
F 25 3_95.5	95.5	18.8	400	0.85	1746	5179	12.6	400	0.57	2009	5949	526
F 25 3_105.4	105.4	17.1	400	0.77	1746	5408	11.4	400	0.51	2009	6211	
F 25 3_113.0	113.0	15.9	400	0.72	1746	5572	10.6	400	0.48	2009	6401	
F 25 3_127.8	127.8	14.1	400	0.63	1756	5883	9.4	400	0.42	2020	6500	
F 25 3_143.0	143.0	12.6	400	0.57	1765	5948	8.4	400	0.38	2030	6500	
F 25 3_155.9	155.9	11.5	400	0.52	1765	5948	7.7	400	0.35	2030	6500	
F 25 3_174.2	174.2	10.3	400	0.47	1765	5948	6.9	400	0.31	2030	6500	
F 25 3_193.6	193.6	9.3	400	0.42	1765	5948	6.2	400	0.28	2030	6500	
F 25 3_227.8	227.8	7.9	400	0.36	1774	6120	5.3	400	0.24	2041	6500	
F 25 3_256.1	256.1	7.0	400	0.32	1774	6430	4.7	400	0.21	2041	6500	
F 25 3_288.1	288.1	6.2	400	0.28	1774	6500	4.2	400	0.19	2041	6500	
F 25 3_333.1	333.1	5.4	400	0.24	1783	6500	3.6	400	0.16	2052	6500	
F 25 4_393.9	393.9	4.6	400	0.21	1270	6500	3.0	400	0.14	1300	6500	
F 25 4_434.9	434.9	4.1	400	0.19	1290	6500	2.8	400	0.13	1300	6500	
F 25 4_466.0	466.0	3.9	400	0.18	1300	6500	2.6	400	0.12	1300	6500	
F 25 4_527.3	527.3	3.4	400	0.16	1300	6500	2.3	400	0.11	1300	6500	
F 25 4_589.7	589.7	3.1	400	0.14	1300	6500	2.0	400	0.09	1300	6500	
F 25 4_643.3	643.3	2.8	400	0.13	1300	6500	1.9	400	0.09	1300	6500	
F 25 4_718.7	718.7	2.5	400	0.12	1300	6500	1.7	400	0.08	1300	6500	
F 25 4_798.5	798.5	2.3	400	0.10	1300	6500	1.5	400	0.07	1300	6500	
F 25 4_939.8	939.8	1.9	400	0.09	1300	6500	1.3	400	0.06	1300	6500	
F 25 4_1057	1057	1.7	400	0.08	1300	6500	1.1	400	0.05	1300	6500	
F 25 4_1189	1189	1.5	400	0.07	1300	6500	1.0	400	0.05	1300	6500	
F 25 4_1374	1374	1.3	400	0.06	1300	6500	0.9	400	0.04	1300	6500	

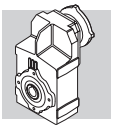
(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



F 31 — 600 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 31 2_6.9	6.9	261	333	9.6	—	3169	174	378	7.2	—	3650	
F 31 2_8.2	8.2	220	347	8.4	—	3380	146	390	6.3	—	3893	
F 31 2_9.0	9.0	200	357	7.9	—	3490	133	390	5.7	418	4020	
F 31 2_10.7	10.7	168	486	9.0	456	3362	112	551	6.8	536	3872	
F 31 2_12.7	12.7	142	514	8.0	446	3554	94	582	6.1	525	4093	
F 31 2_13.9	13.9	129	528	7.5	592	3673	86	598	5.7	697	4231	
F 31 2_16.8	16.8	107	551	6.5	619	3948	71	600	4.7	729	4547	
F 31 2_18.5	18.5	97	556	6.0	829	4131	65	600	4.3	976	4758	
F 31 2_21.1	21.1	85	556	5.2	938	4415	57	600	3.8	1104	5085	
F 31 2_23.4	23.4	77	556	4.7	1157	4635	51	600	3.4	1361	5338	
F 31 2_27.3	27.3	66	556	4.0	1257	4992	44	600	2.9	1479	5750	
F 31 2_30.1	30.1	60	556	3.7	1448	5230	40	600	2.6	1704	6024	
F 31 2_34.4	34.4	52	556	3.2	1512	5560	35	600	2.3	1780	6404	
F 31 2_37.7	37.7	48	556	2.9	1640	5798	32	600	2.1	1930	6500	
F 31 2_40.4	40.4	45	556	2.7	1640	5954	29.7	600	2.0	1930	6500	
F 31 2_44.6	44.6	40	556	2.5	1758	5954	26.9	600	1.8	2069	6500	
F 31 3_47.5	47.5	38	537	2.3	2110	5954	25.3	600	1.7	2200	6500	
F 31 3_52.1	52.1	35	556	2.2	2120	5954	23.0	600	1.6	2200	6500	
F 31 3_62.8	62.8	28.7	556	1.8	2120	6040	19.1	600	1.3	2200	6500	
F 31 3_69.1	69.1	26.0	556	1.6	2130	6250	17.4	600	1.2	2200	6500	
F 31 3_78.9	78.9	22.8	556	1.4	2120	6500	15.2	600	1.0	2200	6500	
F 31 3_87.4	87.4	20.6	570	1.3	2130	6500	13.7	600	0.93	2200	6500	
F 31 3_101.9	101.9	17.7	595	1.2	2130	6500	11.8	600	0.80	2200	6500	
F 31 3_112.5	112.5	16.0	600	1.1	2130	6500	10.7	600	0.72	2200	6500	536
F 31 3_128.4	128.4	14.0	600	0.95	2140	6500	9.3	600	0.63	2200	6500	
F 31 3_140.7	140.7	12.8	600	0.86	2140	6500	8.5	600	0.58	2200	6500	
F 31 3_150.8	150.8	11.9	600	0.81	2140	6500	8.0	600	0.54	2200	6500	
F 31 3_166.8	166.8	10.8	600	0.73	2150	6500	7.2	600	0.49	2200	6500	
F 31 3_185.4	185.4	9.7	600	0.66	2160	6500	6.5	600	0.44	2200	6500	
F 31 3_202.3	202.3	8.9	600	0.60	2160	6500	5.9	600	0.40	2200	6500	
F 31 3_228.2	228.2	7.9	600	0.53	2160	6500	5.3	600	0.36	2200	6500	
F 31 3_253.6	253.6	7.1	600	0.48	2160	6500	4.7	600	0.32	2200	6500	
F 31 3_293.8	293.8	6.1	600	0.41	2170	6500	4.1	600	0.28	2200	6500	
F 31 3_332.8	332.8	5.4	600	0.37	2170	6500	3.6	600	0.24	2200	6500	
F 31 3_374.4	374.4	4.8	600	0.32	2170	6500	3.2	600	0.22	2200	6500	
F 31 4_418.9	418.9	4.3	600	0.30	1230	6500	2.9	600	0.20	1300	6500	
F 31 4_462.6	462.6	3.9	600	0.27	1250	6500	2.6	600	0.18	1300	6500	
F 31 4_527.8	527.8	3.4	600	0.24	1270	6500	2.3	600	0.16	1300	6500	
F 31 4_578.6	578.6	3.1	600	0.22	1290	6500	2.1	600	0.14	1300	6500	
F 31 4_619.9	619.9	2.9	600	0.20	1300	6500	1.9	600	0.14	1300	6500	
F 31 4_685.6	685.6	2.6	600	0.18	1300	6500	1.8	600	0.12	1300	6500	
F 31 4_762.3	762.3	2.4	600	0.16	1300	6500	1.6	600	0.11	1300	6500	
F 31 4_831.6	831.6	2.2	600	0.15	1300	6500	1.4	600	0.10	1300	6500	
F 31 4_938.2	938.2	1.9	600	0.13	1300	6500	1.3	600	0.09	1300	6500	
F 31 4_1042	1042	1.7	600	0.12	1300	6500	1.2	600	0.08	1300	6500	
F 31 4_1208	1208	1.5	600	0.10	1300	6500	0.99	600	0.07	1300	6500	
F 31 4_1368	1368	1.3	600	0.09	1300	6500	0.88	600	0.06	1300	6500	
F 31 4_1539	1539	1.2	600	0.08	1300	6500	0.78	600	0.05	1300	6500	

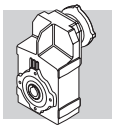
(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



F 41 — 1100 Nm

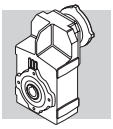
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 41 2_6.7	6.7	269	537	15.9	—	3934	179	607	12.0	—	4530	
F 41 2_9.1	9.1	198	602	13.1	—	4337	132	681	9.9	—	4995	
F 41 2_10.8	10.8	167	833	15.3	—	3824	111	942	11.5	—	4404	
F 41 2_14.6	14.6	123	940	12.8	—	4182	82	1063	9.6	—	4815	
F 41 2_17.1	17.1	105	977	11.3	—	4447	70	1105	8.5	—	5122	
F 41 2_18.9	18.9	95	1005	10.5	462	4613	63	1100	7.7	532	5312	
F 41 2_24.1	24.1	75	1019	8.4	776	5254	50	1100	6.0	893	6051	
F 41 2_30.1	30.1	60	1019	6.7	1164	5933	40	1100	4.8	1339	6832	
F 41 2_38.2	38.2	47	1019	5.3	1478	6722	31	1100	3.8	1701	7740	
F 41 2_47.9	47.9	38	991	4.1	1959	7629	25.1	1070	3.0	2254	8500	
F 41 3_51.5	51.5	35	1005	4.0	3234	7795	23.3	1100	2.9	3500	8500	
F 41 3_60.2	60.2	29.9	1019	3.4	3234	7795	19.9	1100	2.5	3500	8500	
F 41 3_66.5	66.5	27.1	1019	3.1	3234	7795	18.0	1100	2.2	3500	8500	
F 41 3_84.9	84.9	21.2	1065	2.5	3234	7890	14.1	1100	1.8	3500	8500	
F 41 3_106.0	106.0	17.0	1100	2.1	3234	8500	11.3	1100	1.4	3500	8500	
F 41 3_134.4	134.4	13.4	1100	1.7	3234	8500	8.9	1100	1.1	3500	8500	
F 41 3_168.7	168.7	10.7	1100	1.32	3234	8500	7.1	1100	0.88	3500	8500	546
F 41 3_180.7	180.7	10.0	1100	1.2	3234	8500	6.6	1100	0.82	3500	8500	
F 41 3_198.9	198.9	9.0	1100	1.1	3234	8500	6.0	1100	0.75	3500	8500	
F 41 3_220.1	220.1	8.2	1100	1.0	3234	8500	5.5	1100	0.68	3500	8500	
F 41 3_240.1	240.1	7.5	1100	0.93	3234	8500	5.0	1100	0.62	3500	8500	
F 41 3_266.9	266.9	6.7	1100	0.84	3234	8500	4.5	1100	0.56	3500	8500	
F 41 3_296.6	296.6	6.1	1100	0.75	3234	8500	4.0	1100	0.50	3500	8500	
F 41 3_344.8	344.8	5.2	1100	0.65	3234	8500	3.5	1100	0.43	3500	8500	
F 41 4_433.7	433.7	4.2	1100	0.53	1765	8500	2.8	1100	0.35	2030	8500	
F 41 4_549.8	549.8	3.3	1100	0.42	1793	8500	2.2	1100	0.28	2062	8500	
F 41 4_690.1	690.1	2.6	1100	0.33	1820	8500	1.7	1100	0.22	2094	8500	
F 41 4_739.4	739.4	2.4	1100	0.31	1830	8500	1.6	1100	0.21	2105	8500	
F 41 4_813.8	813.8	2.2	1100	0.28	1839	8500	1.5	1100	0.19	2115	8500	
F 41 4_900.5	900.5	2.0	1100	0.26	1848	8500	1.3	1100	0.17	2126	8500	
F 41 4_982.4	982.4	1.8	1100	0.23	1848	8500	1.2	1100	0.16	2126	8500	
F 41 4_1092	1092	1.6	1100	0.21	1857	8500	1.1	1100	0.14	2137	8500	
F 41 4_1213	1213	1.5	1100	0.19	1866	8500	0.99	1100	0.13	2147	8500	
F 41 4_1411	1411	1.3	1100	0.16	1866	8500	0.85	1100	0.11	2147	8500	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



F 51 — 1800 Nm

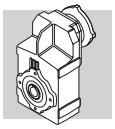
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 51 2_7.2	7.2	250	889	25	1306	4813	167	1014	18.6	1522	5581	
F 51 2_9.1	9.1	198	1003	22	1197	5078	132	1100	16.0	1395	5889	
F 51 2_11.1	11.1	162	1213	22	1823	5216	108	1383	16.5	2125	6048	
F 51 2_14.0	14.0	129	1295	18.4	1950	5673	86	1477	14.0	2273	6578	
F 51 2_18.8	18.8	96	1409	14.9	2032	6314	64	1607	11.3	2368	7321	
F 51 2_23.8	23.8	76	1505	12.5	2077	6881	50	1700	9.4	2421	7979	
F 51 2_30.0	30.0	60	1550	10.3	2113	7631	40	1700	7.5	2463	8849	
F 51 2_37.1	37.1	49	1550	8.3	2186	8473	32	1700	6.1	2547	9825	
F 51 3_48.9	48.9	37	1505	6.2	3002	9242	24.5	1800	5.0	3500	10716	
F 51 3_65.8	65.8	27.4	1650	5.1	3066	10614	18.2	1800	3.7	3500	12000	
F 51 3_83.2	83.2	21.6	1770	4.3	3120	10980	14.4	1800	2.9	3500	12000	
F 51 3_105.1	105.1	17.1	1800	3.5	3138	10980	11.4	1800	2.3	3500	12000	
F 51 3_129.9	129.9	13.9	1800	2.8	3165	11600	9.2	1800	1.9	3500	12000	
F 51 3_165.6	165.6	10.9	1800	2.2	3175	12000	7.2	1800	1.5	3500	12000	
F 51 3_202.4	202.4	8.9	1800	1.8	3175	12000	5.9	1800	1.2	3500	12000	
F 51 3_216.9	216.9	8.3	1800	1.7	3175	12000	5.5	1800	1.1	3500	12000	556
F 51 3_239.8	239.8	7.5	1800	1.5	3175	12000	5.0	1800	1.0	3500	12000	
F 51 3_262.1	262.1	6.9	1800	1.4	3175	12000	4.6	1800	0.93	3500	12000	
F 51 3_285.9	285.9	6.3	1800	1.3	3175	12000	4.2	1800	0.85	3500	12000	
F 51 3_317.3	317.3	5.7	1800	1.1	3175	12000	3.8	1800	0.77	3500	12000	
F 51 3_352.5	352.5	5.1	1800	1.0	3175	12000	3.4	1800	0.69	3500	12000	
F 51 4_429.1	429.1	4.2	1800	0.88	1995	12000	2.8	1800	0.59	2200	12000	
F 51 4_530.5	530.5	3.4	1800	0.71	1995	12000	2.3	1800	0.47	2200	12000	
F 51 4_676.3	676.3	2.7	1800	0.56	2020	12000	1.8	1800	0.37	2200	12000	
F 51 4_826.4	826.4	2.2	1800	0.46	2040	12000	1.5	1800	0.30	2200	12000	
F 51 4_885.5	885.5	2.0	1800	0.43	2050	12000	1.4	1800	0.28	2200	12000	
F 51 4_979.4	979.4	1.8	1800	0.38	2060	12000	1.2	1800	0.26	2200	12000	
F 51 4_1070	1070	1.7	1800	0.35	2070	12000	1.1	1800	0.23	2200	12000	
F 51 4_1168	1168	1.5	1800	0.32	2080	12000	1.0	1800	0.22	2200	12000	
F 51 4_1296	1296	1.4	1800	0.29	2090	12000	0.93	1800	0.19	2200	12000	
F 51 4_1439	1439	1.3	1800	0.26	2100	12000	0.83	1800	0.17	2200	12000	



F 60 — 2900 Nm

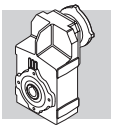
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 60 3_9.0	9.0	200	1086	24	—	15263	133	1225	18.4	—	17226	
F 60 3_9.7	9.7	186	1170	24	—	15448	124	1320	18.4	—	17435	
F 60 3_11.8	11.8	153	1217	21	—	16465	102	1373	15.7	—	18583	
F 60 3_12.7	12.7	142	1310	21	—	16650	94	1478	15.7	—	18792	
F 60 3_14.5	14.5	124	1310	18.3	—	17575	83	1478	13.8	—	19836	
F 60 3_15.7	15.7	115	1404	18.1	—	17760	76	1584	13.6	—	20000	
F 60 3_19.1	19.1	94	1404	14.9	—	18500	63	1584	11.2	—	20000	
F 60 3_20.7	20.7	87	1535	15.0	—	18500	58	1732	11.3	—	20000	
F 60 3_23.5	23.5	77	1488	12.8	—	18500	51	1679	9.7	—	20000	
F 60 3_25.4	25.4	71	1610	12.8	—	18500	47	1816	9.7	—	20000	
F 60 3_29.6	29.6	61	2750	18.8	2430	18500	41	2900	13.2	2796	20000	
F 60 3_32.1	32.1	56	2800	17.7	3012	18500	37	2900	12.2	3465	20000	
F 60 3_38.8	38.8	46	2900	15.1	3216	18500	31	2900	10.1	3699	20000	
F 60 3_42.1	42.1	43	2900	14.0	3437	18500	28.5	2900	9.3	3954	20000	
F 60 3_47.8	47.8	38	2900	12.3	3447	19100	25.1	2900	8.2	3965	20000	
F 60 3_51.8	51.8	35	2900	11.3	3539	19500	23.2	2900	7.6	4071	20000	
F 60 3_63.0	63.0	28.6	2900	9.3	3557	20000	19.0	2900	6.2	4093	20000	
F 60 3_68.3	68.3	26.4	2900	8.6	3641	20000	17.6	2900	5.7	4188	20000	
F 60 3_77.6	77.6	23.2	2900	7.6	3622	20000	15.5	2900	5.0	4167	20000	
F 60 3_84.0	84.0	21.4	2900	7.0	3705	20000	14.3	2900	4.7	4263	20000	
F 60 3_98.2	98.2	18.3	2900	6.0	3678	20000	12.2	2900	4.0	4231	20000	
F 60 3_106.4	106.4	16.9	2900	5.5	3761	20000	11.3	2900	3.7	4326	20000	
F 60 3_120.5	120.5	14.9	2900	4.9	3724	20000	10.0	2900	3.3	4284	20000	
F 60 3_130.5	130.5	13.8	2900	4.5	3798	20000	9.2	2900	3.0	4369	20000	566
F 60 3_150.4	150.4	12.0	2900	3.9	3751	20000	8.0	2900	2.6	4316	20000	
F 60 3_162.9	162.9	11.0	2900	3.6	3825	20000	7.4	2900	2.4	4401	20000	
F 60 3_185.9	185.9	9.7	2900	3.2	3788	20000	6.5	2900	2.1	4358	20000	
F 60 3_201.4	201.4	8.9	2900	2.9	3862	20000	6.0	2900	1.9	4443	20000	
F 60 3_217.6	217.6	8.3	2900	2.7	3807	20000	5.5	2900	1.8	4380	20000	
F 60 3_235.8	235.8	7.6	2900	2.5	3872	20000	5.1	2900	1.7	4454	20000	
F 60 3_259.1	259.1	6.9	2900	2.3	3816	20000	4.6	2900	1.5	4390	20000	
F 60 3_280.7	280.7	6.4	2900	2.1	3881	20000	4.3	2900	1.4	4465	20000	
F 60 4_315.4	315.4	5.7	2900	1.9	3500	20000	3.8	2900	1.3	3500	20000	
F 60 4_341.7	341.7	5.3	2900	1.8	3500	20000	3.5	2900	1.2	3500	20000	
F 60 4_399.3	399.3	4.5	2900	1.5	3500	20000	3.0	2900	1.0	3500	20000	
F 60 4_432.6	432.6	4.2	2900	1.4	3500	20000	2.8	2900	0.94	3500	20000	
F 60 4_489.8	489.8	3.7	2900	1.2	3500	20000	2.4	2900	0.83	3500	20000	
F 60 4_530.7	530.7	3.4	2900	1.1	3500	20000	2.3	2900	0.76	3500	20000	
F 60 4_611.4	611.4	2.9	2900	0.99	3500	20000	2.0	2900	0.66	3500	20000	
F 60 4_662.4	662.4	2.7	2900	0.92	3500	20000	1.8	2900	0.61	3500	20000	
F 60 4_756.0	756.0	2.4	2900	0.80	3500	20000	1.6	2900	0.54	3500	20000	
F 60 4_819.0	819.0	2.2	2900	0.74	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_885.1	885.1	2.0	2900	0.69	3500	20000	1.4	2900	0.46	3500	20000	
F 60 4_958.9	958.9	1.9	2900	0.63	3500	20000	1.3	2900	0.42	3500	20000	
F 60 4_1054	1054	1.7	2900	0.58	3500	20000	1.1	2900	0.38	3500	20000	
F 60 4_1141	1141	1.6	2900	0.53	3500	20000	1.1	2900	0.35	3500	20000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



F 70 — 5000 Nm

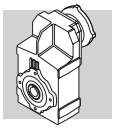
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 70 3_10.0	10.0	180	2966	60	1605	16835	120	3200	43	1832	19055	
F 70 3_10.9	10.9	165	3198	59	1687	16743	110	3450	43	1926	18951	
F 70 3_12.8	12.8	141	3337	53	860	17853	94	3773	40	921	20207	
F 70 3_13.9	13.9	129	3615	53	810	17668	86	4087	40	921	19998	
F 70 3_16.3	16.3	110	3708	46	651	18963	74	4000	33	743	21464	
F 70 3_17.7	17.7	102	4032	46	578	18685	68	4350	33	660	21149	
F 70 3_20.9	20.9	86	3708	36	1917	20998	57	4000	26	2188	23767	
F 70 3_22.6	22.6	80	4032	36	1843	20813	53	4350	26	2104	23558	
F 70 3_24.6	24.6	73	3708	31	2302	22385	49	4000	22	2628	25337	
F 70 3_27.7	27.7	65	4311	32	5878	22293	43	4873	24	6711	25233	
F 70 3_30.0	30.0	60	4635	31	5887	22108	40	5000	23	6722	25023	
F 70 3_35.4	35.4	51	4635	27	5905	23958	34	5000	19.1	6743	27117	
F 70 3_38.4	38.4	47	4635	24	5997	24513	31	5000	17.6	6847	27746	
F 70 3_45.2	45.2	40	4635	21	6043	26548	26.5	5000	14.9	6900	30049	
F 70 3_49.0	49.0	37	4635	19.2	6126	27103	24.5	5000	13.8	6994	30677	
F 70 3_57.7	57.7	31	5000	17.6	6126	29230	20.8	5000	11.7	6994	33085	
F 70 3_62.5	62.5	28.8	5000	16.2	6199	29878	19.2	5000	10.8	7000	33818	
F 70 3_67.9	67.9	26.5	5000	14.9	6153	31080	17.7	5000	10.0	7000	35000	
F 70 3_73.6	73.6	24.5	5000	13.8	6226	31820	16.3	5000	9.2	7000	35000	
F 70 3_85.4	85.4	21.1	5000	11.9	6217	32375	14.1	5000	7.9	7000	35000	
F 70 3_92.5	92.5	19.5	5000	11.0	6291	32375	13.0	5000	7.3	7000	35000	
F 70 3_101.2	101.2	17.8	5000	10.0	6254	32375	11.9	5000	6.7	7000	35000	
F 70 3_109.6	109.6	16.4	5000	9.2	6318	32375	10.9	5000	6.2	7000	35000	
F 70 3_122.7	122.7	14.7	5000	8.3	6281	32375	9.8	5000	5.5	7000	35000	
F 70 3_133.0	133.0	13.5	5000	7.6	6346	33100	9.0	5000	5.1	7000	35000	
F 70 3_153.8	153.8	11.7	5000	6.6	6309	35000	7.8	5000	4.4	7000	35000	574
F 70 3_166.7	166.7	10.8	5000	6.1	6373	35000	7.2	5000	4.1	7000	35000	
F 70 3_180.9	180.9	10.0	5000	5.6	6336	35000	6.6	5000	3.7	7000	35000	
F 70 3_196.0	196.0	9.2	5000	5.2	6391	35000	6.1	5000	3.4	7000	35000	
F 70 4_216.5	216.5	8.3	5000	4.8	2623	35000	5.5	5000	3.2	2994	35000	
F 70 4_234.6	234.6	7.7	5000	4.5	2623	35000	5.1	5000	3.0	2994	35000	
F 70 4_280.9	280.9	6.4	5000	3.7	2696	35000	4.3	5000	2.5	3078	35000	
F 70 4_304.3	304.3	5.9	5000	3.4	2696	35000	3.9	5000	2.3	3078	35000	
F 70 4_372.5	372.5	4.8	5000	2.8	2751	35000	3.2	5000	1.9	3141	35000	
F 70 4_403.5	403.5	4.5	5000	2.6	2751	35000	3.0	5000	1.7	3141	35000	
F 70 4_471.2	471.2	3.8	5000	2.2	2788	35000	2.5	5000	1.5	3183	35000	
F 70 4_510.4	510.4	3.5	5000	2.1	2788	35000	2.4	5000	1.4	3183	35000	
F 70 4_606.8	606.8	3.0	5000	1.7	2815	35000	2.0	5000	1.2	3214	35000	
F 70 4_657.4	657.4	2.7	5000	1.6	2815	35000	1.8	5000	1.1	3214	35000	
F 70 4_759.0	759.0	2.4	5000	1.38	2834	35000	1.6	5000	0.92	3235	35000	
F 70 4_822.2	822.2	2.2	5000	1.27	2834	35000	1.5	5000	0.85	3235	35000	
F 70 4_899.4	899.4	2.0	5000	1.16	2852	35000	1.3	5000	0.78	3256	35000	
F 70 4_974.4	974.4	1.8	5000	1.07	2852	35000	1.2	5000	0.72	3256	35000	
F 70 4_1091	1091	1.6	5000	0.96	2861	35000	1.1	5000	0.64	3267	35000	
F 70 4_1182	1182	1.5	5000	0.89	2861	35000	1.0	5000	0.59	3267	35000	
F 70 4_1368	1368	1.3	5000	0.77	2870	35000	0.88	5000	0.51	3277	35000	
F 70 4_1481	1481	1.2	5000	0.71	2870	35000	0.81	5000	0.47	3277	35000	
F 70 4_1585	1585	1.1	5000	0.66	2879	35000	0.76	5000	0.44	3288	35000	
F 70 4_1717	1717	1.0	5000	0.61	2879	35000	0.70	5000	0.41	3288	35000	
F 70 4_2019	2019	0.89	5000	0.52	2889	35000	0.59	5000	0.35	3298	35000	
F 70 4_2188	2188	0.82	5000	0.48	2889	35000	0.55	5000	0.32	3298	35000	



F 80 — 8000 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 80 3_10.3	10.3	175	3801	75	610	20209	117	4289	56	—	22825	
F 80 3_11.2	11.2	161	4116	74	620	20116	107	4644	56	—	22720	
F 80 3_12.9	12.9	140	4153	65	670	21414	93	4686	49	—	24186	
F 80 3_14.0	14.0	129	4505	65	700	21321	86	5084	49	—	24081	
F 80 3_16.2	16.2	111	4394	55	760	22990	74	4958	41	—	25966	
F 80 3_17.6	17.6	102	4765	55	730	22897	68	5376	41	—	25861	
F 80 3_20.3	20.3	89	4746	47	780	24566	59	5356	36	—	27746	
F 80 3_22.0	22.0	82	5136	47	780	24473	55	5795	36	—	27641	
F 80 3_25.2	25.2	71	4941	40	700	26420	48	5575	30	—	29840	
F 80 3_28.8	28.8	63	7416	52	5224	23546	42	8000	38	6320	26594	
F 80 3_31.3	31.3	58	7416	48	5357	24102	38	8000	35	6481	27222	
F 80 3_36.0	36.0	50	7416	42	5420	26049	33	8000	30	6556	29421	
F 80 3_39.0	39.0	46	7416	39	5535	26698	31	8000	28	6696	30154	
F 80 3_45.3	45.3	40	7900	35	5535	28830	26	8000	24	6696	32562	
F 80 3_49.1	49.1	37	8000	33	5641	29571	24	8000	22	6824	33399	
F 80 3_56.7	56.7	32	8000	29	5668	31796	21	8000	19.1	6856	35912	
F 80 3_61.5	61.5	29,3	8000	26	5766	32538	19.5	8000	17.6	6975	36750	
F 80 3_70.4	70.4	25,6	8000	23	5730	34763	17.0	8000	15.4	6932	39263	
F 80 3_76.3	76.3	23,6	8000	21	5819	35597	15.7	8000	14.2	7000	40205	
F 80 3_85.2	85.2	21,1	8000	19.0	5810	37544	14.1	8000	12.7	7000	42404	
F 80 3_92.3	92.3	19,5	8000	17.6	5890	38471	13.0	8000	11.7	7000	43451	
F 80 3_105.0	105.0	17,1	8000	15.4	5863	40788	11.4	8000	10.3	7000	45000	
F 80 3_113.8	113.8	15,8	8000	14.2	5943	41715	10.5	8000	9.5	7000	45000	
F 80 3_122.5	122.5	14,7	8000	13.2	5881	41715	9.8	8000	8.8	7000	45000	
F 80 3_132.7	132.7	13,6	8000	12.2	5961	41715	9.0	8000	8.1	7000	45000	
F 80 3_147.9	147.9	12,2	8000	11.0	5907	41715	8.1	8000	7.3	7000	45000	582
F 80 3_160.2	160.2	11,2	8000	10.1	5987	41715	7.5	8000	6.7	7000	45000	
F 80 3_184.6	184.6	9,8	8000	8.8	5943	41800	6.5	8000	5.9	7000	45000	
F 80 3_200.0	200.0	9,0	8000	8.1	6014	42800	6.0	8000	5.4	7000	45000	
F 80 4_218.5	218.5	8.2	8000	7.7	2129	45000	5.5	8000	5.1	2575	45000	
F 80 4_273.9	273.9	6.6	8000	6.1	2377	45000	4.4	8000	4.1	2876	45000	
F 80 4_296.7	296.7	6.1	8000	5.6	2377	45000	4.0	8000	3.8	2876	45000	
F 80 4_353.7	353.7	5.1	8000	4.7	2457	45000	3.4	8000	3.2	2972	45000	
F 80 4_383.2	383.2	4.7	8000	4.4	2457	45000	3.1	8000	2.9	2972	45000	
F 80 4_451.5	451.5	4.0	8000	3.7	2501	45000	2.7	8000	2.5	3026	45000	
F 80 4_489.1	489.1	3.7	8000	3.4	2501	45000	2.5	8000	2.3	3026	45000	
F 80 4_563.9	563.9	3.2	8000	3.0	2537	45000	2.1	8000	2.0	3069	45000	
F 80 4_610.9	610.9	2.9	8000	2.7	2537	45000	2.0	8000	1.8	3069	45000	
F 80 4_714.9	714.9	2.5	8000	2.3	2563	45000	1.7	8000	1.6	3101	45000	
F 80 4_774.4	774.4	2.3	8000	2.2	2563	45000	1.5	8000	1.4	3101	45000	
F 80 4_897.3	897.3	2.0	8000	1.9	2599	45000	1.3	8000	1.2	3144	45000	
F 80 4_972.0	972.0	1.85	8000	1.7	2599	45000	1.2	8000	1.1	3144	45000	
F 80 4_1058	1058	1.70	8000	1.6	2617	45000	1.1	8000	1.1	3165	45000	
F 80 4_1146	1146	1.57	8000	1.5	2617	45000	1.0	8000	0.97	3165	45000	
F 80 4_1277	1277	1.41	8000	1.3	2626	45000	0.94	8000	0.87	3176	45000	
F 80 4_1384	1384	1.30	8000	1.2	2626	45000	0.87	8000	0.81	3176	45000	
F 80 4_1578	1578	1.14	8000	1.1	2634	45000	0.76	8000	0.71	3187	45000	
F 80 4_1709	1709	1.05	8000	0.98	2634	45000	0.70	8000	0.65	3187	45000	
F 80 4_1834	1834	0.98	8000	0.91	2643	45000	0.65	8000	0.61	3198	45000	
F 80 4_1987	1987	0.91	8000	0.84	2643	45000	0.60	8000	0.56	3198	45000	

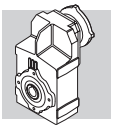
(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



F 90 — 14000 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
F 90 3_10.3	10.3	175	7424	146	6864	27132	117	8368	110	8792	30648	590
F 90 3_11.1	11.1	162	8166	149	6667	26576	108	9205	112	8539	30020	
F 90 3_13.4	13.4	134	8630	131	6246	28428	90	9728	98	8001	32112	
F 90 3_14.5	14.5	124	9280	130	6349	28058	83	10460	97	8133	31694	
F 90 3_16.5	16.5	109	9558	117	5972	29632	73	10774	88	7649	33472	
F 90 3_17.9	17.9	101	10208	116	6160	29354	67	11506	87	7891	33158	
F 90 3_20.6	20.6	87	10486	103	5371	31206	58	11820	78	6880	35250	
F 90 3_22.3	22.3	81	11136	101	5654	30928	54	12552	76	7242	34936	
F 90 3_25.4	25.4	71	11136	89	5414	33336	47	12000	64	6935	37656	
F 90 3_28.6	28.6	63	11136	79	10639	35188	42	12552	59	13628	39748	
F 90 3_31.0	31.0	58	12064	79	10639	34540	39	13598	59	13628	39016	
F 90 3_37.4	37.4	48	12528	68	10639	37410	32	14000	51	13628	42258	
F 90 3_40.5	40.5	44	12992	65	10725	37596	30	14000	47	13738	42468	
F 90 3_46.1	46.1	39	12992	57	10811	40374	26.0	14000	41	13847	45606	
F 90 3_49.9	49.9	36	13050	53	10897	41392	24.0	14000	38	13957	46756	
F 90 3_57.3	57.3	31	130 50	46	10897	44541	20.9	14000	33	13957	50313	
F 90 3_62.1	62.1	29.0	14000	46	10982	45652	19.3	14000	30	14067	51568	
F 90 3_70.8	70.8	25.4	14000	40	10982	48800	16.9	14000	27	14067	55000	
F 90 3_76.7	76.7	23.5	14000	37	11154	50004	15.6	14000	25	14287	55000	
F 90 3_88.4	88.4	20.4	14000	32	11068	50930	13.6	14000	21	14177	55000	
F 90 3_95.8	95.8	18.8	14000	30	11240	50930	12.5	14000	19.7	14397	55000	
F 90 3_103.3	103.3	17.4	14000	27	11154	50930	11.6	14000	18.3	14287	55000	
F 90 3_111.9	111.9	16.1	14000	25	11240	50930	10.7	14000	16.9	14397	55000	
F 90 3_126.8	126.8	14.2	14000	22	11154	50930	9.5	14000	14.9	14287	55000	
F 90 3_137.3	137.3	13.1	14000	21	11240	51500	8.7	14000	13.8	14397	55000	
F 90 3_150.3	150.3	12.0	14000	18.9	11240	54000	8.0	14000	12.6	14397	55000	
F 90 3_162.8	162.8	11.1	14000	17.4	11326	55000	7.4	14000	11.6	14507	55000	
F 90 3_179.2	179.2	10.0	14000	15.8	11240	55000	6.7	14000	10.6	14397	55000	
F 90 3_194.2	194.2	9.3	14000	14.6	11326	55000	6.2	14000	9.7	14507	55000	
F 90 4_213.6	213.6	8.4	14000	13.7	—	55000	5.6	14000	9.2	—	55000	
F 90 4_231.4	231.4	7.8	14000	12.7	—	55000	5.2	14000	8.4	—	55000	
F 90 4_268.7	268.7	6.7	14000	10.9	—	55000	4.5	14000	7.3	462	55000	
F 90 4_291.1	291.1	6.2	14000	10.1	—	55000	4.1	14000	6.7	462	55000	
F 90 4_361.8	361.8	5.0	14000	8.1	—	55000	3.3	14000	5.4	1088	55000	
F 90 4_392.0	392.0	4.6	14000	7.5	—	55000	3.1	14000	5.0	1088	55000	
F 90 4_457.5	457.5	3.9	14000	6.4	—	55000	2.6	14000	4.3	1528	55000	
F 90 4_495.6	495.6	3.6	14000	5.9	—	55000	2.4	14000	3.9	1528	55000	
F 90 4_577.5	577.5	3.1	14000	5.1	1373	55000	2.1	14000	3.4	1758	55000	
F 90 4_625.6	625.6	2.9	14000	4.7	1373	55000	1.9	14000	3.1	1758	55000	
F 90 4_714.0	714.0	2.5	14000	4.1	1544	55000	1.7	14000	2.7	1978	55000	
F 90 4_773.4	773.4	2.3	14000	3.8	1544	55000	1.6	14000	2.5	1978	55000	
F 90 4_910.2	910.2	2.0	14000	3.2	1733	55000	1.3	14000	2.1	2220	55000	
F 90 4_986.0	986.0	1.8	14000	3.0	1733	55000	1.2	14000	2.0	2220	55000	
F 90 4_1112	1112	1.6	14000	2.6	1810	55000	1.1	14000	1.8	2319	55000	
F 90 4_1205	1205	1.5	14000	2.4	1810	55000	1.0	14000	1.6	2319	55000	
F 90 4_1318	1318	1.4	14000	2.2	1905	55000	0.91	14000	1.5	2440	55000	
F 90 4_1428	1428	1.3	14000	2.1	1905	55000	0.84	14000	1.4	2440	55000	
F 90 4_1571	1571	1.1	14000	1.9	1939	55000	0.76	14000	1.2	2484	55000	
F 90 4_1702	1702	1.1	14000	1.7	1939	55000	0.71	14000	1.1	2484	55000	
F 90 4_1937	1937	0.93	14000	1.5	1973	55000	0.62	14000	1.0	2528	55000	
F 90 4_2099	2099	0.86	14000	1.4	1973	55000	0.57	14000	0.9	2528	55000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



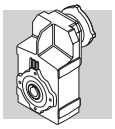
56 DISPONIBILIDADE DE MOTOR

Observe que as combinações de motor e redutor resultantes das tabelas (D55) e (D56) baseiam-se meramente na compatibilidade geométrica.

Ao selecionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição $S \geq f_s$.

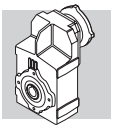
(D 57)

		IEC_ BN BE (IM B5)								
		P63 P71	P80 P90	P100 P112	P132	P160	P180	P200	P225	P250
F 10 2		7.4_127.1	7.4_91.5	7.4_91.5						
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3						
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3						
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4						
F 25 3		50.8_333.1	45.6_288.1	45.6_288.1						
F 25 4		393.9_1374	393.9_1374	393.9_1374						
F 31 2		18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7					
F 31 3		69.1_374.4	47.5_374.4	47.5_374.4	47.5_140.7					
F 31 4		418.9_1539	418.9_1539	418.9_1539						
F 41 2		24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9					
F 41 3		84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7					
F 41 4	i =	433.7_1411	433.7_1411	433.7_1411						
F 51 2		30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1			
F 51 3		105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4			
F 51 4		429.1_1439	429.1_1439	429.1_1439						
F 60 3		98.2_280.7	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4			
F 60 4		315.4_1141	315.4_1141	315.4_1141						
F 70 3			85.4_196.0	85.4_196.0	16.3_196.0 ⛀ (27.7_38.4)	10.0_196.0	10.0_196.0	10.0_49.0 ⛀ (20.9_24.6)		
F 70 4		372.5_2188	216.5_2188	216.5_2188	216.5_822.2					
F 80 3			105.0_200.0	105.0_200.0	20.3_200.0 ⛀ (28.8_49.1)	12.9_200.0 ⛀ (28.8_31.3)	10.3_200.0	10.3_132.7	10.3_132.7	
F 80 4		451.5_1987	218.5_1987	218.5_1987	218.5_972.0					
F 90 3			126.8_194.2	126.8_194.2	25.4_194.2 ⛀ (28.6_62.1)	20.6_194.2 ⛀ (28.6_49.9)	10.3_194.2	10.3_162.8	10.3_162.8	10.3_162.8
F 90 4		577.5_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205			



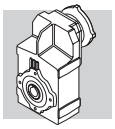
(D 58)

		NEMA Motor frame						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
F 10 2		7.4_127.1	7.4_91.5	7.4_91.5				
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3				
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4				
F 25 3		50.8_333.1	45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374	393.9_1374				
F 31 2		18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7			
F 31 3		69.1_374.4	47.5_374.4	47.5_374.4	47.5_140.7			
F 31 4		418.9_1539	418.9_1539	418.9_1539				
F 41 2		24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9			
F 41 3		84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7			
F 41 4	i =	433.7_1411	433.7_1411	433.7_1411				
F 51 2		30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	
F 51 3		105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4	
F 51 4		429.1_1439	429.1_1439	429.1_1439				
F 60 3		98.2_280.7	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4	
F 60 4		315.4_1141	315.4_1141	315.4_1141				
F 70 3			85.4_196.0	85.4_196.0	16.3_196.0 ⛀ (27.7_38.4)	10.0_196.0	10.0_196.0	
F 70 4		372.5_2188	216.5_2188	216.5_2188	216.5_822.2			
F 80 3			105.0_200.0	105.0_200.0	20.3_200.0 ⛀ (28.8_49.1)	12.9_200.0 ⛀ (28.8_31.3)	10.3_200.0	10.3_132.7
F 80 4		451.5_1987	218.5_1987	218.5_1987	218.5_972.0			
F 90 3			126.8_194.2	126.8_194.2	25.4_194.2 ⛀ (28.6_62.1)	20.6_194.2 ⛀ (28.6_49.9)	10.3_194.2	10.3_162.8
F 90 4		577.5_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205	



(D 59)

		M05	M1	M2 - ME2	ME3	ME4	ME5
F 10 2		7.4_127.1	7.4_71.1	7.4_91.5	7.4_91.5		
F 20 2		8.7_132.2 ⛔ (14.8_18.1)	8.7_90.4 ⛔ (14.8_18.1)	6.4_114.3	6.4_114.3		
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3		
F 25 2		9.4_44.4 ⛔ (10.6_13.0)	9.4_44.4 ⛔ (10.6_13.0)	6.9_44.4	6.9_44.4		
F 25 3		50.8_333.1	50.8_227.8	45.6_288.1	45.6_288.1		
F 25 4		393.9_1374	393.9_1374	393.9_1374	393.9_1374		
F 31 2			18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7	
F 31 3			69.1_293.8	47.5_374.4	47.5_374.4	47.5_140.7	
F 31 4		418.9_1539	418.9_1539	418.9_1539	418.9_1539		
F 41 2			24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9	
F 41 3			84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7	
F 41 4	**i =**	433.7_1411	433.7_1411	433.7_1411	433.7_1411		
F 51 2			30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3			105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4
F 51 4			429.1_1439	429.1_1439	429.1_1439		
F 60 3				11.8_280.7 ⛔ (29.6_32.1)	11.8_280.7 ⛔ (29.6_32.1)	9_201.4	9_201.4
F 60 4			315.4_1141	315.4_1141	315.4_1141		
F 70 3				85.4_196.0	85.4_196.0	16.3_196.0 ⛔ (27.7_38.4)	16.3_196.0 ⛔ (27.7_38.4)
F 70 4			372.5_2188	216.5_2188	216.5_2188	216.5_822.2	
F 80 3					105.0_200.0	20.3_200.0 ⛔ (28.8_49.1)	20.3_200.0 ⛔ (28.8_49.1)
F 80 4			451.5_1987	218.5_1987	218.5_1987	218.5_972.0	
F 90 3					126.8_194.2	25.4_194.2 ⛔ (28.6_62.1)	25.4_194.2 ⛔ (28.6_62.1)
F 90 4				213.6_2099	213.6_2099	213.6_1205	



Adaptadores para motor compatíveis com as marcas mais populares de servomotores estão disponíveis para as unidades tamanhos F 10 … F 60. As dimensões das entradas do servomotor são fornecidas na seção “desenho” de cada tamanho de quadro.
O código **SK** é aplicável para entradas com chaveta convencional, enquanto que o eixo de entrada especificado pelo código **SC** terá um dispositivo de fixação em vez da chaveta convencional.

(D 60)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_71.1		7.4_91.5	7.4_71.1	7.4_91.5	7.4_91.5
F 20 2		8.7_132.2 ⛀ (14.8_18.1)	8.7_90.4 ⛀ (14.8_18.1)	8.7_90.4 ⛀ (14.8_18.1)		6.4_114.3	8.7_90.4 ⛀ (14.8_18.1)	6.4_114.3	6.4_114.3
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3
F 25 2		9.4_44.4 ⛀ (10.6_13.0)	9.4_44.4 ⛀ (10.6_13.0)	9.4_44.4 ⛀ (10.6_13.0)		6.9_44.4	9.4_44.4 ⛀ (10.6_13.0)	6.9_44.4	6.9_44.4
F 25 3		45.6_333.1	45.6_227.8	45.6_227.8		45.6_288.1	45.6_227.8	45.6_288.1	45.6_288.1
F 25 4		393.9_1374	393.9_1374	393.9_1374		393.9_1374	393.9_1374	393.9_1374	393.9_1374
F 31 2		18.5_44.6	18.5_44.6	18.5_44.6		6.9_44.6	18.5_44.6	6.9_44.6	6.9_44.6
F 31 3		69.1_374.4	69.1_293.8	69.1_293.8		47.5_374.4	69.1_293.8	47.5_374.4	47.5_374.4
F 31 4		418.9_1539	418.9_1539	418.9_1539		418.9_1539	418.9_1539	418.9_1539	418.9_1539
F 41 2					24.1_47.9	6.7_47.9	24.1_47.9	6.7_47.9	6.7_47.9
F 41 3					84.9_344.8	51.5_344.8	84.9_344.8	51.5_344.8	51.5_344.8
F 41 4		433.7_1411	433.7_1411	433.7_1411		433.7_1411	433.7_1411	433.7_1411	433.7_1411
F 51 2					30.0_37.1	7.2_37.1	30.0_37.1	7.2_37.1	7.2_37.1
F 51 3					105.1_352.5	48.9_352.5	105.1_352.5	48.9_352.5	48.9_352.5
F 51 4						429.1_1439	429.1_1439	429.1_1439	429.1_1439
F 60 3						11.8_280.7 ⛀ (29.6_32.1)	106.4_280.7	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)
F 60 4					315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141

(D 61)

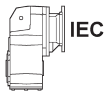
		SERVO INPUT					
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
F 10 2	i =	7.4_91.5	7.4_91.5				
F 20 2		6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3				
F 25 2		6.9_44.4	6.9_44.4				
F 25 3		45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374				
F 31 2		6.9_44.6	6.9_44.6	6.9_44.6			
F 31 3		47.5_374.4	47.5_374.4	47.5_374.4			
F 31 4		418.9_1539	418.9_1539				
F 41 2		6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9
F 41 3		51.5_344.8	51.5_344.8	51.5_344.8	51.5_168.7	51.5_168.7	51.5_168.7
F 41 4		433.7_1411	433.7_1411				
F 51 2		7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3		48.9_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4
F 51 4		429.1_1439	429.1_1439	429.1_1439			
F 60 3		11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	11.8_280.7 ⛀ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4
F 60 4		315.4_1141	315.4_1141	315.4_1141			

57 MOMENTO DE INÉRCIA

As tabelas abaixo indicam os valores de momento de inércia Jr [kgm²] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:



Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.



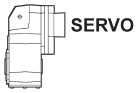
Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).



Valores sob este símbolo referemse a redutores com adaptador para motor NEMA (tamanho NEMA..).



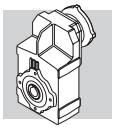
Este símbolo refere-se a valores para redutores.



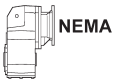
Valores sob este símbolo refere-se a redutores com adaptador de entrada para servomotor.

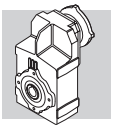
F 10

	i	J (•10-4) [kgm²]							
			IEC						
			63	71	80	90	100	112	
F 10 2_7.4	7.4	1.0	1.8	1.8	3.8	3.7	4.9	4.9	1.7
F 10 2_8.6	8.6	0.77	1.5	1.5	3.6	3.5	4.7	4.7	1.5
F 10 2_9.8	9.8	0.64	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_11.5	11.5	0.48	1.2	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_13.0	13.0	0.38	1.1	1.1	3.2	3.1	4.3	4.3	1.1
F 10 2_14.6	14.6	0.61	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_17.0	17.0	0.48	1.3	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_19.3	19.3	0.41	1.2	1.2	3.2	3.1	4.3	4.3	1.1
F 10 2_22.8	22.8	0.32	1.1	1.1	3.1	3.0	4.2	4.2	1.0
F 10 2_25.8	25.8	0.25	1.0	1.0	3.1	2.9	4.1	4.1	0.93
F 10 2_29.6	29.6	0.19	1.0	0.95	3.0	2.9	4.1	4.1	0.87
F 10 2_33.0	33.0	0.16	0.93	0.92	3.0	2.8	4.1	4.1	0.84
F 10 2_35.3	35.3	0.14	0.92	0.90	3.0	2.8	4.0	4.0	0.83
F 10 2_39.6	39.6	0.12	0.90	0.88	2.9	2.8	4.0	4.0	0.80
F 10 2_44.7	44.7	0.10	0.88	0.86	2.9	2.8	4.0	4.0	0.79
F 10 2_48.7	48.7	0.09	0.86	0.85	2.9	2.8	4.0	4.0	0.77
F 10 2_56.7	56.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	0.75
F 10 2_63.0	63.0	0.06	0.83	0.82	2.9	2.7	3.9	3.9	0.74
F 10 2_71.1	71.1	0.05	0.82	0.81	2.8	2.7	3.9	3.9	0.73
F 10 2_81.3	81.3	0.04	0.78	0.77	2.8	2.7	3.9	3.9	0.67
F 10 2_91.5	91.5	0.03	0.78	0.76	2.8	2.7	3.9	3.9	0.66
F 10 2_106.0	106.0	0.03	0.77	0.76	—	—	—	—	0.66
F 10 2_127.1	127.1	0.02	0.76	0.75	—	—	—	—	0.65



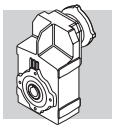
F 10

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
F 10 2_7.4	7.4	1.0	1.8	1.8	3.8	1.7
F 10 2_8.6	8.6	0.77	1.5	1.5	3.6	1.5
F 10 2_9.8	9.8	0.64	1.4	1.4	3.4	1.3
F 10 2_11.5	11.5	0.48	1.2	1.2	3.3	1.2
F 10 2_13.0	13.0	0.38	1.1	1.1	3.2	1.1
F 10 2_14.6	14.6	0.61	1.4	1.4	3.4	1.3
F 10 2_17.0	17.0	0.48	1.3	1.3	3.3	1.2
F 10 2_19.3	19.3	0.41	1.2	1.2	3.2	1.1
F 10 2_22.8	22.8	0.32	1.1	1.1	3.1	1.0
F 10 2_25.8	25.8	0.25	1.0	1.0	3.1	0.93
F 10 2_29.6	29.6	0.19	1.0	1.0	3.0	0.87
F 10 2_33.0	33.0	0.16	0.93	0.93	3.0	0.84
F 10 2_35.3	35.3	0.14	0.92	0.92	3.0	0.83
F 10 2_39.6	39.6	0.12	0.90	0.90	2.9	0.80
F 10 2_44.7	44.7	0.10	0.88	0.88	2.9	0.79
F 10 2_48.7	48.7	0.09	0.86	0.86	2.9	0.77
F 10 2_56.7	56.7	0.07	0.84	0.84	2.9	0.75
F 10 2_63.0	63.0	0.06	0.83	0.83	2.9	0.74
F 10 2_71.1	71.1	0.05	0.82	0.82	2.8	0.73
F 10 2_81.3	81.3	0.04	0.78	0.78	2.8	0.67
F 10 2_91.5	91.5	0.03	0.78	0.78	2.8	0.66
F 10 2_106.0	106.0	0.03	0.77	0.77	—	0.66
F 10 2_127.1	127.1	0.02	0.76	0.76	—	0.65



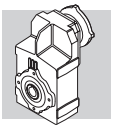
F 10

	i	J (•10-4) [kgm2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 10 2_7.4	7.4	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 10 2_8.6	8.6	1.0	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.5	4.5
F 10 2_9.8	9.8	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 10 2_11.5	11.5	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_13.0	13.0	0.65	0.91	0.67	1.1	3.2	3.6	3.2	3.7	3.1	4.1
F 10 2_14.6	14.6	0.88	1.1	0.91	1.3	3.4	3.9	3.4	3.9	3.3	4.3
F 10 2_17.0	17.0	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_19.3	19.3	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.1	4.1
F 10 2_22.8	22.8	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 10 2_25.8	25.8	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	2.9	3.9
F 10 2_29.6	29.6	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	2.9	3.9
F 10 2_33.0	33.0	0.43	0.69	0.45	0.89	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_35.3	35.3	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_39.6	39.6	0.39	0.65	0.41	0.85	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_44.7	44.7	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8
F 10 2_48.7	48.7	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_56.7	56.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_63.0	63.0	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_71.1	71.1	0.32	0.58	0.34	0.78	2.9	3.3	2.8	3.3	2.7	3.7
F 10 2_81.3	81.3	0.31	0.57	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_91.5	91.5	0.30	0.56	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_106.0	106.0	0.30	0.56	—	—	—	—	—	—	—	—
F 10 2_127.1	127.1	0.29	0.55	—	—	—	—	—	—	—	—

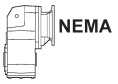


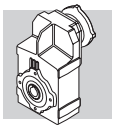
F 20

	i	J (•10-4) [kgm2]							
			IEC 63	IEC 71	IEC 80	IEC 90	IEC 100	IEC 112	
F 20 2_6.4	6.4	2.2	—	—	5.0	4.8	6.0	6.0	3.9
F 20 2_7.8	7.8	1.5	—	—	4.3	4.2	5.4	5.4	3.3
F 20 2_8.7	8.7	1.3	2.0	2.0	4.1	3.9	5.2	5.2	3.0
F 20 2_10.0	10.0	1.0	1.8	1.7	3.8	3.7	4.9	4.9	2.7
F 20 2_11.2	11.2	0.88	1.6	1.6	3.6	3.5	4.7	4.7	2.6
F 20 2_14.8	14.8	1.2	—	—	4.0	3.9	5.1	5.1	2.9
F 20 2_18.1	18.1	0.90	—	—	3.7	3.5	4.7	4.7	2.6
F 20 2_20.2	20.2	0.78	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 20 2_23.1	23.1	0.64	1.4	1.3	3.4	3.3	4.5	4.5	2.4
F 20 2_25.9	25.9	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 20 2_30.4	30.4	0.41	1.1	1.1	3.2	3.0	4.3	4.3	2.1
F 20 2_33.1	33.1	0.36	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 20 2_37.9	37.9	0.30	1.0	1.0	3.1	2.9	4.1	4.1	2.0
F 20 2_41.8	41.8	0.27	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_44.8	44.8	0.24	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_50.7	50.7	0.21	0.93	0.92	3.0	2.8	4.1	4.1	1.9
F 20 2_56.7	56.7	0.18	0.91	0.90	2.9	2.8	4.0	4.0	1.9
F 20 2_61.9	61.9	0.16	0.89	0.88	2.9	2.8	4.0	4.0	1.9
F 20 2_69.1	69.1	0.14	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 20 2_76.8	76.8	0.12	0.86	0.85	2.9	2.8	4.0	4.0	1.8
F 20 2_90.4	90.4	0.10	0.84	0.82	2.9	2.7	3.9	3.9	1.8
F 20 2_101.6	101.6	0.09	0.80	0.79	2.8	2.7	3.9	3.9	1.8
F 20 2_114.3	114.3	0.08	0.79	0.77	2.8	2.7	3.9	3.9	1.8
F 20 2_132.2	132.2	0.03	0.78	0.77	—	—	—	—	1.8
F 20 3_156.3	156.3	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_172.6	172.6	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_184.9	184.9	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_209.3	209.3	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.72
F 20 3_234.0	234.0	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_255.3	255.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_285.2	285.2	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_316.9	316.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_372.9	372.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_419.3	419.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_471.7	471.7	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_545.3	545.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66



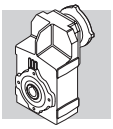
F 20

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
F 20 2_6.4	6.4	2.2	—	—	5.0	3.9
F 20 2_7.8	7.8	1.5	—	—	4.3	3.3
F 20 2_8.7	8.7	1.3	2.0	2.0	4.1	3.0
F 20 2_10.0	10.0	1.0	1.8	1.8	3.8	2.7
F 20 2_11.2	11.2	0.88	1.6	1.6	3.6	2.6
F 20 2_14.8	14.8	1.2	—	—	4.0	2.9
F 20 2_18.1	18.1	0.90	—	—	3.7	2.6
F 20 2_20.2	20.2	0.78	1.5	1.5	3.5	2.5
F 20 2_23.1	23.1	0.64	1.4	1.4	3.4	2.4
F 20 2_25.9	25.9	0.57	1.3	1.3	3.3	2.3
F 20 2_30.4	30.4	0.41	1.1	1.1	3.2	2.1
F 20 2_33.1	33.1	0.36	1.1	1.1	3.1	2.1
F 20 2_37.9	37.9	0.30	1.0	1.0	3.1	2.0
F 20 2_41.8	41.8	0.27	1.0	1.0	3.0	2.0
F 20 2_44.8	44.8	0.24	1.0	1.0	3.0	2.0
F 20 2_50.7	50.7	0.21	0.93	0.93	3.0	1.9
F 20 2_56.7	56.7	0.18	0.91	0.91	2.9	1.9
F 20 2_61.9	61.9	0.16	0.89	0.89	2.9	1.9
F 20 2_69.1	69.1	0.14	0.87	0.87	2.9	1.8
F 20 2_76.8	76.8	0.12	0.86	0.86	2.9	1.8
F 20 2_90.4	90.4	0.10	0.84	0.84	2.9	1.8
F 20 2_101.6	101.6	0.09	0.80	0.80	2.8	1.8
F 20 2_114.3	114.3	0.08	0.79	0.79	2.8	1.8
F 20 2_132.2	132.2	0.03	0.78	0.78	—	1.8
F 20 3_156.3	156.3	0.04	0.81	0.81	2.8	0.72
F 20 3_172.6	172.6	0.04	0.81	0.81	2.8	0.72
F 20 3_184.9	184.9	0.04	0.81	0.81	2.8	0.72
F 20 3_209.3	209.3	0.03	0.81	0.81	2.8	0.72
F 20 3_234.0	234.0	0.03	0.81	0.81	2.8	0.71
F 20 3_255.3	255.3	0.03	0.80	0.80	2.8	0.71
F 20 3_285.2	285.2	0.03	0.80	0.80	2.8	0.71
F 20 3_316.9	316.9	0.03	0.80	0.80	2.8	0.71
F 20 3_372.9	372.9	0.03	0.80	0.80	2.8	0.71
F 20 3_419.3	419.3	0.03	0.80	0.80	2.8	0.66
F 20 3_471.7	471.7	0.03	0.80	0.80	2.8	0.66
F 20 3_545.3	545.3	0.03	0.80	0.80	2.8	0.66



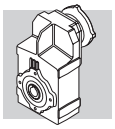
F 20

	i	J (•10-4) [kgm2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 20 2_6.4	6.4	—	—	—	—	—	—	5.0	5.5	4.8	5.8
F 20 2_7.8	7.8	—	—	—	—	—	—	4.3	4.8	4.2	5.2
F 20 2_8.7	8.7	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9
F 20 2_10.0	10.0	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 20 2_11.2	11.2	1.2	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5
F 20 2_14.8	14.8	—	—	—	—	—	—	4.0	4.5	3.9	4.9
F 20 2_18.1	18.1	—	—	—	—	—	—	3.7	4.2	3.5	4.5
F 20 2_20.2	20.2	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 20 2_23.1	23.1	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 20 2_25.9	25.9	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 20 2_30.4	30.4	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 20 2_33.1	33.1	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 20 2_37.9	37.9	0.47	0.83	0.59	1.0	3.1	3.6	3.1	3.6	2.9	3.9
F 20 2_41.8	41.8	0.44	0.80	0.56	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_44.8	44.8	0.41	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_50.7	50.7	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8
F 20 2_56.7	56.7	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_61.9	61.9	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_69.1	69.1	0.41	0.67	0.43	0.87	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_76.8	76.8	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.8	3.8
F 20 2_90.4	90.4	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 20 2_101.6	101.6	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_114.3	114.3	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_132.2	132.2	0.30	0.56	—	—	—	—	—	—	—	—
F 20 3_156.3	156.3	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_172.6	172.6	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_184.9	184.9	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_209.3	209.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_234.0	234.0	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_255.3	255.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_285.2	285.2	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_316.9	316.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_372.9	372.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_419.3	419.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_471.7	471.7	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_545.3	545.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7

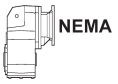


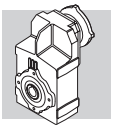
F 25

	i	J (•10-4) [kgm2]							
			IEC 63	IEC 71	IEC 80	IEC 90	IEC 100	IEC 112	
F 25 2_6.9	6.9	2.7	—	—	5.4	5.3	6.5	6.5	4.4
F 25 2_8.4	8.4	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_9.4	9.4	1.6	2.3	2.3	4.3	4.2	5.4	5.4	3.3
F 25 2_10.6	10.6	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_13.0	13.0	1.3	—	—	4.1	4.0	5.2	5.2	3.0
F 25 2_14.5	14.5	1.1	1.8	1.8	3.9	3.8	5.0	5.0	2.8
F 25 2_16.6	16.6	0.90	1.6	1.6	3.7	3.5	4.7	4.7	2.6
F 25 2_18.6	18.6	0.77	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 25 2_21.8	21.8	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 2_23.8	23.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	2.2
F 25 2_27.2	27.2	0.40	1.1	1.1	3.2	3.0	4.2	4.2	2.1
F 25 2_30.0	30.0	0.35	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 2_32.2	32.2	0.31	1.0	1.0	3.1	2.9	4.2	4.2	2.0
F 25 2_36.4	36.4	0.26	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 2_40.7	40.7	0.22	1.0	0.94	3.0	2.9	4.1	4.1	1.9
F 25 2_44.4	44.4	0.20	0.93	0.92	3.0	2.8	4.0	4.0	1.9
F 25 3_45.6	45.6	0.79	—	—	3.6	3.4	4.6	4.6	2.5
F 25 3_50.8	50.8	0.70	1.4	1.4	3.5	3.3	4.5	4.5	2.4
F 25 3_58.3	58.3	0.58	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 3_65.3	65.3	0.52	1.2	1.2	3.3	3.1	4.4	4.4	2.2
F 25 3_76.6	76.6	0.38	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 3_83.4	83.4	0.32	1.0	1.0	3.1	3.0	4.2	4.2	2.0
F 25 3_95.5	95.5	0.28	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_105.4	105.4	0.25	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_113.0	113.0	0.23	0.95	0.94	3.0	2.9	4.1	4.1	1.9
F 25 3_127.8	127.8	0.20	0.92	0.91	3.0	2.8	4.0	4.0	1.9
F 25 3_143.0	143.0	0.17	0.90	0.89	2.9	2.8	4.0	4.0	1.9
F 25 3_155.9	155.9	0.15	0.88	0.87	2.9	2.8	4.0	4.0	1.9
F 25 3_174.2	174.2	0.13	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 25 3_193.6	193.6	0.12	0.85	0.84	2.9	2.7	4.0	4.0	1.8
F 25 3_227.8	227.8	0.10	0.83	0.82	2.9	2.7	3.9	3.9	1.8
F 25 3_256.1	256.1	0.09	0.79	0.78	2.8	2.7	3.9	3.9	1.8
F 25 3_288.1	288.1	0.08	0.78	0.77	2.8	2.7	3.9	3.9	1.8
F 25 3_333.1	333.1	0.03	0.78	0.76	—	—	—	—	1.8
F 25 4_393.9	393.9	0.02	0.80	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_434.9	434.9	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_466.0	466.0	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_527.3	527.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_589.7	589.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_643.3	643.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_718.7	718.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_798.5	798.5	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.70
F 25 4_939.8	939.8	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.69
F 25 4_1057	1057	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1189	1189	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1374	1374	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64



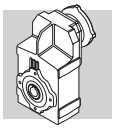
F 25

	i	J (•10-4) [kgm2]				
			 NEMA			
			N56C	N140TC	N180TC	
F 25 2_6.9	6.9	2.7	—	—	5.4	4.4
F 25 2_8.4	8.4	1.9	—	—	4.6	3.6
F 25 2_9.4	9.4	1.6	2.3	2.3	4.3	3.3
F 25 2_10.6	10.6	1.9	—	—	4.6	3.6
F 25 2_13.0	13.0	1.3	—	—	4.1	3.0
F 25 2_14.5	14.5	1.1	1.8	1.8	3.9	2.8
F 25 2_16.6	16.6	0.90	1.6	1.6	3.7	2.6
F 25 2_18.6	18.6	0.77	1.5	1.5	3.5	2.5
F 25 2_21.8	21.8	0.57	1.3	1.3	3.3	2.3
F 25 2_23.8	23.8	0.48	1.2	1.2	3.2	2.2
F 25 2_27.2	27.2	0.40	1.1	1.1	3.2	2.1
F 25 2_30.0	30.0	0.35	1.1	1.1	3.1	2.1
F 25 2_32.2	32.2	0.31	1.0	1.0	3.1	2.0
F 25 2_36.4	36.4	0.26	1.0	1.0	3.0	2.0
F 25 2_40.7	40.7	0.22	1.0	1.0	3.0	1.9
F 25 2_44.4	44.4	0.20	0.93	0.93	3.0	1.9
F 25 3_45.6	45.6	0.79	—	—	3.6	2.5
F 25 3_50.8	50.8	0.70	1.4	1.4	3.5	2.4
F 25 3_58.3	58.3	0.58	1.3	1.3	3.3	2.3
F 25 3_65.3	65.3	0.52	1.2	1.2	3.3	2.2
F 25 3_76.6	76.6	0.38	1.1	1.1	3.1	2.1
F 25 3_83.4	83.4	0.32	1.0	1.0	3.1	2.0
F 25 3_95.5	95.5	0.28	1.0	1.0	3.0	2.0
F 25 3_105.4	105.4	0.25	1.0	1.0	3.0	2.0
F 25 3_113.0	113.0	0.23	0.95	0.95	3.0	1.9
F 25 3_127.8	127.8	0.20	0.92	0.92	3.0	1.9
F 25 3_143.0	143.0	0.17	0.90	0.90	2.9	1.9
F 25 3_155.9	155.9	0.15	0.88	0.88	2.9	1.9
F 25 3_174.2	174.2	0.13	0.87	0.87	2.9	1.8
F 25 3_193.6	193.6	0.12	0.85	0.85	2.9	1.8
F 25 3_227.8	227.8	0.10	0.83	0.83	2.9	1.8
F 25 3_256.1	256.1	0.09	0.79	0.79	2.8	1.8
F 25 3_288.1	288.1	0.08	0.78	0.78	2.8	1.8
F 25 3_333.1	333.1	0.03	0.78	0.78	—	1.8
F 25 4_393.9	393.9	0.02	0.80	0.80	2.8	0.70
F 25 4_434.9	434.9	0.02	0.79	0.79	2.8	0.70
F 25 4_466.0	466.0	0.02	0.79	0.79	2.8	0.70
F 25 4_527.3	527.3	0.02	0.79	0.79	2.8	0.70
F 25 4_589.7	589.7	0.02	0.79	0.79	2.8	0.70
F 25 4_643.3	643.3	0.02	0.79	0.79	2.8	0.70
F 25 4_718.7	718.7	0.02	0.79	0.79	2.8	0.70
F 25 4_798.5	798.5	0.01	0.79	0.79	2.8	0.70
F 25 4_939.8	939.8	0.01	0.79	0.79	2.8	0.69
F 25 4_1057	1057	0.01	0.79	0.79	2.8	0.64
F 25 4_1189	1189	0.01	0.78	0.78	2.8	0.64
F 25 4_1374	1374	0.01	0.78	0.78	2.8	0.64



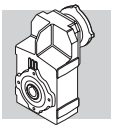
F 25

	i	J (•10-4) [kgm2]									
		SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 25 2_6.9	6.9	—	—	—	—	—	—	5.4	5.9	5.3	6.3
F 25 2_8.4	8.4	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_9.4	9.4	1.9	2.1	1.9	2.3	4.4	4.9	4.3	4.8	4.2	5.2
F 25 2_10.6	10.6	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_13.0	13.0	—	—	—	—	—	—	4.1	4.6	4.0	5.0
F 25 2_14.5	14.5	1.4	1.6	1.4	1.8	3.9	4.4	3.9	4.4	3.8	4.8
F 25 2_16.6	16.6	1.2	1.4	1.2	1.6	3.7	4.2	3.7	4.2	3.5	4.5
F 25 2_18.6	18.6	1.0	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 25 2_21.8	21.8	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 2_23.8	23.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1
F 25 2_27.2	27.2	0.67	0.93	0.69	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 25 2_30.0	30.0	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 2_32.2	32.2	0.58	0.84	1.4	1.8	3.1	3.6	3.1	3.6	2.9	3.9
F 25 2_36.4	36.4	0.53	0.79	0.55	0.99	3.1	3.5	3.0	3.5	2.9	3.9
F 25 2_40.7	40.7	0.49	0.75	0.51	0.95	3.0	3.5	3.0	3.5	2.9	3.9
F 25 2_44.4	44.4	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_45.6	45.6	1.1	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.4	4.4
F 25 3_50.8	50.8	0.97	1.2	0.99	1.4	3.5	4.0	3.5	4.0	3.3	4.3
F 25 3_58.3	58.3	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 3_65.3	65.3	0.79	1.1	0.84	1.2	3.3	3.8	3.3	3.8	3.1	4.1
F 25 3_76.6	76.6	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 3_83.4	83.4	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 25 3_95.5	95.5	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_105.4	105.4	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_113.0	113.0	0.50	0.76	0.52	0.96	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_127.8	127.8	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_143.0	143.0	0.44	0.70	0.46	0.90	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_155.9	155.9	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_174.2	174.2	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_193.6	193.6	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_227.8	227.8	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_256.1	256.1	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_288.1	288.1	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_333.1	333.1	0.30	0.56	—	—	—	—	—	—	—	—
F 25 4_393.9	393.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_434.9	434.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_466.0	466.0	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_527.3	527.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_589.7	589.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_643.3	643.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_718.7	718.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_798.5	798.5	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_939.8	939.8	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1057	1057	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1189	1189	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1374	1374	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7



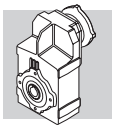
F 31

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
F 31 2_6.9	6.9	5.0	—	—	7.8	7.6	8.9	8.9	22	7.1
F 31 2_8.2	8.2	3.7	—	—	6.5	6.3	7.5	7.5	20	5.8
F 31 2_9.0	9.0	3.2	—	—	6.0	5.8	7.0	7.0	20	5.3
F 31 2_10.7	10.7	3.5	—	—	6.3	6.2	7.4	7.4	20	5.6
F 31 2_12.7	12.7	2.6	—	—	5.4	5.3	6.5	6.5	19	4.7
F 31 2_13.9	13.9	2.3	—	—	5.1	4.9	6.2	6.2	19	4.4
F 31 2_16.8	16.8	1.8	—	—	4.6	4.4	5.6	5.6	18	3.9
F 31 2_18.5	18.5	1.5	2.2	2.2	4.2	4.1	5.3	5.3	18	3.5
F 31 2_21.1	21.1	1.1	1.8	1.8	3.9	3.7	5.0	5.0	18	3.2
F 31 2_23.4	23.4	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 2_27.3	27.3	0.78	1.5	1.5	3.5	3.4	4.6	4.6	17	2.8
F 31 2_30.1	30.1	0.65	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 2_34.4	34.4	0.53	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 2_37.7	37.7	0.47	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 2_40.4	40.4	0.42	1.1	1.1	3.2	3.0	4.3	4.3	—	2.5
F 31 2_44.6	44.6	0.37	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
F 31 3_47.5	47.5	1.6	—	—	4.3	4.2	5.4	5.4	18	3.6
F 31 3_52.1	52.1	1.4	—	—	4.2	4.0	5.3	5.3	18	3.5
F 31 3_62.8	62.8	1.2	—	—	3.9	3.8	5.0	5.0	18	3.2
F 31 3_69.1	69.1	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 3_78.9	78.9	0.72	1.4	1.4	3.5	3.4	4.6	4.6	17	2.8
F 31 3_87.4	87.4	0.66	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 3_101.9	101.9	0.54	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 3_112.5	112.5	0.46	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 3_128.4	128.4	0.38	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_140.7	140.7	0.35	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_150.8	150.8	0.31	1.0	1.0	3.1	2.9	4.2	4.2	—	2.4
F 31 3_166.8	166.8	0.28	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_185.4	185.4	0.24	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_202.3	202.3	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	2.3
F 31 3_228.2	228.2	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
F 31 3_253.6	253.6	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	2.2
F 31 3_293.8	293.8	0.13	0.86	0.85	2.9	2.8	4.0	4.0	—	2.2
F 31 3_332.8	332.8	0.11	0.82	0.81	2.9	2.7	4.0	4.0	—	2.2
F 31 3_374.4	374.4	0.10	0.81	0.79	2.9	2.7	3.9	3.9	—	2.2
F 31 4_418.9	418.9	0.09	0.86	0.85	2.9	2.8	3.9	3.9	—	0.77
F 31 4_462.6	462.6	0.08	0.86	0.84	2.9	2.7	3.9	3.9	—	0.77
F 31 4_527.8	527.8	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_578.6	578.6	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_619.9	619.9	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_685.6	685.6	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_762.3	762.3	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_831.6	831.6	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_938.2	938.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1042	1042	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1208	1208	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1368	1368	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1539	1539	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75



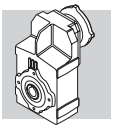
F 31

	i	J (•10-4) [kgm2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
F 31 2_6.9	6.9	5.0	—	—	7.8	22	7.1
F 31 2_8.2	8.2	3.7	—	—	6.5	20	5.8
F 31 2_9.0	9.0	3.2	—	—	6.0	20	5.3
F 31 2_10.7	10.7	3.5	—	—	6.3	20	5.6
F 31 2_12.7	12.7	2.6	—	—	5.4	19	4.7
F 31 2_13.9	13.9	2.3	—	—	5.1	19	4.4
F 31 2_16.8	16.8	1.8	—	—	4.6	18	3.9
F 31 2_18.5	18.5	1.5	2.2	2.2	4.2	18	3.5
F 31 2_21.1	21.1	1.1	1.8	1.8	3.9	18	3.2
F 31 2_23.4	23.4	1.0	1.7	1.7	3.7	18	3.0
F 31 2_27.3	27.3	0.78	1.5	1.5	3.5	17	2.8
F 31 2_30.1	30.1	0.65	1.4	1.4	3.4	17	2.7
F 31 2_34.4	34.4	0.53	1.3	1.3	3.3	17	2.6
F 31 2_37.7	37.7	0.47	1.2	1.2	3.2	17	2.5
F 31 2_40.4	40.4	0.42	1.1	1.1	3.2	—	2.5
F 31 2_44.6	44.6	0.37	1.1	1.1	3.1	—	2.4
F 31 3_47.5	47.5	1.6	—	—	4.3	18	3.6
F 31 3_52.1	52.1	1.4	—	—	4.2	18	3.5
F 31 3_62.8	62.8	1.2	—	—	3.9	18	3.2
F 31 3_69.1	69.1	1.0	1.7	1.7	3.7	18	3.0
F 31 3_78.9	78.9	0.72	1.4	1.4	3.5	17	2.8
F 31 3_87.4	87.4	0.66	1.4	1.4	3.4	17	2.7
F 31 3_101.9	101.9	0.54	1.3	1.3	3.3	17	2.6
F 31 3_112.5	112.5	0.46	1.2	1.2	3.2	17	2.5
F 31 3_128.4	128.4	0.38	1.1	1.1	3.1	17	2.4
F 31 3_140.7	140.7	0.35	1.1	1.1	3.1	17	2.4
F 31 3_150.8	150.8	0.31	1.0	1.0	3.1	—	2.4
F 31 3_166.8	166.8	0.28	1.0	1.0	3.0	—	2.3
F 31 3_185.4	185.4	0.24	1.0	1.0	3.0	—	2.3
F 31 3_202.3	202.3	0.21	0.94	0.94	3.0	—	2.3
F 31 3_228.2	228.2	0.18	0.92	0.92	2.9	—	2.2
F 31 3_253.6	253.6	0.16	0.89	0.89	2.9	—	2.2
F 31 3_293.8	293.8	0.13	0.86	0.86	2.9	—	2.2
F 31 3_332.8	332.8	0.11	0.82	0.82	2.9	—	2.2
F 31 3_374.4	374.4	0.10	0.81	0.81	2.9	—	2.2
F 31 4_418.9	418.9	0.09	0.86	0.86	2.9	—	0.77
F 31 4_462.6	462.6	0.08	0.86	0.86	2.9	—	0.77
F 31 4_527.8	527.8	0.08	0.85	0.85	2.9	—	0.76
F 31 4_578.6	578.6	0.08	0.85	0.85	2.9	—	0.76
F 31 4_619.9	619.9	0.07	0.85	0.85	2.9	—	0.76
F 31 4_685.6	685.6	0.07	0.85	0.85	2.9	—	0.76
F 31 4_762.3	762.3	0.07	0.84	0.84	2.9	—	0.75
F 31 4_831.6	831.6	0.07	0.84	0.84	2.9	—	0.75
F 31 4_938.2	938.2	0.07	0.84	0.84	2.9	—	0.75
F 31 4_1042	1042	0.07	0.84	0.84	2.9	—	0.75
F 31 4_1208	1208	0.06	0.84	0.84	2.9	—	0.75
F 31 4_1368	1368	0.06	0.84	0.84	2.9	—	0.75
F 31 4_1539	1539	0.06	0.84	0.84	2.9	—	0.75



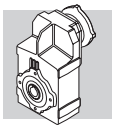
F 31

	i	J (•10-4) [kgm2]											
		SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 31 2_6.9	6.9	—	—	—	—	—	—	7.8	8.3	7.6	8.6	7.6	8.6
F 31 2_8.2	8.2	—	—	—	—	—	—	6.5	7.0	6.3	7.3	6.3	7.3
F 31 2_9.0	9.0	—	—	—	—	—	—	6.0	6.5	5.8	6.8	5.8	6.8
F 31 2_10.7	10.7	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2
F 31 2_12.7	12.7	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
F 31 2_13.9	13.9	—	—	—	—	—	—	5.1	5.6	4.9	5.9	4.9	5.9
F 31 2_16.8	16.8	—	—	—	—	—	—	4.6	5.1	4.4	5.4	4.4	5.4
F 31 2_18.5	18.5	1.8	2.0	1.8	2.2	4.3	4.8	4.2	4.7	4.1	5.1	4.1	5.1
F 31 2_21.1	21.1	1.4	1.6	1.4	1.8	3.9	4.3	3.9	4.4	3.7	4.7	3.7	4.7
F 31 2_23.4	23.4	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 2_27.3	27.3	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 2_30.1	30.1	0.92	1.2	0.94	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 2_34.4	34.4	0.80	1.1	0.82	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 2_37.7	37.7	0.74	1.0	0.76	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 2_40.4	40.4	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.0	4.0	3.0	4.0
F 31 2_44.6	44.6	0.64	0.90	0.66	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_47.5	47.5	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
F 31 3_52.1	52.1	—	—	—	—	—	—	4.2	4.7	4.0	5.0	4.0	5.0
F 31 3_62.8	62.8	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
F 31 3_69.1	69.1	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 3_78.9	78.9	0.99	1.3	1.0	1.4	3.5	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 3_87.4	87.4	0.93	1.2	0.95	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 3_101.9	101.9	0.81	1.1	0.83	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 3_112.5	112.5	0.73	0.99	0.75	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 3_128.4	128.4	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_140.7	140.7	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_150.8	150.8	0.58	0.84	0.60	1.0	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9
F 31 3_166.8	166.8	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_185.4	185.4	0.51	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_202.3	202.3	0.48	0.74	0.50	0.93	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
F 31 3_228.2	228.2	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_253.6	253.6	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_293.8	293.8	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_332.8	332.8	0.38	0.64	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 3_374.4	374.4	0.37	0.63	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 4_418.9	418.9	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
F 31 4_462.6	462.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_527.8	527.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_578.6	578.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_619.9	619.9	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_685.6	685.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_762.3	762.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_831.6	831.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_938.2	938.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1042	1042	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1208	1208	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1368	1368	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1539	1539	0.83	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—



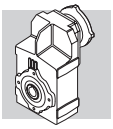
F 41

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
F 41 2_6.7	6.7	12	—	—	15	15	18	18	29	21
F 41 2_9.1	9.1	7.2	—	—	10	9.8	13	13	24	16
F 41 2_10.8	10.8	8.0	—	—	11	11	13	13	25	17
F 41 2_14.6	14.6	5.0	—	—	7.7	7.6	10	10	21	14
F 41 2_17.1	17.1	3.5	—	—	6.3	6.2	8.9	8.9	20	12
F 41 2_18.9	18.9	3.1	—	—	5.8	5.7	8.5	8.5	20	12
F 41 2_24.1	24.1	2.1	2.8	2.8	4.9	4.8	7.5	7.5	19	11
F 41 2_30.1	30.1	1.5	2.2	2.2	4.3	4.2	6.9	6.9	18	10
F 41 2_38.2	38.2	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	9.7
F 41 2_47.9	47.9	0.67	1.4	1.4	3.4	3.3	6.0	6.0	17	9.5
F 41 3_51.5	51.5	3.0	—	—	5.7	5.6	8.4	8.4	19	12
F 41 3_60.2	60.2	2.1	—	—	4.9	4.7	7.5	7.5	19	11
F 41 3_66.5	66.5	1.9	—	—	4.7	4.5	7.3	7.3	18	11
F 41 3_84.9	84.9	1.4	2.1	2.1	4.2	4.0	6.8	6.8	18	10
F 41 3_106.0	106.0	1.1	1.8	1.7	3.8	3.7	6.4	6.4	18	9.8
F 41 3_134.4	134.4	0.66	1.4	1.4	3.4	3.3	6.0	6.0	17	9.4
F 41 3_168.7	168.7	0.49	1.2	1.2	3.2	3.1	5.9	5.9	17	9.3
F 41 3_180.7	180.7	0.43	1.1	1.1	3.2	3.1	5.8	5.8	—	9.2
F 41 3_198.9	198.9	0.39	1.1	1.1	3.1	3.0	5.8	5.8	—	9.2
F 41 3_220.1	220.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	9.1
F 41 3_240.1	240.1	0.31	1.0	1.0	3.1	2.9	5.7	5.7	—	9.1
F 41 3_266.9	266.9	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	9.1
F 41 3_296.6	296.6	0.23	1.0	1.0	3.0	2.9	5.6	5.6	—	9.0
F 41 3_344.8	344.8	0.19	0.92	0.91	2.9	2.8	5.6	5.6	—	9.0
F 41 4_433.7	433.7	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	1.9
F 41 4_549.8	549.8	0.19	0.92	0.90	2.9	2.8	4.0	4.0	—	1.9
F 41 4_690.1	690.1	0.18	0.91	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_739.4	739.4	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_813.8	813.8	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_900.5	900.5	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_982.4	982.4	0.17	0.90	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1092	1092	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1213	1213	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1411	1411	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9



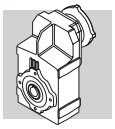
F 41

	i	J (•10-4) [kgm2]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
F 41 2_6.7	6.7	12	—	—	15	29	21
F 41 2_9.1	9.1	7.2	—	—	10	24	16
F 41 2_10.8	10.8	8.0	—	—	11	25	17
F 41 2_14.6	14.6	5.0	—	—	7.7	21	14
F 41 2_17.1	17.1	3.5	—	—	6.3	20	12
F 41 2_18.9	18.9	3.1	—	—	5.8	20	12
F 41 2_24.1	24.1	2.1	2.8	2.8	4.9	19	11
F 41 2_30.1	30.1	1.5	2.2	2.2	4.3	18	10
F 41 2_38.2	38.2	0.95	1.7	1.7	3.7	17	9.7
F 41 2_47.9	47.9	0.67	1.4	1.4	3.4	17	9.5
F 41 3_51.5	51.5	3.0	—	—	5.7	19	12
F 41 3_60.2	60.2	2.1	—	—	4.9	19	11
F 41 3_66.5	66.5	1.9	—	—	4.7	18	11
F 41 3_84.9	84.9	1.4	2.1	2.1	4.2	18	10
F 41 3_106.0	106.0	1.1	1.8	1.8	3.8	18	9.8
F 41 3_134.4	134.4	0.66	1.4	1.4	3.4	17	9.4
F 41 3_168.7	168.7	0.49	1.2	1.2	3.2	17	9.3
F 41 3_180.7	180.7	0.43	1.1	1.1	3.2	—	9.2
F 41 3_198.9	198.9	0.39	1.1	1.1	3.1	—	9.2
F 41 3_220.1	220.1	0.36	1.1	1.1	3.1	—	9.1
F 41 3_240.1	240.1	0.31	1.0	1.0	3.1	—	9.1
F 41 3_266.9	266.9	0.28	1.0	1.0	3.0	—	9.1
F 41 3_296.6	296.6	0.23	1.0	1.0	3.0	—	9.0
F 41 3_344.8	344.8	0.19	0.92	0.92	2.9	—	9.0
F 41 4_433.7	433.7	0.21	0.94	0.94	3.0	—	1.9
F 41 4_549.8	549.8	0.19	0.92	0.92	2.9	—	1.9
F 41 4_690.1	690.1	0.18	0.91	0.91	2.9	—	1.9
F 41 4_739.4	739.4	0.17	0.90	0.90	2.9	—	1.9
F 41 4_813.8	813.8	0.17	0.90	0.90	2.9	—	1.9
F 41 4_900.5	900.5	0.17	0.90	0.90	2.9	—	1.9
F 41 4_982.4	982.4	0.17	0.90	0.90	2.9	—	1.9
F 41 4_1092	1092	0.16	0.89	0.89	2.9	—	1.9
F 41 4_1213	1213	0.16	0.89	0.89	2.9	—	1.9
F 41 4_1411	1411	0.16	0.89	0.89	2.9	—	1.9



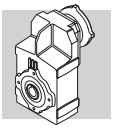
F 41

	i	J (•10-4) [kgm2]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 41 2_6.7	6.7	—	—	—	—	—	—	—	—	15	16	15	16	15	16	29	31	29	34
F 41 2_9.1	9.1	—	—	—	—	—	—	—	—	10	11	9.8	11	9.8	11	24	27	24	29
F 41 2_10.8	10.8	—	—	—	—	—	—	—	—	11	12	11	12	11	12	25	27	25	30
F 41 2_14.6	14.6	—	—	—	—	—	—	—	—	7.7	8.2	7.6	8.6	7.6	8.6	22	24	21	26
F 41 2_17.1	17.1	—	—	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2	20	23	20	25
F 41 2_18.9	18.9	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	23	20	25
F 41 2_24.1	24.1	—	—	—	—	4.9	5.4	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8	19	22	19	24
F 41 2_30.1	30.1	—	—	—	—	4.3	4.8	4.3	4.8	4.3	4.8	4.2	5.2	4.2	5.2	18	21	18	23
F 41 2_38.2	38.2	—	—	—	—	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6	18	20	17	22
F 41 2_47.9	47.9	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_51.5	51.5	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	19	24
F 41 3_60.2	60.2	—	—	—	—	—	—	—	—	4.9	5.4	4.7	5.7	4.7	5.7	19	22	19	24
F 41 3_66.5	66.5	—	—	—	—	—	—	—	—	4.7	5.2	4.5	5.5	4.5	5.5	19	21	18	23
F 41 3_84.9	84.9	—	—	—	—	4.2	4.7	4.2	4.7	4.2	4.7	4.0	5.0	4.0	5.0	18	21	18	23
F 41 3_106.0	106.0	—	—	—	—	3.9	4.4	3.9	4.4	3.8	4.3	3.7	4.7	3.7	4.7	18	21	18	23
F 41 3_134.4	134.4	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_168.7	168.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	17	20	17	22
F 41 3_180.7	180.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
F 41 3_198.9	198.9	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_220.1	220.1	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_240.1	240.1	—	—	—	—	3.1	3.6	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_266.9	266.9	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_296.6	296.6	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_344.8	344.8	—	—	—	—	3.0	3.4	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8	—	—	—	—
F 41 4_433.7	433.7	0.48	0.74	0.50	0.94	—	—	3.0	3.5	3.0	3.5	2.8	3.8	—	—	—	—	—	—
F 41 4_549.8	549.8	0.46	0.72	0.48	0.92	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_690.1	690.1	0.45	0.71	0.47	0.91	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_739.4	739.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_813.8	813.8	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_900.5	900.5	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_982.4	982.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1092	1092	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1213	1213	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1411	1411	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—



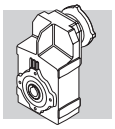
F 51

	i	J (•10-4) [kgm2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
F 51 2_7.2	7.2	25	—	—	28	28	30	30	42	101	103	34
F 51 2_9.1	9.1	17	—	—	20	19	22	22	33	92	94	26
F 51 2_11.1	11.1	16	—	—	19	19	22	22	33	92	94	25
F 51 2_14.0	14.0	11	—	—	14	14	17	17	28	87	89	20
F 51 2_18.8	18.8	7.0	—	—	9.8	9.6	12	12	24	83	85	16
F 51 2_23.8	23.8	4.5	—	—	7.3	7.2	9.9	9.9	21	80	82	13
F 51 2_30.0	30.0	3.1	3.8	3.8	5.9	5.8	8.5	8.5	20	79	81	12
F 51 2_37.1	37.1	2.2	3.0	3.0	5.0	4.9	7.6	7.6	19	78	80	11
F 51 3_48.9	48.9	6.2	—	—	8.9	8.8	12	12	23	82	84	15
F 51 3_65.8	65.8	4.2	—	—	6.9	6.8	9.6	9.6	21	80	82	13
F 51 3_83.2	83.2	2.7	—	—	5.5	5.4	8.1	8.1	19	78	80	12
F 51 3_105.1	105.1	2.0	2.7	2.7	4.8	4.6	7.4	7.4	19	78	80	11
F 51 3_129.9	129.9	1.5	2.2	2.2	4.3	4.1	6.9	6.9	18	77	79	10
F 51 3_165.6	165.6	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	76	78	9.7
F 51 3_202.4	202.4	0.72	1.4	1.4	3.5	3.3	6.1	6.1	17	76	78	9.5
F 51 3_216.9	216.9	0.64	1.4	1.3	3.4	3.3	6.0	6.0	—	—	—	9.4
F 51 3_239.8	239.8	0.60	1.3	1.3	3.4	3.2	6.0	6.0	—	—	—	9.4
F 51 3_262.1	262.1	0.53	1.3	1.3	3.3	3.2	5.9	5.9	—	—	—	9.3
F 51 3_285.9	285.9	0.46	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2
F 51 3_317.3	317.3	0.39	1.1	1.1	3.2	3.0	5.8	5.8	—	—	—	9.2
F 51 3_352.5	352.5	0.28	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	9.1
F 51 4_429.1	429.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_530.5	530.5	0.33	1.1	1.0	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_676.3	676.3	0.30	1.0	1.0	3.1	2.9	5.7	5.7	—	—	—	2.4
F 51 4_826.4	826.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_885.5	885.5	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_979.4	979.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_1070	1070	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1168	1168	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1296	1296	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1439	1439	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3



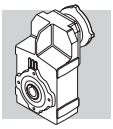
F 51

	i	J (•10-4) [kgm2]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
F 51 2_7.2	7.2	25	—	—	28	42	101	103	34
F 51 2_9.1	9.1	17	—	—	20	33	92	94	26
F 51 2_11.1	11.1	16	—	—	19	33	92	94	25
F 51 2_14.0	14.0	11	—	—	14	28	87	89	20
F 51 2_18.8	18.8	7.0	—	—	9.8	24	83	85	16
F 51 2_23.8	23.8	4.5	—	—	7.3	21	80	82	13
F 51 2_30.0	30.0	3.1	3.8	3.8	5.9	20	79	81	12
F 51 2_37.1	37.1	2.2	3.0	3.0	5.0	19	78	80	11
F 51 3_48.9	48.9	6.2	—	—	8.9	23	82	84	15
F 51 3_65.8	65.8	4.2	—	—	6.9	21	80	82	13
F 51 3_83.2	83.2	2.7	—	—	5.5	19	78	80	12
F 51 3_105.1	105.1	2.0	2.7	2.7	4.8	19	78	80	11
F 51 3_129.9	129.9	1.5	2.2	2.2	4.3	18	77	79	10
F 51 3_165.6	165.6	0.95	1.7	1.7	3.7	17	76	78	9.7
F 51 3_202.4	202.4	0.72	1.4	1.4	3.5	17	76	78	9.5
F 51 3_216.9	216.9	0.64	1.4	1.4	3.4	—	—	—	9.4
F 51 3_239.8	239.8	0.60	1.3	1.3	3.4	—	—	—	9.4
F 51 3_262.1	262.1	0.53	1.3	1.3	3.3	—	—	—	9.3
F 51 3_285.9	285.9	0.46	1.2	1.2	3.2	—	—	—	9.2
F 51 3_317.3	317.3	0.39	1.1	1.1	3.2	—	—	—	9.2
F 51 3_352.5	352.5	0.28	1.1	1.1	3.1	—	—	—	9.1
F 51 4_429.1	429.1	0.36	1.1	1.1	3.1	—	—	—	2.4
F 51 4_530.5	530.5	0.33	1.1	1.1	3.1	—	—	—	2.4
F 51 4_676.3	676.3	0.30	1.0	1.0	3.1	—	—	—	2.4
F 51 4_826.4	826.4	0.28	1.0	1.0	3.0	—	—	—	2.3
F 51 4_885.5	885.5	0.28	1.0	1.0	3.0	—	—	—	2.3
F 51 4_979.4	979.4	0.28	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1070	1070	0.27	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1168	1168	0.27	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1296	1296	0.26	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1439	1439	0.26	1.0	1.0	3.0	—	—	—	2.3



F 51

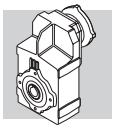
	i	J (•10-4) [kgm2]											
		SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 51 2_7.2	7.2	—	—	—	—	28	29	28	23	42	44	42	47
F 51 2_9.1	9.1	—	—	—	—	20	21	19	20	34	36	33	38
F 51 2_11.1	11.1	—	—	—	—	19	20	19	20	33	35	33	38
F 51 2_14.0	14.0	—	—	—	—	14	15	14	15	28	30	28	33
F 51 2_18.8	18.8	—	—	—	—	9.8	10	9.6	11	24	26	24	29
F 51 2_23.8	23.8	—	—	—	—	7.3	7.8	7.2	8.2	21	24	21	26
F 51 2_30.0	30.0	5.9	6.4	5.9	6.4	5.9	6.4	5.8	6.8	20	23	20	25
F 51 2_37.1	37.1	5.0	5.5	5.0	5.5	5.0	5.5	4.9	5.9	19	22	19	24
F 51 3_48.9	48.9	—	—	—	—	8.9	9.4	8.8	9.8	23	26	23	28
F 51 3_65.8	65.8	—	—	—	—	6.9	7.4	6.8	7.8	21	24	21	26
F 51 3_83.2	83.2	—	—	—	—	5.5	6.0	5.4	6.4	20	22	19	24
F 51 3_105.1	105.1	4.8	5.3	4.8	5.3	4.8	5.3	4.6	5.6	19	21	19	24
F 51 3_129.9	129.9	4.3	4.8	4.3	4.8	4.3	4.8	4.1	5.1	18	21	18	23
F 51 3_165.6	165.6	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	18	20	17	22
F 51 3_202.4	202.4	3.5	4.0	3.5	4.0	3.5	4.0	3.3	4.3	18	20	17	22
F 51 3_216.9	216.9	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
F 51 3_239.8	239.8	3.4	3.9	3.4	3.9	3.4	3.9	3.2	4.2	—	—	—	—
F 51 3_262.1	262.1	3.4	3.8	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
F 51 3_285.9	285.9	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—
F 51 3_317.3	317.3	3.2	3.6	3.2	3.6	3.2	3.7	3.0	4.0	—	—	—	—
F 51 3_352.5	352.5	3.1	3.5	3.1	3.5	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_429.1	429.1	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_530.5	530.5	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_676.3	676.3	—	—	3.1	3.6	3.1	3.6	2.9	3.9	—	—	—	—
F 51 4_826.4	826.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_885.5	885.5	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_979.4	979.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1070	1070	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1168	1168	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1296	1296	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1439	1439	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—



F 60

	i	J (•10-4) [kgm2]										
			IEC									
			63	71	80	90	100	112	132	160	180	
F 60 3_9.0	9.0	40	—	—	—	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25	—	—	28	28	29	29	44	103	101	46
F 60 3_12.7	12.7	24	—	—	27	27	28	28	43	102	100	45
F 60 3_14.5	14.5	18	—	—	21	20	22	22	37	96	94	39
F 60 3_15.7	15.7	17	—	—	20	20	21	21	36	95	93	38
F 60 3_19.1	19.1	10	—	—	13	13	14	14	29	89	86	31
F 60 3_20.7	20.7	9.9	—	—	13	13	14	14	29	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10	10	11	11	26	86	83	28
F 60 3_25.4	25.4	7.1	—	—	9.9	9.9	11	11	26	85	83	28
F 60 3_29.6	29.6	15	—	—	—	—	—	—	34	93	91	36
F 60 3_32.1	32.1	15	—	—	—	—	—	—	34	93	91	36
F 60 3_38.8	38.8	11	—	—	14	13	15	15	30	89	87	32
F 60 3_42.1	42.1	11	—	—	13	13	15	15	29	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11	11	12	12	27	86	84	29
F 60 3_51.8	51.8	8.1	—	—	11	11	12	12	27	86	84	29
F 60 3_63.0	63.0	4.9	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_68.3	68.3	4.8	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_77.6	77.6	3.7	—	—	6.6	6.5	7.8	7.8	23	82	80	25
F 60 3_84.0	84.0	3.7	—	—	6.5	6.5	7.8	7.8	23	82	80	25
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	5.5	6.8	6.8	22	81	79	24
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	5.4	6.8	6.8	22	81	79	24
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	4.6	5.9	5.9	21	80	78	23
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	4.6	5.8	5.8	21	80	78	23
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_185.9	185.9	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_201.4	201.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_217.6	217.6	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_235.8	235.8	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_259.1	259.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22
F 60 3_280.7	280.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22

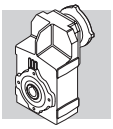
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F 60

	i	J (•10-4) [kgm2]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
F 60 3_9.0	9.0	40	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25	—	—	28	44	103	101	46
F 60 3_12.7	12.7	24	—	—	27	43	102	100	45
F 60 3_14.5	14.5	18	—	—	21	37	96	94	39
F 60 3_15.7	15.7	17	—	—	20	36	95	93	38
F 60 3_19.1	19.1	10	—	—	13	29	89	86	31
F 60 3_20.7	20.7	9.9	—	—	13	29	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10	26	86	83	28
F 60 3_25.4	25.4	7.1	—	—	9.9	26	85	83	28
F 60 3_29.6	29.6	15	—	—	—	34	93	91	36
F 60 3_32.1	32.1	15	—	—	—	34	93	91	36
F 60 3_38.8	38.8	11	—	—	14	30	89	87	32
F 60 3_42.1	42.1	11	—	—	13	29	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11	27	86	84	29
F 60 3_51.8	51.8	8.1	—	—	11	27	86	84	29
F 60 3_63.0	63.0	4.9	—	—	7.7	24	83	81	26
F 60 3_68.3	68.3	4.8	—	—	7.7	24	83	81	26
F 60 3_77.6	77.6	3.7	—	—	6.6	23	82	80	25
F 60 3_84.0	84.0	3.7	—	—	6.5	23	82	80	25
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	22	81	79	24
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	22	81	79	24
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	21	80	78	23
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	21	80	78	23
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	20	80	77	22
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	20	80	77	22
F 60 3_185.9	185.9	0.90	2.4	2.4	3.8	20	79	77	22
F 60 3_201.4	201.4	0.90	2.4	2.4	3.8	20	79	77	22
F 60 3_217.6	217.6	0.70	2.2	2.2	3.6	—	—	—	22
F 60 3_235.8	235.8	0.70	2.2	2.2	3.6	—	—	—	22
F 60 3_259.1	259.1	0.50	2.0	2.0	3.4	—	—	—	22
F 60 3_280.7	280.7	0.50	2.0	2.0	3.4	—	—	—	22

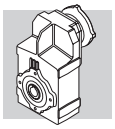
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F 60

	i	J (•10-4) [kgm2]									
		SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 60 3_9.0	9.0	—	—	—	—	—	—	57	59	59	64
F 60 3_9.7	9.7	—	—	—	—	—	—	55	57	57	62
F 60 3_11.8	11.8	—	—	28	29	28	29	42	44	44	49
F 60 3_12.7	12.7	—	—	27	28	27	28	41	43	43	48
F 60 3_14.5	14.5	—	—	21	22	20	21	35	37	37	42
F 60 3_15.7	15.7	—	—	20	21	20	21	34	36	36	41
F 60 3_19.1	19.1	—	—	13	14	13	14	27	29	29	34
F 60 3_20.7	20.7	—	—	13	14	13	14	27	29	29	34
F 60 3_23.5	23.5	—	—	10	11	10	11	24	27	26	31
F 60 3_25.4	25.4	—	—	9.9	10	9.9	11	24	27	26	31
F 60 3_29.6	29.6	—	—	—	—	—	—	32	34	34	39
F 60 3_32.1	32.1	—	—	—	—	—	—	32	34	34	39
F 60 3_38.8	38.8	—	—	14	15	13	14	28	30	30	35
F 60 3_42.1	42.1	—	—	13	14	13	14	28	30	29	34
F 60 3_47.8	47.8	—	—	11	12	11	12	25	28	27	32
F 60 3_51.8	51.8	—	—	11	12	11	12	25	28	27	32
F 60 3_63.0	63.0	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_68.3	68.3	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_77.6	77.6	—	—	6.6	7.1	6.5	7.5	21	23	23	28
F 60 3_84.0	84.0	—	—	6.5	7.0	6.5	7.5	21	23	23	28
F 60 3_98.2	98.2	—	—	5.6	6.1	5.5	6.5	20	22	22	27
F 60 3_106.4	106.4	5.5	6.0	5.5	6.0	5.4	6.4	20	22	22	27
F 60 3_120.5	120.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_130.5	130.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_150.4	150.4	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_162.9	162.9	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_185.9	185.9	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_201.4	201.4	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_217.6	217.6	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_235.8	235.8	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_259.1	259.1	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
F 60 3_280.7	280.7	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—

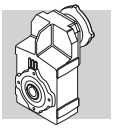
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F 70

	i	J (•10-4) [kgm2]									
			IEC 80	IEC 90	IEC 100	IEC 112	IEC 132	IEC 160	IEC 180	IEC 200	
F 70 3_10.0	10.0	—	—	—	—	—	—	169	167	176	133
F 70 3_10.9	10.9	—	—	—	—	—	—	166	163	173	129
F 70 3_12.8	12.8	—	—	—	—	—	—	139	137	146	102
F 70 3_13.9	13.9	—	—	—	—	—	—	137	135	144	100
F 70 3_16.3	16.3	39	—	—	—	—	58	117	115	124	80
F 70 3_17.7	17.7	37	—	—	—	—	56	116	113	123	79
F 70 3_20.9	20.9	26	—	—	—	—	45	105	102	—	68
F 70 3_22.6	22.6	26	—	—	—	—	44	104	102	—	67
F 70 3_24.6	24.6	21	—	—	—	—	40	99	97	—	62
F 70 3_27.7	27.7	—	—	—	—	—	—	128	126	135	73
F 70 3_30.0	30.0	—	—	—	—	—	—	127	125	134	73
F 70 3_35.4	35.4	—	—	—	—	—	—	114	112	121	77
F 70 3_38.4	38.4	—	—	—	—	—	—	114	111	121	77
F 70 3_45.2	45.2	23	—	—	—	—	42	101	99	108	65
F 70 3_49.0	49.0	23	—	—	—	—	42	101	99	108	65
F 70 3_57.7	57.7	17	—	—	—	—	36	95	93	—	58
F 70 3_62.5	62.5	17	—	—	—	—	36	95	93	—	58
F 70 3_67.9	67.9	14	—	—	—	—	33	92	90	—	55
F 70 3_73.6	73.6	14	—	—	—	—	33	92	90	—	55
F 70 3_85.4	85.4	9.0	11	11	13	13	28	87	85	—	50
F 70 3_92.5	92.5	9.0	11	11	13	13	28	87	85	—	50
F 70 3_101.2	101.2	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_109.6	109.6	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_122.7	122.7	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_133.0	133.0	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_153.8	153.8	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_166.7	166.7	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_180.9	180.9	2.3	5.1	5.1	6.3	6.3	21	81	78	—	43
F 70 3_196.0	196.0	2.3	5.1	5.0	6.3	6.3	21	81	78	—	43

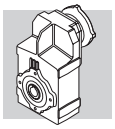
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



F 70

	i	J (•10-4) [kgm2]				
			 NEMA			
			N210TC	N250TC	N280TC	
F 70 3_10.0	10.0	—	—	169	167	133
F 70 3_10.9	10.9	—	—	166	163	129
F 70 3_12.8	12.8	—	—	139	137	102
F 70 3_13.9	13.9	—	—	137	135	100
F 70 3_16.3	16.3	39	58	117	115	80
F 70 3_17.7	17.7	37	56	116	113	79
F 70 3_20.9	20.9	26	45	105	102	68
F 70 3_22.6	22.6	26	44	104	102	67
F 70 3_24.6	24.6	21	40	99	97	62
F 70 3_27.7	27.7	—	—	128	126	73
F 70 3_30.0	30.0	—	—	127	125	73
F 70 3_35.4	35.4	—	—	114	112	77
F 70 3_38.4	38.4	—	—	114	111	77
F 70 3_45.2	45.2	23	42	101	99	65
F 70 3_49.0	49.0	23	42	101	99	65
F 70 3_57.7	57.7	17	36	95	93	58
F 70 3_62.5	62.5	17	36	95	93	58
F 70 3_67.9	67.9	14	33	92	90	55
F 70 3_73.6	73.6	14	33	92	90	55
F 70 3_85.4	85.4	9.0	28	87	85	50
F 70 3_92.5	92.5	9.0	28	87	85	50
F 70 3_101.2	101.2	6.3	25	85	82	47
F 70 3_109.6	109.6	6.3	25	85	82	47
F 70 3_122.7	122.7	5.1	24	83	81	46
F 70 3_133.0	133.0	5.1	24	83	81	46
F 70 3_153.8	153.8	3.2	22	81	79	44
F 70 3_166.7	166.7	3.2	22	81	79	44
F 70 3_180.9	180.9	2.3	21	81	78	43
F 70 3_196.0	196.0	2.3	21	81	78	43

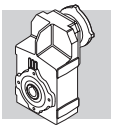
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



F 80

	i	J (•10-4) [kgm2]										
			IEC									
			80	90	100	112	132	160	180	200	225	
F 80 3_10.3	10.3	—	—	—	—	—	—	—	286	300	578	252
F 80 3_11.2	11.2	—	—	—	—	—	—	—	277	291	569	244
F 80 3_12.9	12.9	—	—	—	—	—	—	217	218	231	509	184
F 80 3_14.0	14.0	—	—	—	—	—	—	212	212	226	504	178
F 80 3_16.2	16.2	—	—	—	—	—	—	173	171	180	464	136
F 80 3_17.6	17.6	—	—	—	—	—	—	170	167	177	461	133
F 80 3_20.3	20.3	60	—	—	—	—	79	139	136	146	431	102
F 80 3_22.0	22.0	58	—	—	—	—	77	136	134	143	429	100
F 80 3_25.2	25.2	43	—	—	—	—	62	121	119	150	413	84
F 80 3_28.8	28.8	—	—	—	—	—	—	—	189	203	480	155
F 80 3_31.3	31.3	—	—	—	—	—	—	—	188	201	479	154
F 80 3_36.0	36.0	—	—	—	—	—	—	155	155	169	447	121
F 80 3_39.0	39.0	—	—	—	—	—	—	154	154	168	446	121
F 80 3_45.3	45.3	—	—	—	—	—	—	133	132	141	425	97
F 80 3_49.1	49.1	—	—	—	—	—	—	133	131	140	425	97
F 80 3_56.7	56.7	35	—	—	—	—	54	113	111	120	406	77
F 80 3_61.5	61.5	35	—	—	—	—	54	113	111	120	406	76
F 80 3_70.4	70.4	27	—	—	—	—	46	105	103	133	397	68
F 80 3_76.3	76.3	27	—	—	—	—	45	105	103	133	396	68
F 80 3_85.2	85.2	20	—	—	—	—	39	99	96	126	389	62
F 80 3_92.3	92.3	20	—	—	—	—	39	99	96	126	389	61
F 80 3_105.0	105.0	14	16	16	17	17	32	92	90	119	383	55
F 80 3_113.8	113.8	14	16	16	17	17	32	92	90	119	382	55
F 80 3_122.5	122.5	13	15	15	17	17	32	91	89	118	381	54
F 80 3_132.7	132.7	13	15	15	16	16	31	91	89	118	381	54
F 80 3_147.9	147.9	8.5	11	11	13	13	27	87	85	114	377	50
F 80 3_160.2	160.2	8.5	11	11	13	13	27	87	84	—	—	50
F 80 3_184.6	184.6	5.1	7.9	7.8	9.1	9.1	24	83	81	—	—	46
F 80 3_200.0	200.0	5.0	7.9	7.8	9.1	9.1	24	83	81	—	—	46

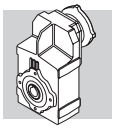
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F 80

	i	J (•10-4) [kgm2]					
			 NEMA				
			N210TC	N250TC	N280TC	N320TC	
F 80 3_10.3	10.3	—	—	—	286	578	252
F 80 3_11.2	11.2	—	—	—	277	569	244
F 80 3_12.9	12.9	—	—	217	218	509	184
F 80 3_14.0	14.0	—	—	212	212	504	178
F 80 3_16.2	16.2	—	—	173	171	464	136
F 80 3_17.6	17.6	—	—	170	167	461	133
F 80 3_20.3	20.3	60	79	139	136	431	102
F 80 3_22.0	22.0	58	77	136	134	429	100
F 80 3_25.2	25.2	43	62	121	119	413	84
F 80 3_28.8	28.8	—	—	—	189	480	155
F 80 3_31.3	31.3	—	—	—	188	479	154
F 80 3_36.0	36.0	—	—	155	155	447	121
F 80 3_39.0	39.0	—	—	154	154	446	121
F 80 3_45.3	45.3	—	—	133	132	425	97
F 80 3_49.1	49.1	—	—	133	131	425	97
F 80 3_56.7	56.7	35	54	113	111	406	77
F 80 3_61.5	61.5	35	54	113	111	406	76
F 80 3_70.4	70.4	27	46	105	103	397	68
F 80 3_76.3	76.3	27	45	105	103	396	68
F 80 3_85.2	85.2	20	39	99	96	389	62
F 80 3_92.3	92.3	20	39	99	96	389	61
F 80 3_105.0	105.0	14	32	92	90	383	55
F 80 3_113.8	113.8	14	32	92	90	382	55
F 80 3_122.5	122.5	13	32	91	89	381	54
F 80 3_132.7	132.7	13	31	91	89	381	54
F 80 3_147.9	147.9	8.5	27	87	85	377	50
F 80 3_160.2	160.2	8.5	27	87	84	—	50
F 80 3_184.6	184.6	5.1	24	83	81	—	46
F 80 3_200.0	200.0	5.0	24	83	81	—	46

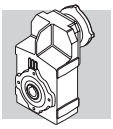
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



F 90

	i	J (•10-4) [kgm2]											
			IEC										
			80	90	100	112	132	160	180	200	225	250	
F 90 3_10.3	10.3	—	—	—	—	—	—	—	549	559	843	870	850
F 90 3_11.1	11.1	—	—	—	—	—	—	—	529	539	823	850	830
F 90 3_13.4	13.4	—	—	—	—	—	—	—	373	383	667	694	674
F 90 3_14.5	14.5	—	—	—	—	—	—	—	361	371	655	682	662
F 90 3_16.5	16.5	—	—	—	—	—	—	—	286	296	580	607	587
F 90 3_17.9	17.9	—	—	—	—	—	—	—	278	288	572	599	579
F 90 3_20.6	20.6	—	—	—	—	—	—	224	222	232	516	542	513
F 90 3_22.3	22.3	—	—	—	—	—	—	220	217	227	511	537	508
F 90 3_25.4	25.4	103	—	—	—	—	122	181	179	188	474	500	471
F 90 3_28.6	28.6	—	—	—	—	—	—	—	291	301	585	613	593
F 90 3_31.0	31.0	—	—	—	—	—	—	—	289	299	583	610	590
F 90 3_37.4	37.4	—	—	—	—	—	—	—	222	232	516	543	523
F 90 3_40.5	40.5	—	—	—	—	—	—	—	220	230	514	541	521
F 90 3_46.1	46.1	—	—	—	—	—	—	—	186	196	480	507	487
F 90 3_49.9	49.9	—	—	—	—	—	—	—	185	195	479	506	486
F 90 3_57.3	57.3	—	—	—	—	—	—	161	158	168	452	479	450
F 90 3_62.1	62.1	—	—	—	—	—	—	160	158	167	451	478	449
F 90 3_70.8	70.8	61	—	—	—	—	80	139	137	146	432	458	429
F 90 3_76.7	76.7	60	—	—	—	—	79	139	136	146	431	458	429
F 90 3_88.4	88.4	44	—	—	—	—	63	123	120	151	414	441	412
F 90 3_95.8	95.8	44	—	—	—	—	63	122	120	151	414	441	412
F 90 3_103.3	103.3	41	—	—	—	—	59	119	117	146	410	436	408
F 90 3_111.9	111.9	40	—	—	—	—	59	119	116	146	409	436	407
F 90 3_126.8	126.8	26	29	29	30	30	45	105	102	132	395	422	393
F 90 3_137.3	137.3	26	29	29	30	30	45	104	102	132	395	422	393
F 90 3_150.3	150.3	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_162.8	162.8	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_179.2	179.2	14	16	16	18	18	33	92	90	—	—	—	381
F 90 3_194.2	194.2	14	16	16	17	17	33	92	90	—	—	—	381

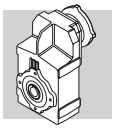
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F 90

	i	J (•10-4) [kgm2]					
			 NEMA				
			N210TC	N250TC	N280TC	N320TC	
F 90 3_10.3	10.3	—	—	—	549	843	850
F 90 3_11.1	11.1	—	—	—	529	823	830
F 90 3_13.4	13.4	—	—	—	373	667	674
F 90 3_14.5	14.5	—	—	—	361	655	662
F 90 3_16.5	16.5	—	—	—	286	580	587
F 90 3_17.9	17.9	—	—	—	278	572	579
F 90 3_20.6	20.6	—	—	224	222	516	513
F 90 3_22.3	22.3	—	—	220	217	511	508
F 90 3_25.4	25.4	103	122	181	179	474	471
F 90 3_28.6	28.6	—	—	—	291	585	593
F 90 3_31.0	31.0	—	—	—	289	583	590
F 90 3_37.4	37.4	—	—	—	222	516	523
F 90 3_40.5	40.5	—	—	—	220	514	521
F 90 3_46.1	46.1	—	—	—	186	480	487
F 90 3_49.9	49.9	—	—	—	185	479	486
F 90 3_57.3	57.3	—	—	161	158	452	450
F 90 3_62.1	62.1	—	—	160	158	451	449
F 90 3_70.8	70.8	61	80	139	137	432	429
F 90 3_76.7	76.7	60	79	139	136	431	429
F 90 3_88.4	88.4	44	63	123	120	414	412
F 90 3_95.8	95.8	44	63	122	120	414	412
F 90 3_103.3	103.3	41	59	119	117	410	408
F 90 3_111.9	111.9	40	59	119	116	409	407
F 90 3_126.8	126.8	26	45	105	102	395	393
F 90 3_137.3	137.3	26	45	104	102	395	393
F 90 3_150.3	150.3	21	40	100	97	390	388
F 90 3_162.8	162.8	21	40	100	97	390	388
F 90 3_179.2	179.2	14	33	92	90	—	381
F 90 3_194.2	194.2	14	33	92	90	—	381

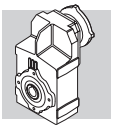
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



58 RELAÇÕES EXATAS

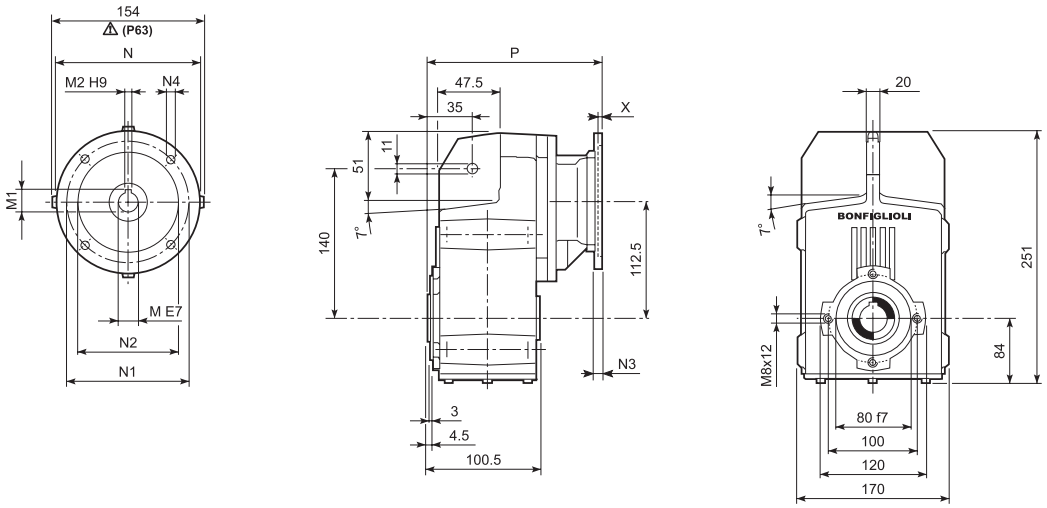
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6.3		6.41210								
7.1	7.40443		6.86957	6.94907	6.72727	7.19408				
8.0		7.83478	8.39375	8.22917						
9.0	8.58204	8.73227	9.35526	9.01630	9.13580	9.05114	8.96000			
10.0	9.76974	10.03069	10.62451	10.74747			9.70667	10.01538	10.33846	10.26577
11.2	11.53759	11.23370			10.77273	11.11005	11.75320	10.85000	11.20000	11.12125
12.5	13.02632		12.98182	12.72727		13.97796	12.73263	12.81731	12.90240	13.41346
14.0	14.64777	14.79842	14.46890	13.94466	14.62963		14.47385	13.88542	13.97760	14.53125
16.0	16.97738		16.62032	16.80000	17.11667		15.68000	16.34455	16.24615	16.52538
18.0		18.08182	18.61364	18.48804	18.89130	18.82155	19.06872	17.70660	17.60000	17.90250
20.0	19.32692	20.15311	21.81818	21.11230			20.65778	20.86538	20.33231	20.56731
22.4	22.82418	23.14973	23.75758	23.38636		23.79447	23.46381	22.60417	22.02667	22.28125
25.0	25.76923	25.92614	27.20455	27.27273	24.11579		25.41913	24.55695	25.22585	25.38622
28.0	29.63462	30.38961	30.03636	30.12121	30.11875	30.03828	29.61538	27.69231	28.84615	28.61169
31.5	32.98462	33.09091	32.18182	34.36364			32.08333	30.00000	31.25000	30.99600
35.5	35.34066	37.89205	36.41958	37.67273	38.18333	37.13636	38.84771	35.43956	36.00000	37.38462
40.0	39.64497	41.83636	40.72727	40.36364			42.08502	38.39286	39.00000	40.50000
45.0	44.66667	44.82468	45.56607	44.64336	47.92667		47.84024	45.19231	45.32967	46.05785
50.0	48.72727	50.72727	50.78571	47.54630	51.49270	48.89965	51.82692	48.95833	49.10714	49.89600
56.0	56.69231	56.72727	58.33718	52.09420	60.24646		63.02761	57.69231	56.73077	57.32308
63.0	62.99145	61.88430	65.33371	62.76111	66.49275	65.84416	68.27991	62.50000	61.45833	62.10000
71.0	71.12308	69.13636	76.58163	69.06725			77.55467	73.55769	70.38462	70.75385
80.0	81.31624	76.81818	83.38889	78.87092	84.88166	83.24111	84.01756	85.38462	76.25000	76.65000
90.0	91.48077	90.40909	95.48772	87.36632			98.19838	92.50000	92.30769	88.39385
100.0	106.02198	101.63636	105.42738	101.88492	106.01061	105.08407	106.38158	101.18343	105.00000	103.33491
112.2		114.34091	112.95791	112.52623			120.45488	109.61538	113.75000	111.94615
125.5	127.12821	132.19481	127.83242	128.37500	134.39596	129.91558	130.49279	122.72727	122.48521	126.77538
140.0		156.30469	142.95238	140.73704			150.35503	132.95455	132.69231	150.30533
160.0		172.57500	155.94805	166.77778	168.69010	165.62338	162.88462	166.66667	160.22727	162.83077
180.0		184.90179	174.22321	185.43056	180.73939	202.39481	185.89349	180.94406	184.61538	179.21958
200.0		209.25000	193.58135	202.28788	198.92028	216.85158	201.38462	196.02273	200.00000	194.15455
225.0		234.00000	227.83036	228.22222	220.13131	239.84416	217.64679	216.52422	218.49174	213.59178
250.0		255.27273	256.12302	253.58025	240.14325	262.11039	259.08284	234.56790	273.89277	231.39109
280.0		285.18750	288.13839	293.83611	266.93818	285.93861	280.67308	280.93645	296.71717	268.72770
315.0		316.87500	333.13010	332.82407	296.59798	317.26753	315.38899	304.34783	353.67893	291.12168
355.0		372.93750		374.42708	344.79515	352.51948	341.67140	372.46964	383.15217	361.84615
400.0		419.25000	393.88686	418.86023		429.09330	399.34008	403.50877	451.49061	392.00000
450.0		471.65625	434.88795	462.60785	433.67975		432.61842	471.15385	489.11483	457.45099
500.0			465.95137	527.76389			489.84985	510.41667	563.87675	495.57191
560.0		545.30357	527.30872	578.58560	549.80165	530.48864	530.67067	606.83761	610.86648	577.48888
630.0			589.67857	619.91314	690.09587	676.29545	611.44379	657.40741	714.86014	625.61296
710.0			643.28571	685.64198	739.38843	826.44545	755.96686	758.97436	774.43182	713.95030
800.0			718.67076	762.32562	813.76478	885.47727	818.96410	822.22222	897.27273	773.44615
900.0			798.52307	831.62795	900.53719	979.36364	885.09695	899.40828	972.04545	910.18225
1000.0			939.80022	938.24691	982.40421	1070.28409	958.85503	974.35897	1058.06885	986.03077
1125.0			1056.50744	1042.49657	1092.01983	1167.58264	1053.60355	1090.90909	1146.24126	1112.25941
1250.0			1188.57087	1207.99290	1213.35537	1295.50909	1141.40385	1181.81818	1277.33630	1204.94769
1400.0			1374.16167	1368.27675	1410.52562	1439.45455		1367.52137	1383.78099	1427.90059
1600.0				1539.31134				1584.61538	1577.62238	1571.37386
1800.0								1716.66667	1709.09091	1702.32168
2000.0								2019.23077	1833.98601	1937.26864
2250.0								2187.50000	1986.81818	2098.70769

2x 3x 4x



59 DIMENSÕES

F 10...P(IEC)

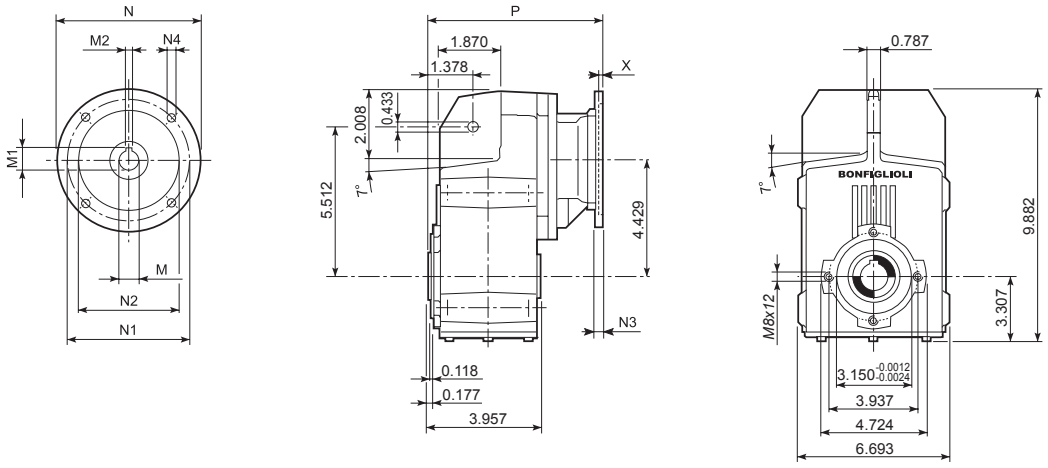


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 10 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	205	9
F 10 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	205	9
F 10 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	215	13
F 10 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	215	13

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 10...N(NEMA Input)

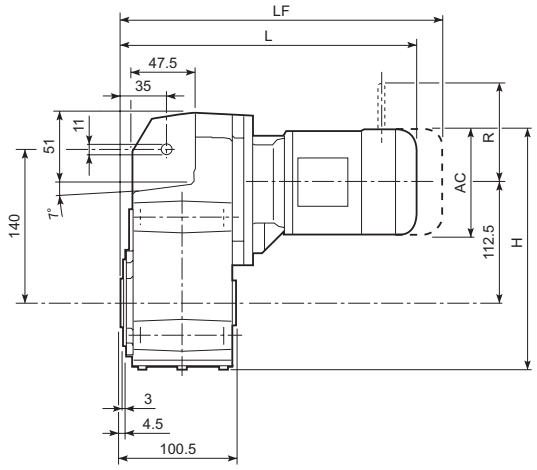


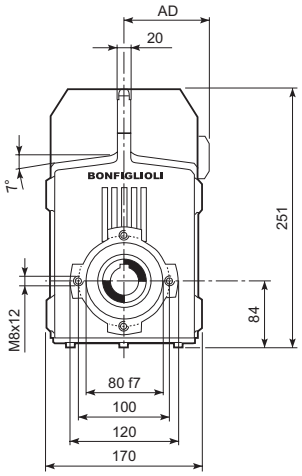
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 10 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.091	18
F 10 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.091	20
F 10 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	8.917	29

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 10...M/ME

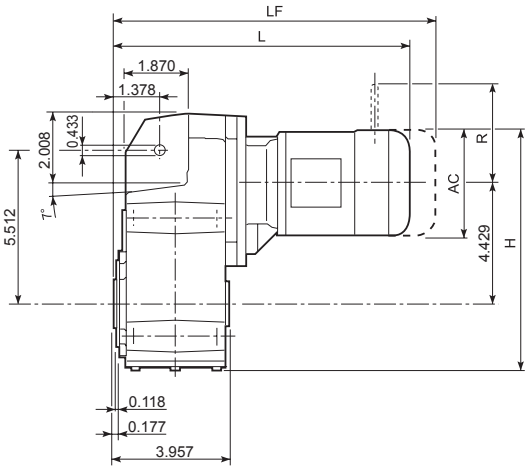


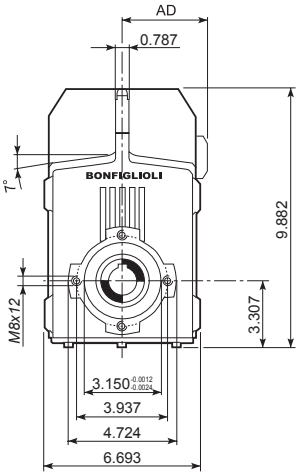


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 10 2	**S05**	**M05**	121	220.5	311.5	95	12	377.5	13	96	122	116	95
F 10 2	**S1**	**M1**	138	265.5	340.5	108	14	401.5	17	103	135	124	108
F 10 2	**S2**	**ME2S**	156	274.5	369.5	119	18	—	—	—	—	—	—
F 10 2	**S3**	**ME3S**	195	294	412.5	142	22	—	—	—	—	—	—
F 10 2	**S3**	**ME3L**	195	294	444.5	142	24	—	—	—	—	—	—

F 10...M/ME

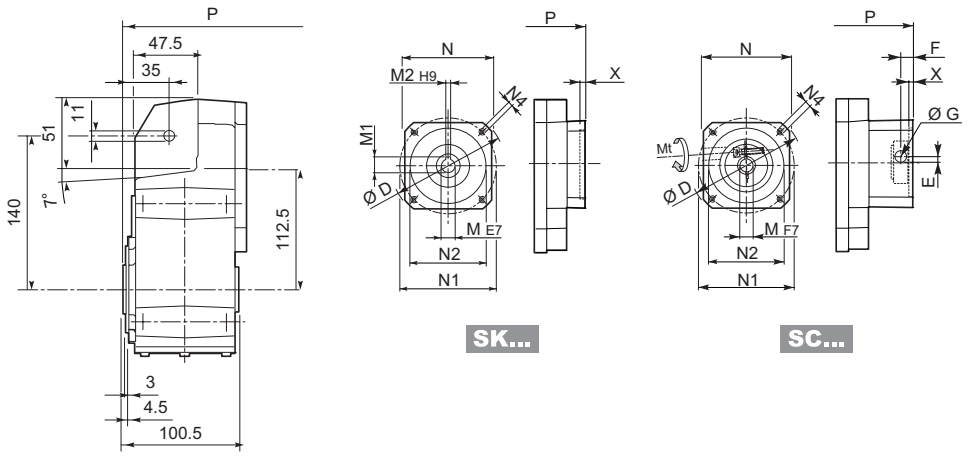




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 10 2	**S05**	**M05**	4.764	8.681	12.264	3.740	26	14.862	29	3.780	4.803	4.567	3.740
F 10 2	**S1**	**M1**	5.433	10.453	13.406	4.252	31	15.807	37	4.055	5.315	4.882	4.252
F 10 2	**S2**	**ME2S**	6.142	10.807	14.547	4.685	40	—	—	—	—	—	—
F 10 2	**S3**	**ME3S**	7.677	11.575	16.240	5.591	49	—	—	—	—	—	—
F 10 2	**S3**	**ME3L**	7.677	11.575	17.500	5.591	53	—	—	—	—	—	—

F 10...SK / SC

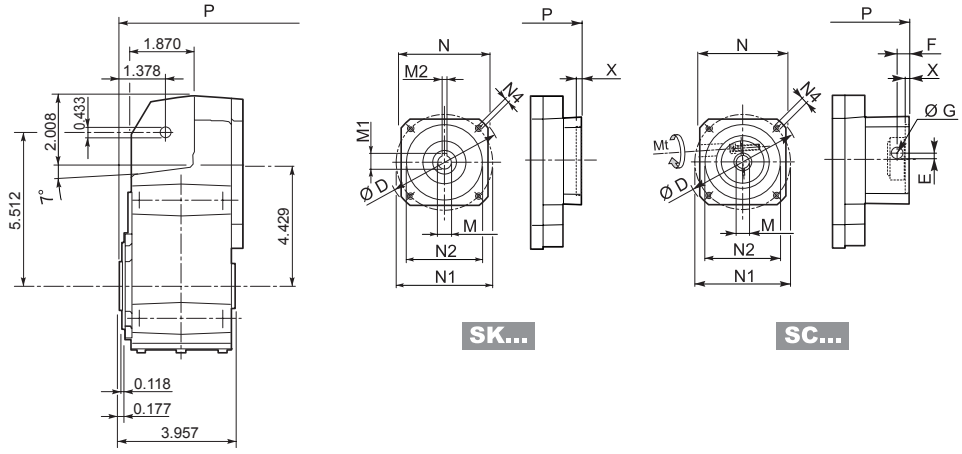


Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
F 10 2	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	205	9
F 10 2	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	205	9
F 10 2	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	205	9
F 10 2	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	205	9
F 10 2	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	205	9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
F 10 2	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	184	8
F 10 2	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	184	9
F 10 2	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	184	9
F 10 2	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	228.5	10
F 10 2	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	228.5	10
F 10 2	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	228.5	11
F 10 2	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	228.5	11

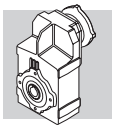
F 10...SK / SC



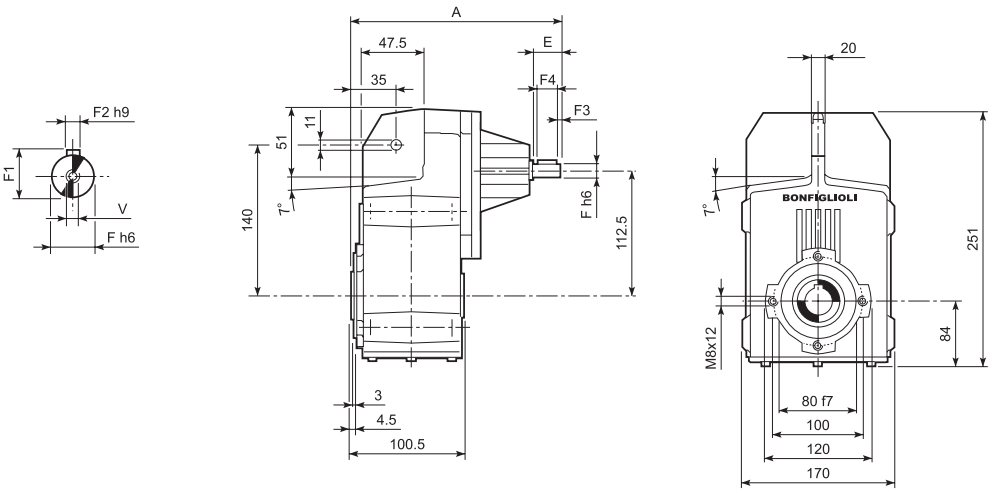
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
F 10 2	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	6.181	18
F 10 2	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	6.457	18
F 10 2	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	6.457	18
F 10 2	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	8.071	20
F 10 2	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.071	20
F 10 2	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.071	20
F 10 2	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.071	20
F 10 2	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.071	20
F 10 2	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.071	20

		Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
F 10 2	**SC 60A**	*M6* 133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.244	18
F 10 2	**SC 60B**	*M6* 133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.244	20
F 10 2	**SC 80A**	*M6* 133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	7.244	20
F 10 2	**SC 80C**	*M6* 133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	8.996	22
F 10 2	**SC 95A**	*M6* 133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	8.996	22
F 10 2	**SC 95B**	*M6* 133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	8.996	22
F 10 2	**SC 95C**	*M6* 133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	8.996	22
F 10 2	**SC 110A**	*M6* 133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	8.996	24
F 10 2	**SC 110B**	*M6* 133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	8.996	24



F 10...HS

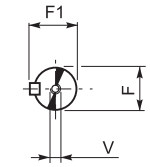


Dimensões em mm

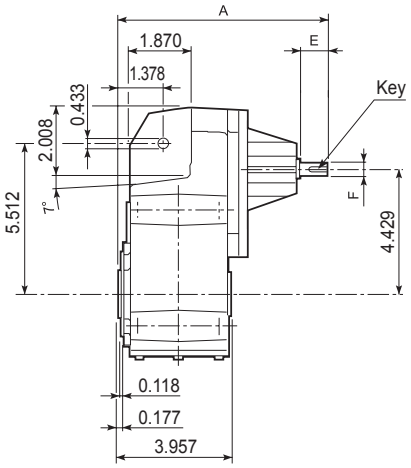
		A	E	F	F1	F2	F3	F4	V	Kg
F 10 2	**HS**	192	40	16	18	5	2.5	35	M6x16	7.5

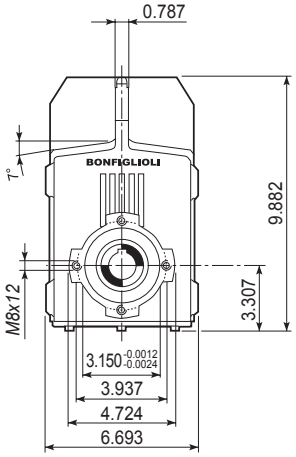
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 10...NHS



INPUT
(Inch Series)

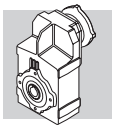




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

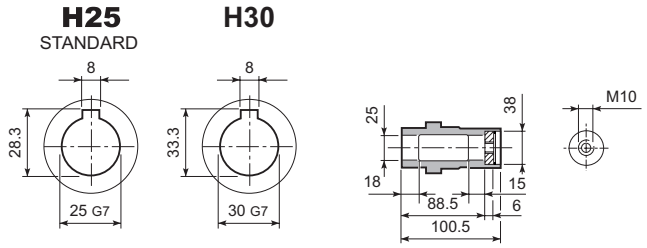
		A	E	F	F1	V	Key	lbs
F 10 2	**NHS**	7.559	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

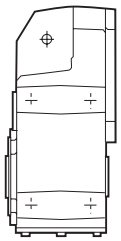
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



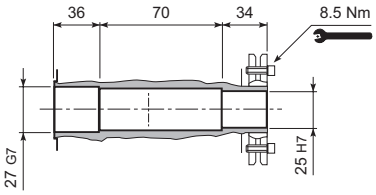
F 10

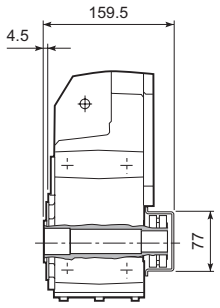
F 10...H



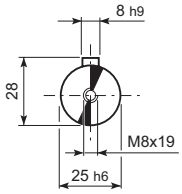


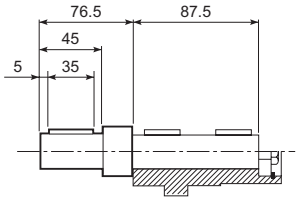
F 10...S

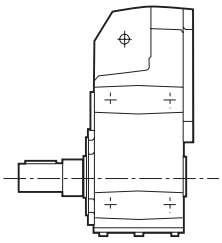




F 10...R

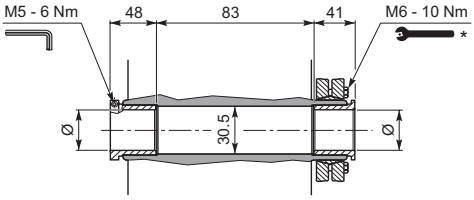


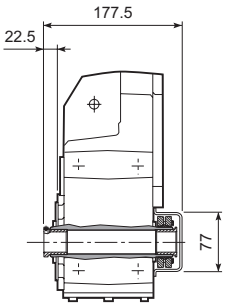




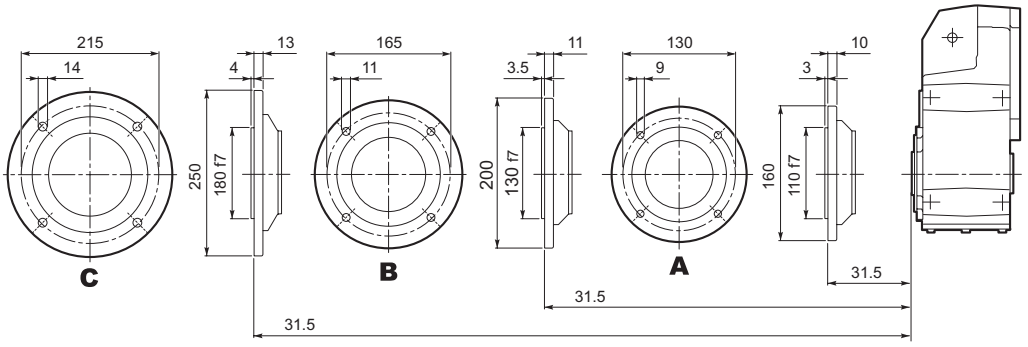
F 10...QF

	Ø
QF25	25
QF30	30





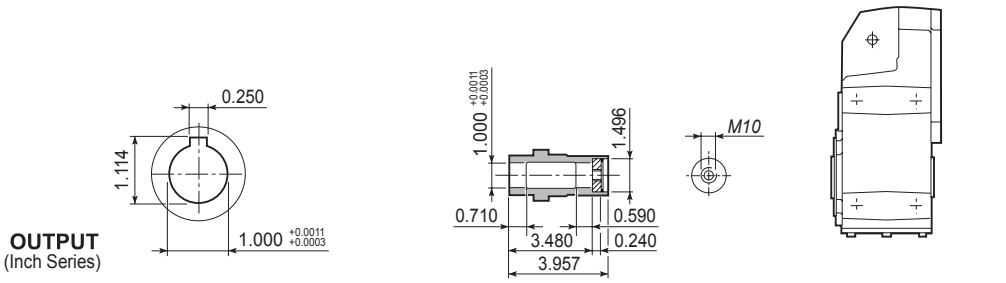
F 10...F...



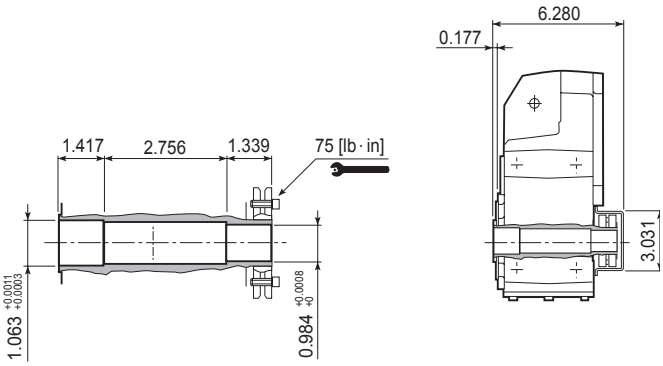
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 10

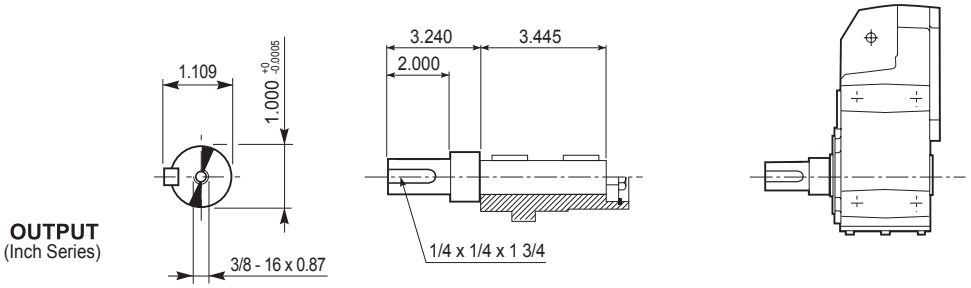
F 10...NH



F 10...S

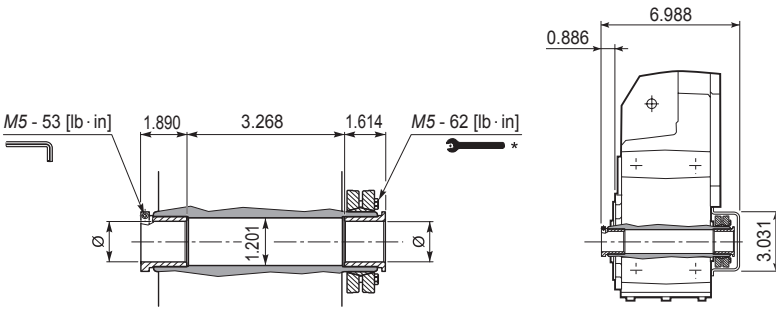


F 10...NR

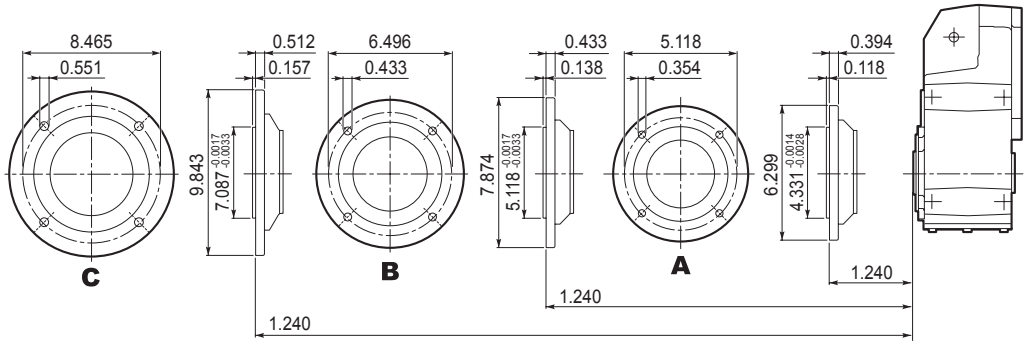


F 10...NQF

	Ø
NQF1	1.000
NQF1-3/16	1.188

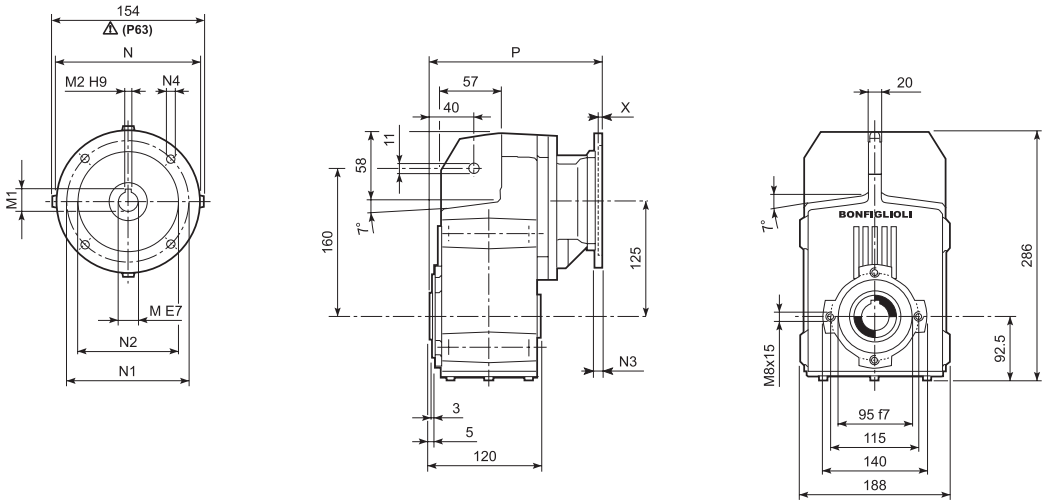


F 10...F...



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 20...P(IEC)

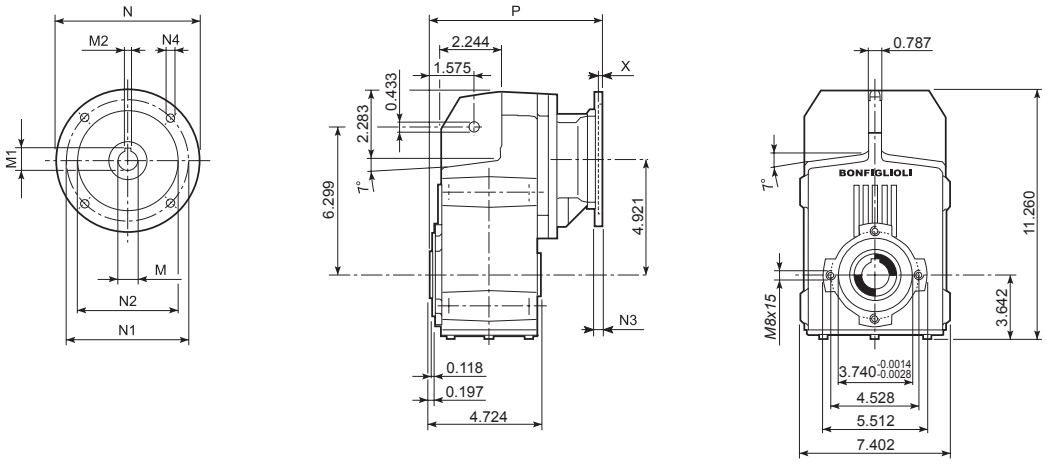


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 20 2	**P63**	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	**P80**	19	21.8	6	200	165	130	—	M10x12	4	217	13
F 20 2	**P90**	24	27.3	8	200	165	130	—	M10x12	4	217	12
F 20 2	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 2	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	253	13
F 20 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	253	13
F 20 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	272.5	14
F 20 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	272.5	14
F 20 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18
F 20 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 20...N(NEMA Input)

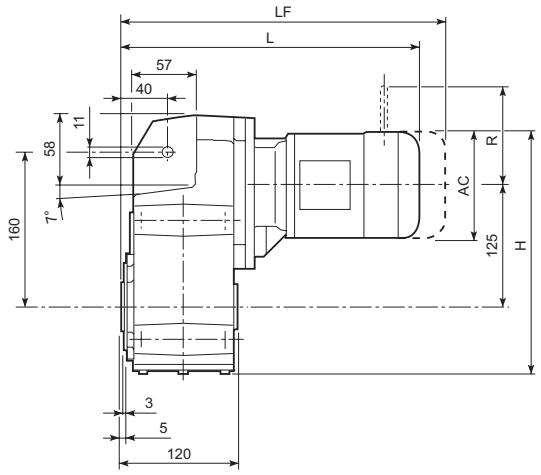


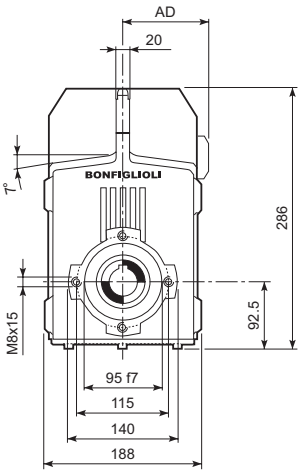
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 20 2	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.563	26
F 20 2	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	8.563	29
F 20 2	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	9.390	35
F 20 3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	10.748	29
F 20 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	10.748	31
F 20 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	11.575	40

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 20...M/ME

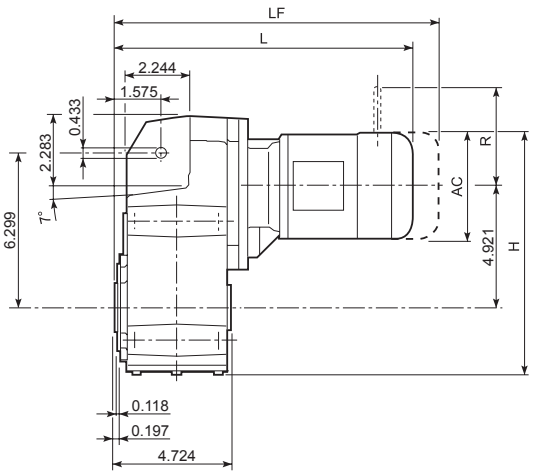


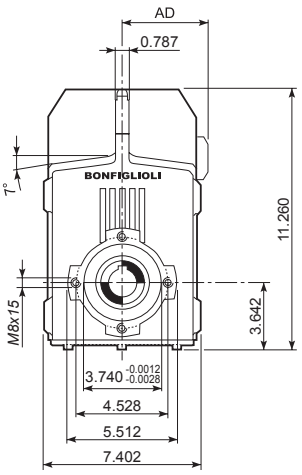


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 20 2	**S05**	**M05**	121	278.2	323.5	95	15	389.5	17	96	122	116	95
F 20 2	**S1**	**M1**	138	286.7	352.5	108	17	413.5	20	103	135	124	108
F 20 2	**S2**	**ME2S**	156	295.7	381.5	119	21	—	—	—	—	—	—
F 20 2	**S3**	**ME3S**	195	315.2	424.5	142	26	—	—	—	—	—	—
F 20 2	**S3**	**ME3L**	195	315.2	456.5	142	33	—	—	—	—	—	—
F 20 3	**S05**	**M05**	121	278.2	379	95	17	445	18	96	122	116	95
F 20 3	**S1**	**M1**	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	**S2**	**ME2S**	156	295.7	437	119	22	—	—	—	—	—	—
F 20 3	**S3**	**ME3S**	195	315.2	480	142	27	—	—	—	—	—	—
F 20 3	**S3**	**ME3L**	195	315.2	512	142	34	—	—	—	—	—	—

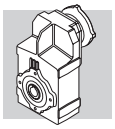
F 20...M/ME



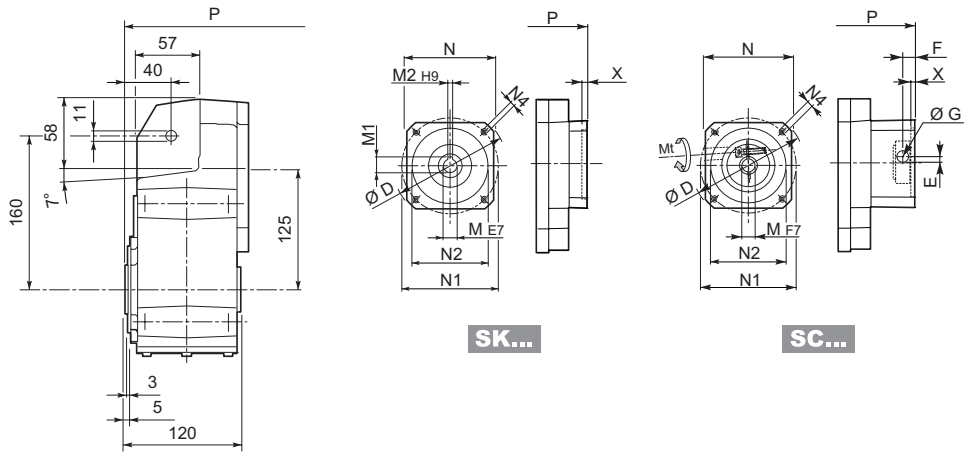


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 20 2	**S05**	**M05**	4.764	10.953	12.736	3.740	33	15.335	37	3.780	4.803	4.567	3.740
F 20 2	**S1**	**M1**	5.433	11.287	13.878	4.252	37	16.280	44	4.055	5.315	4.882	4.252
F 20 2	**S2**	**ME2S**	6.142	11.642	15.020	4.685	46	—	—	—	—	—	—
F 20 2	**S3**	**ME3S**	7.677	12.409	16.713	5.591	57	—	—	—	—	—	—
F 20 2	**S3**	**ME3L**	7.677	12.409	17.972	5.591	73	—	—	—	—	—	—
F 20 3	**S05**	**M05**	4.764	10.953	14.921	3.740	37	17.520	40	3.780	4.803	4.567	3.740
F 20 3	**S1**	**M1**	5.433	11.287	16.063	4.252	42	18.465	46	4.055	5.315	4.882	4.252
F 20 3	**S2**	**ME2S**	6.142	11.642	17.205	4.685	49	—	—	—	—	—	—
F 20 3	**S3**	**ME3S**	7.677	12.409	18.898	5.591	60	—	—	—	—	—	—
F 20 3	**S3**	**ME3L**	7.677	12.409	20.157	5.591	75	—	—	—	—	—	—



F 20...SK / SC

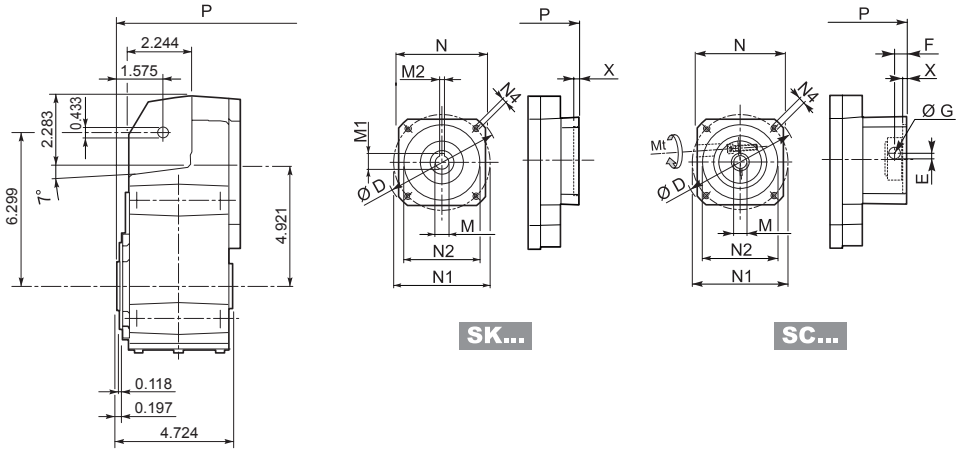


Dimensões em mm

											2x		3x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
F 20 2/3	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
F 20 2/3	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
F 20 2/3	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
F 20 2/3	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	217	13	272.5	14
F 20 2/3	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	217	13	272.5	14

														2x		3x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 20 2/3	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	196	12	251.5	13
F 20 2/3	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	196	13	251.5	14
F 20 2/3	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	196	13	251.5	14
F 20 2/3	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	240.5	14	296	15
F 20 2/3	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	240.5	15	296	16
F 20 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	240.5	15	296	16

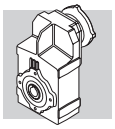
F 20...SK / SC



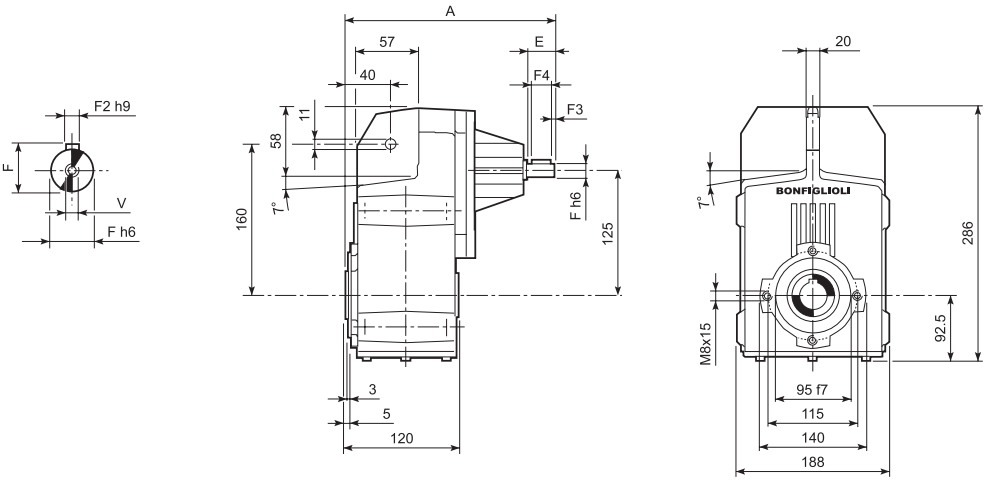
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

											2x		3x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 20 2/3	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	6.654	24	8.839	26
F 20 2/3	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	6.929	26	9.114	29
F 20 2/3	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	8.543	26	9.114	29
F 20 2/3	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	8.543	29	10.728	31
F 20 2/3	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.543	29	10.728	31
F 20 2/3	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	8.543	29	10.728	31

														2x		3x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 20 2/3	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.717	26	9.902	29
F 20 2/3	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	7.717	29	9.902	31
F 20 2/3	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	7.717	29	9.902	31
F 20 2/3	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	9.469	31	11.654	33
F 20 2/3	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	9.469	33	11.654	35
F 20 2/3	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	9.469	33	11.654	35



F 20...HS

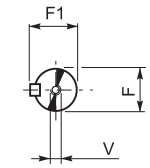


Dimensões em mm

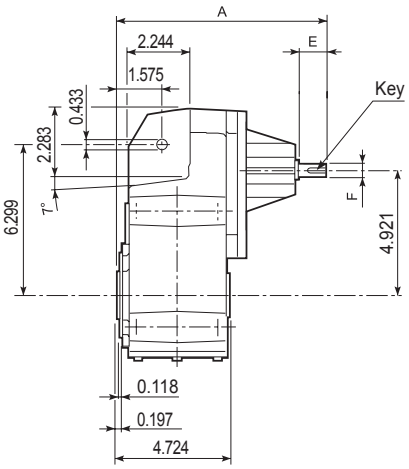
		A	E	F	F1	F2	F3	F4	V	kg
F 20 2	**HS**	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
F 20 3		260	40	16	18	5	2.5	35	M6x16	12.4

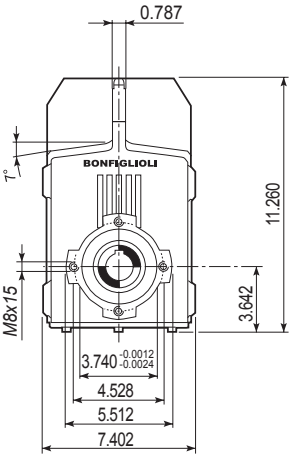
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 20...NHS



INPUT
(Inch Series)

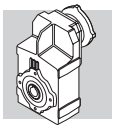




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

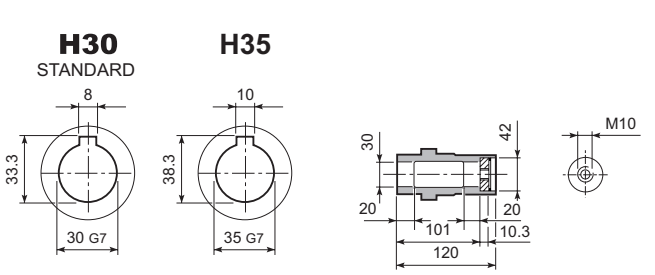
		A	E	F	F1	V	Key	lbs
F 20 2	**NHS**	9.744	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
F 20 3		10.236	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	27

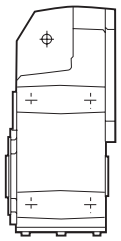
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



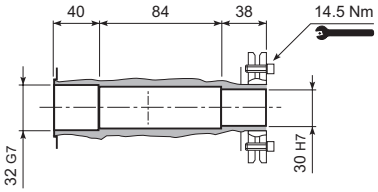
F 20

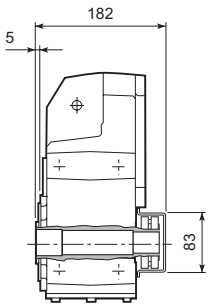
F 20...H



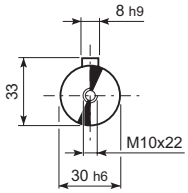


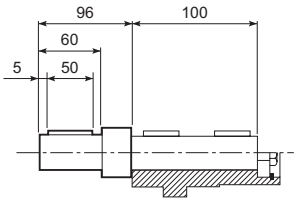
F 20...S

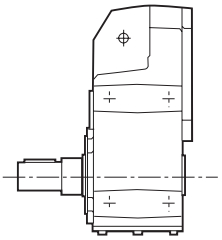




F 20...R

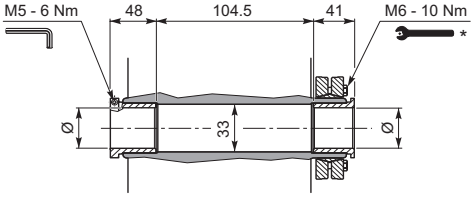


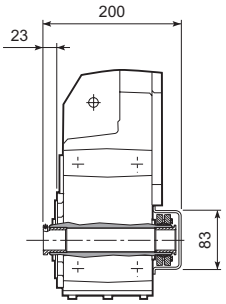




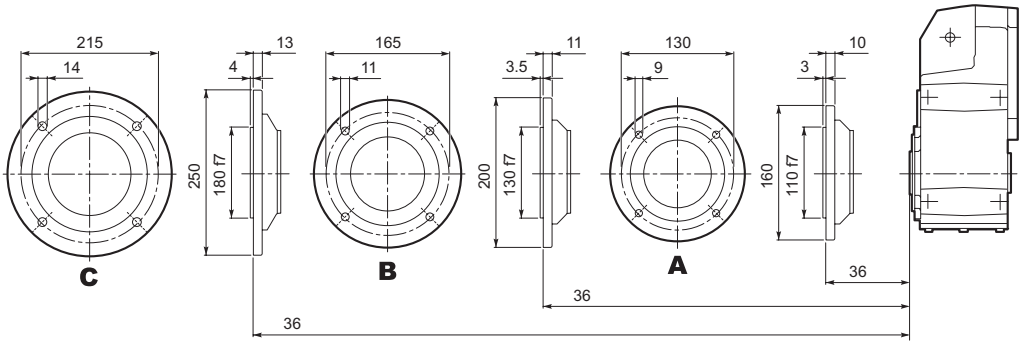
F 20...QF

	Ø
QF25	25
QF30	30

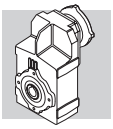




F 20...F...

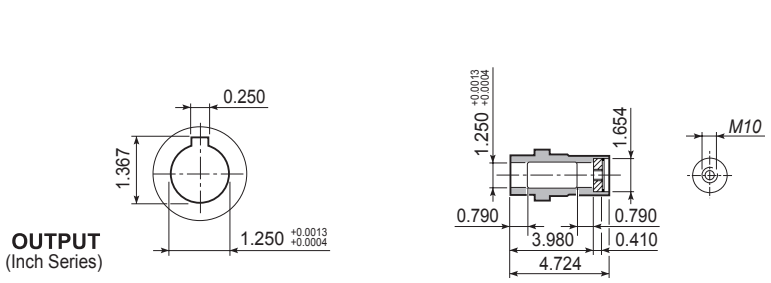


* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

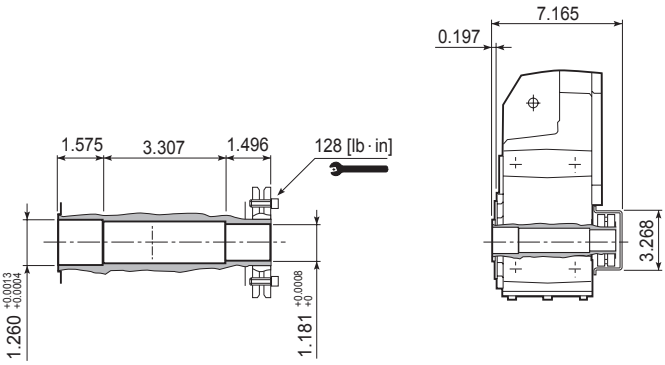


F 20

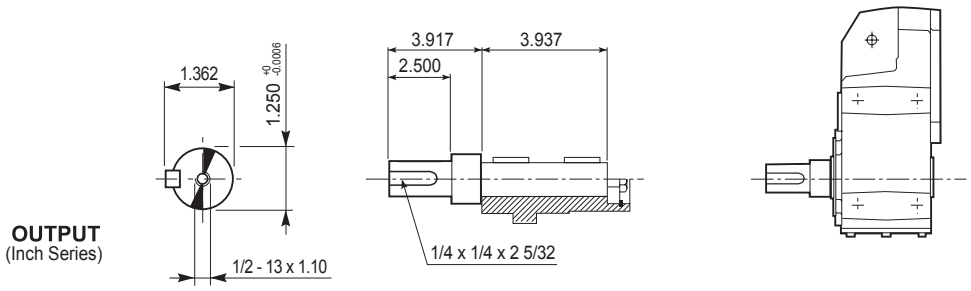
F 20...NH



F 20...S

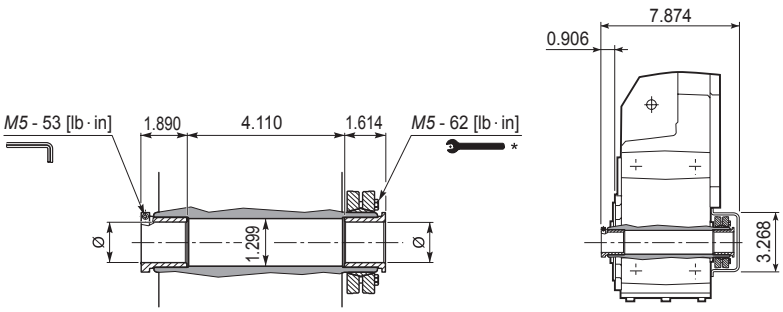


F 20...NR

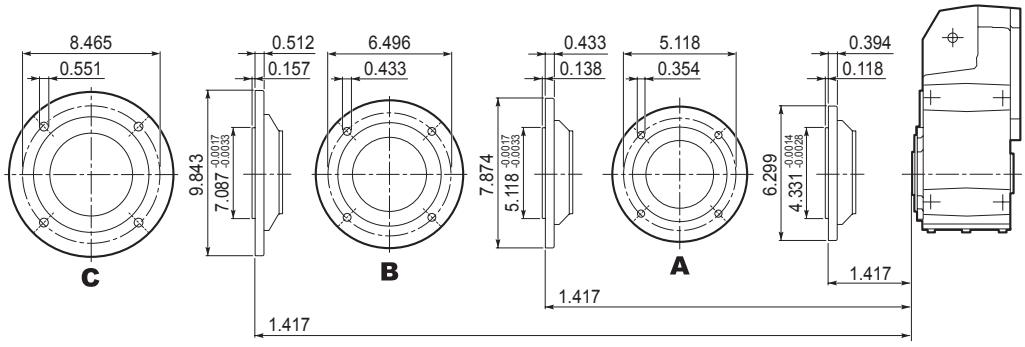


F 20...NQF

	Ø
NQF1	1.000
NQF1-3/16	1.188

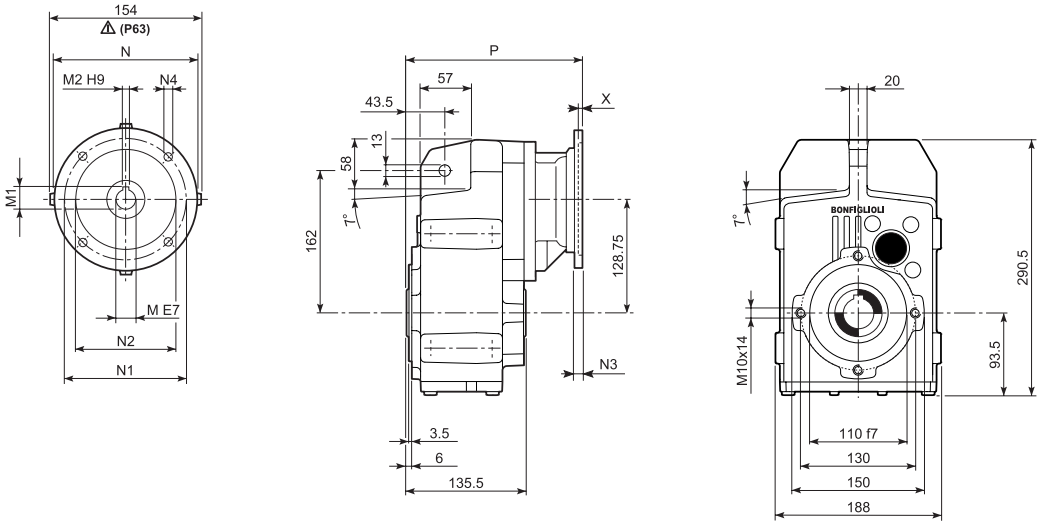


F 20...F...



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 25...P(IEC)

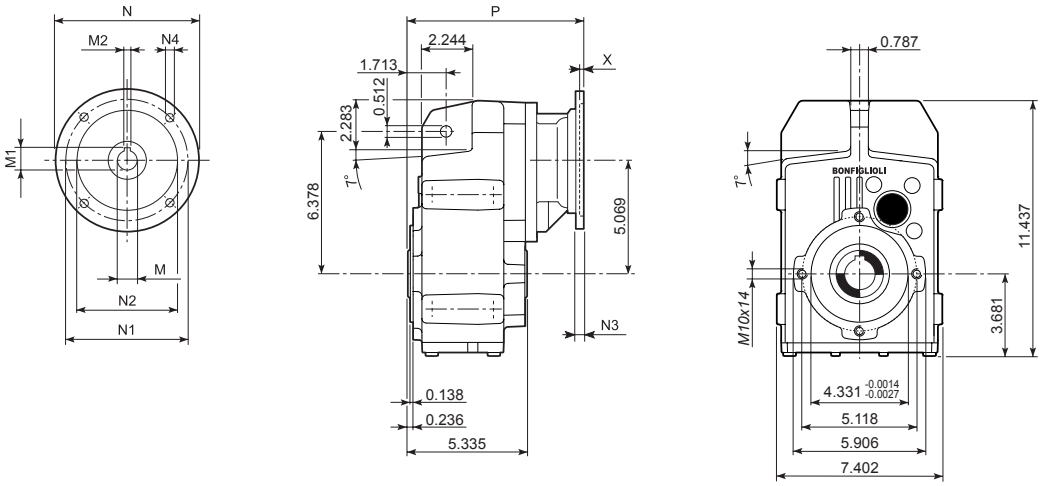


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 25 2/3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	213	12
F 25 2/3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	213	12
F 25 2/3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	232.5	13
F 25 2/3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	232.5	13
F 25 2/3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 2/3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	268.5	13
F 25 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	268.5	13
F 25 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	288	14
F 25 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	288	14
F 25 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	298	18
F 25 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	298	18

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 25...N(NEMA Input)

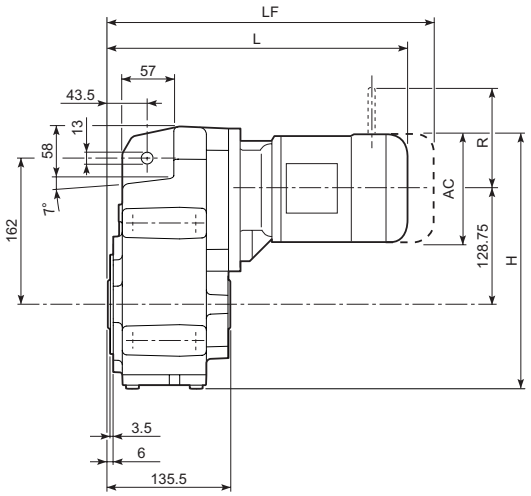


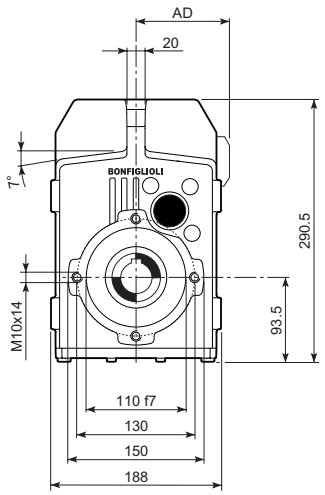
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 25 2/3	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	9.173	26
F 25 2/3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	9.173	29
F 25 2/3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	10.000	35
F 25 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.358	29
F 25 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.358	31
F 25 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	12.185	40

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 25...M/ME

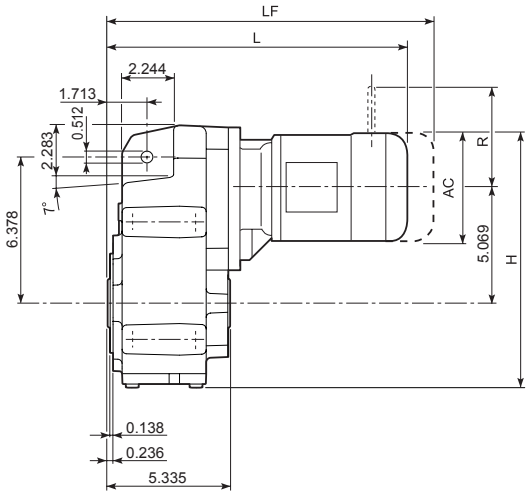


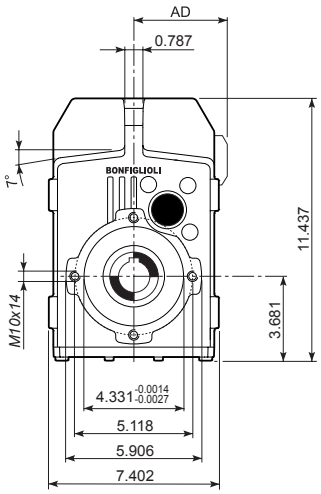


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 25 2/3	**S05**	**M05**	121	283	339	95	15	405	17	96	122	116	95
F 25 2/3	**S1**	**M1**	138	291.5	368	108	17	429	20	103	135	124	108
F 25 2/3	**S2**	**ME2S**	156	300.5	397	119	21	—	—	—	—	—	—
F 25 2/3	**S3**	**ME3S**	195	320	440	142	26	—	—	—	—	—	—
F 25 2/3	**S3**	**ME3L**	195	320	472	142	33	—	—	—	—	—	—
F 25 4	**S05**	**M05**	121	283	394.5	95	17	460.5	18	96	122	116	95
F 25 4	**S1**	**M1**	138	291.5	423.5	108	19	484.5	21	103	135	124	108
F 25 4	**S2**	**ME2S**	156	300.5	452.5	119	22	—	—	—	—	—	—
F 25 4	**S3**	**ME3S**	195	320	495.5	142	27	—	—	—	—	—	—
F 25 4	**S3**	**ME3L**	195	320	527.5	142	34	—	—	—	—	—	—

F 25...M/ME

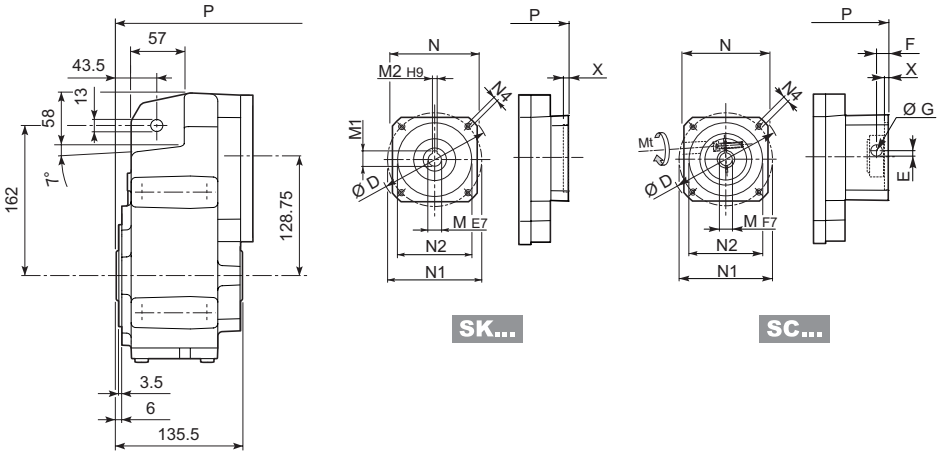




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 25 2/3	**S05**	**M05**	4.764	11.142	13.346	3.740	33	15.945	37	3.780	4.803	4.567	3.740
F 25 2/3	**S1**	**M1**	5.433	11.476	14.488	4.252	37	16.890	44	4.055	5.315	4.882	4.252
F 25 2/3	**S2**	**ME2S**	6.142	11.831	15.630	4.685	46	—	—	—	—	—	—
F 25 2/3	**S3**	**ME3S**	7.677	12.598	17.323	5.591	57	—	—	—	—	—	—
F 25 2/3	**S3**	**ME3L**	7.677	12.598	18.583	5.591	73	—	—	—	—	—	—
F 25 4	**S05**	**M05**	4.764	11.142	15.531	3.740	37	18.130	40	3.780	4.803	4.567	3.740
F 25 4	**S1**	**M1**	5.433	11.476	16.673	4.252	42	19.075	46	4.055	5.315	4.882	4.252
F 25 4	**S2**	**ME2S**	6.142	11.831	17.815	4.685	49	—	—	—	—	—	—
F 25 4	**S3**	**ME3S**	7.677	12.598	19.508	5.591	60	—	—	—	—	—	—
F 25 4	**S3**	**ME3L**	7.677	12.598	20.768	5.591	75	—	—	—	—	—	—

F 25...SK / SC

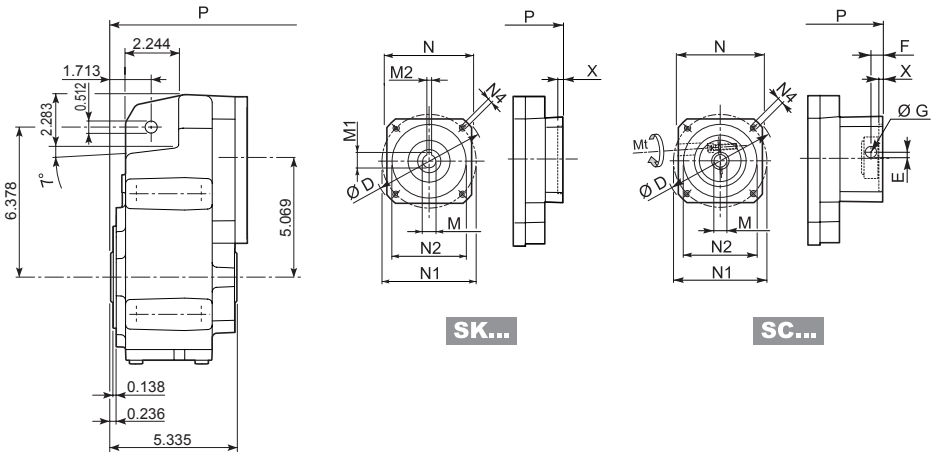


Dimensões em mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
F 25 2/3/4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
F 25 2/3/4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
F 25 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	288	14
F 25 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	232.5	13	288	14
F 25 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	232.5	13	288	14

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 25 2/3/4	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	211.5	12	267	13
F 25 2/3/4	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	211.5	13	267	14
F 25 2/3/4	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	211.5	13	267	14
F 25 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	256	14	311.5	15
F 25 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	256	15	311.5	16
F 25 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	256	15	311.5	16

F 25...SK / SC

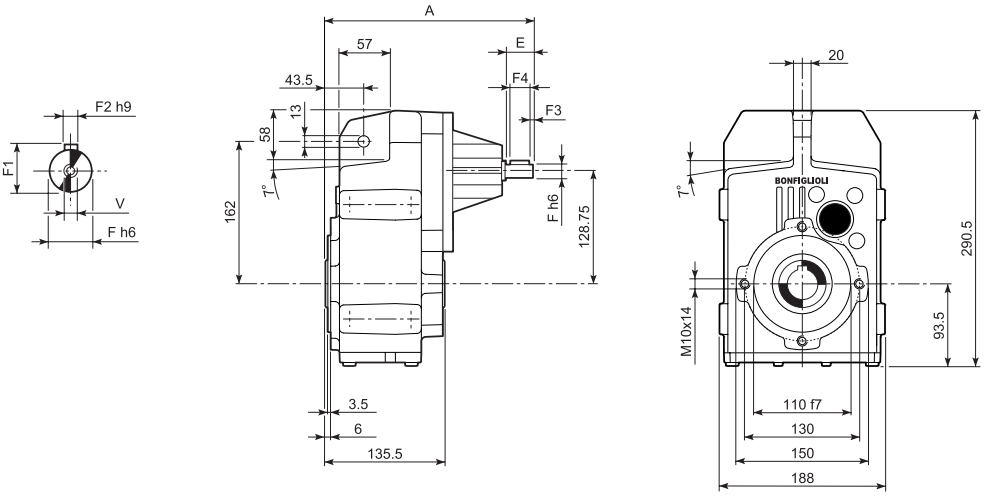


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 25 2/3/4	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	7.264	24	9.449	26
F 25 2/3/4	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	7.539	26	9.724	29
F 25 2/3/4	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	7.539	26	9.724	29
F 25 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.154	29	11.339	31
F 25 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.154	29	11.339	31
F 25 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.154	29	11.339	31

														2/3x		4x	
			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 25 2/3/4	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.327	26	10.512	29
F 25 2/3/4	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.327	29	10.512	31
F 25 2/3/4	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	8.327	29	10.512	31
F 25 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.079	31	12.264	33
F 25 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.079	33	12.264	35
F 25 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.079	33	12.264	35

F 25...HS

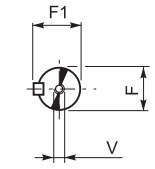


Dimensões em mm

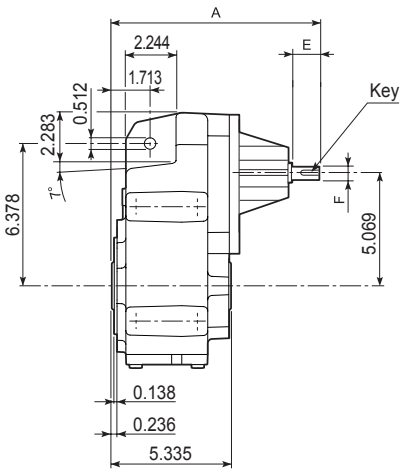
		A	E	F	F1	F2	F3	F4	V	Kg
F 25 2	**HS**	263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 3		263	40	19	21.5	6	2.5	35	M6x16	11.5
F 25 4		275.5	40	16	18	5	2.5	35	M6x16	12.5

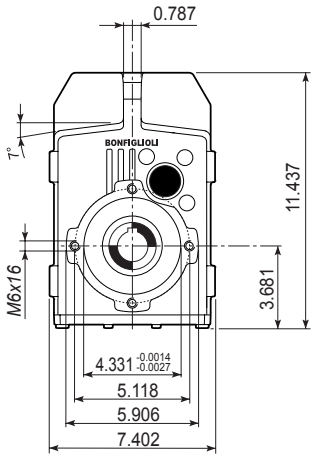
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 25...NHS



INPUT
(Inch Series)





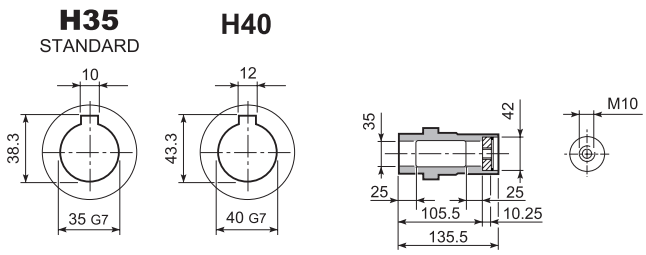
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	E	F	F1	V	Key	lbs
F 25 2	**NHS**	10.354	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
F 25 3		10.354	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
F 25 4		10.846	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	28

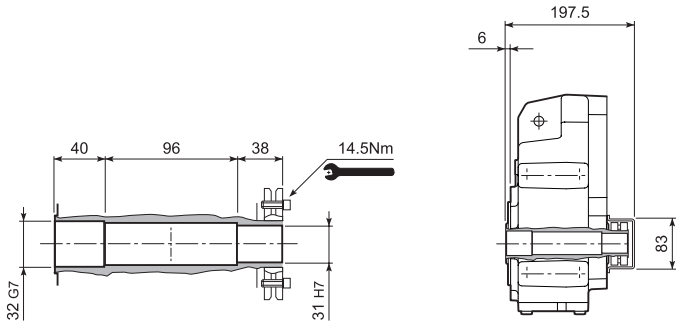
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

F 25

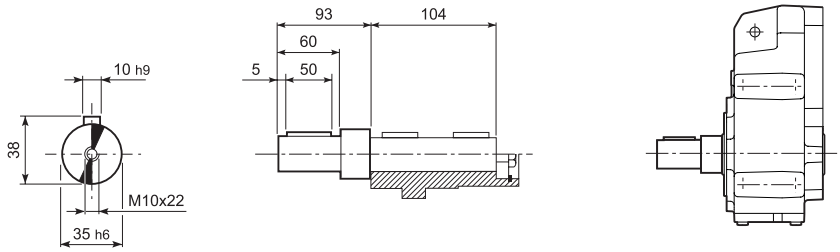
F 25...H



F 25...S



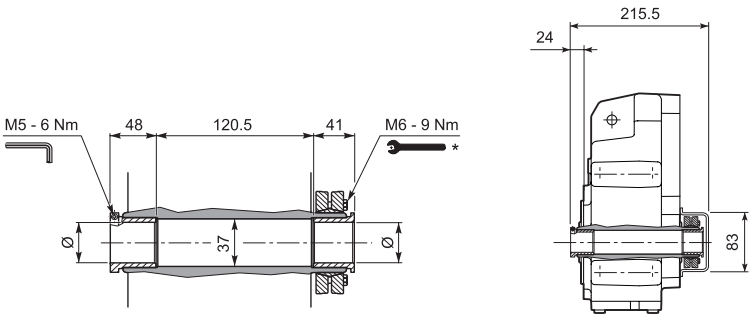
F 25...R



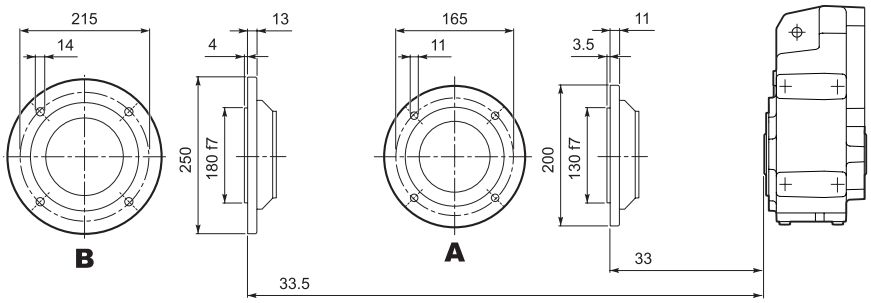
F 25...QF

	Ø
QF30	30
QF32	32

$M_{n2\ max}$ [Nm]	
F 25 QF30	350



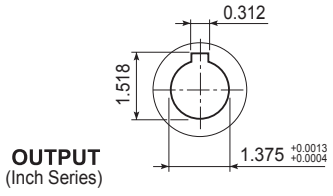
F 25...F...



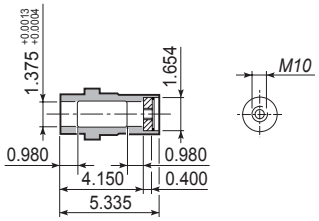
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

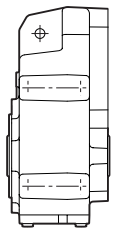
F 25

F 25...NH

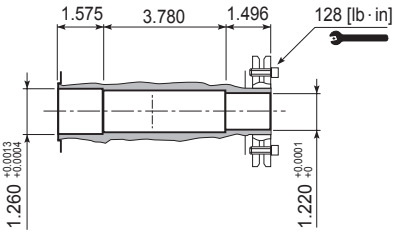


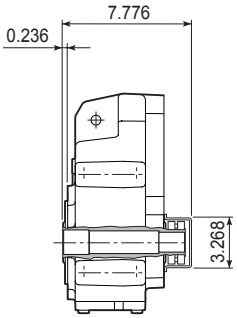
OUTPUT
(Inch Series)



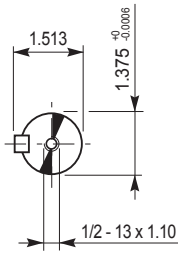


F 25...S

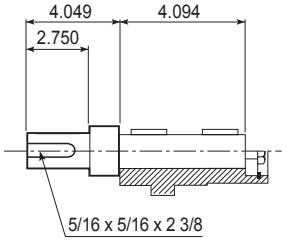


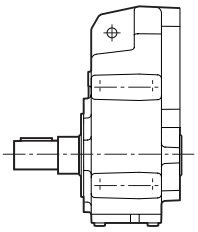


F 25...NR



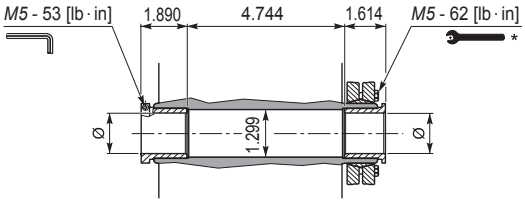
OUTPUT
(Inch Series)

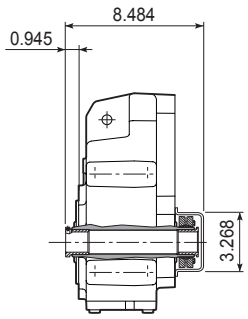




F 25...NQF

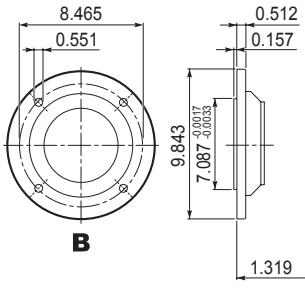
	Ø
NQF1-3/16	1.188
NQF1-1/4	1.250

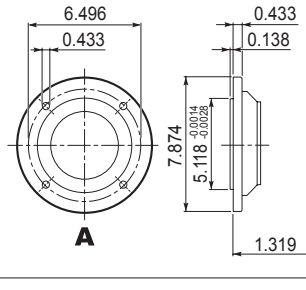


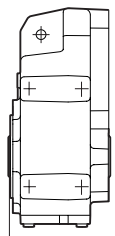


$M_{n2\ max}$ [Nm]	
F 25 NQF1-3/16	350

F 25...F...



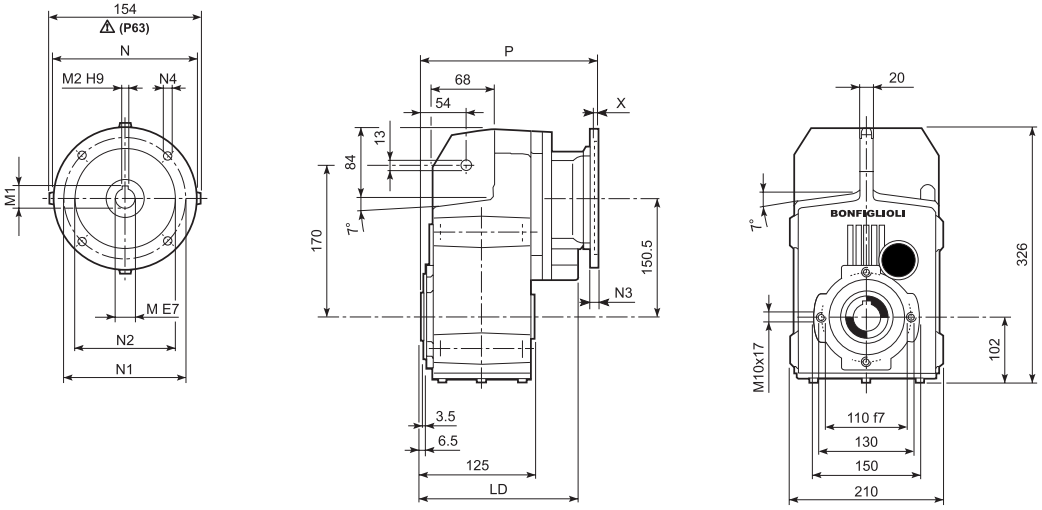




1.319

* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 31...P(IEC)

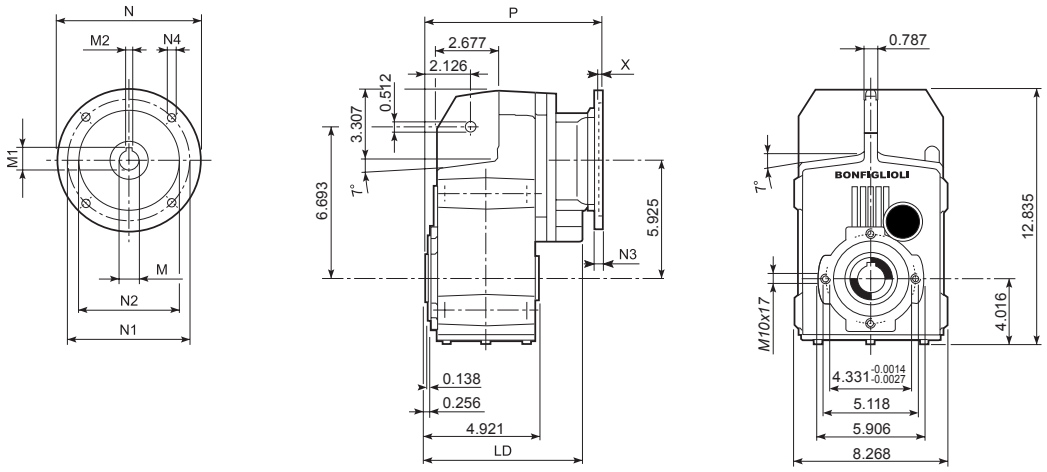


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 31 2/3	**P63**	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	**P71**	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	**P80**	205.5	19	21.8	6	200	165	130	—	M10x12	4	245	18
F 31 2/3	**P90**	205.5	24	27.3	8	200	165	130	—	M10x12	4	245	17
F 31 2/3	**P100**	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	**P112**	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	**P132**	—	38	41.3	10	300	265	230	—	14	5	291.5	24
F 31 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 31 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 31 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	302.5	18
F 31 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	302.5	18
F 31 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 31 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 31...N(NEMA Input)

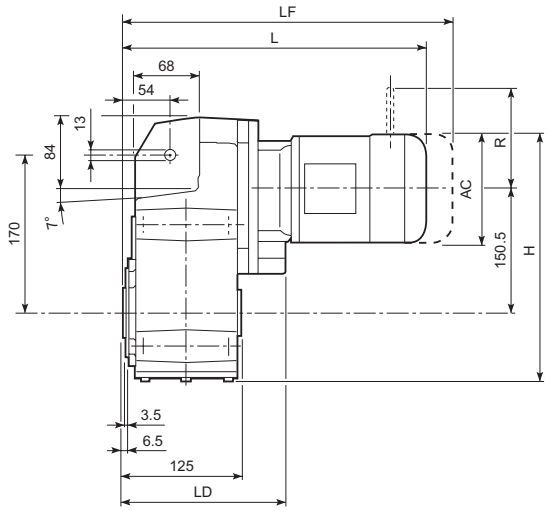


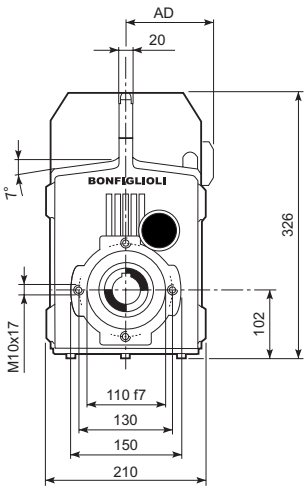
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 31 2/3	**N56C**	7.697	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	9.665	37
F 31 2/3	**N140TC**	7.697	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	9.665	40
F 31 2/3	**N180TC**	8.091	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	10.492	46
F 31 2/3	**N210TC**	—	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.531	0.531	0.217	11.654	53
F 31 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	11.929	37
F 31 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	11.929	40
F 31 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	12.756	49

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 31...M/ME

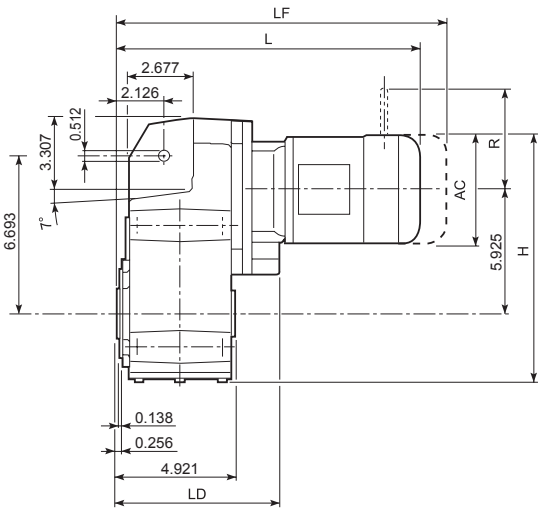


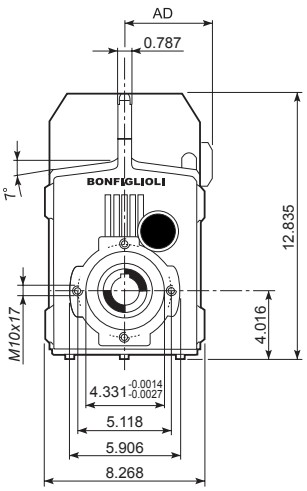


Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 31 2/3	**S1**	**M1**	138	321.3	380.5	183.5	108	22	441.5	25	103	135	124	108
F 31 2/3	**S2**	**ME2S**	156	330.3	409.5	195.5	119	26	—	—	—	—	—	—
F 31 2/3	**S3**	**ME3S**	195	349.8	452.5	205.5	142	31	—	—	—	—	—	—
F 31 2/3	**S3**	**ME3L**	195	349.8	484.5	205.5	142	40	—	—	—	—	—	—
F 31 2/3	**S4**	**ME4**	258	381.3	592.5	—	193	72	—	—	—	—	—	—
F 31 2/3	**S4**	**ME4LA**	258	381.3	592.5	—	193	78	—	—	—	—	—	—
F 31 4	**S05**	**M05**	121	312.8	409	—	95	20	475	22	96	122	116	95
F 31 4	**S1**	**M1**	138	321.3	438	—	108	22	499	25	103	135	124	108
F 31 4	**S2**	**ME2S**	156	330.3	467	—	119	26	—	—	—	—	—	—
F 31 4	**S3**	**ME3S**	195	349.8	510	—	142	31	—	—	—	—	—	—
F 31 4	**S3**	**ME3L**	195	349.8	542	—	142	41	—	—	—	—	—	—

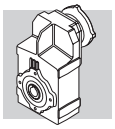
F 31...M/ME



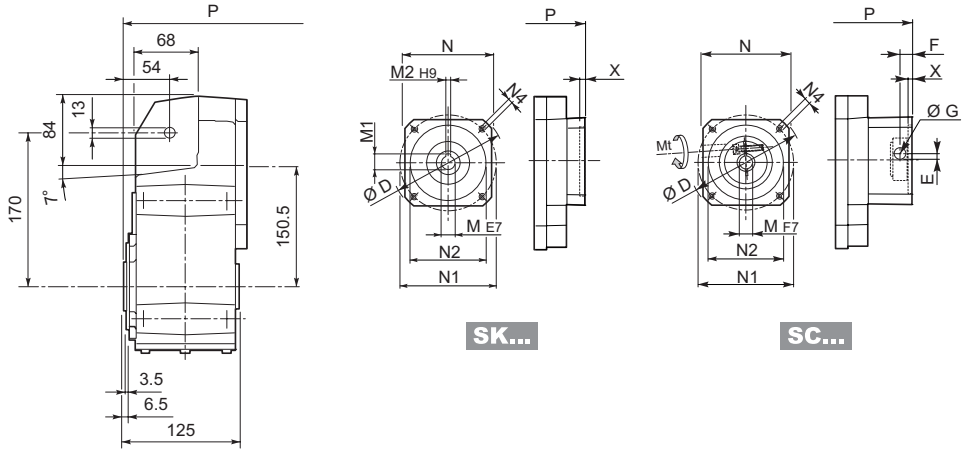


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
F 31 2/3	**S1**	**M1**	5.433	12.650	14.980	7.224	4.252	49	17.382	55	4.055	5.315	4.882	4.252
F 31 2/3	**S2**	**ME2S**	6.142	13.004	16.122	7.697	4.685	57	—	—	—	—	—	—
F 31 2/3	**S3**	**ME3S**	7.677	13.772	17.815	8.091	5.591	68	—	—	—	—	—	—
F 31 2/3	**S3**	**ME3L**	7.677	13.772	19.075	8.091	5.591	88	—	—	—	—	—	—
F 31 2/3	**S4**	**ME4**	10.157	15.012	23.327	—	7.598	159	—	—	—	—	—	—
F 31 2/3	**S4**	**ME4LA**	10.157	15.012	23.327	—	7.598	172	—	—	—	—	—	—
F 31 4	**S05**	**M05**	4.764	12.315	16.102	—	3.740	44	18.701	49	3.780	4.803	4.567	3.740
F 31 4	**S1**	**M1**	5.433	12.650	17.244	—	4.252	49	19.646	55	4.055	5.315	4.882	4.252
F 31 4	**S2**	**ME2S**	6.142	13.004	18.386	—	4.685	57	—	—	—	—	—	—
F 31 4	**S3**	**ME3S**	7.677	13.772	20.079	—	5.591	68	—	—	—	—	—	—
F 31 4	**S3**	**ME3L**	7.677	13.772	21.339	—	5.591	90	—	—	—	—	—	—



F 31...SK / SC

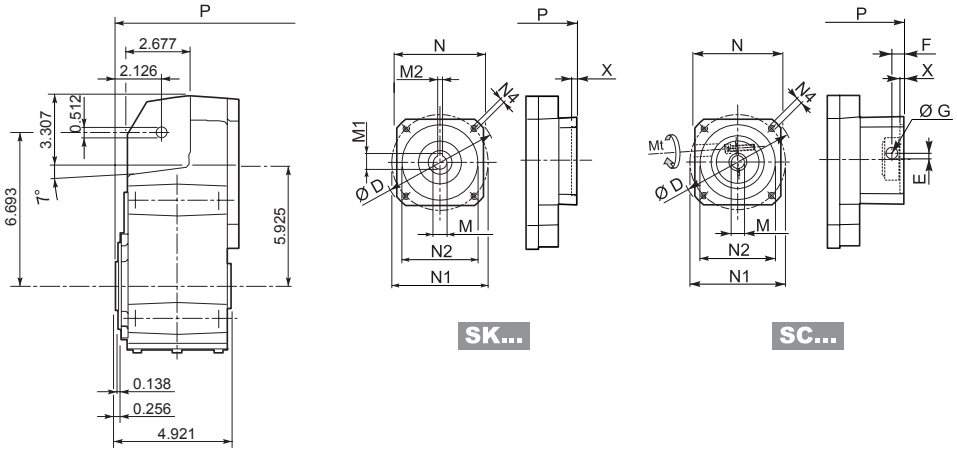


Dimensões em mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 31 2/3/4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
F 31 2/3/4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
F 31 2/3/4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
F 31 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	18
F 31 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	245	18	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 31 2/3/4	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	224	17	281.5	17
F 31 2/3/4	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	224	18	281.5	18
F 31 2/3/4	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	224	18	281.5	18
F 31 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	268.5	19	326	19
F 31 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	268.5	21	—	—

F 31...SK / SC

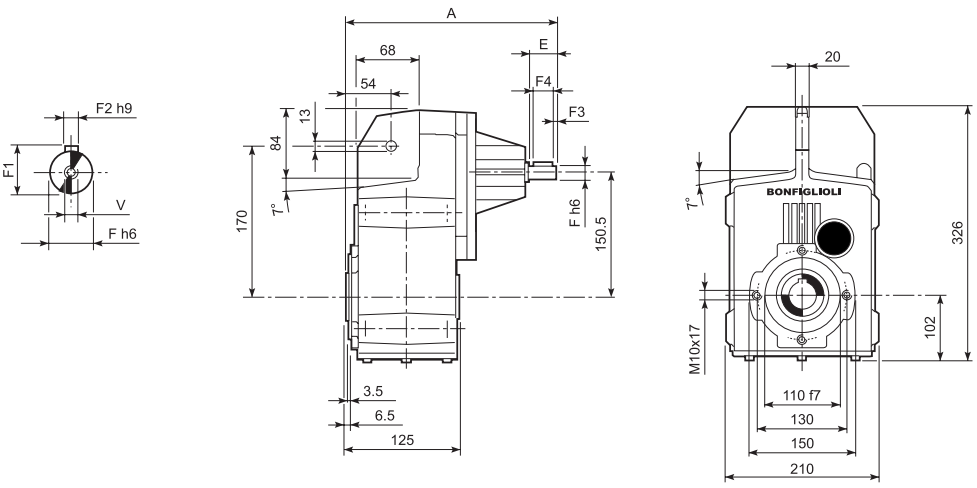


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 31 2/3/4	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	7.756	35	10.020	35
F 31 2/3/4	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	8.031	37	10.295	37
F 31 2/3/4	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	8.031	37	10.295	37
F 31 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	9.646	40	11.909	40
F 31 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.646	40	11.909	40
F 31 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	9.646	40	11.909	40
F 31 2/3	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	9.646	40	—	—

															2/3x		4x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 31 2/3/4	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.819	37	11.083	37
F 31 2/3/4	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	8.819	40	11.083	40
F 31 2/3/4	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	8.819	40	11.083	40
F 31 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	10.571	42	12.835	42
F 31 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.571	44	12.835	44
F 31 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	10.571	44	12.835	44
F 31 2/3	**SC 130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	10.571	46	—	—

F 31...HS

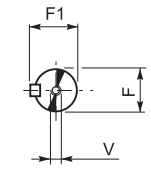


Dimensões em mm

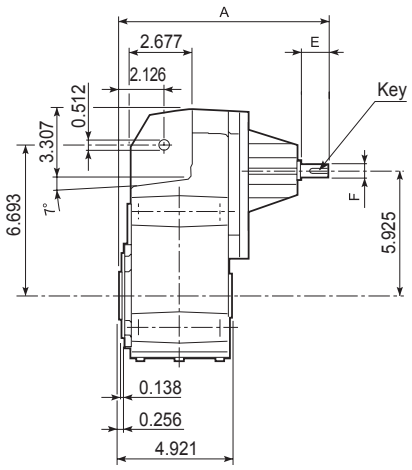
		A	E	F	F1	F2	F3	F4	V	kg
F 31 2	**HS**	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 3		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 4		290	40	16	18	5	2.5	35	M6x16	16.5

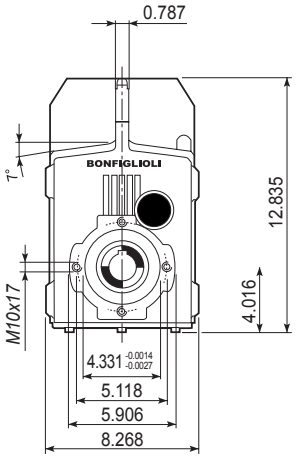
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

F 31...NHS



INPUT
(Inch Series)





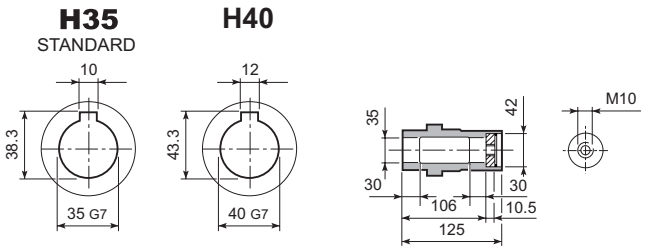
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

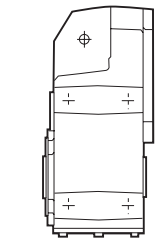
		A	E	F	F1	V	Key	lbs
F 31 2	**NHS**	10.846	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
F 31 3		10.846	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
F 31 4		11.417	1.575	0.625 $^{+0}_{-0.0004}$	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	36

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

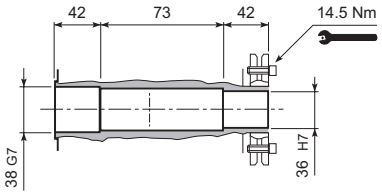
F 31

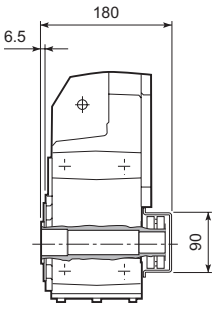
F 31...H



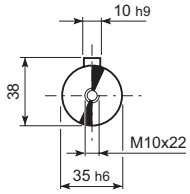


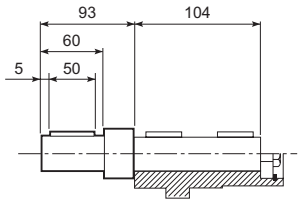
F 31...S

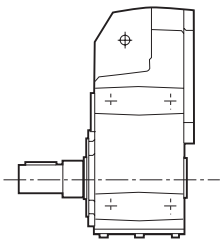




F 31...R

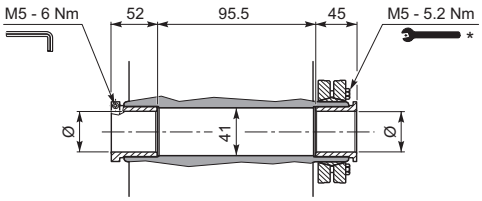


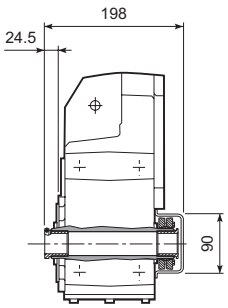




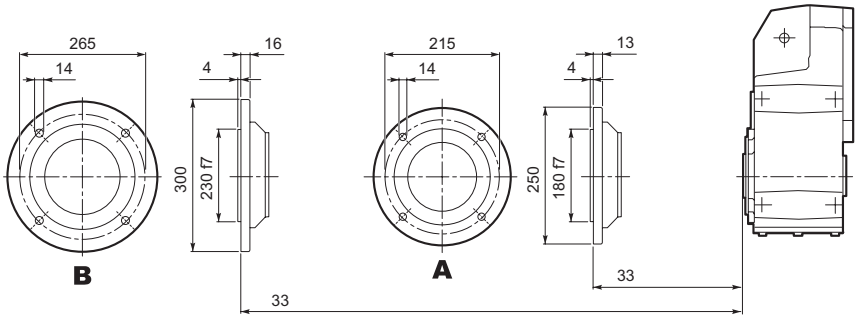
F 31...QF

	Ø
QF35	35
QF40	40





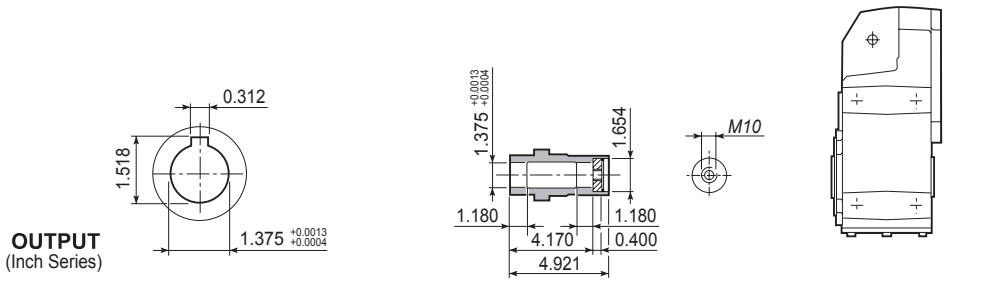
F 31...F...



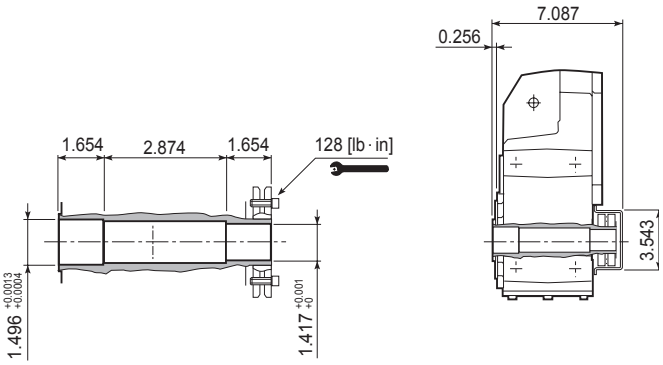
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 31

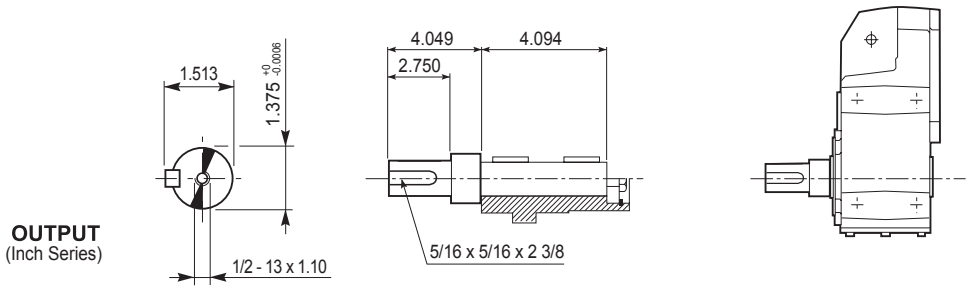
F 31...NH



F 31...S

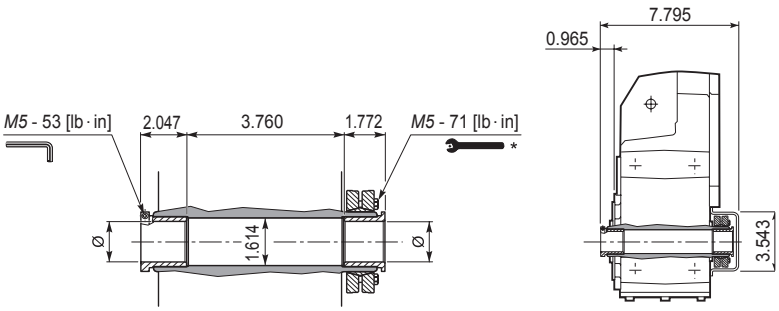


F 31...NR

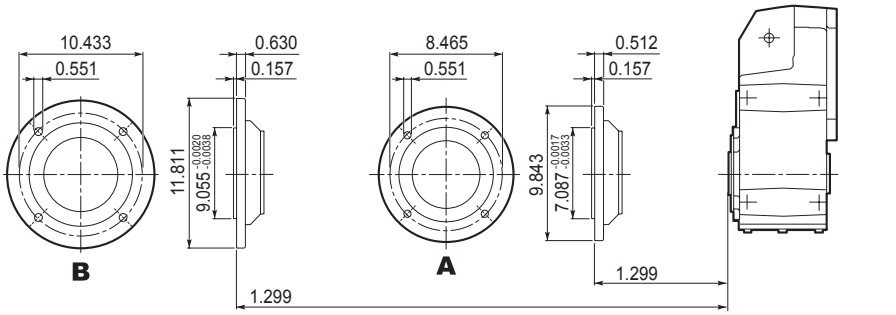


F 31...NQF

	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

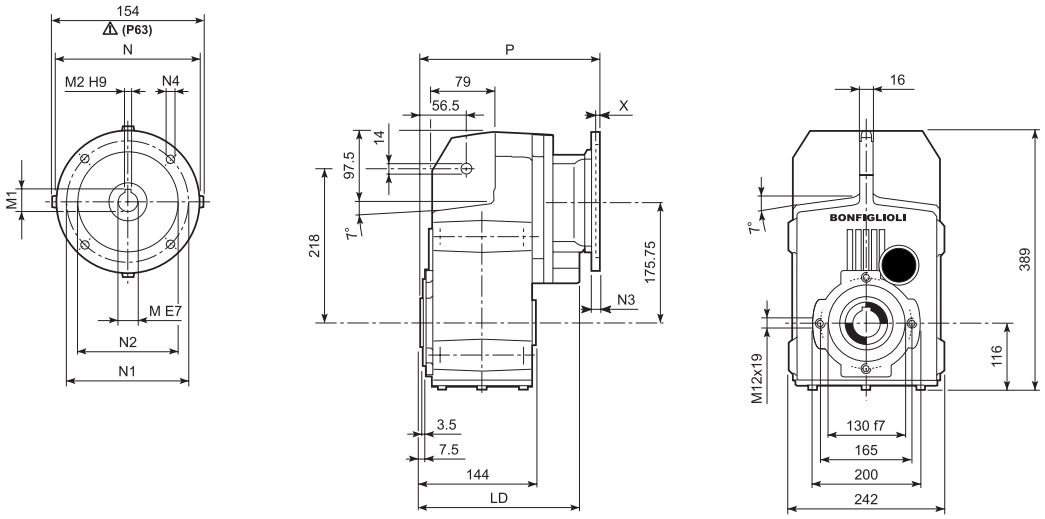


F 31...F...



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 41...P(IEC)

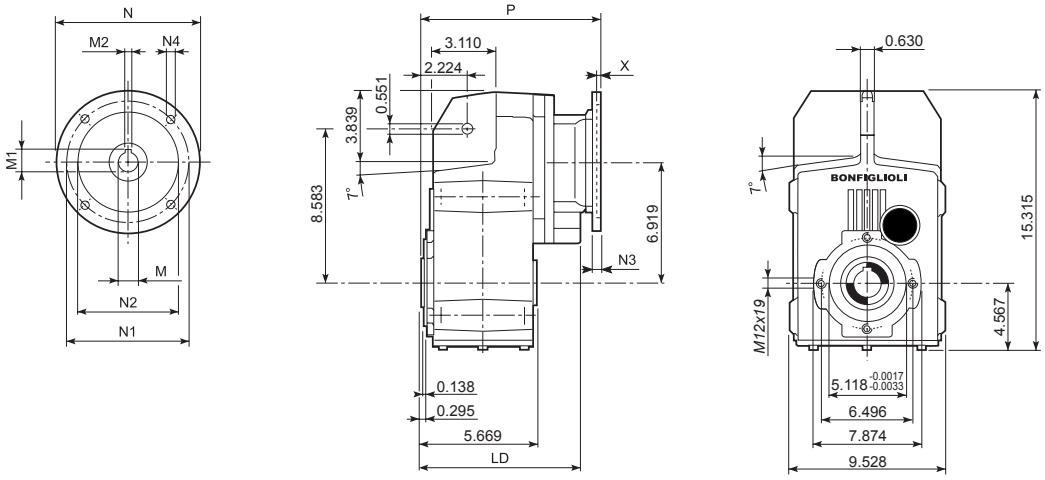


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 41 2/3	**P63**	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	**P71**	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	**P80**	231	19	21.8	6	200	165	130	—	M10x12	4	265.5	43
F 41 2/3	**P90**	231	24	27.3	8	200	165	130	—	M10x12	4	265.5	43
F 41 2/3	**P100**	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	**P112**	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	**P132**	—	38	41.3	10	300	265	230	16	14	5	312	50
F 41 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
F 41 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
F 41 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	327	45
F 41 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	327	45
F 41 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
F 41 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 41...N(NEMA Input)

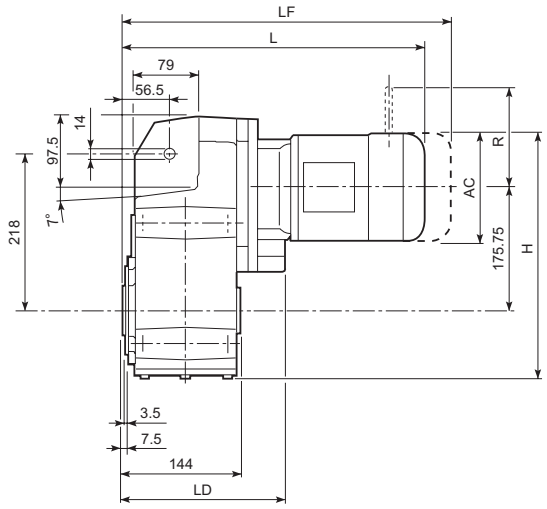


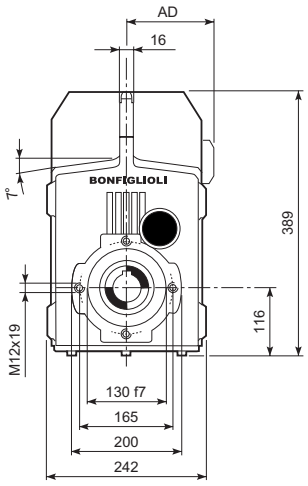
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 41 2/3	**N56C**	8.465	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	10.472	93
F 41 2/3	**N140TC**	8.465	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	10.472	95
F 41 2/3	**N180TC**	9.094	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	11.220	104
F 41 2/3	**N210TC**	—	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.531	0.531	0.217	12.461	110
F 41 4	**N56C**	—	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	12.894	97
F 41 4	**N140TC**	—	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	12.894	99
F 41 4	**N180TC**	—	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	13.720	108

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 41...M/ME

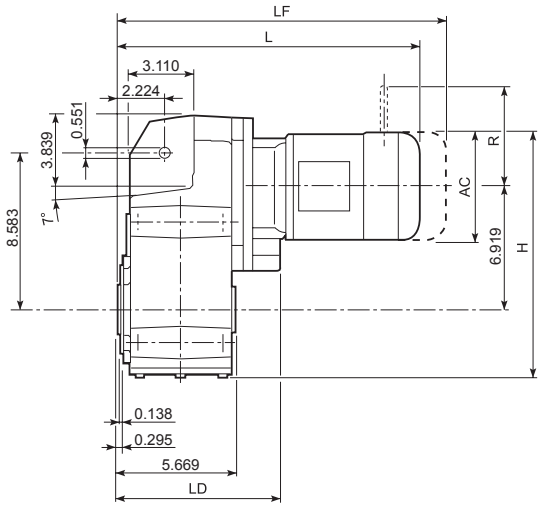


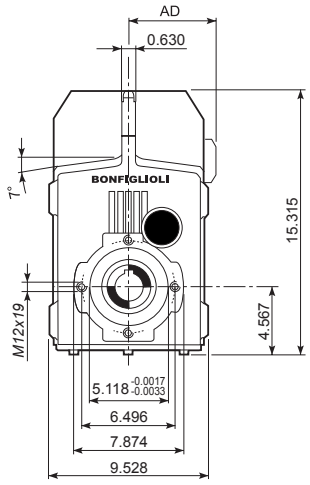


Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 41 2/3	**S1**	**M1**	138	360.8	401	199.5	108	46	462	48	103	135	124	108
F 41 2/3	**S2**	**ME2S**	156	369.8	430	215	119	49	—	—	—	—	—	—
F 41 2/3	**S3**	**ME3S**	195	389.3	473	231	142	54	—	—	—	—	—	—
F 41 2/3	**S3**	**ME3L**	195	389.3	505	231	142	64	—	—	—	—	—	—
F 41 2/3	**S4**	**ME4**	258	420.8	613	—	193	96	—	—	—	—	—	—
F 41 2/3	**S4**	**ME4LB**	258	420.8	648	—	193	104	—	—	—	—	—	—
F 41 4	**S05**	**M05**	231	352.3	433.5	—	95	45	499.5	46	96	122	116	95
F 41 4	**S1**	**M1**	138	360.8	462.5	—	108	47	523.5	49	103	135	124	108
F 41 4	**S2**	**ME2S**	156	369.8	491.5	—	119	50	—	—	—	—	—	—
F 41 4	**S3**	**ME3S**	195	389.3	534.5	—	142	55	—	—	—	—	—	—
F 41 4	**S3**	**ME3L**	195	389.3	566.5	—	142	65	—	—	—	—	—	—

F 41...M/ME

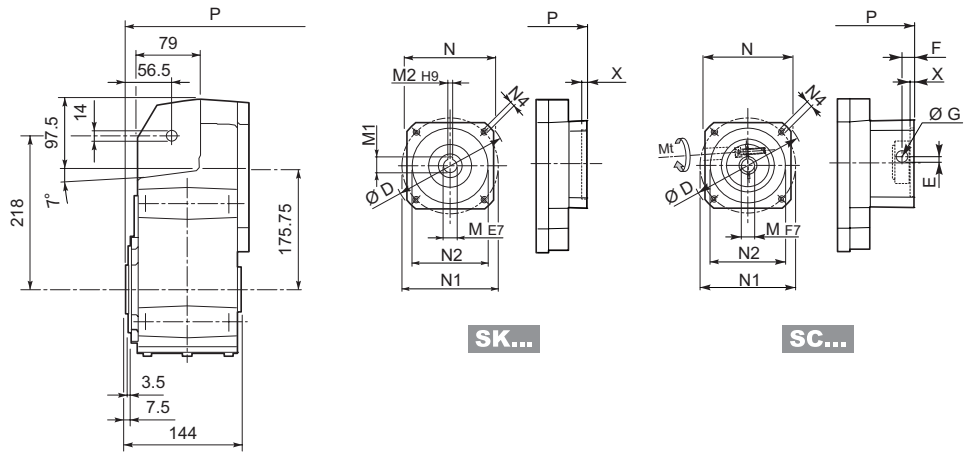




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
F 41 2/3	**S1**	**M1**	5.433	14.205	15.787	7.854	4.252	101	18.189	106	4.055	5.315	4.882	4.252
F 41 2/3	**S2**	**ME2S**	6.142	14.559	16.929	8.465	4.685	108	—	—	—	—	—	—
F 41 2/3	**S3**	**ME3S**	7.677	15.327	18.622	9.094	5.591	119	—	—	—	—	—	—
F 41 2/3	**S3**	**ME3L**	7.677	15.327	19.882	9.094	5.591	141	—	—	—	—	—	—
F 41 2/3	**S4**	**ME4**	10.157	16.567	24.134	—	7.598	212	—	—	—	—	—	—
F 41 2/3	**S4**	**ME4LB**	10.157	16.567	25.512	—	7.598	229	—	—	—	—	—	—
F 41 4	**S05**	**M05**	9.094	13.870	17.067	—	3.740	99	19.665	101	3.780	4.803	4.567	3.740
F 41 4	**S1**	**M1**	5.433	14.205	18.209	—	4.252	104	20.610	108	4.055	5.315	4.882	4.252
F 41 4	**S2**	**ME2S**	6.142	14.559	19.350	—	4.685	110	—	—	—	—	—	—
F 41 4	**S3**	**ME3S**	7.677	15.327	21.043	—	5.591	121	—	—	—	—	—	—
F 41 4	**S3**	**ME3L**	7.677	15.327	22.303	—	5.591	143	—	—	—	—	—	—

F 41...SK / SC

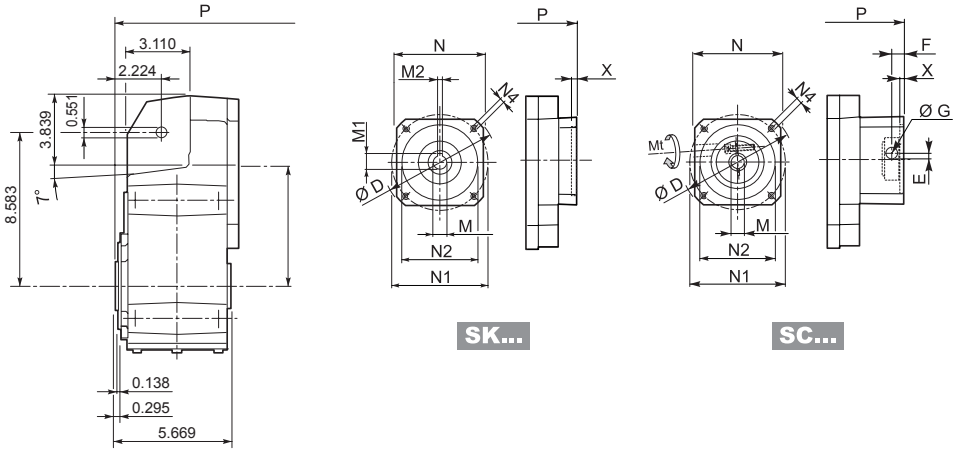


Dimensões em mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 41 4	**SK 60A**	102	11	12.8	4	82	75	60	M5x10	3.5	—	—	279	43
F 41 4	**SK 60B**	102	14	16.3	5	82	75	60	M5x10	4	—	—	286	44
F 41 4	**SK 80A**	115	14	16.3	5	90	100	80	M6x12	4	—	—	286	44
F 41 2/3	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	265.5	43	—	—
F 41 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	265.5	45	—	—
F 41 2/3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	312	47	—	—
F 41 2/3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	312	47	—	—
F 41 2/3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	312	47	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 41 4	**SC 60A**	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	—	306	44
F 41 4	**SC 60B**	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	—	306	45
F 41 4	**SC 80A**	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	—	306	45
F 41 2/3	**SC 80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	289	44	—	—
F 41 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	289	44	350.5	46
F 41 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	289	46	—	—
F 41 2/3	**SC 130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	335	50	—	—
F 41 2/3	**SC 180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	339	50	—	—
F 41 2/3	**SC 180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	339	50	—	—

F 41...SK / SC

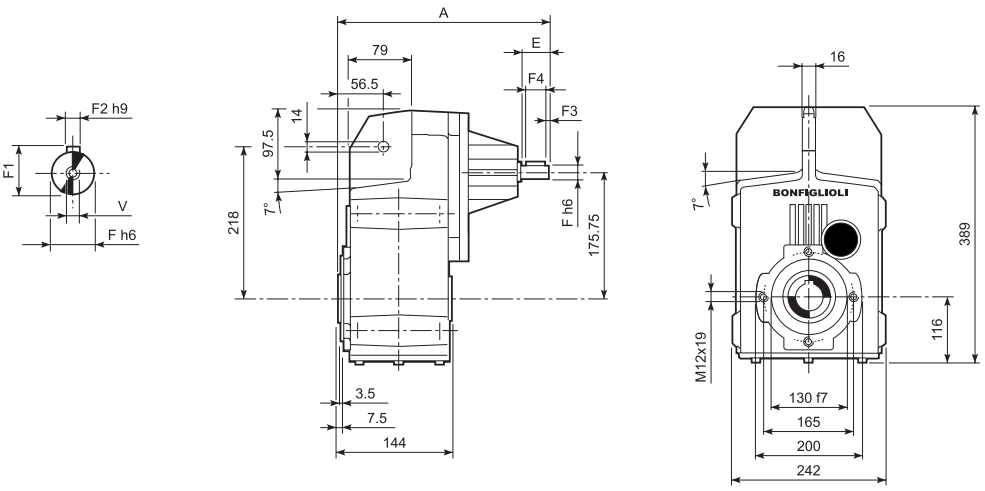


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 41 4	**SK 60A**	4.016	0.433 $^{+0.0020}_{+0.0013}$	0.504	0.157 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.138	—	—	10.984	95
F 41 4	**SK 60B**	4.016	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.228	2.953	2.362	*M5x10*	0.157	—	—	11.260	97
F 41 4	**SK 80A**	4.528	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.543	3.937	3.150	*M6x12*	0.157	—	—	11.260	97
F 41 2/3	**SK 80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	10.453	95	—	—
F 41 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	10.453	95	12.874	99
F 41 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	10.453	95	12.874	99
F 41 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	10.453	95	12.874	99
F 41 2/3	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	10.453	99	—	—
F 41 2/3	**SK 130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	12.283	104	—	—
F 41 2/3	**SK 180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	12.283	104	—	—
F 41 2/3	**SK 180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	12.283	104	—	—

														2/3x		4x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 41 4	**SC 60A**	*M6*	133	4.016	0.276	0.492	0.492	0.433 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	—	12.047	97
F 41 4	**SC 60B**	*M6*	133	4.016	0.276	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.228	2.953	2.362	*M5x10*	0.157	—	—	12.047	99
F 41 4	**SC 80A**	*M6*	133	4.528	0.236	0.492	0.492	0.551 $^{+0.0013}_{+0.0006}$	3.543	3.937	3.150	*M6x12*	0.157	—	—	12.047	99
F 41 2/3	**SC 80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	11.378	97	—	—
F 41 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	11.378	97	13.799	101
F 41 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	11.378	99	13.799	104
F 41 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	11.378	99	13.799	104
F 41 2/3	**SC 130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	11.378	101	—	—
F 41 2/3	**SC 130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	13.189	110	—	—
F 41 2/3	**SC 180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	13.346	110	—	—
F 41 2/3	**SC 180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	13.346	110	—	—

F 41...HS

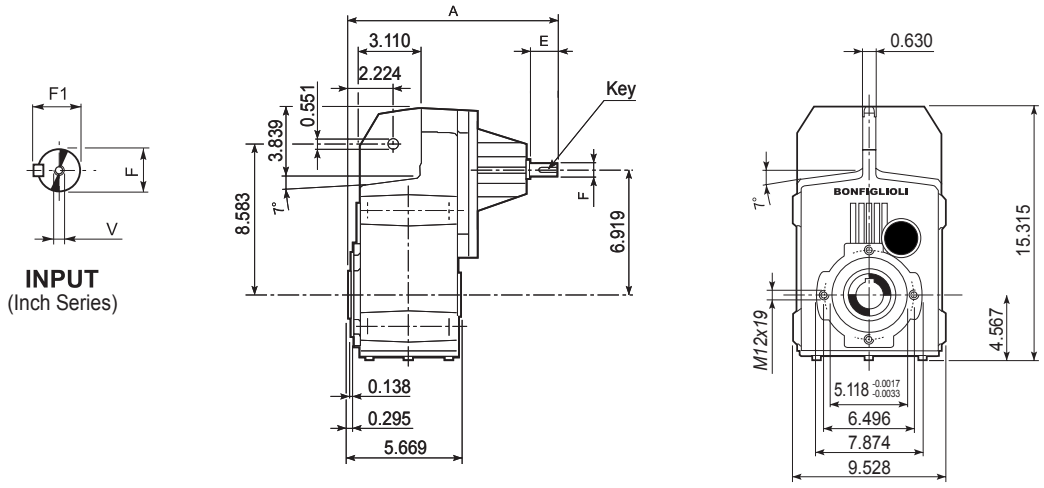


Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	kg
F 41 2	**HS**	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 3		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 41 4		357.5	40	19	21.5	6	2.5	35	M6x16	43.5

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

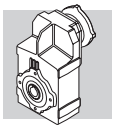
F 41...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

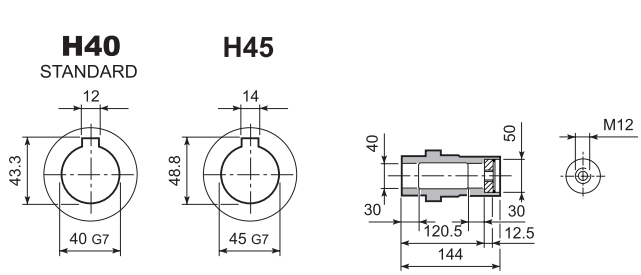
		A	E	F	F1	V	Key	lbs
F 41 2	**NHS**	13.209	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
F 41 3		13.209	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	102
F 41 4		14.075	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	96

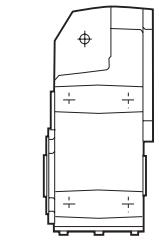
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



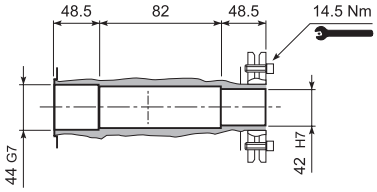
F 41

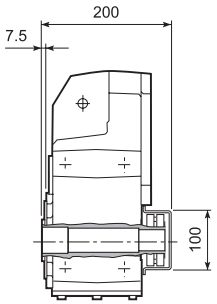
F 41...H



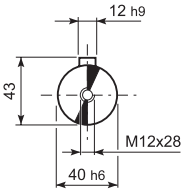


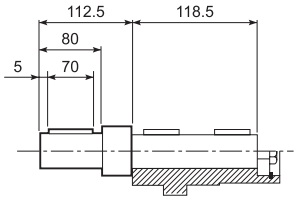
F 41...S

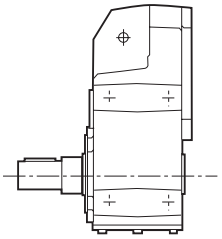




F 41...R



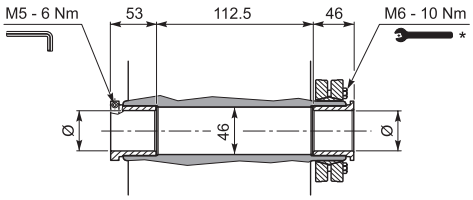


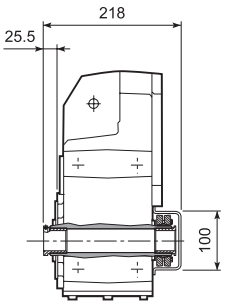


F 41...QF

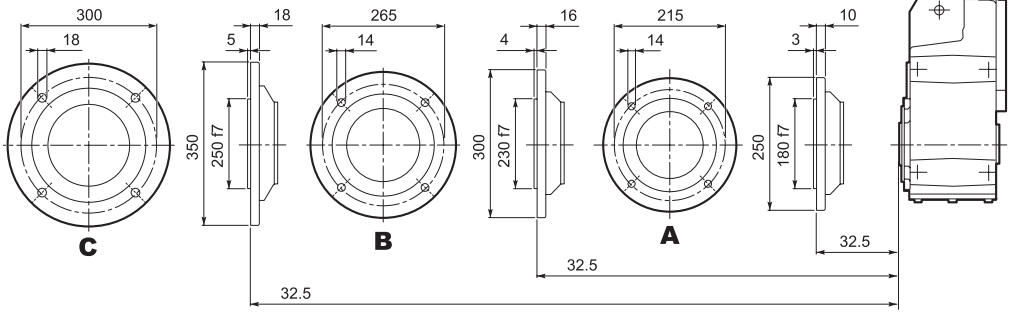
	Ø
QF42	42
QF45	45

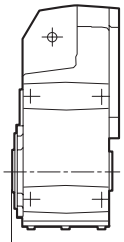
$M_{n2\ max}$ [Nm]	
F 41 QF42	850
F 41 QF45	1000





F 41...F...

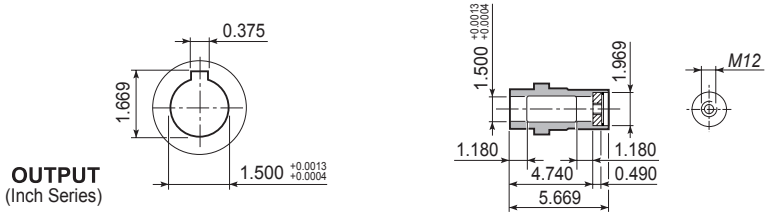




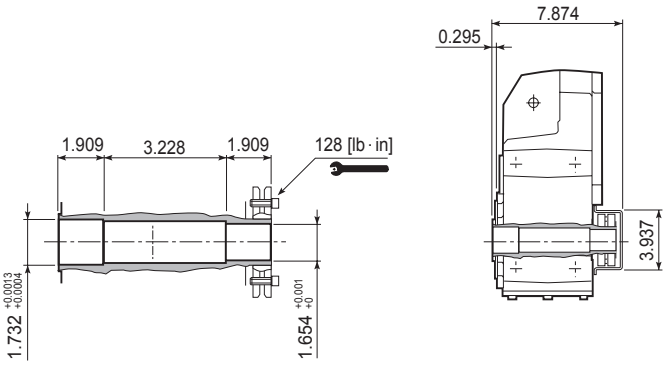
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 41

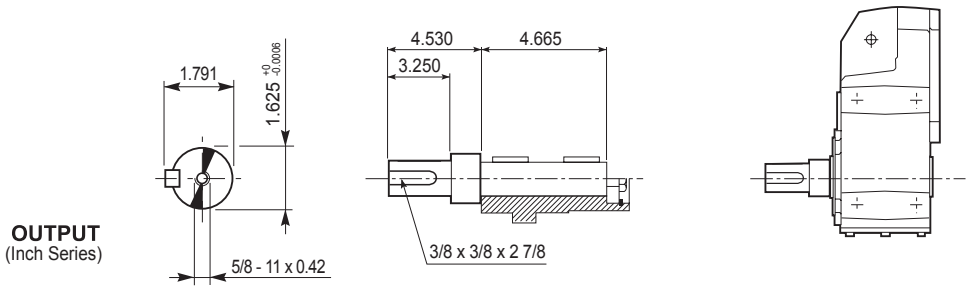
F 41...NH



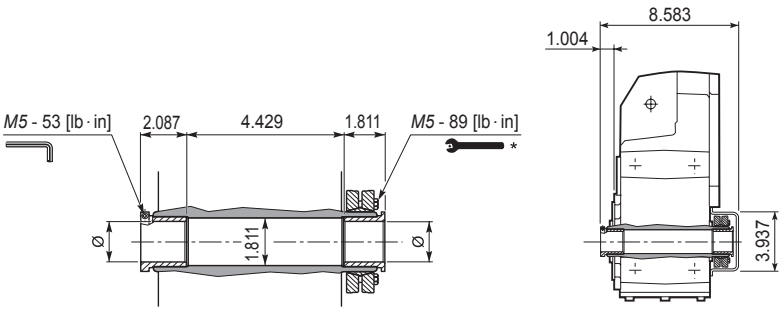
F 41...S



F 41...NR



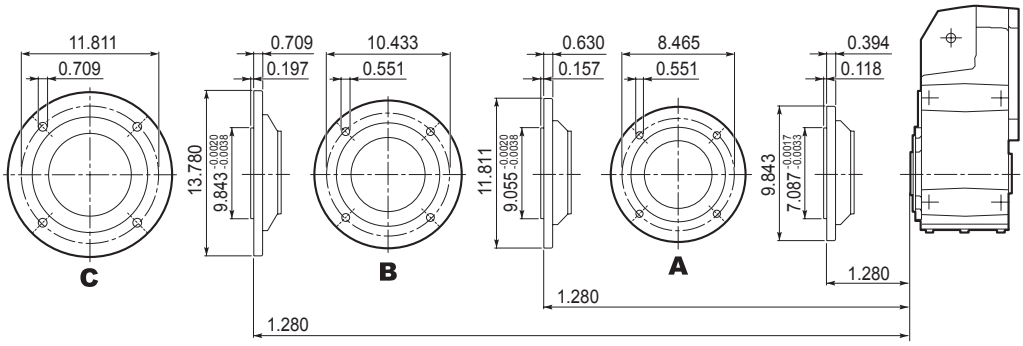
F 41...NQF



	Ø
NQF1-5/8	1.625
NQF1-3/4	1.750

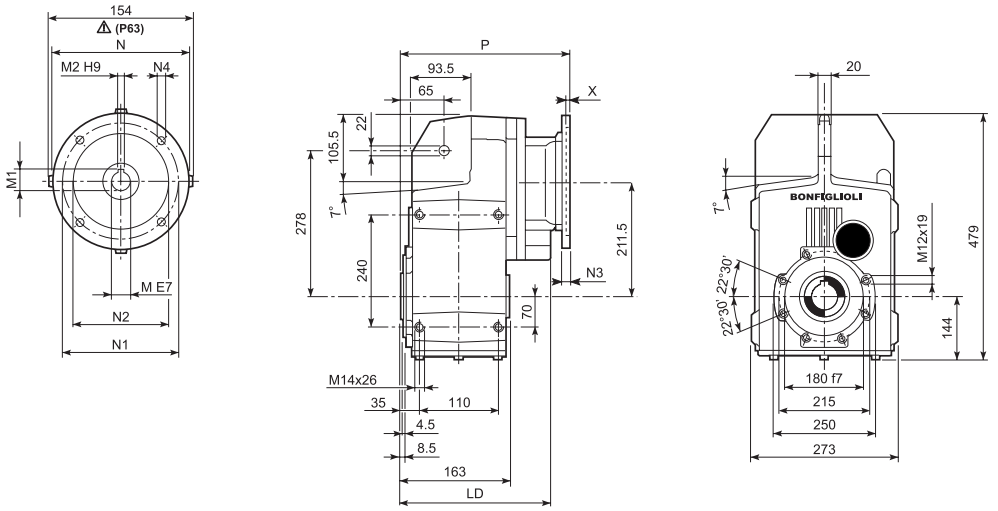
$M_{n2\ max}$ [Nm]	
F 41 NQF1-5/8	850
F 41 NQF1-3/4	1000

F 41...F...



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 51...P(IEC)

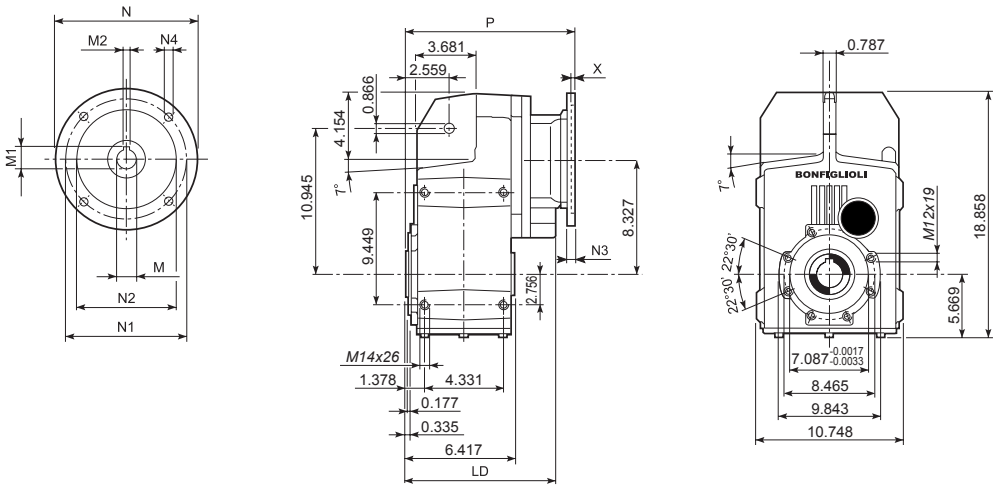


Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 51 2/3	**P63**	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	**P71**	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	**P80**	253	19	21.8	6	200	165	130	—	M10x12	4	287.5	67
F 51 2/3	**P90**	253	24	27.3	8	200	165	130	—	M10x12	4	287.5	67
F 51 2/3	**P100**	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	**P112**	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	**P132**	238	38	41.3	10	300	265	230	16	14	5	334	74
F 51 2/3	**P160**	—	42	45.3	12	350	300	250	23	18	5.5	384.5	78
F 51 2/3	**P180**	—	48	51.8	14	350	300	250	23	18	5.5	384.5	78
F 51 4	**P63**	—	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
F 51 4	**P71**	—	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
F 51 4	**P80**	—	19	21.8	6	200	165	130	—	M10x12	4	359	71
F 51 4	**P90**	—	24	27.3	8	200	165	130	—	M10x12	4	359	71
F 51 4	**P100**	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	**P112**	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 51...N(NEMA Input)

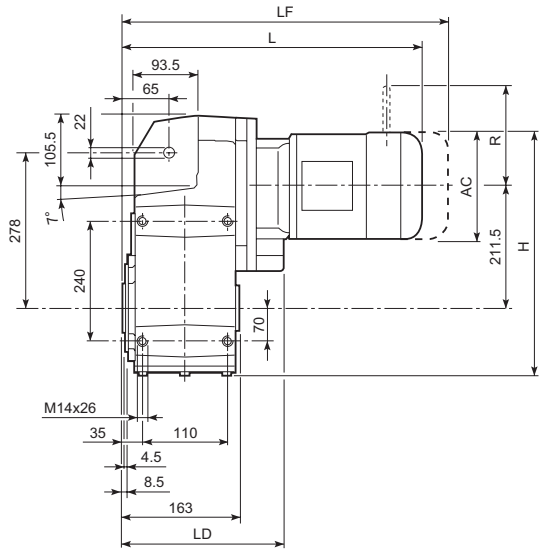


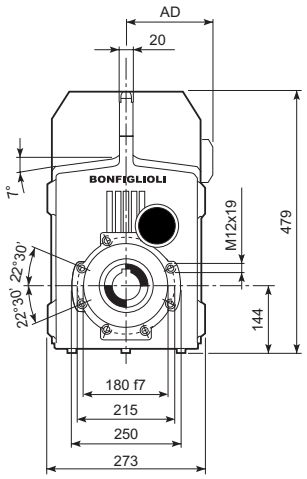
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 51 2/3	**N56C**	9.370	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.339	143
F 51 2/3	**N140TC**	9.370	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	11.339	148
F 51 2/3	**N180TC**	9.961	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	12.087	157
F 51 2/3	**N210TC**	9.370	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	13.327	163
F 51 2/3	**N250TC**	—	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	16.122	202
F 51 2/3	**N280TC**	—	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	16.319	205
F 51 4	**N56C**	—	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	14.154	154
F 51 4	**N140TC**	—	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	14.154	157
F 51 4	**N180TC**	—	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	14.980	165

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 51...M/ME

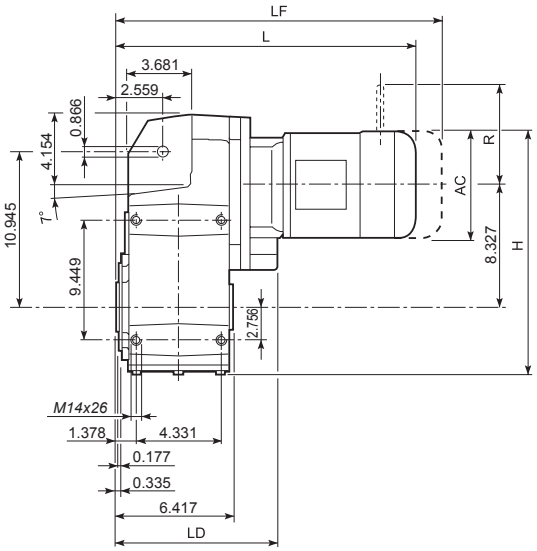


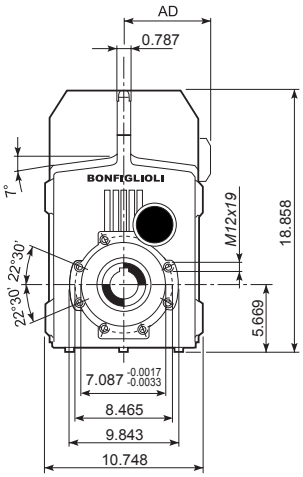


Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 51 2/3	**S1**	**M1**	138	424	423	—	108	73	484	76	103	135	124	108
F 51 2/3	**S2**	**ME2S**	156	433	452	238	119	73	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3S**	195	452.5	495	253	142	77	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3L**	195	452.5	527	253	142	87	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4**	258	484	635	238	193	119	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4LB**	258	484	670	238	193	127	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5S**	310	510	721.5	—	245	153	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5L**	310	510	765.5	—	245	169	—	—	—	—	—	—
F 51 4	**S1**	**M1**	138	424	494.5	—	108	75	555.5	78	103	135	124	108
F 51 4	**S2**	**ME2S**	156	433	523.5	—	119	79	—	—	—	—	—	—
F 51 4	**S3**	**ME3S**	195	452.5	566.5	—	142	84	—	—	—	—	—	—
F 51 4	**S3**	**ME3L**	195	452.5	598.5	—	142	93	—	—	—	—	—	—

F 51...M/ME

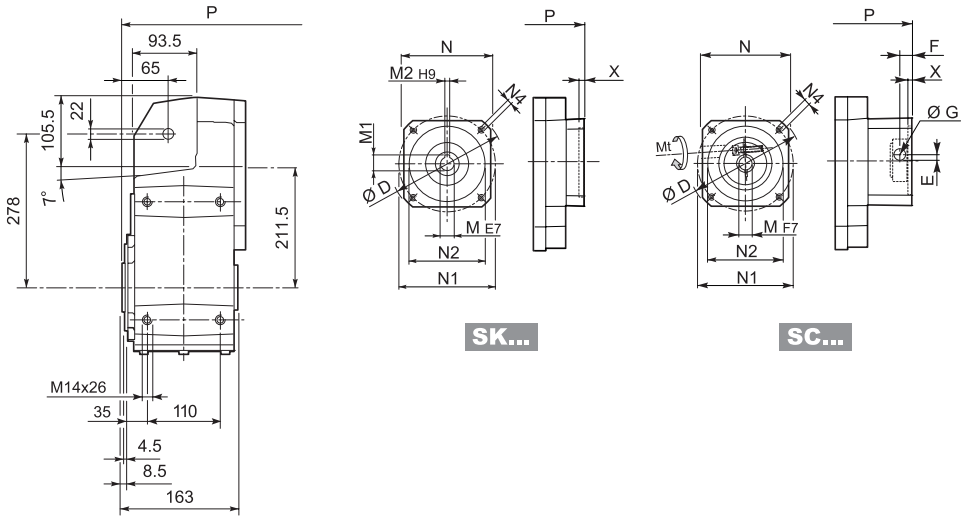




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	lbs	LF	lbs	R	AD	R	AD
F 51 2/3	**S1**	**M1**	5.433	16.693	16.654	—	4.252	161	19.055	168	4.055	5.315	4.882	4.252
F 51 2/3	**S2**	**ME2S**	6.142	17.047	17.795	9.370	4.685	161	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3S**	7.677	17.815	19.488	9.961	5.591	170	—	—	—	—	—	—
F 51 2/3	**S3**	**ME3L**	7.677	17.815	20.748	9.961	5.591	192	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4**	10.157	19.055	25.000	9.370	7.598	262	—	—	—	—	—	—
F 51 2/3	**S4**	**ME4LB**	10.157	19.055	26.378	9.370	7.598	280	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5S**	12.205	20.079	28.406	—	9.646	337	—	—	—	—	—	—
F 51 2/3	**S5**	**ME5L**	12.205	20.079	30.138	—	9.646	373	—	—	—	—	—	—
F 51 4	**S1**	**M1**	5.433	16.693	19.469	—	4.252	165	21.870	172	4.055	5.315	4.882	4.252
F 51 4	**S2**	**ME2S**	6.142	17.047	20.610	—	4.685	174	—	—	—	—	—	—
F 51 4	**S3**	**ME3S**	7.677	17.815	22.303	—	5.591	185	—	—	—	—	—	—
F 51 4	**S3**	**ME3L**	7.677	17.815	23.563	—	5.591	205	—	—	—	—	—	—

F 51...SK / SC

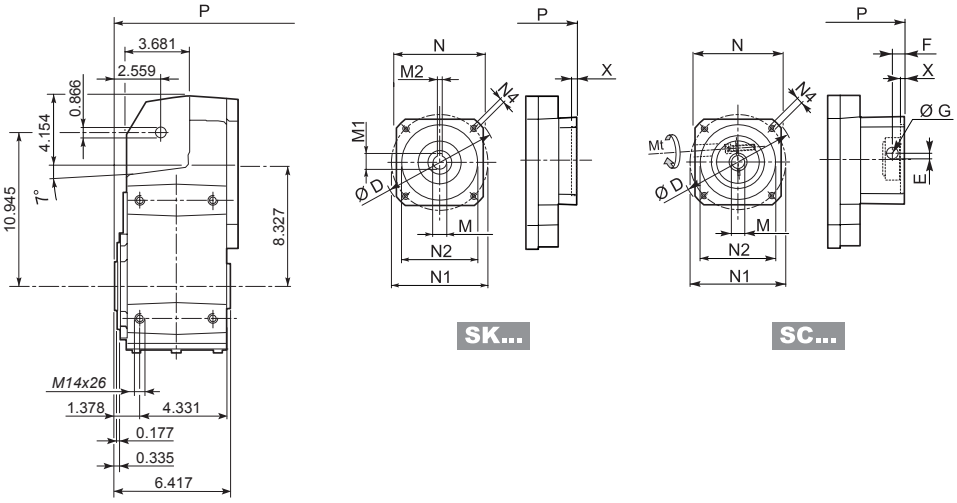


Dimensões em mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	**SK 110A**	150	19	21.8	6	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	**SK 110B**	150	24	27.3	8	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	287.5	69	359	73
F 51 2/3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	334	75	—	—
F 51 2/3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	334	75	—	—
F 51 2/3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	334	75	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 51 2/3	**SC 80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	311	70	—	—
F 51 2/3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	311	70	382.5	74
F 51 2/3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	**SC 110A**	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	**SC 110B**	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	311	72	382.5	76
F 51 2/3	**SC 130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	357	75	—	—
F 51 2/3	**SC 180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	361	75	—	—
F 51 2/3	**SC 180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	361	75	—	—

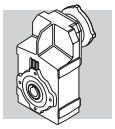
F 51...SK / SC



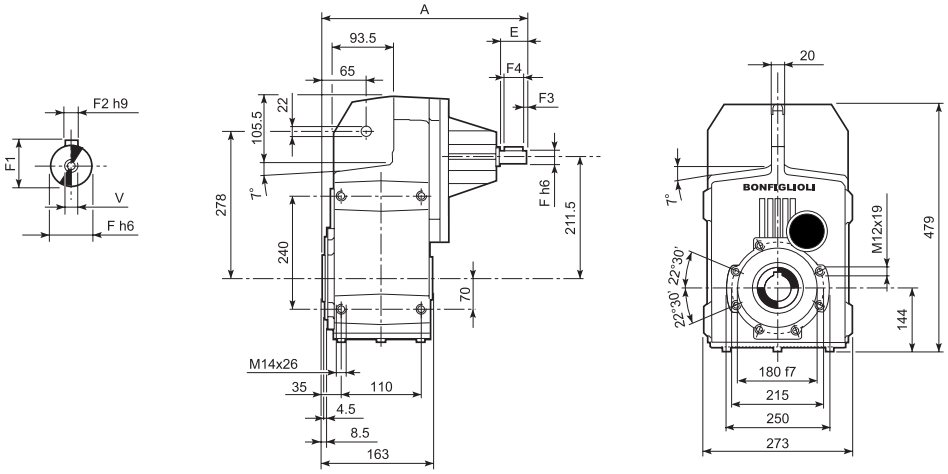
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 51 2/3	**SK 80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.319	148	—	—
F 51 2/3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	11.319	148	14.134	157
F 51 2/3/4	**SK 110A**	5.906	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.319	148	14.134	157
F 51 2/3/4	**SK 110B**	5.906	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	11.319	148	14.134	157
F 51 2/3/4	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	11.319	152	14.134	161
F 51 2/3	**SK 130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	13.150	165	—	—
F 51 2/3	**SK 180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	13.150	165	—	—
F 51 2/3	**SK 180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	13.150	165	—	—

														2/3x		4x	
		Mt [lb • in]		D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 51 2/3	**SC 80B**	*M6*	133	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	12.244	154	—	—
F 51 2/3/4	**SC 80C**	*M6*	133	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 95A**	*M6*	133	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 95B**	*M6*	133	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 95C**	*M6*	133	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	12.244	154	15.059	163
F 51 2/3/4	**SC 110A**	*M6*	133	5.906	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.244	157	15.059	165
F 51 2/3/4	**SC 110B**	*M6*	133	5.906	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	12.244	157	15.059	165
F 51 2/3/4	**SC 130A**	*M6*	133	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	12.244	159	15.059	168
F 51 2/3	**SC 130B**	*M8*	319	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	14.055	165	—	—
F 51 2/3	**SC 180A**	*M8*	319	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	14.213	165	—	—
F 51 2/3	**SC 180B**	*M8*	319	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	14.213	165	—	—



F 51...HS

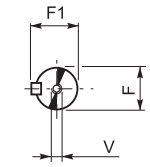


Dimensões em mm

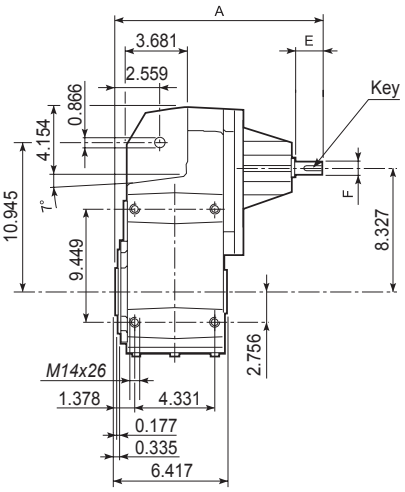
		A	E	F	F1	F2	F3	F4	V	Kg
F 51 2	**HS**	357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3		357.5	50	24	27	8	2.5	45	M8x19	68
F 51 4		389.5	40	19	21.5	6	2.5	35	M6x16	70

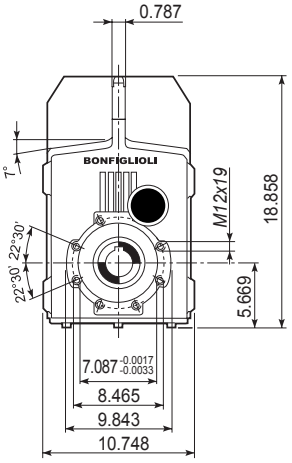
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 51...NHS



INPUT
(Inch Series)

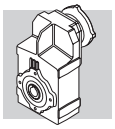




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

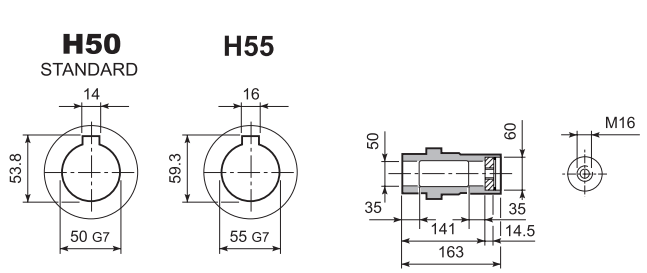
		A	E	F	F1	V	Key	lbs
F 51 2	**NHS**	14.075	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	143
F 51 3		14.075	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	150
F 51 4		15.335	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	154

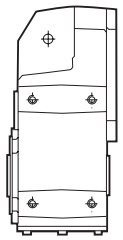
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



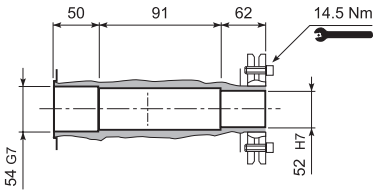
F 51

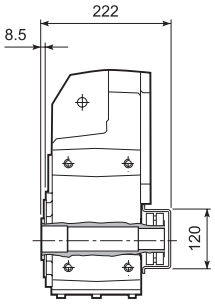
F 51...H



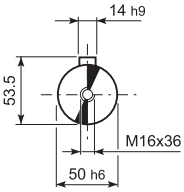


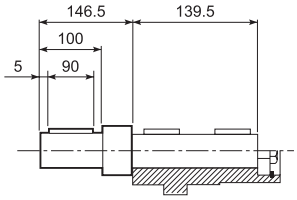
F 51...S

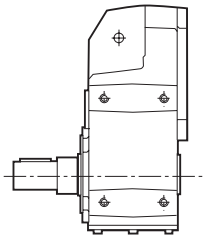




F 51...R

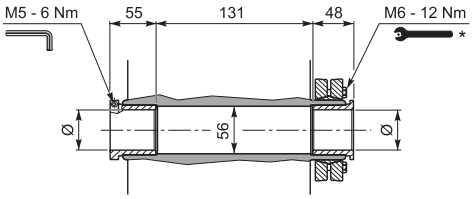


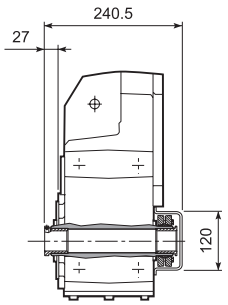




F 51...QF

	Ø
QF50	50
QF55	55

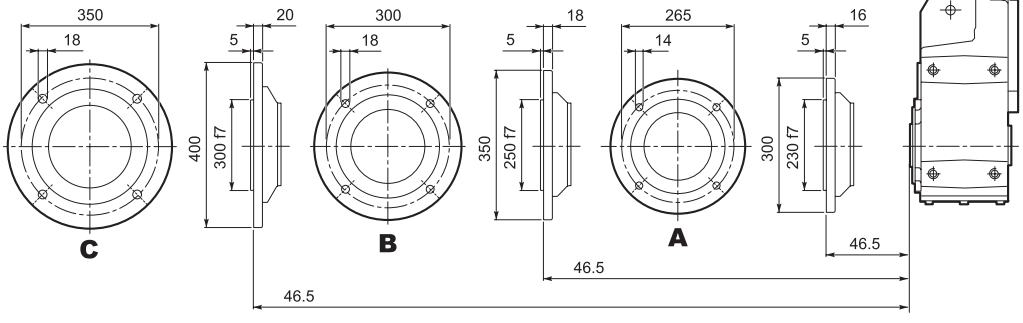






$M_{n2\ max}$ [Nm]	
F 51 QF50	1750

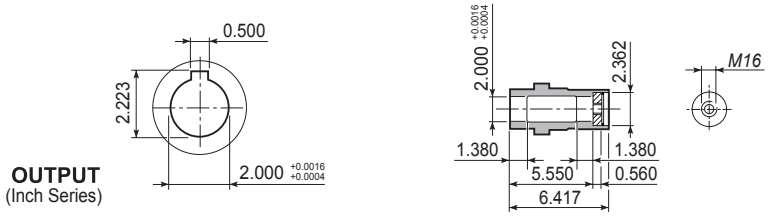
F 51...F...

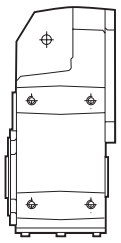


* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

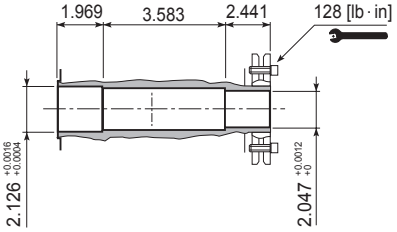
F 51

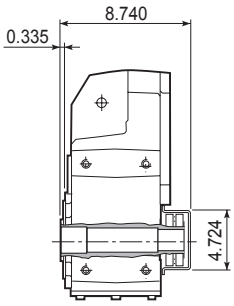
F 51...NH



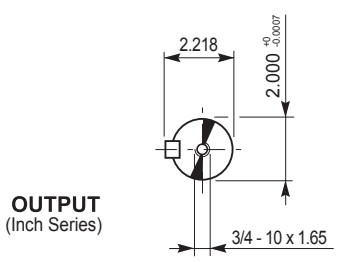


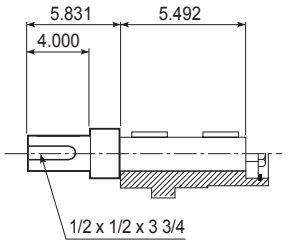
F 51...S

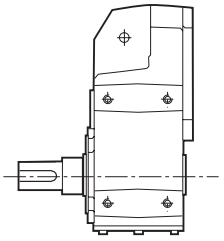




F 51...NR



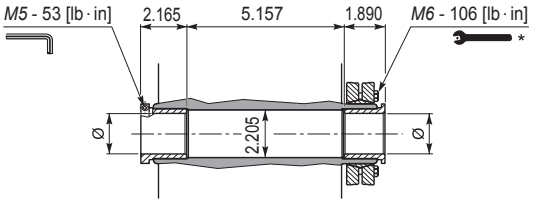


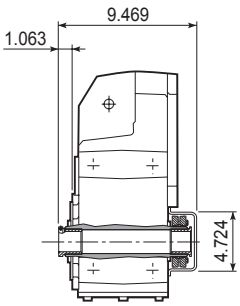


F 51...NQF

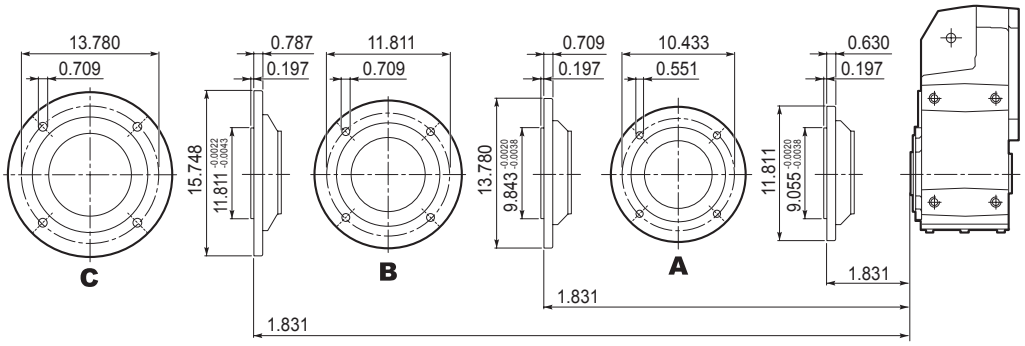
	Ø
NQF1-15/16	1.938
NQF2	2.000

$M_{n2\ max}$ [Nm]	
F 51 NQF1-15/16	1750
F 51 NQF2	



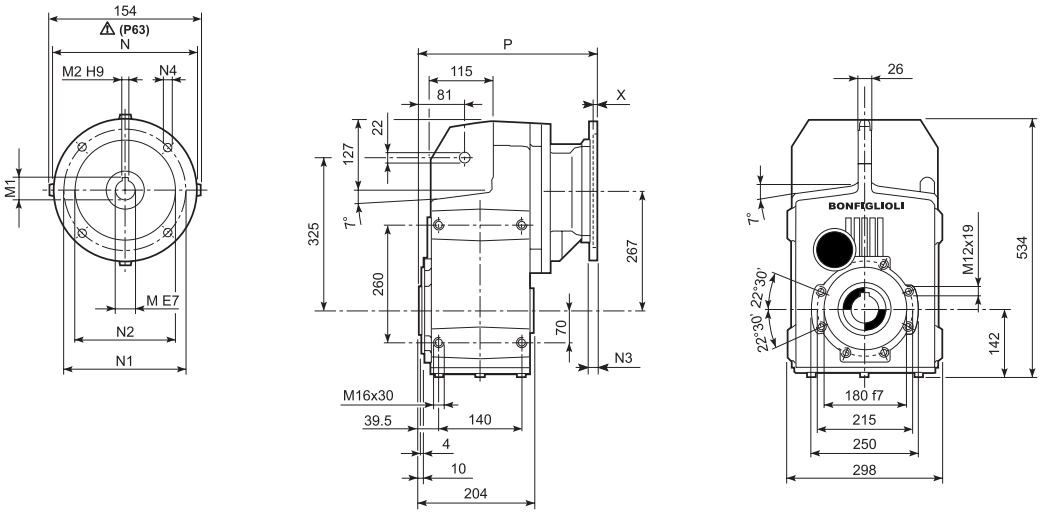


F 51...F...



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 60...P(IEC)

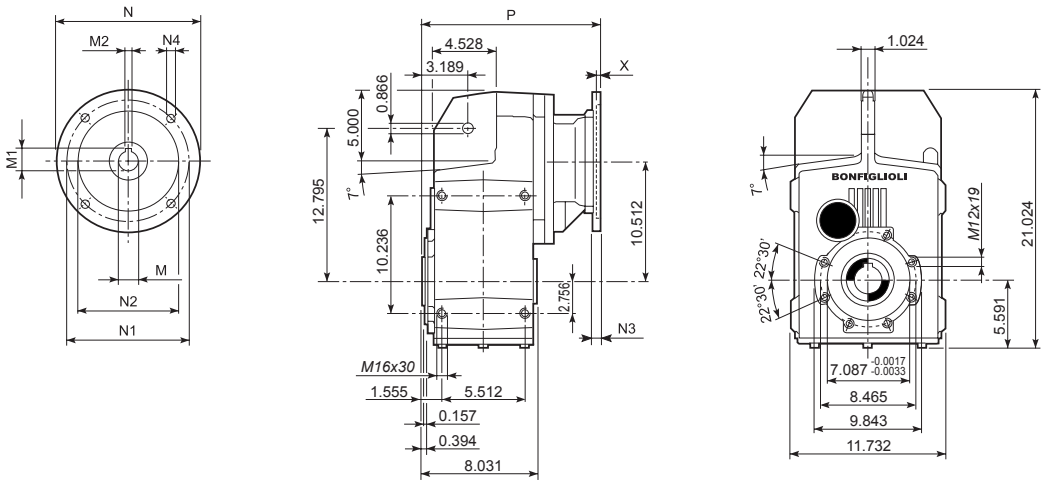


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 60 3	**P63**	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	322	104
F 60 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	322	104
F 60 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	**P132**	38	41.3	10	300	265	230	16	14	5	367.5	111
F 60 3	**P160**	42	45.3	12	350	300	250	23	18	5.5	419	116
F 60 3	**P180**	48	51.8	14	350	300	250	23	18	5.5	419	116
F 60 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	373	108
F 60 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	373	108
F 60 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	392.5	110
F 60 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	392.5	110
F 60 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114
F 60 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 60...N(NEMA Input)

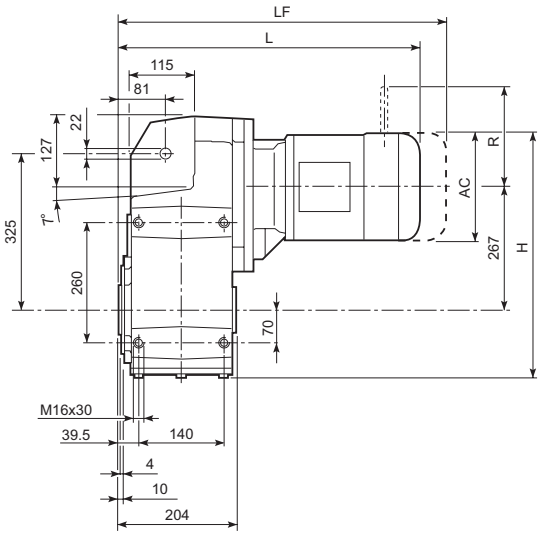


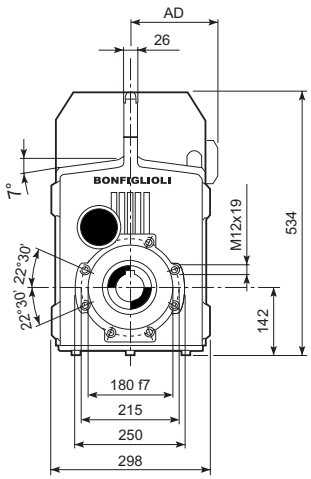
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 60 3	**N56C**	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	12.697	227
F 60 3	**N140TC**	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	12.697	229
F 60 3	**N180TC**	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	13.445	238
F 60 3	**N210TC**	1.375 $^{+0.0030}_{+0.0020}$	1.518	0.312 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.531	0.531	0.217	14.646	245
F 60 3	**N250TC**	1.625 $^{+0.0030}_{+0.0020}$	1.796	0.375 $^{+0}_{+0.0014}$	13.780	7.250	8.500	—	0.551	0.217	17.480	285
F 60 3	**N280TC**	1.875 $^{+0.0030}_{+0.0020}$	2.102	0.500 $^{+0}_{+0.0017}$	13.740	10.500	9.000	—	0.551	0.217	17.677	289
F 60 4	**N56C**	0.625 $^{+0.0020}_{+0.0013}$	0.710	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	15.472	238
F 60 4	**N140TC**	0.875 $^{+0.0024}_{+0.0016}$	0.964	0.188 $^{+0}_{+0.0012}$	6.496	5.875	4.500	0.472	0.394	0.197	15.472	243
F 60 4	**N180TC**	1.125 $^{+0.0024}_{+0.0016}$	1.241	0.250 $^{+0}_{+0.0014}$	8.996	7.250	8.500	0.630	0.551	0.217	16.299	251

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 60...M/ME

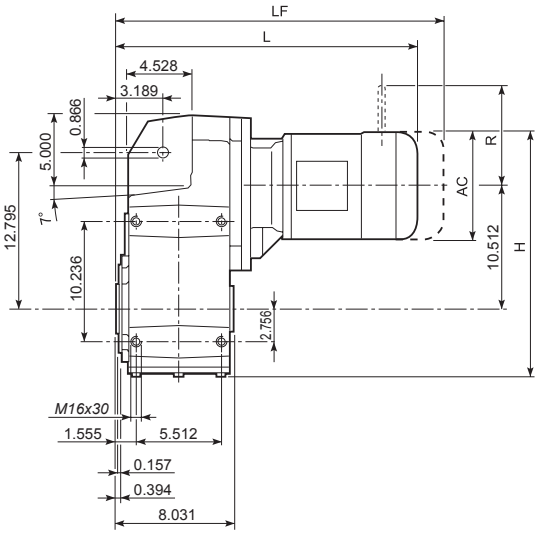


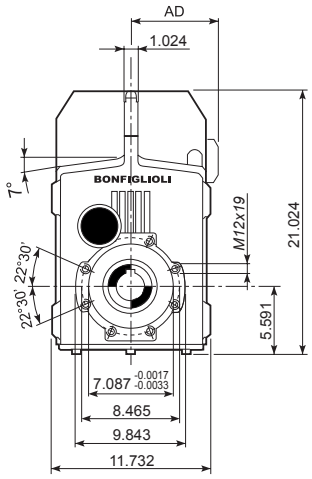


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 60 3	**S2**	**ME2S**	156	487	486.5	119	114	—	—	—	—	—	—
F 60 3	**S3**	**ME3S**	195	506.5	529.5	142	114	—	—	—	—	—	—
F 60 3	**S3**	**ME3L**	195	506.5	561.5	142	124	—	—	—	—	—	—
F 60 3	**S4**	**ME4**	258	538	669.5	193	156	—	—	—	—	—	—
F 60 3	**S4**	**ME4LB**	258	538	704.5	193	164	—	—	—	—	—	—
F 60 3	**S5**	**ME5S**	310	564	756	245	184	—	—	—	—	—	—
F 60 3	**S5**	**ME5L**	310	564	800	245	200	—	—	—	—	—	—
F 60 4	**S1**	**M1**	138	478	528	108	113	589	116	103	135	124	108
F 60 4	**S2**	**ME2S**	156	487	557	119	117	—	—	—	—	—	—
F 60 4	**S3**	**ME3S**	195	506.5	600	142	122	—	—	—	—	—	—
F 60 4	**S3**	**ME3L**	195	506.5	632	142	131	—	—	—	—	—	—
F 60 4	**S4**	**ME4**	258	538	740	193	156	—	—	—	—	—	—
F 60 4	**S4**	**ME4LB**	258	538	775	193	164	—	—	—	—	—	—

F 60...M/ME

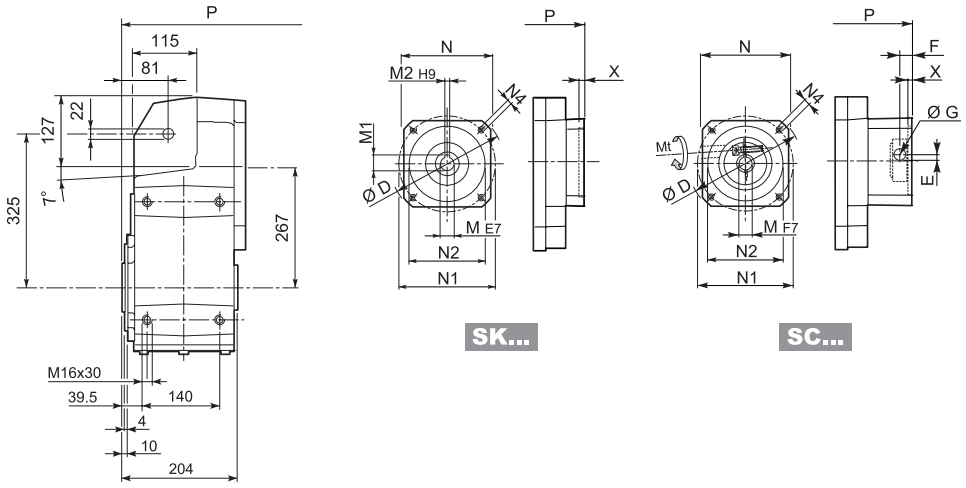




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 60 3	**S2**	**ME2S**	6.142	19.173	19.154	4.685	251	—	—	—	—	—	—
F 60 3	**S3**	**ME3S**	7.677	19.941	20.846	5.591	251	—	—	—	—	—	—
F 60 3	**S3**	**ME3L**	7.677	19.941	22.106	5.591	273	—	—	—	—	—	—
F 60 3	**S4**	**ME4**	10.157	21.181	26.358	7.598	344	—	—	—	—	—	—
F 60 3	**S4**	**ME4LB**	10.157	21.181	27.736	7.598	362	—	—	—	—	—	—
F 60 3	**S5**	**ME5S**	12.205	22.205	29.764	9.646	406	—	—	—	—	—	—
F 60 3	**S5**	**ME5L**	12.205	22.205	31.496	9.646	441	—	—	—	—	—	—
F 60 4	**S1**	**M1**	5.433	18.819	20.787	4.252	249	23.189	256	4.055	5.315	4.882	4.252
F 60 4	**S2**	**ME2S**	6.142	19.173	21.929	4.685	258	—	—	—	—	—	—
F 60 4	**S3**	**ME3S**	7.677	19.941	23.622	5.591	269	—	—	—	—	—	—
F 60 4	**S3**	**ME3L**	7.677	19.941	24.882	5.591	289	—	—	—	—	—	—
F 60 4	**S4**	**ME4**	10.157	21.181	29.134	7.598	344	—	—	—	—	—	—
F 60 4	**S4**	**ME4LB**	258	538	775	193	164	—	—	—	—	—	—

F 60...SK / SC

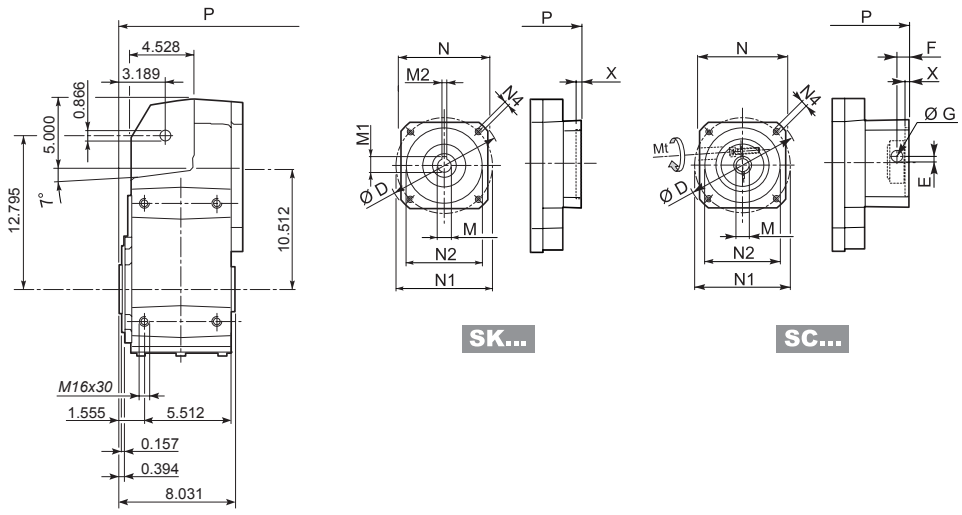


Dimensões em mm

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SK 80B**	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	**SK 80C**	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	**SK 95A**	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95B**	130	19	21.8	6	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 95C**	130	24	27.3	8	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	**SK 110A**	140	19	21.8	6	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	**SK 110B**	140	24	27.3	8	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	**SK 130A**	188	24	27.3	8	142	165	130	M10x20	5	322	108	392.5	112
F 60 3	**SK 130B**	189	32	35.3	10	160	165	130	M10x20	5	368.5	109	—	—
F 60 3	**SK 180A**	240	32	35.3	10	192	215	180	M12x19	5	368.5	109	—	—
F 60 3	**SK 180B**	240	38	41.3	10	192	215	180	M12x19	5	368.5	109	—	—

														2/3x		4x	
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	P	Kg
F 60 4	**SC 80B**	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	—	416	113
F 60 3/4	**SC 80C**	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	345.5	107	416	113
F 60 3/4	**SC 95A**	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 95B**	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 95C**	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	**SC 110A**	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	**SC 110B**	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	**SC 130A**	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	345.5	109	416	115
F 60 3	**SC 130B**	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	390.5	112	—	—
F 60 3	**SC 180A**	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	394.5	112	—	—
F 60 3	**SC 180B**	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	394.5	112	—	—

F 60...SK / SC

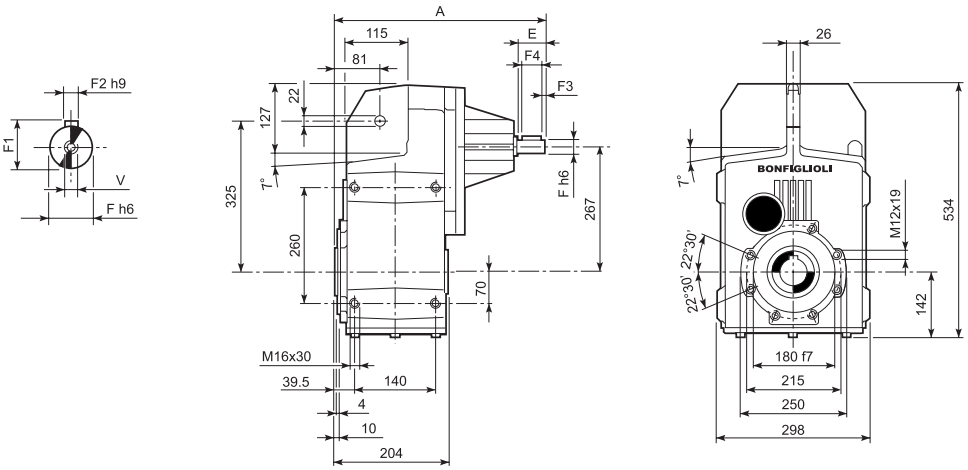


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

											2/3x		4x	
		D	M	M1	M2	N	N1	N2	N4	X	P	lbs	P	lbs
F 60 4	**SK 80B**	4.724	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	—	—	15.453	240
F 60 3/4	**SK 80C**	4.724	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	3.780	3.937	3.150	*M6x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 95A**	5.118	0.551 $^{+0.0020}_{+0.0013}$	0.642	0.197 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 95B**	5.118	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 95C**	5.118	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.016	4.528	3.740	*M8x12*	0.157	12.677	234	15.453	247
F 60 3/4	**SK 110A**	5.512	0.748 $^{+0.0024}_{+0.0016}$	0.858	0.236 $^{+0.0012}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	12.677	234	15.453	247
F 60 3/4	**SK 110B**	5.512	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	4.724	5.118	4.331	*M8x12*	0.197	12.677	234	15.453	247
F 60 3/4	**SK 130A**	7.402	0.945 $^{+0.0024}_{+0.0016}$	1.075	0.315 $^{+0.0014}_{+0}$	5.591	6.496	5.118	*M10x20*	0.197	12.677	238	15.453	247
F 60 3	**SK 130B**	7.441	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	6.299	6.496	5.118	*M10x20*	0.197	14.508	240	—	—
F 60 3	**SK 180A**	9.449	1.260 $^{+0.0030}_{+0.0020}$	1.390	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	14.508	240	—	—
F 60 3	**SK 180B**	9.449	1.496 $^{+0.0030}_{+0.0020}$	1.626	0.394 $^{+0.0014}_{+0}$	7.559	8.465	7.087	*M12x19*	0.197	14.508	240	—	—

														2/3x		4x	
			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs	P	lbs
F 60 4	**SC 80B**	*M6*	15	4.724	0.610	0.571	0.699	0.551 $^{+0.0013}_{+0.0006}$	3.780	3.937	3.150	*M6x12*	0.157	—	—	16.378	249
F 60 3/4	**SC 80C**	*M6*	15	4.724	0.610	0.571	0.699	0.748 $^{+0.0016}_{+0.0008}$	3.780	3.937	3.150	*M6x12*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 95A**	*M6*	15	5.118	0.650	0.591	0.699	0.551 $^{+0.0013}_{+0.0006}$	4.016	4.528	3.740	*M8x16*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 95B**	*M6*	15	5.118	0.650	0.591	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 95C**	*M6*	15	5.118	0.650	0.591	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.016	4.528	3.740	*M8x16*	0.157	13.602	236	16.378	249
F 60 3/4	**SC 110A**	*M6*	15	5.512	0.650	0.630	0.699	0.748 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	13.602	238	16.378	249
F 60 3/4	**SC 110B**	*M6*	15	5.512	0.650	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	4.724	5.118	4.331	*M8x16*	0.197	13.602	238	16.378	249
F 60 3/4	**SC 130A**	*M6*	15	7.402	0.748	0.630	0.699	0.945 $^{+0.0016}_{+0.0008}$	5.591	6.496	5.118	*M10x20*	0.197	13.602	240	16.378	254
F 60 3	**SC 130B**	*M8*	36	7.441	0.787	0.669	0.699	1.260 $^{+0.0020}_{+0.0010}$	6.299	6.496	5.118	*M10x20*	0.197	15.374	247	—	—
F 60 3	**SC 180A**	*M8*	36	9.449	0.787	0.689	0.699	1.260 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	15.531	247	—	—
F 60 3	**SC 180B**	*M8*	36	9.449	0.787	0.689	0.699	1.496 $^{+0.0020}_{+0.0010}$	7.559	8.465	7.087	*M12x24*	0.197	15.531	247	—	—

F 60...HS

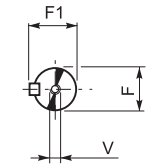


Dimensões em mm

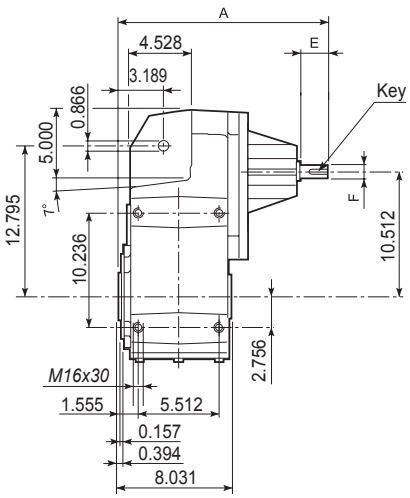
		A	E	F	F1	F2	F3	F4	V	Kg
F 60 3	**HS**	419	60	28	31	8	5.0	50	M10x22	108
F 60 4		462.5	50	24	27	8	2.5	45	M8x19	105

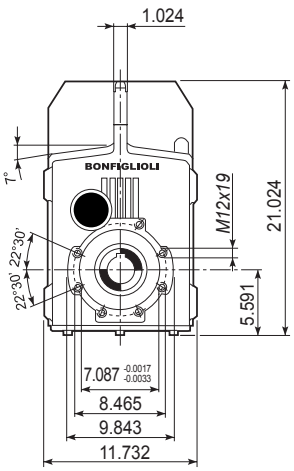
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 60...NHS



INPUT
(Inch Series)





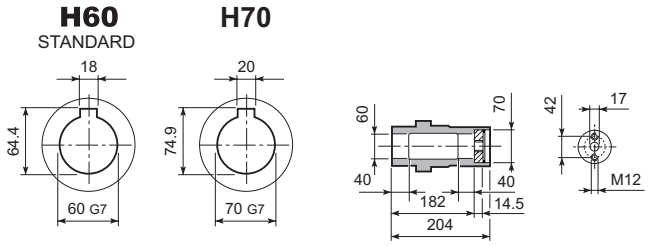
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

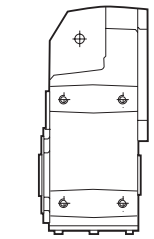
		A	E	F	F1	V	Key	lbs
F 60 3	**NHS**	16.496	2.362	1.125 $^{+0}_{-0.0005}$	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	238
F 60 4		18.209	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	231

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

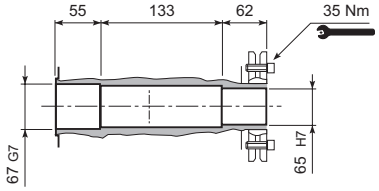
F 60

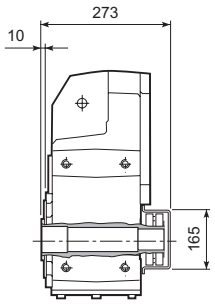
F 60...H



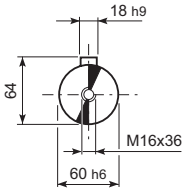


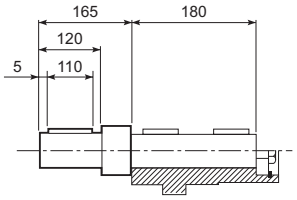
F 60...S

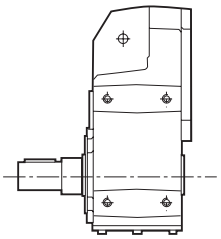




F 60...R

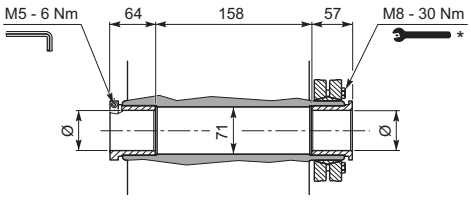


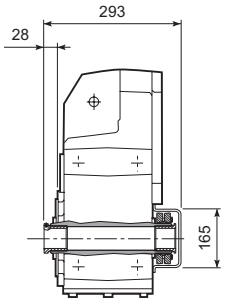




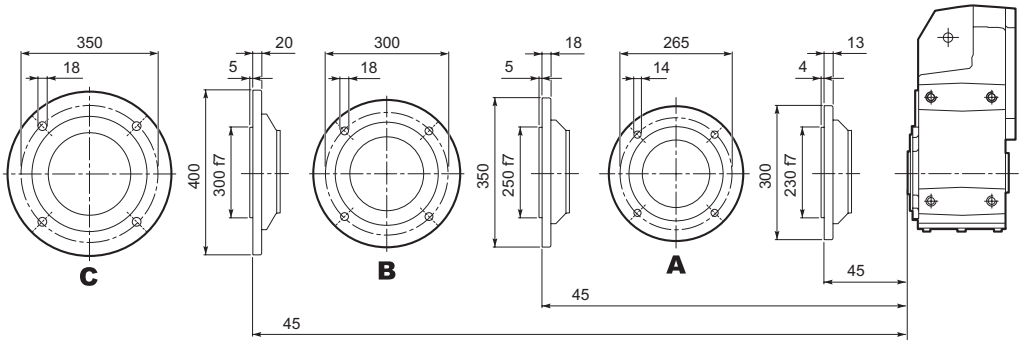
F 60...QF

	Ø
QF60	60
QF65	65
QF70	70





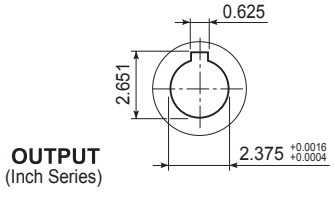
F 60...F...

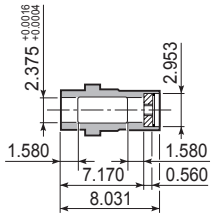


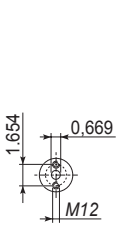
* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

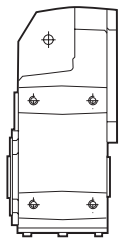
F 60

F 60...NH

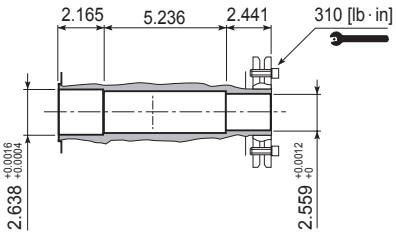


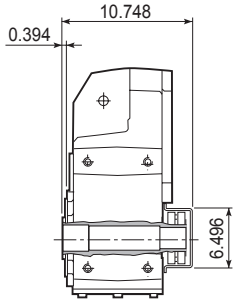




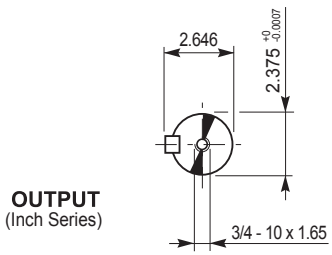


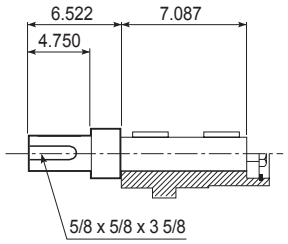
F 60...S

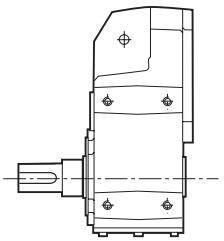




F 60...NR

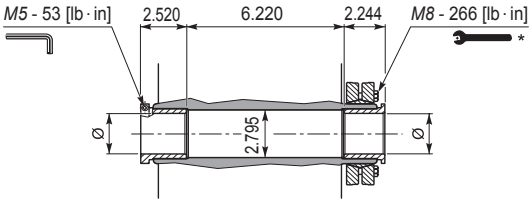


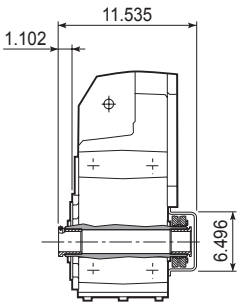




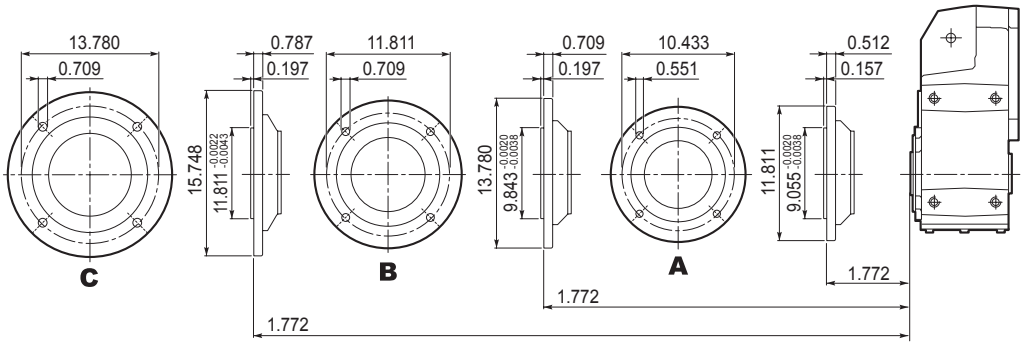
F 60...NQF

	Ø
NQF2-3/8	2.375
NQF2-7/16	2.438
NQF2-3/4	2.750



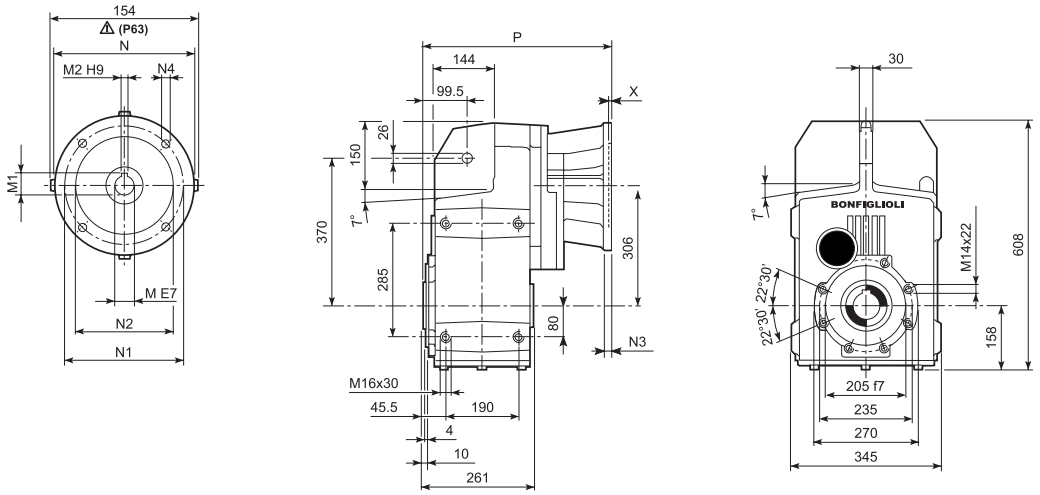


F 60...F...



* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

F 70...P(IEC)

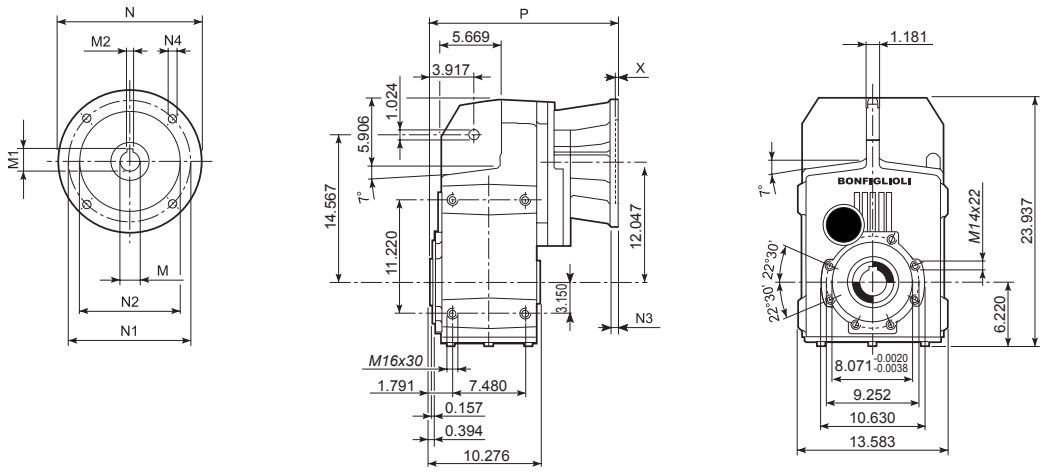


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 70 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	387.5	167
F 70 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	387.5	167
F 70 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	**P132**	38	41.3	10	300	265	230	16	14	5	434	173
F 70 3	**P160**	42	45.3	12	350	300	250	23	18	6	489.5	185
F 70 3	**P180**	48	51.8	14	350	300	250	23	18	6	489.5	185
F 70 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	514.5	206
F 70 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	419	168
F 70 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	419	168
F 70 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	438.5	170
F 70 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	438.5	170
F 70 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	**P132**	38	41.3	10	300	265	230	16	14	5	482	176

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

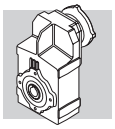
F 70...N(NEMA Input)



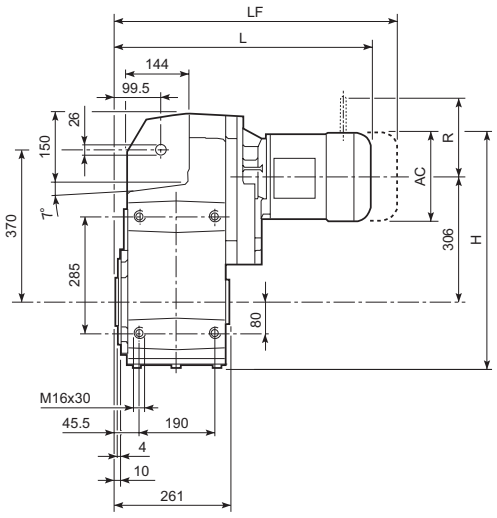
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

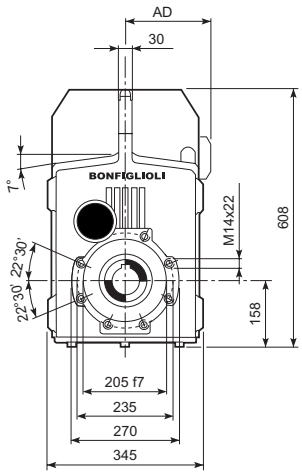
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 70 3	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	15.453	368
F 70 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	16.024	377
F 70 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	17.264	381
F 70 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	20.256	438
F 70 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	20.453	441
F 70 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	17.283	370
F 70 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	17.283	375
F 70 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	18.031	384
F 70 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	19.154	388

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



F 70...M/ME

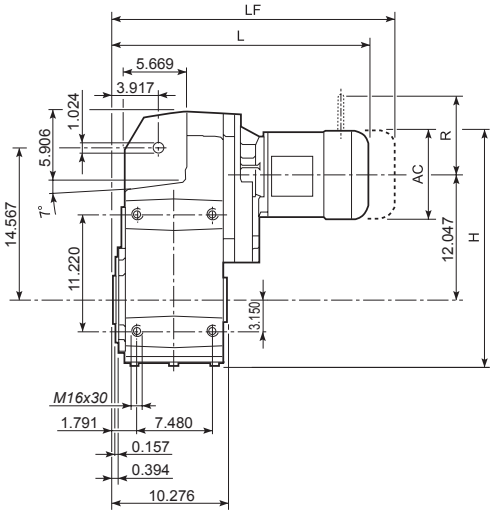


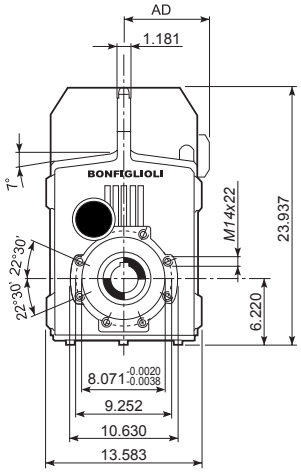


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 70 3	**S2**	**ME2S**	156	542	552	119	173	—	—	—	—	—	—
F 70 3	**S3**	**ME3S**	195	561.5	595	142	178	—	—	—	—	—	—
F 70 3	**S3**	**ME3L**	195	561.5	627	142	188	—	—	—	—	—	—
F 70 3	**S4**	**ME4**	258	593	735	193	220	—	—	—	—	—	—
F 70 3	**S4**	**ME4LB**	258	593	770	193	228	—	—	—	—	—	—
F 70 3	**S5**	**ME5S**	310	619	821.5	245	248	—	—	—	—	—	—
F 70 3	**S5**	**ME5L**	310	619	865.5	245	264	—	—	—	—	—	—
F 70 4	**S1**	**M1**	138	533	574	108	173	635	176	103	135	124	108
F 70 4	**S2**	**ME2S**	156	542	603	119	177	—	—	—	—	—	—
F 70 4	**S3**	**ME3S**	195	561.5	646	142	181	—	—	—	—	—	—
F 70 4	**S3**	**ME3L**	195	561.5	678	142	191	—	—	—	—	—	—
F 70 4	**S4**	**ME4**	258	593	786	193	223	—	—	—	—	—	—
F 70 4	**S4**	**ME4LB**	258	593	821	193	231	—	—	—	—	—	—

F 70...M/ME

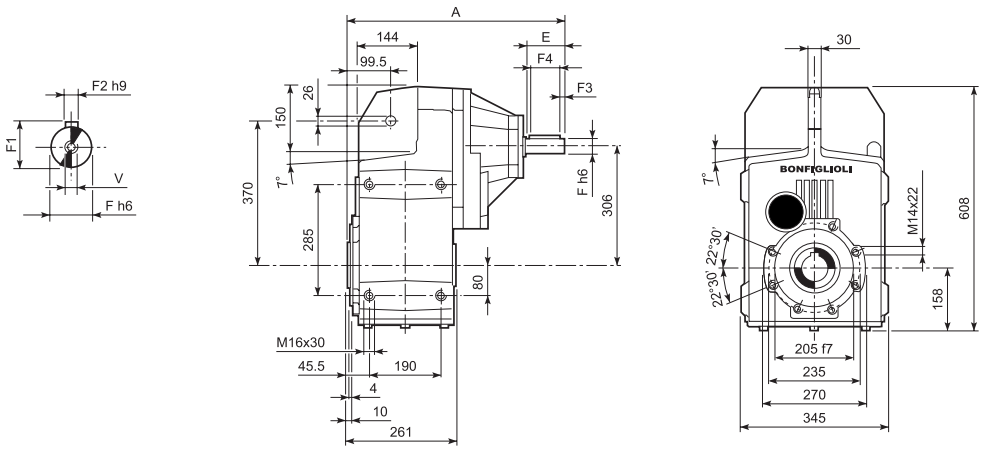




Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 70 3	**S2**	**ME2S**	6.142	21.339	21.732	4.685	381	—	—	—	—	—	—
F 70 3	**S3**	**ME3S**	7.677	22.106	23.425	5.591	392	—	—	—	—	—	—
F 70 3	**S3**	**ME3L**	7.677	22.106	24.685	5.591	414	—	—	—	—	—	—
F 70 3	**S4**	**ME4**	10.157	23.346	28.937	7.598	485	—	—	—	—	—	—
F 70 3	**S4**	**ME4LB**	10.157	23.346	30.315	7.598	503	—	—	—	—	—	—
F 70 3	**S5**	**ME5SA**	12.205	24.370	32.343	9.646	547	—	—	—	—	—	—
F 70 3	**S5**	**ME5LA**	12.205	24.370	34.075	9.646	582	—	—	—	—	—	—
F 70 4	**S1**	**M1**	5.433	20.984	22.598	4.252	381	25.000	388	4.055	5.315	4.882	4.252
F 70 4	**S2**	**ME2S**	6.142	21.339	23.740	4.685	390	—	—	—	—	—	—
F 70 4	**S3**	**ME3S**	7.677	22.106	25.433	5.591	399	—	—	—	—	—	—
F 70 4	**S3**	**ME3L**	7.677	22.106	26.693	5.591	421	—	—	—	—	—	—
F 70 4	**S4**	**ME4**	10.157	23.346	30.945	7.598	492	—	—	—	—	—	—
F 70 4	**S4**	**ME4LB**	10.157	23.346	32.323	7.598	509	—	—	—	—	—	—

F 70...HS

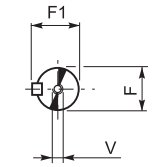


Dimensões em mm

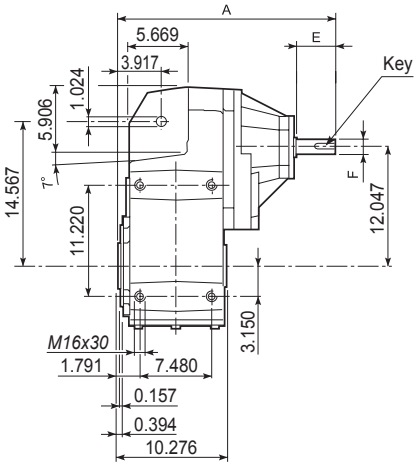
		A	E	F	F1	F2	F3	F4	V	Kg
F 70 3	**HS**	572	110	42	45	12	10	90	M12x28	186
F 70 4		508.5	50	24	27	8	2.5	45	M8x19	174

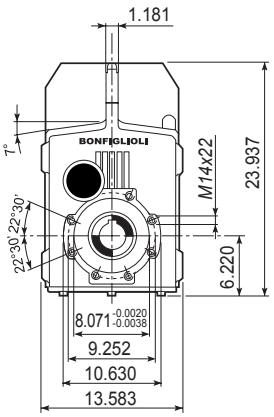
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 70...NHS



INPUT
(Inch Series)





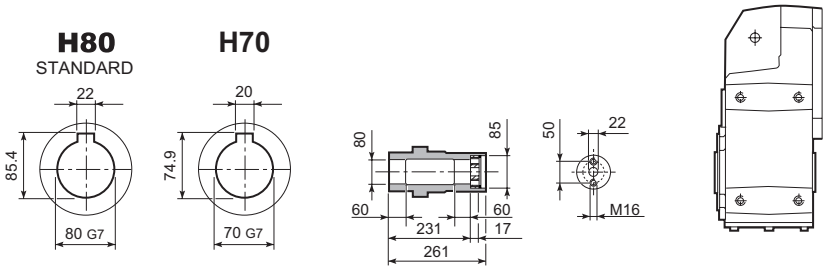
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	E	F	F1	V	Key	lbs
F 70 3	**NHS**	22.439	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	410
F 70 4		20.020	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	384

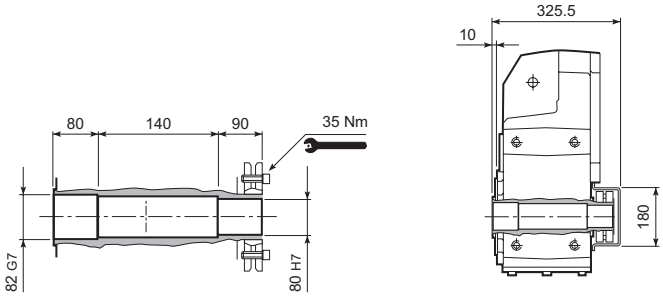
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

F 70

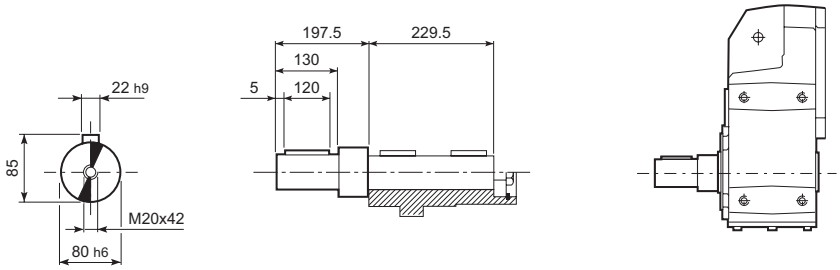
F 70...H



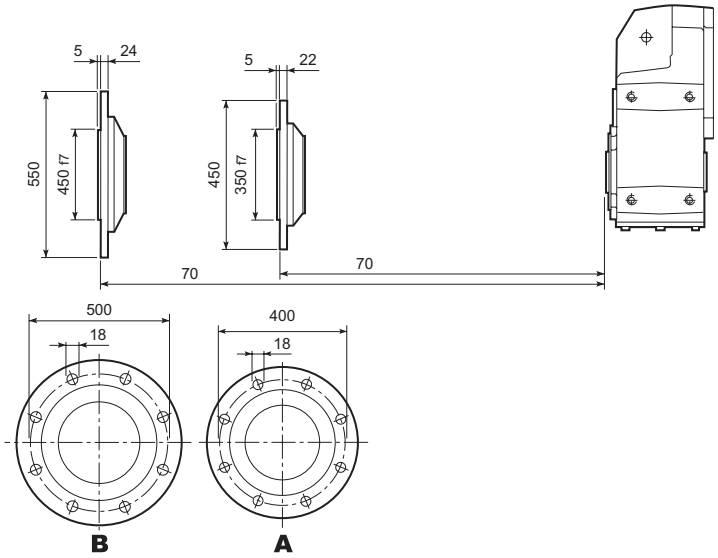
F 70...S



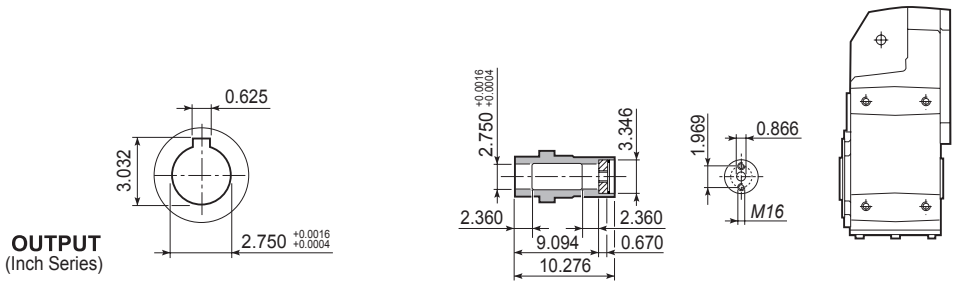
F 70...R



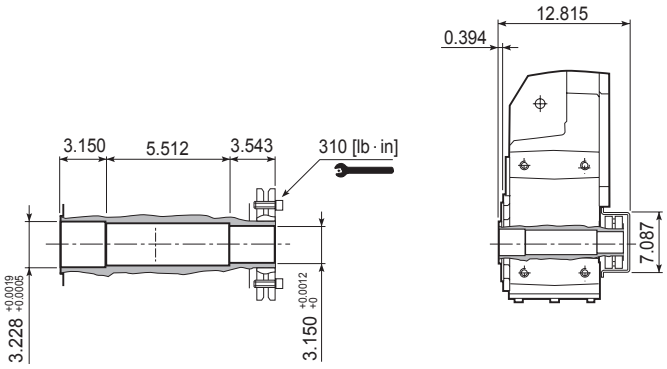
F 70...F...



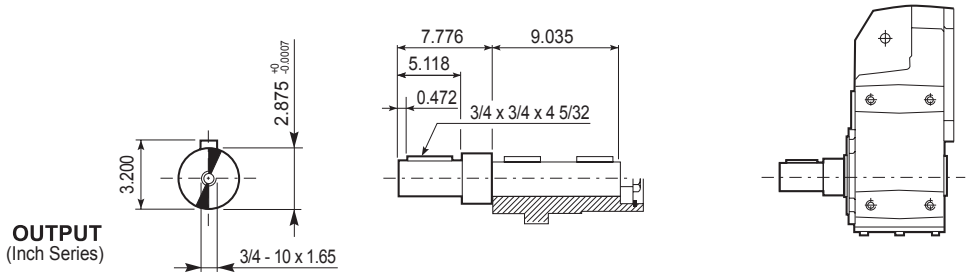
F 70...NH



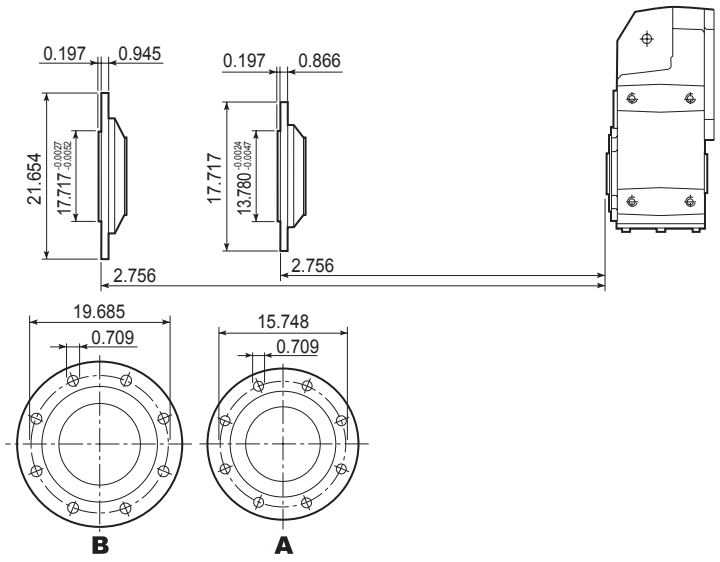
F 70...S

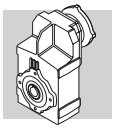


F 70...NR

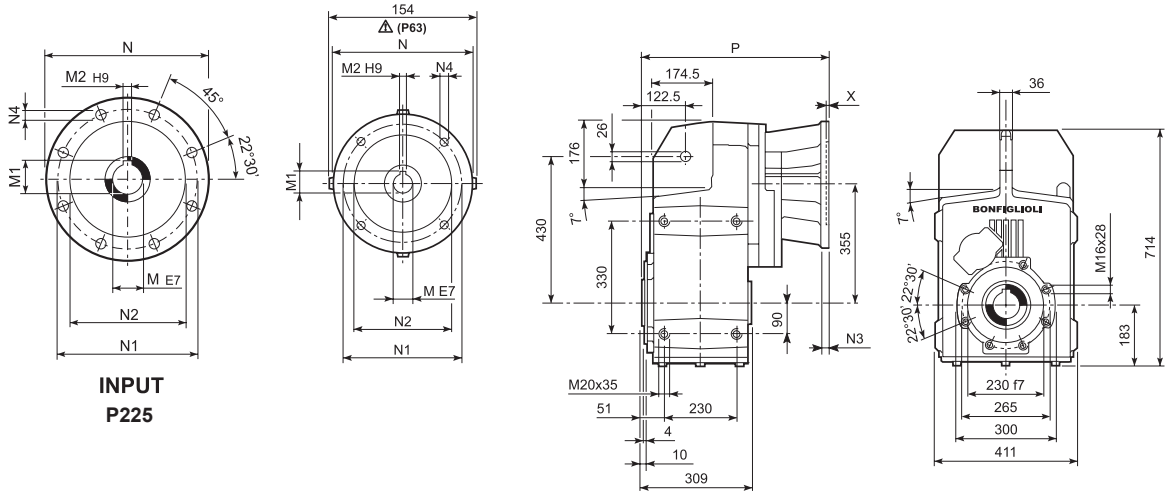


F 70...F...





F 80...P(IEC)

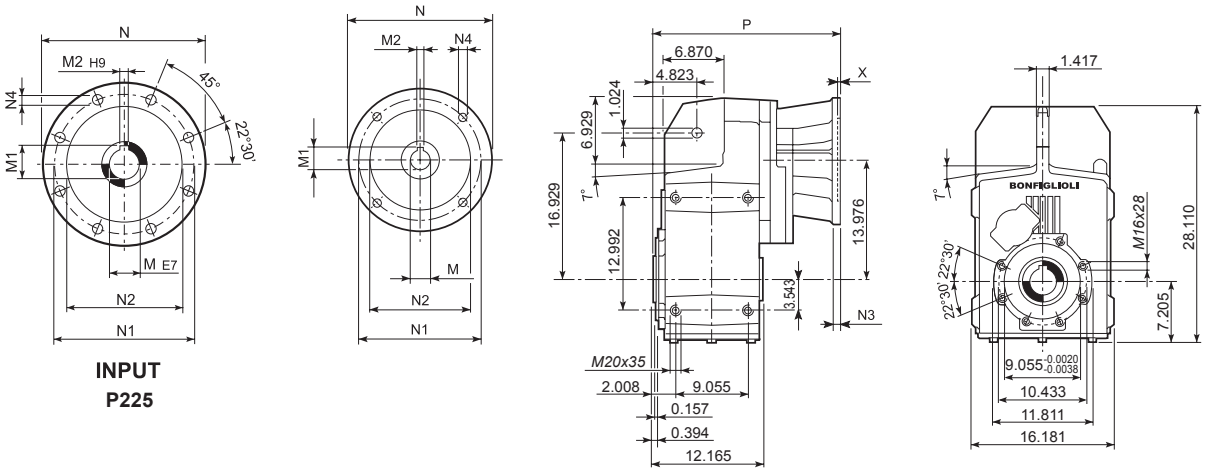


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 80 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	445.5	255
F 80 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	445.5	255
F 80 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	**P132**	38	41.3	10	300	265	230	16	14	5	492	261
F 80 3	**P160**	42	45.3	12	350	300	250	23	18	6	547.5	276
F 80 3	**P180**	48	51.8	14	350	300	250	23	18	6	547.5	276
F 80 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	572.5	298
F 80 3	**P225**	60	64.4	18	450	400	350	25	18	6	618	298
F 80 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	489	258
F 80 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	489	258
F 80 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	508.5	260
F 80 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	508.5	260
F 80 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	**P132**	38	41.3	10	300	265	230	16	14	5	552	266

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 80...N(NEMA Input)

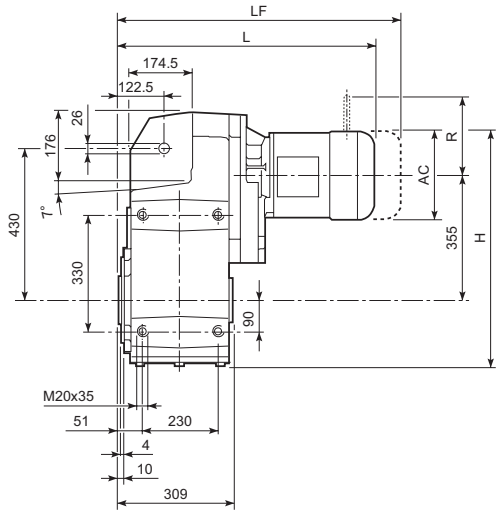


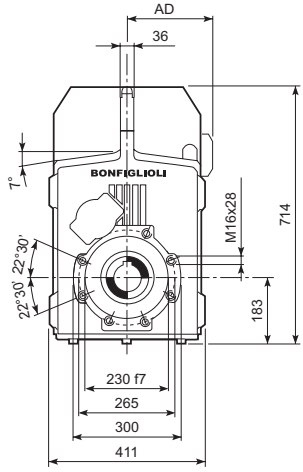
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 80 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	18.307	571
F 80 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	19.547	575
F 80 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	22.539	638
F 80 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	22.736	642
F 80 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0 +0.0017	17.677	11.000	12.500	—	0.669	0.217	25.591	723
F 80 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	20.039	569
F 80 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	20.039	573
F 80 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	20.787	582
F 80 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	21.909	586

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 80...M/ME

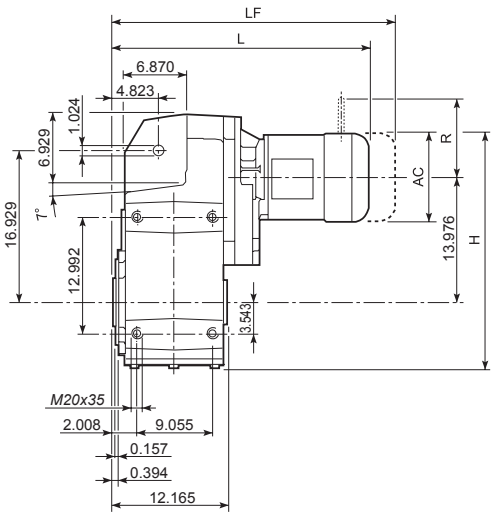


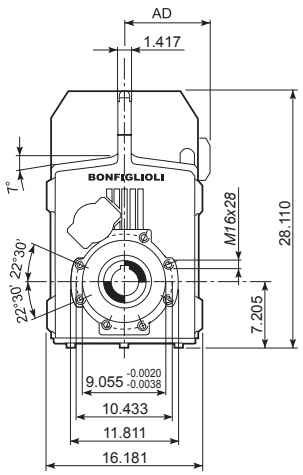


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 80 3	**S3**	**ME3S**	195	635.5	653	142	266	—	—	—	—	—	—
F 80 3	**S3**	**ME3L**	195	635.5	685	142	275	—	—	—	—	—	—
F 80 3	**S4**	**ME4**	258	667	793	193	307	—	—	—	—	—	—
F 80 3	**S4**	**ME4LB**	258	667	828	193	315	—	—	—	—	—	—
F 80 3	**S5**	**ME5S**	310	693	879.5	245	335	—	—	—	—	—	—
F 80 3	**S5**	**ME5L**	310	693	923.5	245	351	—	—	—	—	—	—
F 80 4	**S1**	**M1**	138	607	644	108	262	705	265	103	135	124	108
F 80 4	**S2**	**M2S**	156	616	673	119	266	743	269	129	146	134	119
F 80 4	**S2**	**ME2S**	156	616	673	119	266	—	—	—	—	—	—
F 80 4	**S3**	**ME3S**	195	635.5	716	142	271	—	—	—	—	—	—
F 80 4	**S3**	**ME3L**	195	635.5	748	142	280	—	—	—	—	—	—
F 80 4	**S4**	**ME4**	258	667	856	193	312	—	—	—	—	—	—
F 80 4	**S4**	**ME4LB**	258	667	891	193	320	—	—	—	—	—	—

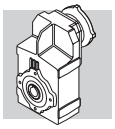
F 80...M/ME



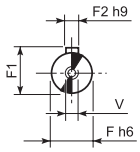


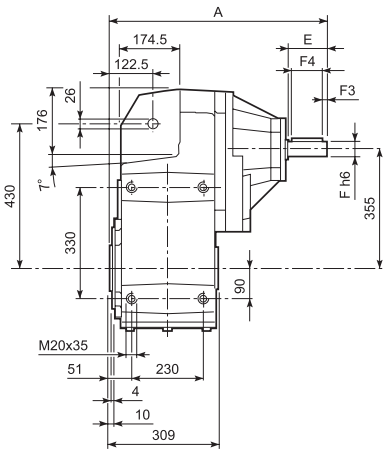
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

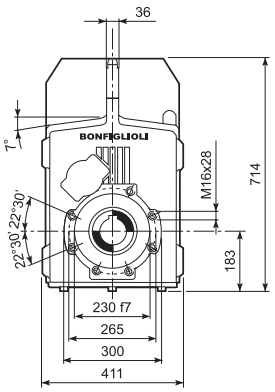
								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 80 3	**S3**	**ME3S**	7.677	25.020	25.709	5.591	586	—	—	—	—	—	—
F 80 3	**S3**	**ME3L**	7.677	25.020	26.969	5.591	606	—	—	—	—	—	—
F 80 3	**S4**	**ME4**	10.157	26.260	31.220	7.598	677	—	—	—	—	—	—
F 80 3	**S4**	**ME4LB**	10.157	26.260	32.598	7.598	694	—	—	—	—	—	—
F 80 3	**S5**	**ME5S**	12.205	27.283	34.626	9.646	739	—	—	—	—	—	—
F 80 3	**S5**	**ME5L**	12.205	27.283	36.358	9.646	774	—	—	—	—	—	—
F 80 4	**S1**	**M1**	5.433	23.898	25.354	4.252	578	27.756	584	4.055	5.315	4.882	4.252
F 80 4	**S2**	**M2S**	6.142	24.252	26.496	4.685	586	29.252	593	5.079	5.748	5.276	4.685
F 80 4	**S2**	**ME2S**	6.142	24.252	26.496	4.685	586	—	—	—	—	—	—
F 80 4	**S3**	**ME3S**	7.677	25.020	28.189	5.591	597	—	—	—	—	—	—
F 80 4	**S3**	**ME3L**	7.677	25.020	29.449	5.591	617	—	—	—	—	—	—
F 80 4	**S4**	**ME4**	10.157	26.260	33.701	7.598	688	—	—	—	—	—	—
F 80 4	**S4**	**ME4LB**	10.157	26.260	35.079	7.598	705	—	—	—	—	—	—



F 80...HS





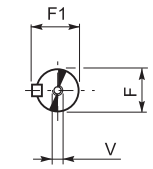


Dimensões em mm

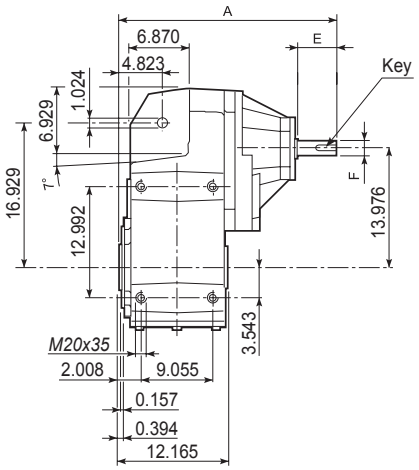
		A	E	F	F1	F2	F3	F4	V	Kg
F 80 3	**HS**	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

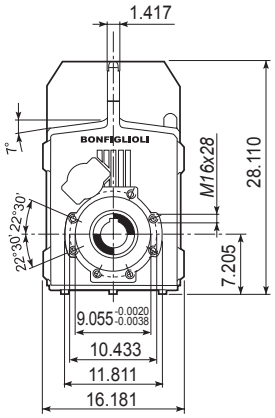
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 80...NHS



INPUT
(Inch Series)





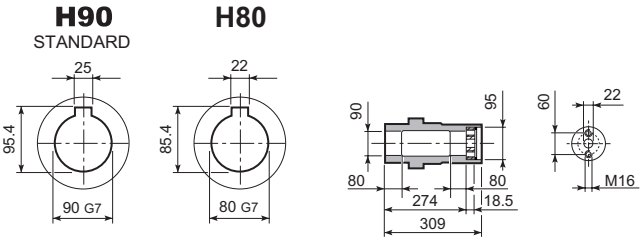
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	E	F	F1	V	Key	lbs
F 80 3	**NHS**	24.722	4.25	1.625 $^{+0}_{-0.0006}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	602
F 80 4		22.657	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	580

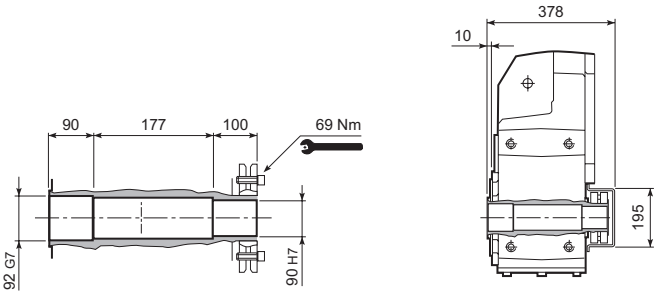
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

F 80

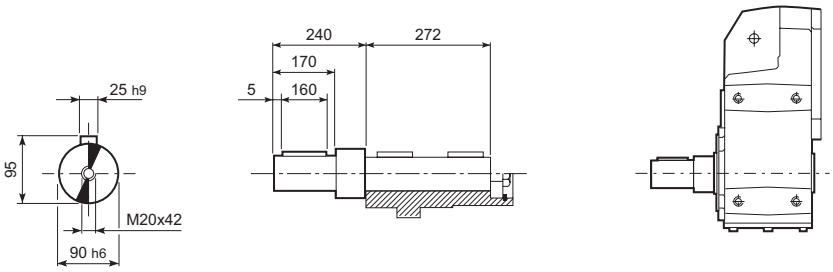
F 80...H



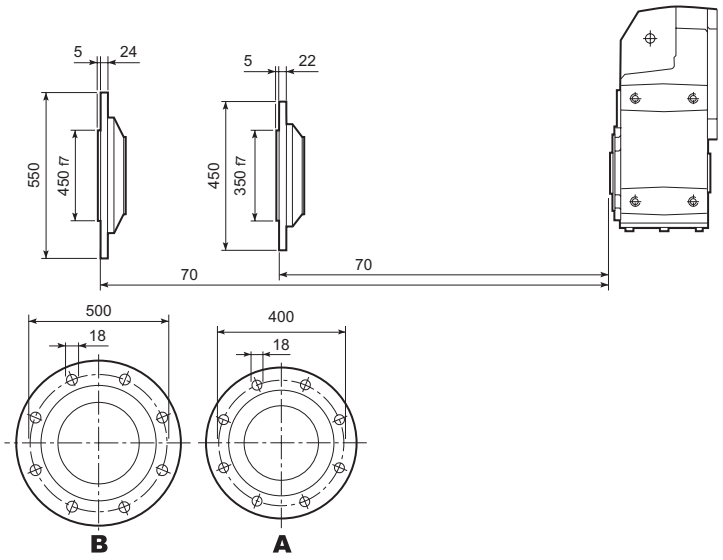
F 80...S



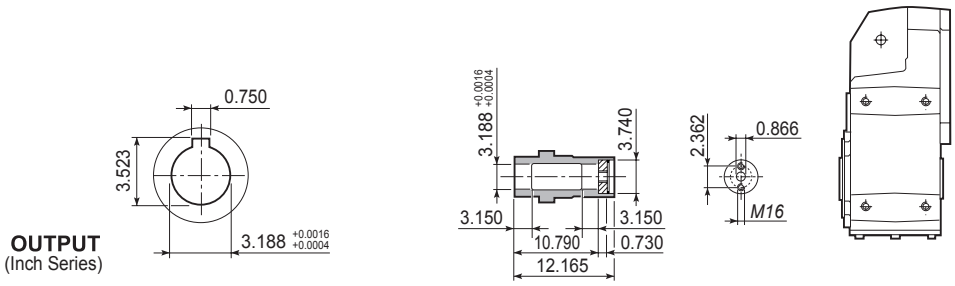
F 80...R



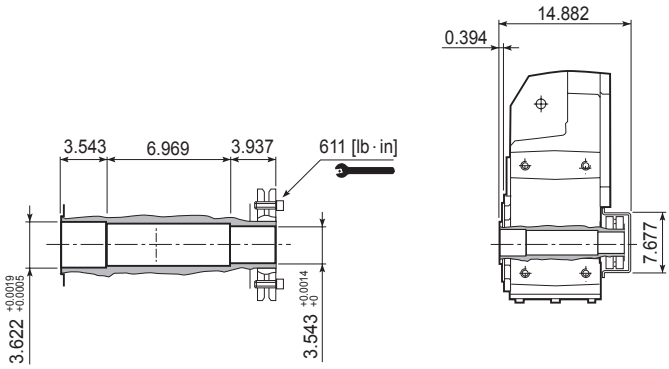
F 80...F...



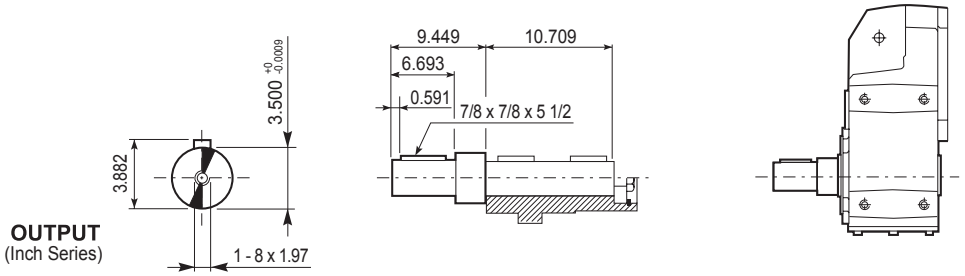
F 80...NH



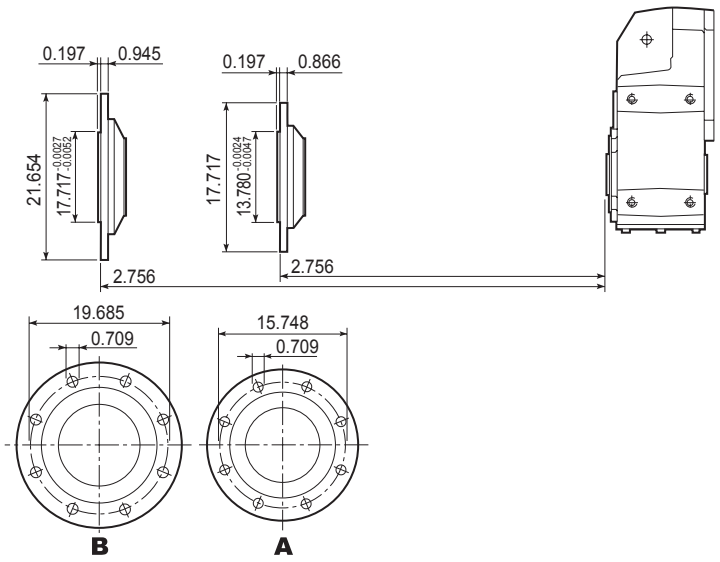
F 80...S



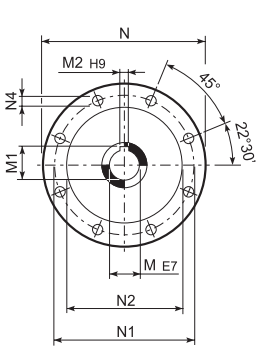
F 80...NR



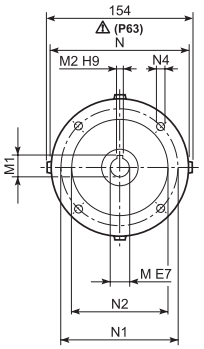
F 80...F...

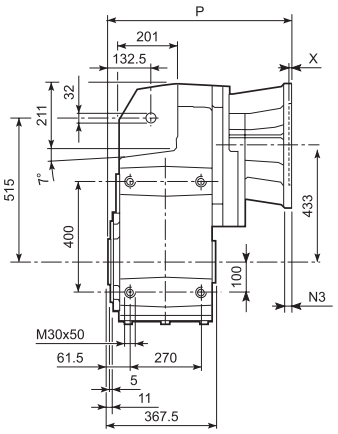


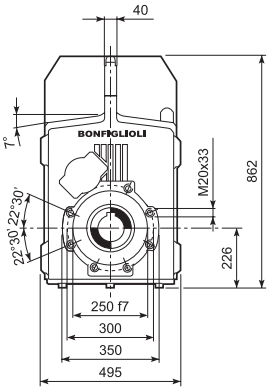
F 90...P(IEC)



INPUT
P225...P250





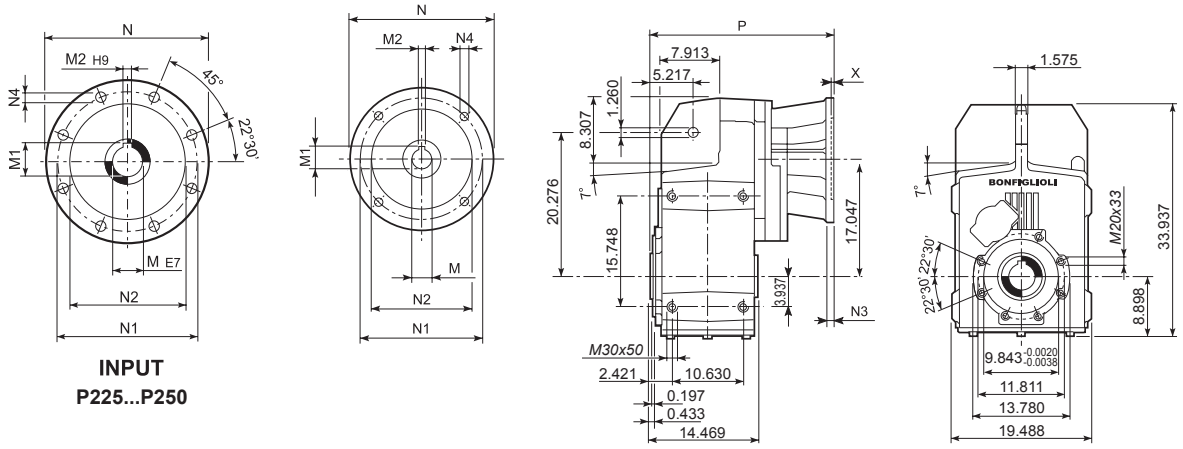


Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 90 3	**P80**	19	21.8	6	200	165	130	—	M10x12	4	520.5	442
F 90 3	**P90**	24	27.3	8	200	165	130	—	M10x12	4	520.5	442
F 90 3	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	**P132**	38	41.3	10	300	265	230	16	14	5	567	449
F 90 3	**P160**	42	45.3	12	350	300	250	23	18	6	622.5	463
F 90 3	**P180**	48	51.8	14	350	300	250	23	18	6	622.5	463
F 90 3	**P200**	55	59.3	16	400	350	300	—	M16x25	7	647.5	485
F 90 3	**P225**	60	64.4	18	450	400	350	30	18	6	693	485
F 90 3	**P250**	65	69.4	18	550	500	450	30	18	6	723	507
F 90 4	**P63**	11	12.8	4	140	115	95	—	M8x19	4	584	448
F 90 4	**P71**	14	16.3	5	160	130	110	—	M8x16	4.5	584	448
F 90 4	**P80**	19	21.8	6	200	165	130	—	M10x12	4	603.5	450
F 90 4	**P90**	24	27.3	8	200	165	130	—	M10x12	4	603.5	450
F 90 4	**P100**	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	**P112**	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	**P132**	38	41.3	10	300	265	230	16	14	5	650	455
F 90 4	**P160**	42	45.3	12	350	300	250	23	18	5.5	700.5	461
F 90 4	**P180**	48	51.8	14	350	300	250	23	18	5.5	700.5	461

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

F 90...N(NEMA Input)

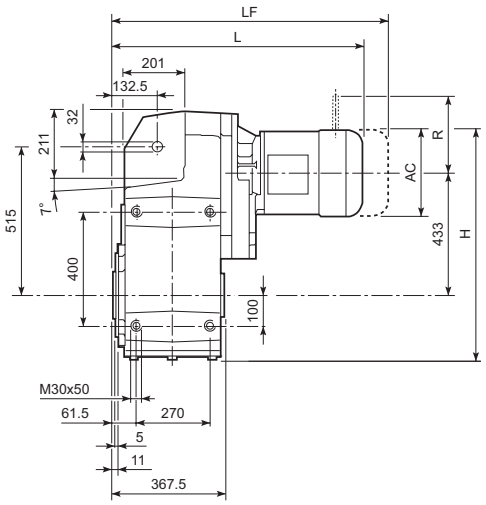


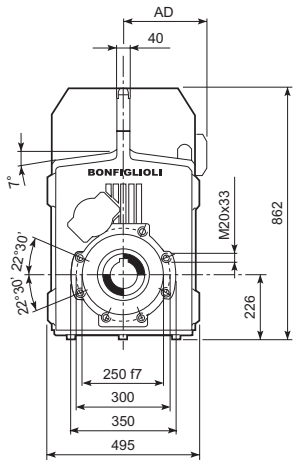
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 90 3	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	21.260	983
F 90 3	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	22.500	990
F 90 3	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	25.492	1050
F 90 3	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	25.689	1054
F 90 3	**N320TC**	2.125 +0.0035 +0.0024	2.350	0.500 +0 +0.0017	17.677	11.000	12.500	—	0.669	0.217	28.543	1135
F 90 4	**N56C**	0.625 +0.0020 +0.0013	0.710	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	23.780	988
F 90 4	**N140TC**	0.875 +0.0024 +0.0016	0.964	0.188 +0 +0.0012	6.496	5.875	4.500	0.472	0.394	0.197	23.780	992
F 90 4	**N180TC**	1.125 +0.0024 +0.0016	1.241	0.250 +0 +0.0014	8.996	7.250	8.500	0.630	0.551	0.217	24.528	1001
F 90 4	**N210TC**	1.375 +0.0030 +0.0020	1.518	0.312 +0 +0.0014	8.996	7.250	8.500	0.531	0.531	0.217	25.768	1003
F 90 4	**N250TC**	1.625 +0.0030 +0.0020	1.796	0.375 +0 +0.0014	13.780	7.250	8.500	—	0.551	0.217	28.563	1046
F 90 4	**N280TC**	1.875 +0.0030 +0.0020	2.102	0.500 +0 +0.0017	13.740	10.500	9.000	—	0.551	0.217	28.760	1050

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

F 90...M/ME

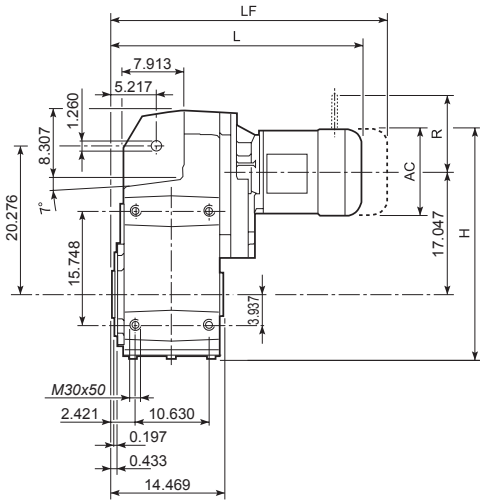


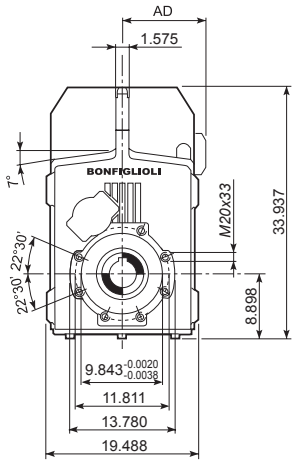


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD
F 90 3	**S3**	**ME3S**	195	756	728	142	453	—	—	—	—	—	—
F 90 3	**S3**	**ME3L**	195	756	760	142	462	—	—	—	—	—	—
F 90 3	**S4**	**ME4**	258	787.5	868	193	494	—	—	—	—	—	—
F 90 3	**S5**	**ME5L**	310	813.5	998.5	245	538	—	—	—	—	—	—
F 90 4	**S2**	**M2S**	156	736.5	768	119	456	838	460	129	146	134	119
F 90 4	**S2**	**ME2S**	156	736.5	768	119	456	—	—	—	—	—	—
F 90 4	**S3**	**ME3S**	195	756	811	142	460	—	—	—	—	—	—
F 90 4	**S3**	**ME3L**	195	756	843	142	470	—	—	—	—	—	—
F 90 4	**S4**	**ME4**	258	787.5	951	193	502	—	—	—	—	—	—
F 90 4	**S4**	**ME4LB**	258	787.5	986	193	510	—	—	—	—	—	—

F 90...M/ME

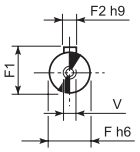


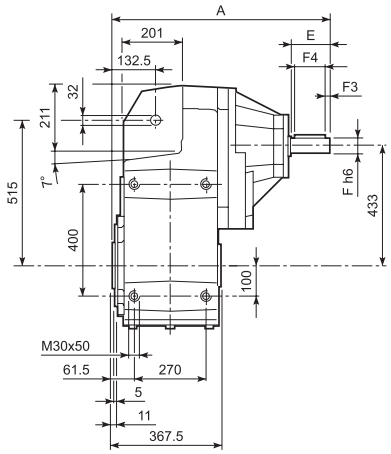


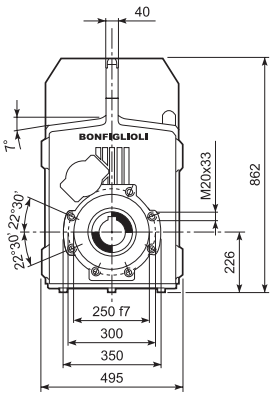
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 90 3	**S3**	**ME3S**	7.677	29.764	28.661	5.591	999	—	—	—	—	—	—
F 90 3	**S3**	**ME3L**	7.677	29.764	29.921	5.591	1019	—	—	—	—	—	—
F 90 3	**S4**	**ME4**	10.157	31.004	34.173	7.598	1089	—	—	—	—	—	—
F 90 3	**S5**	**ME5L**	12.205	32.028	39.311	9.646	1186	—	—	—	—	—	—
F 90 4	**S2**	**M2S**	6.142	28.996	30.236	4.685	1005	32.992	1014	5.079	5.748	5.276	4.685
F 90 4	**S2**	**ME2S**	6.142	28.996	30.236	4.685	1005	—	—	—	—	—	—
F 90 4	**S3**	**ME3S**	7.677	29.764	31.929	5.591	1014	—	—	—	—	—	—
F 90 4	**S3**	**ME3L**	7.677	29.764	33.189	5.591	1036	—	—	—	—	—	—
F 90 4	**S4**	**ME4**	10.157	31.004	37.441	7.598	1107	—	—	—	—	—	—
F 90 4	**S4**	**ME4LB**	10.157	31.004	38.819	7.598	1124	—	—	—	—	—	—

F 90...HS





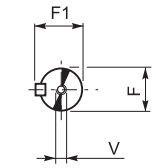


Dimensões em mm

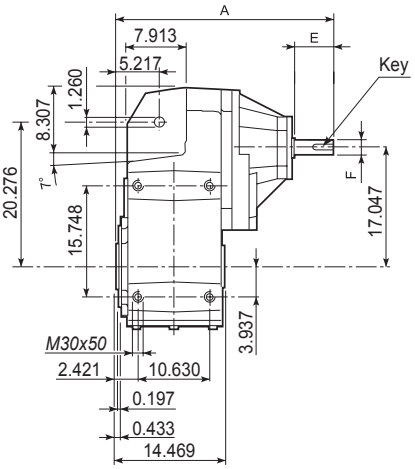
		A	E	F	F1	F2	F3	F4	V	Kg
F 90 3	**HS**	806.5	140	60	64	18	10	120	M16x36	485
F 90 4		673.5	50	24	27	8	2.5	45	M8x19	452

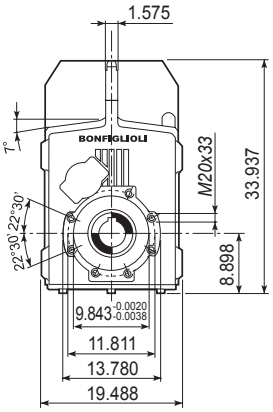
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

F 90...NHS



INPUT
(Inch Series)





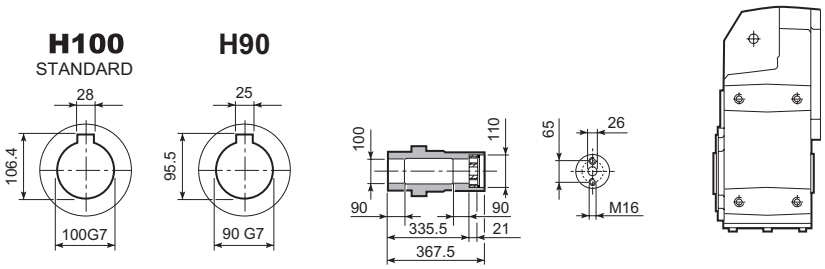
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

		A	E	F	F1	V	Key	lbs
F 90 3	**NHS**	31.240	5	2.125 $^{+0}_{-0.0007}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	1069
F 90 4		26.516	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	996

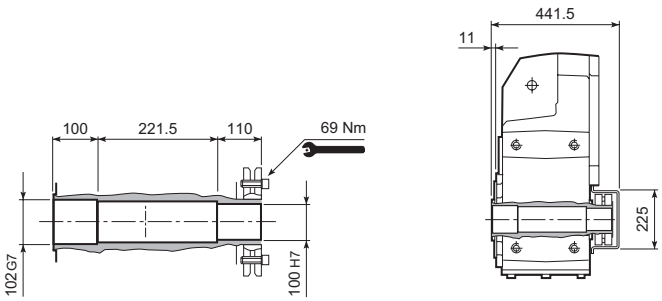
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

F 90

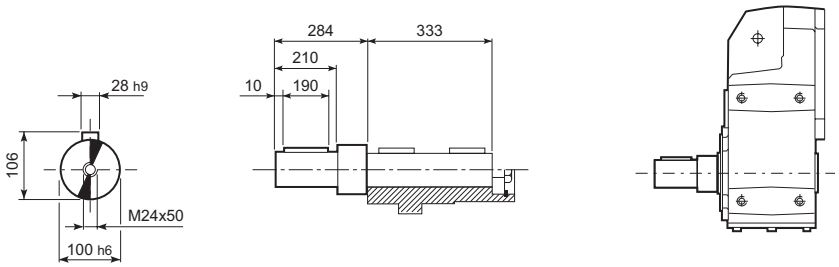
F 90...H



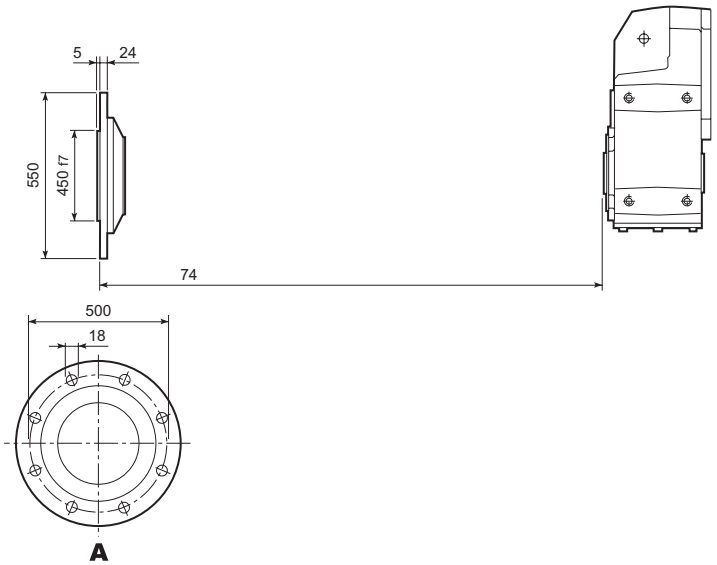
F 90...S



F 90...R

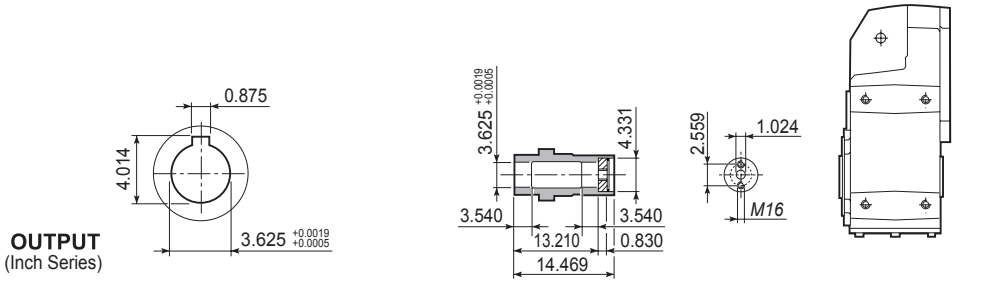


F 90...F...

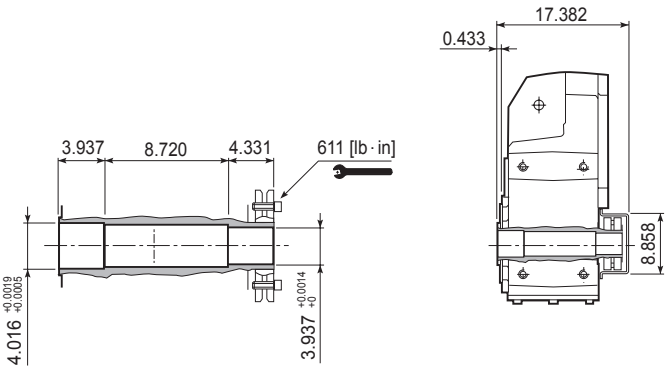


F 90

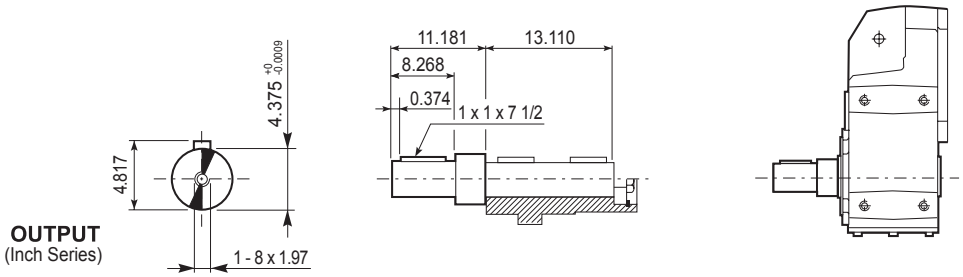
F 90...NH



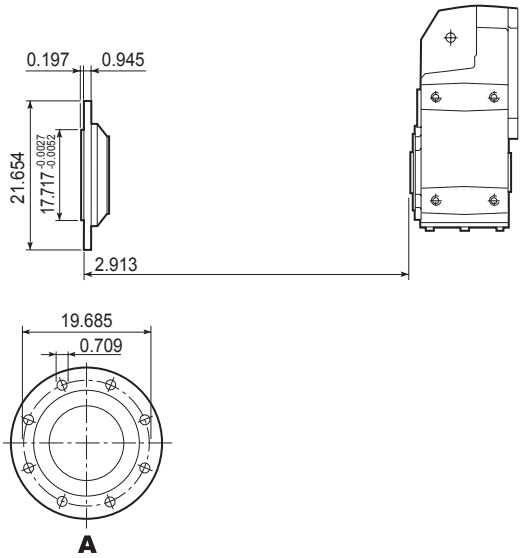
F 90...S



F 90...NR



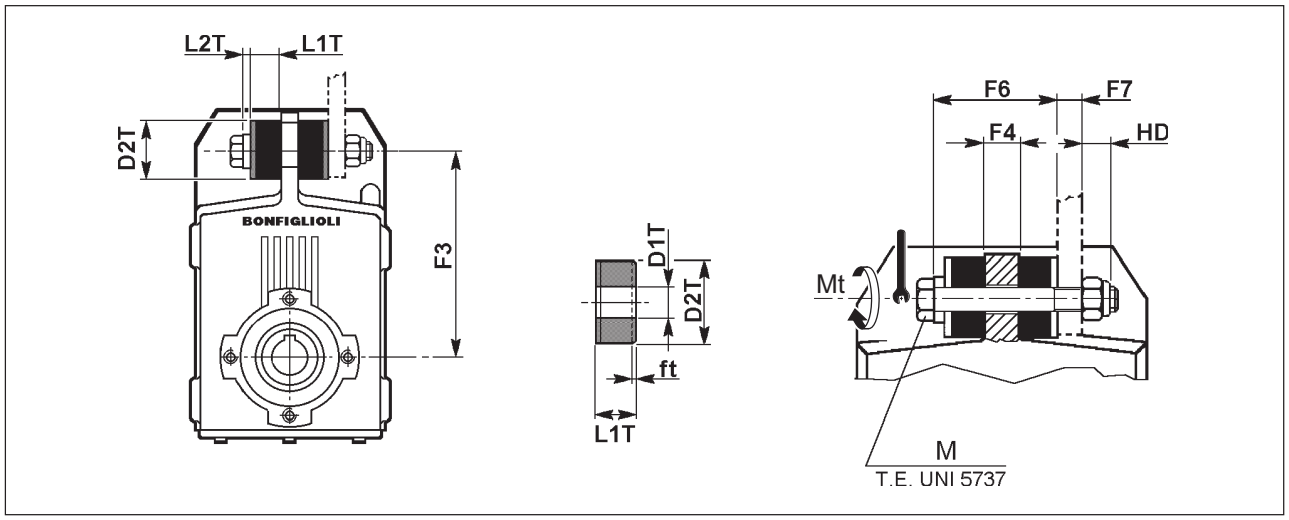
F 90...F...



60 ACESSÓRIOS

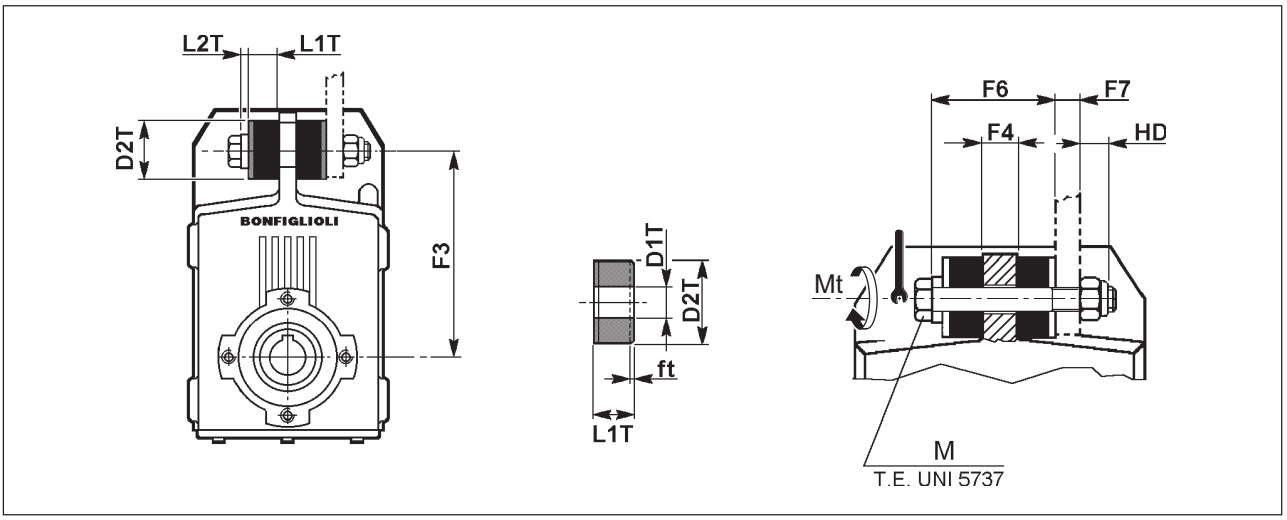
Kit antivibração

Os redutores da série F series são fornecidos com um kit antivibração, a pedido do cliente.
O kit inclui todos os componentes necessários para montagem do eixo (o braço de torque está fora do escopo). As dimensões são apresentadas na tabela abaixo.



Dimensões em mm

	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm] []	ft
F 10	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 20	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 25	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 31	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 41	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
F 51	278	20	90	47	23	30	10	21	60	M20x160	50	3.0
F 60	325	26	96	41	23	30	10	21	60	M20x160	50	4.0
F 70	370	30	122	50	28	40	12	25	80	M24x200	100	4.0
F 80	430	36	128	44	28	40	12	25	80	M24x200	100	6.0
F 90	515	40	175	40	33.2	60	15	32	100	M30x260	200	9.0



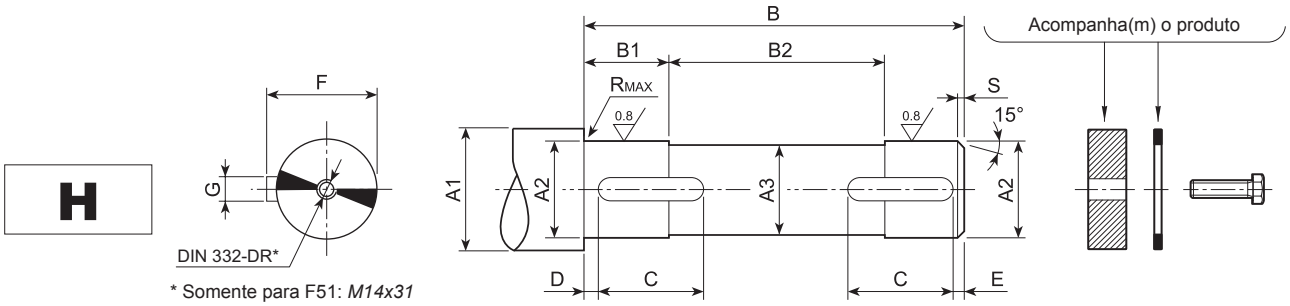
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [lb • in]	ft
F 10	5.512	0.787	2.165	0.394	0.484	0.591	0.197	0.433	1.181	M10x80	89	0.059
F 20	6.299	0.787	2.165	0.394	0.484	0.591	0.197	0.433	1.181	M10x80	89	0.059
F 25	6.378	0.787	2.559	0.787	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.059
F 31	6.693	0.787	2.559	0.787	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.059
F 41	8.583	0.630	2.402	0.945	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.091
F 51	10.945	0.787	3.543	1.850	0.906	1.181	0.394	0.827	2.362	M20x160	443	0.118
F 60	12.795	1.024	3.780	1.614	0.906	1.181	0.394	0.827	2.362	M20x160	443	0.157
F 70	14.567	1.181	4.803	1.969	1.102	1.575	0.472	0.984	3.150	M24x200	886	0.157
F 80	16.929	1.417	5.039	1.732	1.102	1.575	0.472	0.984	3.150	M24x200	886	0.236
F 90	20.276	1.575	6.890	1.575	1.307	2.362	0.591	1.260	3.937	M30x260	1771	0.354

61 EIXO DO CLIENTE

Fabricar o eixo motriz a ser acoplado no eixo de saída do redutor com aço de boa qualidade, respeitando as dimensões informadas na tabela.

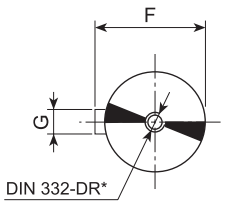
Um dispositivo, como o ilustrado na figura abaixo, também deverá ser instalado para fixar o eixo axialmente. Tomar o cuidado de verificar e dimensionar os diversos componentes para adequá-los às necessidades da aplicação.



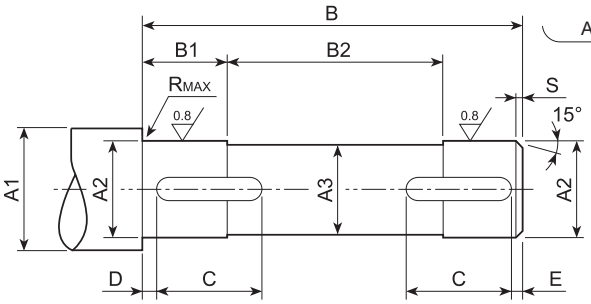
Dimensões em mm

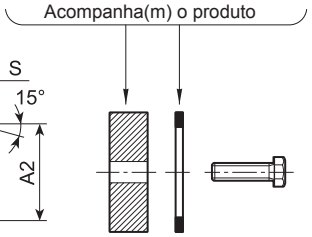
	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	UNI 5739
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 A	
F 25	≥ 47	40 h7	39	104	23	58	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	23	58	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 31	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	28	48	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 41	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	48.5	14 h9	1	2.0	14x9x45 A	M10x30
	≥ 47	40 h7	39	118	27.5	63	45	2.5	2.5	43	12 h9	1	2.0	12x8x45 A	
F 51	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A	M14x45
	≥ 57	50 h7	49	139	33	73	50	2.5	2.5	53.5	14 h9	1	2.0	14x9x50 A	
F 60	≥ 78	70 h7	69	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A	M16x45
	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	64	18 h9	1	2.0	18x11x70 A	
F 70	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A	M20x55
	≥ 78	70 h7	69	229	58	113	75	3	3	74.5	20 h9	2.5	2.5	20x12x75 A	
F 80	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A	M20x55
	v 89	80 h7	79	272	78	116	100	3	3	85	22 h9	2.5	2.5	22x14x100 A	
F 90	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A	M24x65
	≥ 99	90 h7	89	333	87.5	158	110	3	3	95	25 h9	2.5	2.5	25x14x110 A	

NH



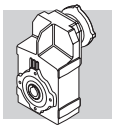
* Somente para F51: *M14x31*



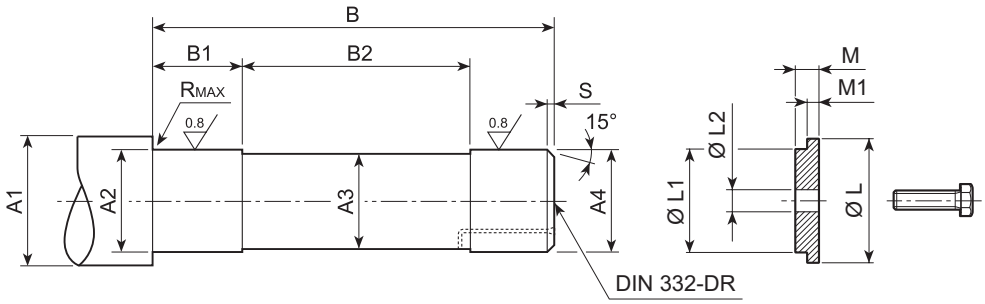


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	Key	UNI 5739
F 10	≥ 1.201	$1.000\ ^{+0}_{-0.0008}$	0.965	3.445	0.610	2.224	0.875	0.079	0.079	1.109	$0.250\ ^{+0}_{-0.0014}$	0.0196	0.059	1/4 x 1/4 x 7/8	*M8x25*
F 20	≥ 1.457	$1.250\ ^{+0}_{-0.0010}$	1.201	3.898	0.709	2.480	1.000	0.079	0.079	1.362	$0.250\ ^{+0}_{-0.0014}$	0.0196	0.059	1/4 x 1/4 x 1	*M8x30*
F 25	≥ 1.654	$1.375\ ^{+0}_{-0.0010}$	1.339	4.094	0.906	2.283	1.250	0.079	0.079	1.513	$0.313\ ^{+0}_{-0.0014}$	0.0196	0.059	5/16 x 5/16 x 1 1/4	*M8x30*
F 31	≥ 1.654	$1.375\ ^{+0}_{-0.0010}$	1.339	4.094	1.102	1.890	1.250	0.079	0.079	1.513	$0.313\ ^{+0}_{-0.0014}$	0.0196	0.059	5/16 x 5/16 x 1 1/4	*M8x30*
F 41	≥ 1.772	$1.500\ ^{+0}_{-0.0010}$	1.457	4.646	1.102	1.890	2.000	0.079	0.079	1.664	$0.375\ ^{+0}_{-0.0014}$	0.039	0.079	3/8 x 3/8 x 2	*M10x30*
F 51	≥ 2.283	$2.000\ ^{+0}_{-0.0012}$	1.969	5.472	1.299	2.874	2.000	0.098	0.098	2.218	$0.500\ ^{+0}_{-0.0017}$	0.039	0.079	1/2 x 1/2 x 2 1/2	*M14x45*
F 60	≥ 2.677	$2.375\ ^{+0}_{-0.0012}$	2.323	7.087	1.496	4.094	3.000	0.098	0.098	2.646	$0.625\ ^{+0}_{-0.0017}$	0.039	0.079	5/8 x 5/8 x 3	*M16x45*
F 70	≥ 3.071	$2.750\ ^{+0}_{-0.0012}$	2.717	9.016	2.283	4.449	3.000	0.295	0.118	3.027	$0.625\ ^{+0}_{-0.0017}$	0.098	0.098	5/8 x 5/8 x 3	*M20x55*
F 80	≥ 3.543	$3.188\ ^{+0}_{-0.0014}$	3.150	10.709	3.071	4.567	4.156	0.295	0.118	3.536	$0.750\ ^{+0}_{-0.0020}$	0.098	0.098	3/4 x 3/4 x 4 5/32	*M20x55*
F 90	≥ 3.543	$3.625\ ^{+0}_{-0.0014}$	3.583	13.110	3.445	6.220	5.500	0.295	0.118	4.009	$0.875\ ^{+0}_{-0.0020}$	0.098	0.098	7/8 x 7/8 x 5 1/2	*M24x65*



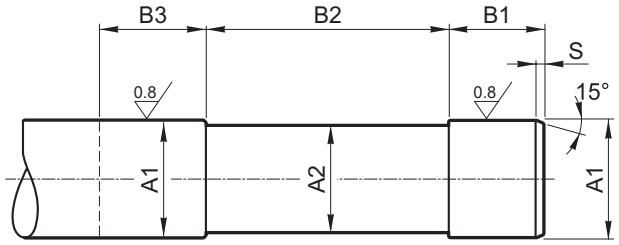
S



Dimensões em mm

	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
F 10	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5	29.5	25 d9	9	7	5.5	M8x25
F 20	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5	35.5	30 d9	9	7	5.5	M8x25
F 25	≥ 42	32 h7	30	31 h6	172	38	96	0.5	1.5	35.5	31 d9	9	7	5.5	M8x25
F 31	≥ 50	38 h7	35	36 h6	155	40	73	1	2	43	36 d9	9	7	5.5	M8x25
F 41	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2	49	42 d9	11	8.5	7	M10x30
F 51	≥ 68	54 h7	51	52 g6	201	48	91	1	2	61	52 d9	18	9	7.5	M16x45
F 60	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2	80	65 d9	18	9	7.5	M16x45
F 70	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5	95	80 d9	22	13.5	12	M20x55
F 80	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5	105	90 d9	22	13.5	12	M20x55
F 90	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5	120	100 d9	26	20	18.5	M24x70

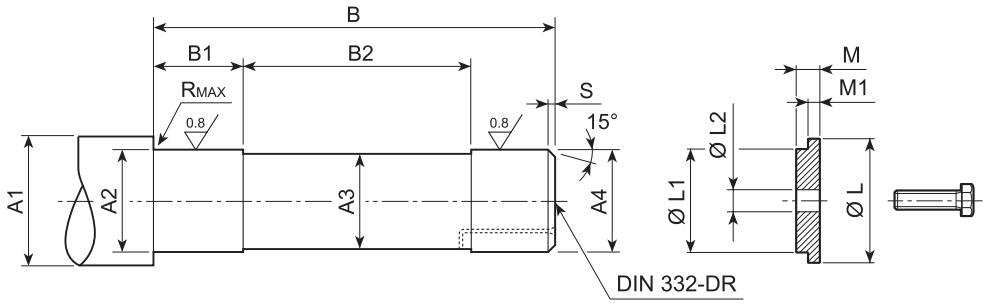
QF



Dimensões em mm

		A1	A2	B1	B2	B3	S
F 10	**QF25**	25 h6	24	41	83	≥ 50	1.5
	QF30	30 h6	29				
F 20	**QF25**	25 h6	24	41	104.5	≥ 50	1.5
	QF30	30 h6	29				
F 25	**QF30**	30 h6	29	41	120.5	≥ 50	1.5
	QF32	32 h6	31				
F 31	**QF35**	35 h6	34	45	95.5	≥ 54	1.5
	QF40	40 h6	39				
F 41	**QF42**	42 h6	41	46	112.5	≥ 55	2
	QF45	45 h6	44				
F 51	**QF50**	50 h6	49	48	131	≥ 57	2
	QF55	55 h6	54				
F 60	**QF60**	60 h6	59	57	158	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				

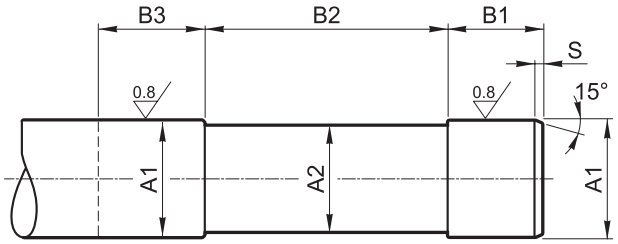
S



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
F 10	≥ 1.417	1.063 $^{+0}_{-0.0008}$	0.945	0.984 $^{+0}_{-0.0005}$	5.433	1.339	2.756	0.020	0.059	1.161	0.984 $^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
F 20	≥ 1.654	1.260 $^{+0}_{-0.0010}$	1.142	1.181 $^{+0}_{-0.0005}$	6.299	1.496	3.307	0.020	0.059	1.398	1.181 $^{-0.0026}_{-0.0046}$	0.354	0.276	0.217	*M8x25*
F 25	≥ 1.654	1.260 $^{+0}_{-0.0010}$	1.181	1.220 $^{+0}_{-0.0006}$	6.772	1.496	3.780	0.020	0.059	1.398	1.220 $^{-0.0031}_{-0.0056}$	0.354	0.276	0.217	*M8x25*
F 31	≥ 1.969	1.496 $^{+0}_{-0.0010}$	1.378	1.417 $^{+0}_{-0.0006}$	6.102	1.575	2.874	0.039	0.079	1.693	1.417 $^{-0.0031}_{-0.0056}$	0.354	0.276	0.217	*M8x25*
F 41	≥ 2.283	1.732 $^{+0}_{-0.0010}$	1.614	1.654 $^{+0}_{-0.0006}$	6.969	1.831	3.228	0.039	0.079	1.929	1.654 $^{-0.0031}_{-0.0056}$	0.433	0.335	0.276	*M10x30*
F 51	≥ 2.677	2.126 $^{+0}_{-0.0012}$	2.008	2.047 $^{+0}_{-0.0011}$	7.913	1.890	3.583	0.039	0.079	2.402	2.047 $^{-0.0039}_{-0.0069}$	0.709	0.354	0.295	*M16x45*
F 60	≥ 3.307	2.638 $^{+0}_{-0.0012}$	2.520	2.559 $^{-0.0004}_{-0.0011}$	9.764	2.087	5.236	0.059	0.079	3.150	2.559 $^{-0.0039}_{-0.0069}$	0.709	0.354	0.295	*M16x45*
F 70	≥ 4.094	3.228 $^{+0}_{-0.0014}$	3.110	3.150 $^{-0.0004}_{-0.0011}$	12.126	3.071	5.512	0.098	0.098	3.740	3.150 $^{-0.0039}_{-0.0069}$	0.866	0.531	0.472	*M20x55*
F 80	≥ 4.488	3.622 $^{+0}_{-0.0014}$	3.504	3.543 $^{-0.0005}_{-0.0013}$	14.370	3.465	6.969	0.098	0.098	4.134	3.543 $^{-0.0047}_{-0.0081}$	0.866	0.531	0.472	*M20x55*
F 90	≥ 4.961	4.016 $^{+0}_{-0.0014}$	3.898	3.937 $^{-0.0005}_{-0.0013}$	16.909	3.858	8.720	0.098	0.098	4.724	3.937 $^{-0.0047}_{-0.0081}$	1.024	0.787	0.728	*M24x70*

NQF



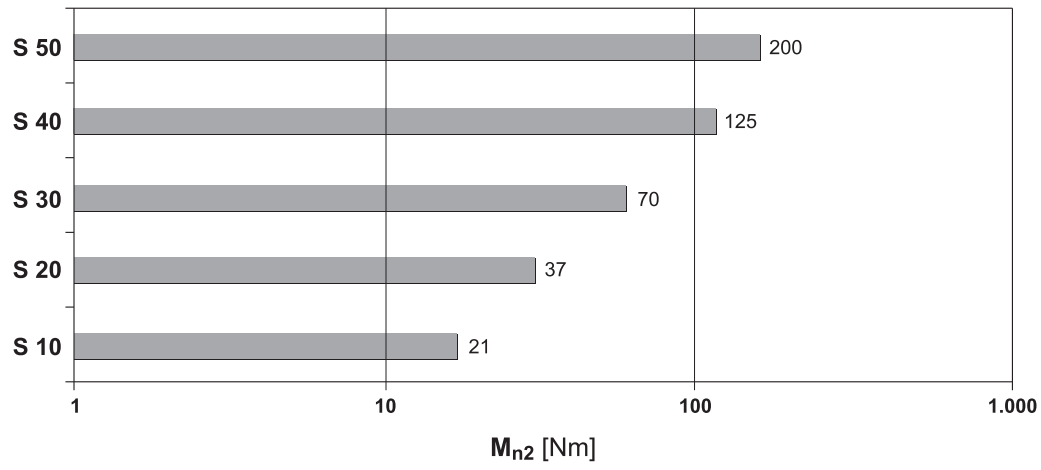
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

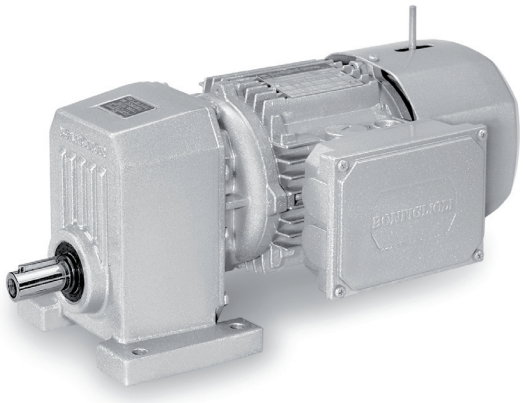
		A1	A2	B1	B2	B3	S
F 10	**NQF1**	1.000 $^{+0}_{-0.0005}$	0.961	1.614	3.268	≥ 1.969	0.059
	NQF1-3/16	1.188 $^{+0}_{-0.0006}$	1.148				
F 20	**NQF1**	1.000 $^{+0}_{-0.0005}$	0.961	1.614	4.114	≥ 1.969	0.059
	NQF1-3/16	1.188 $^{+0}_{-0.0006}$	1.148				
F 25	**NQF1-3/16**	1.188 $^{+0}_{-0.0006}$	1.148	1.614	4.744	≥ 1.969	0.059
	NQF1-1/4	1.250 $^{+0}_{-0.0006}$	1.211				
F 31	**NQF1-3/8**	1.375 $^{+0}_{-0.0006}$	1.336	1.772	3.760	≥ 2.126	0.059
	NQF1-7/16	1.438 $^{+0}_{-0.0006}$	1.398				
F 41	**NQF1-5/8**	1.625 $^{+0}_{-0.0006}$	1.586	1.811	4.429	≥ 2.165	0.079
	NQF1-3/4	1.750 $^{+0}_{-0.0006}$	1.711				
F 51	**NQF1-15/16**	1.938 $^{+0}_{-0.0006}$	1.898	1.890	5.157	≥ 2.244	0.079
	NQF2	2.000 $^{+0}_{-0.0007}$	1.961				
F 60	**NQF2-3/8**	2.375 $^{+0}_{-0.0007}$	2.336	2.244	6.220	≥ 2.598	0.098
	NQF2-7/16	2.438 $^{+0}_{-0.0007}$	2.398				
	NQF2-3/4	2.750 $^{+0}_{-0.0007}$	2.711				

62 CARACTERÍSTICAS DE PROJETO

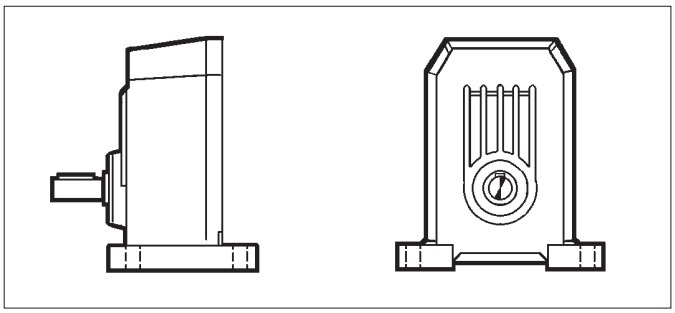
As principais características de projeto são:
• modularidade
• eficiência de espaço
• montagem universal
• alta eficiência
• operação silenciosa
• engrenagens em aço temperado e aço cementado
• caixa de alumínio bruto para os tamanhos 10, 20, 30, sem pintura
• caixas em ferro fundido de alta resistência pintadas para tamanhos de quadro maiores• eixos de entrada e saída feitos com aço de alta qualidade.

(E 62)





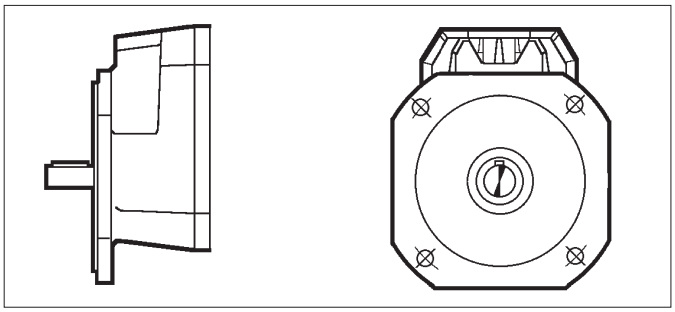
63 VERSÕES



P

Montagem com pés

S 10 ... S 50



F

Montagem com pés

S 10 ... S 50

64 DESIGNAÇÃO

REDUTORES

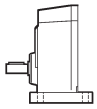
S 10 1 P 1.4 S1 B3 .....

OPÇÕES

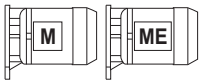
POSIÇÃO DE MONTAGEM

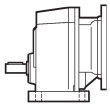
S...P: **B3** (Padrão), **B6**, **B7**, **B8**, **V5**, **V6**
S...F: **B5** (Padrão), **B51**, **B52**, **B53**, **V1**, **V3**

CONFIGURAÇÃO DE ENTRADA

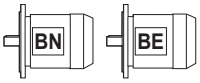


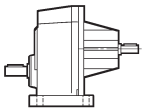
S05 ... S5





IEC_ **P63 ... P180**

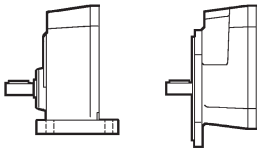




HS

RELAÇÃO DE TRANSMISSÃO

VERSÃO

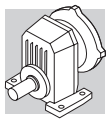


P **F**

REDUÇÕES
1

TAMANHO DO QUADRO DE ENGRENAGEM
10, **20**, **30**, **40**, **50**

TIPO: **S** = monoestágio



MOTOR | FREIO

M 1LA 4 230/400-50 IP54 CLF ..... **W FD** 7.5 R SB 220 SA .....

OPÇÕES

ALIMENTAÇÃO DO FREIO

TIPO DE RETIFICADOR AC/DC
NB, **SB**, **NBR**, **SBR**

LIBERAÇÃO MANUAL DO FREIO
R, **RM**

TORQUE DE FRENAGEM

TIPO DE FREIO
FD (freio d.c.)
FA (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS
W (padrão), **N**, **E**, **S**

MONTAGEM DO MOTOR
— (motor compacto)
B5 (motor - IEC)

CLASSE DE ISOLAMENTO
CL F padrão
CL H opção

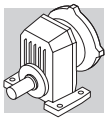
GRAU DE PROTEÇÃO
IP55 padrão (IP54 - freio motor)

TENSÃO - FREQUÊNCIA

NÚMERO DE POLOS
2, **4**, **6**, **2/4**, **2/6**, **2/8**, **2/12**, **4/6**, **4/8**

TAMANHO DO MOTOR
0B ... 5LA (motor compacto)
63A ... 280M (motor IEC)

TIPO DE MOTOR
ME = trifásico compacto, classe IE2 **M** = trifásico compacto
BE = IEC trifásico, classe IE2 **BN** = trifásico IEC



64.1 Opções de redutor

SO
Os redutores S10, S20, S30, S40, geralmente preenchidos com óleo pela fábrica, são fornecidos sem lubrificação.

LO
O redutor S50, geralmente fornecido sem óleo, deve ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI REDUTORES de acordo com a posição de montagem especificada.

DV
Retentores de óleo duplos no eixo de entrada. (Disponíveis apenas para redutores compactos).

VV
Retentor de óleo em fluorelastômero no eixo de entrada.

PV
Todos os retentores de óleo em fluorelastômero.

PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(E 63)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
C3	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
C4	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores.
Se nenhuma cor específica for solicitada (ver a opção “PINTURA”), os redutores serão acabados na cor RAL 7042.
Os redutores também podem ser fornecidos com proteção de superfície para corrosividade classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.

PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(E 64)

PINTURA	Cor	número RAL
RAL7042*	Cinza Tráfego A	7042
RAL5010	Azul Genciano	5010
RAL9005	Preto de Jato	9005
RAL9006	Alumínio Branco	9006
RAL9010	Branco Puro	9010

* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

CERTIFICADOS

AC - Certificado de Conformidade
O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

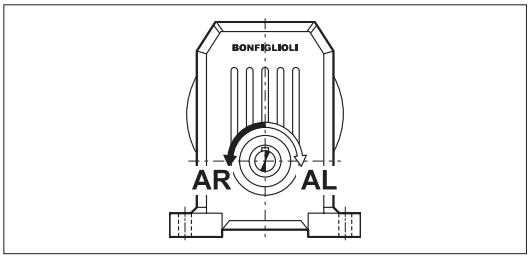
CC - Certificado de Inspeção
O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

64.2 Opções de motor

AA, AC, AD
Posição mútua da alavanca de liberação do freio e caixa de terminais. Visualização pelo lado da ventoinha.
Posição padrão = 90° no sentido horário. AA = 0°, AC = 180°, AD = 90° no sentido anti-horário.

AL, AR
Um dispositivo contrarrecuo instalado no próprio motor, conforme descrição na seção “Motores Elétricos” deste catálogo, está disponível para redutores com motores integrais Série M ou ME. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

(E 65)



U2
Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

65 LUBRIFICAÇÃO

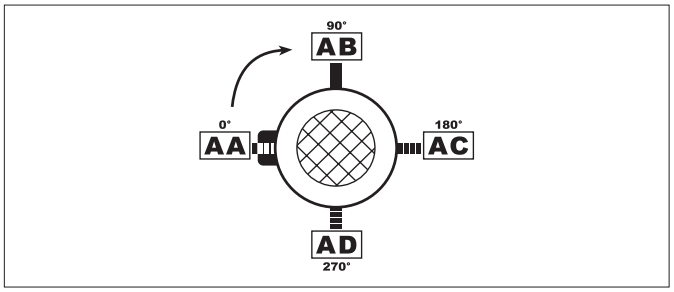
As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrifo. Quadros tamanhos S10, S20, S30 e S40 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo.
Salvo especificado de outro modo, unidades tamanho S50 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto.
Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: www.bonfiglioli.com).
O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor.
A operação dos redutores é permitida a temperaturas ambiente entre -20°C e +40°C. Entretanto, para temperaturas entre -20°C e -10°C, a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga.
A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de -10°C, ou superior.

66 POSIÇÃO DE MONTAGEM E LOCALIZAÇÃO ANGULAR DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

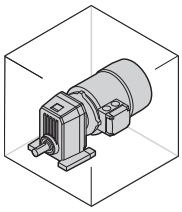
Posição angular da alavanca de liberação do freio.
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de 90° da caixa de terminais.
Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.

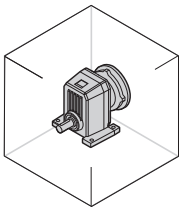
(E 66)

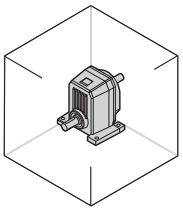


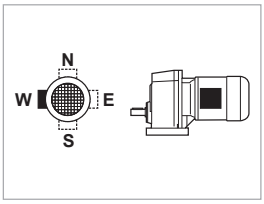
S ... P

B3

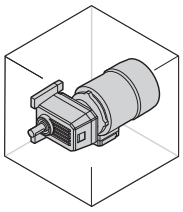

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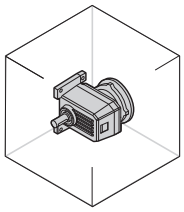

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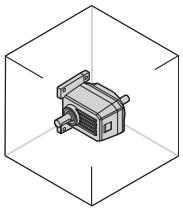

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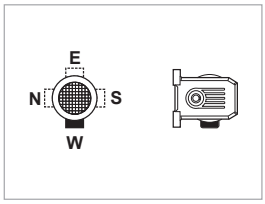


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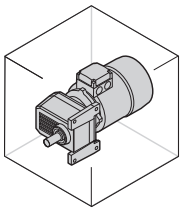

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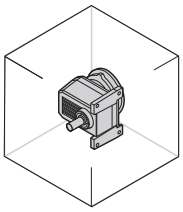

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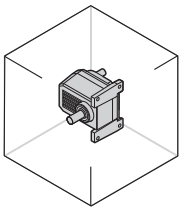

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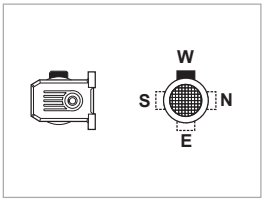


B7

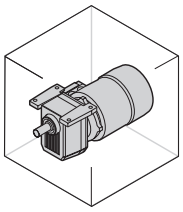

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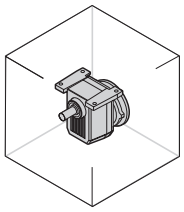

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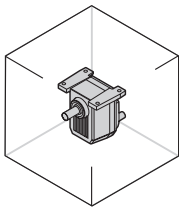

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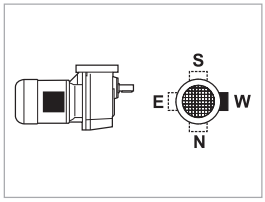


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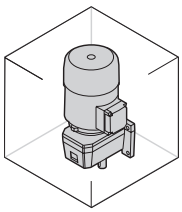

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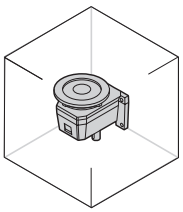

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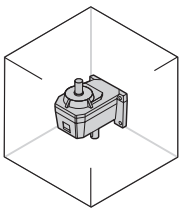

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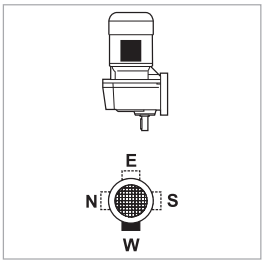


V5

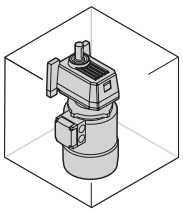

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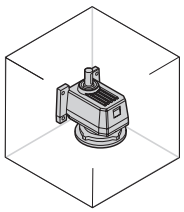

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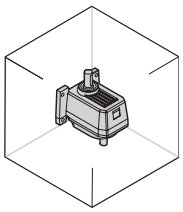

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V6


_S


_P(IEC)

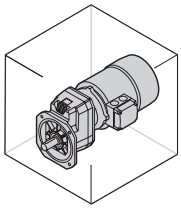

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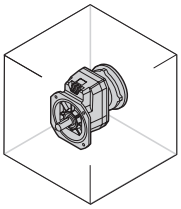


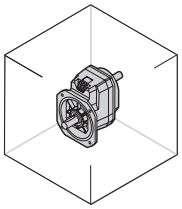
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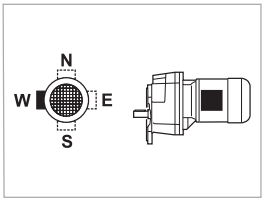
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B5

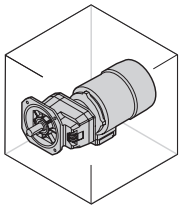

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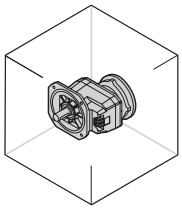

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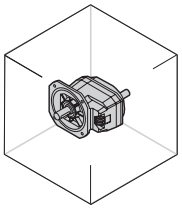

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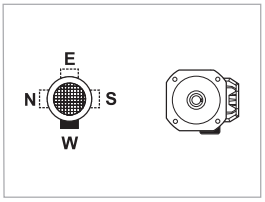


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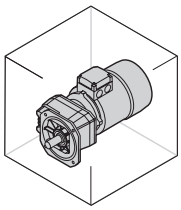

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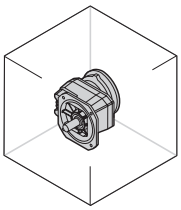

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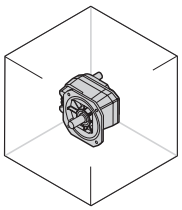

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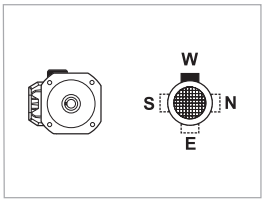


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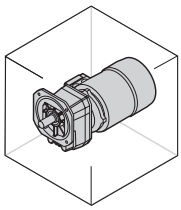

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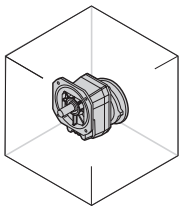

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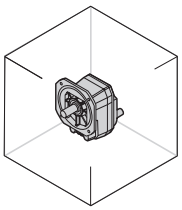

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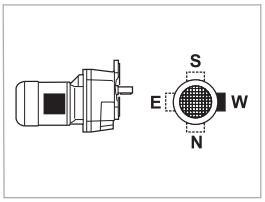


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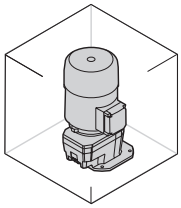

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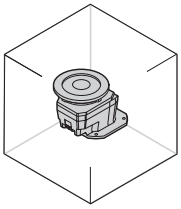

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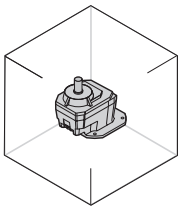

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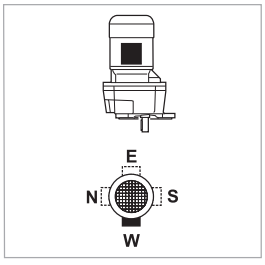


V1

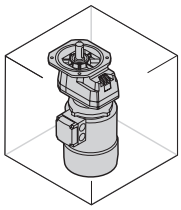

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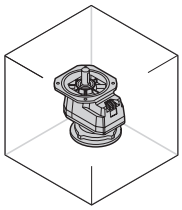

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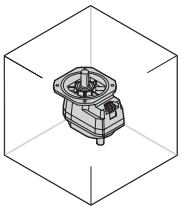

_HS



V3


_S


_P(IEC)


_HS



W = Default

67 CARGAS RADIAIS

Transmissões externas chaveadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo.
A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo (R_{c1} para o eixo de entrada, R_{c2} para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo (R_{n1} para o eixo de entrada, R_{n2} para o eixo de saída). Capacidade OHL informada na tabela de classificação.
Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.
A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

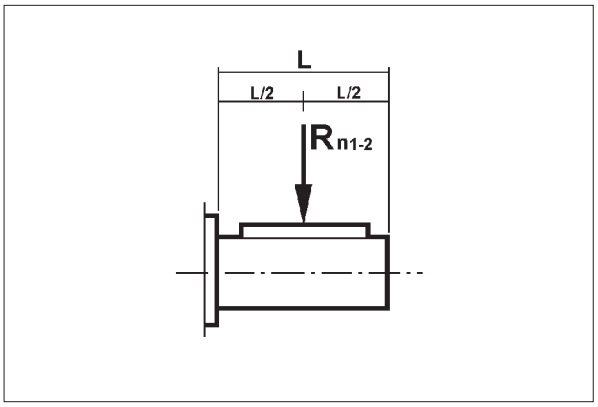
$$R_{c1}\,[N] = \frac{2000 \cdot M_1[Nm] \cdot K_r}{d\,[mm]} \quad ; \quad R_{c2}\,[N] = \frac{2000 \cdot M_2[Nm] \cdot K_r}{d\,[mm]} \qquad (44)$$

(E 67)

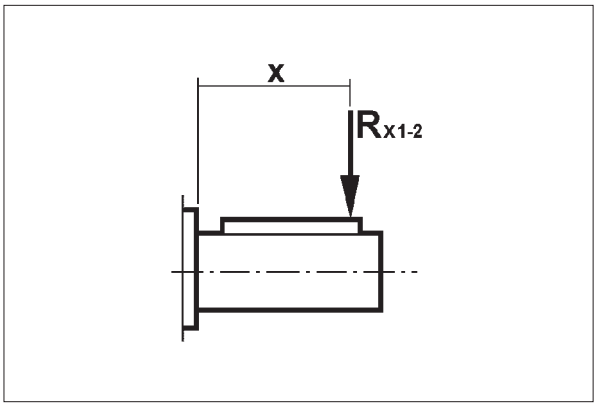
M_1 [Nm]	Torque aplicado ao eixo de entrada
M_2 [Nm]	Torque produzido no eixo de saída
d [mm]	Diâmetro primitivo do elemento chavetado no eixo
K_r = 1	Transmissão por corrente
K_r = 1,25	Transmissão por engrenagem
K_r = 1,5	Transmissão por correia tipo V
K_r = 2,0	Transmissão por correia plana

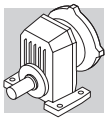
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(E 68)



(E 69)





a) Carga aplicada no ponto médio do eixo, guia. (E65)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$R_{c1} \leq R_{n1}$ [eixo de entrada]

ou

$R_{c2} \leq R_{n2}$ [eixo de saída]

b) Carga fora da guia de ponto médio. (E66)

Quando a carga é deslocada a uma distância "x" do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância.
Cargas radiais permitidas revisadas R_{x1} (entrada) e R_{x2} (saída) são calculadas respectivamente a partir dos valores nominais originais R_{n1} e R_{n2} com o fator:

$$\frac{a}{b+x} \qquad (45)$$

(E 70)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	**b**	**c**	**a**	**b**	**c**
S 10 1	61	46	200	21	1	300
S 20 1	73.5	53.5	270	40	20	350
S 30 1	91.5	66.5	380	38.5	18.5	350
S 40 1	126.5	96.5	600	49.5	24.5	450
S 50 1	153.5	113.5	680	49.5	24.5	450

O procedimento de verificação é descrito abaixo.

EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \qquad (46)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \qquad (47)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (48)$$

EIXO DE SAÍDA

1. Calcular:

$$R_{x2} = R_{n2} \cdot \frac{a}{b + x} \quad (49)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (50)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (51)$$

68 CARGAS AXIAIS, A_{n1}, A_{n2}

As cargas axiais permitidas nos eixos de entrada [A_{n1}] e de saída [A_{n2}] são obtidas a partir da carga radial do eixo em consideração [R_{n1}] e [R_{n2}] por meio da seguinte equação:

$$A_{n1} = R_{n1} \cdot 0.2$$
$$A_{n2} = R_{n2} \cdot 0.2 \quad (52)$$

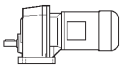
As cargas axiais calculadas com estas fórmulas aplicam-se às forças axiais ocorridas ao mesmo tempo que as cargas radiais nominais.
No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [A_n] equivale a 50% de OHL nominal [R_n] sobre o mesmo eixo. Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.

69 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

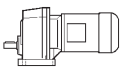
A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos.

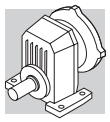
Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.

0.12 kW

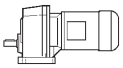
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
136	8	1.9	12.4	1371	**S201_12.4 S05 M05A4**	628	**S201_12.4 P63 BN63A4**	629
137	8	1.7	12.3	911	**S101_12.3 S05 M05A4**	626	**S101_12.3 P63 BN63A4**	627
157	7	2.2	10.8	1371	**S201_10.8 S05 M05A4**	628	**S201_10.8 P63 BN63A4**	629
164	7	2.0	10.3	875	**S101_10.3 S05 M05A4**	626	**S101_10.3 P63 BN63A4**	627
190	6	2.3	8.9	838	**S101_8.9 S05 M05A4**	626	**S101_8.9 P63 BN63A4**	627
199	6	2.8	8.5	1371	**S201_8.5 S05 M05A4**	628	**S201_8.5 P63 BN63A4**	629
245	5	3.0	6.9	783	**S101_6.9 S05 M05A4**	626	**S101_6.9 P63 BN63A4**	627

0.18 kW

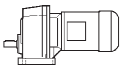
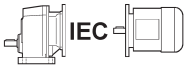
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
127	14	2.0	13.1	2201			**S301_13.1 P63 BN63B4**	631
134	13	1.2	12.4	1371	**S201_12.4 S05 M05B4**	628	**S201_12.4 P63 BN63B4**	629
135	13	1.1	12.3	911	**S101_12.3 S05 M05B4**	626	**S101_12.3 P63 BN63B4**	627
155	11	1.4	10.8	1371	**S201_10.8 S05 M05B4**	628	**S201_10.8 P63 BN63B4**	629
162	11	2.6	10.3	2137			**S301_10.3 P63 BN63B4**	631
162	11	1.3	10.3	929	**S101_10.3 S05 M05B4**	626	**S101_10.3 P63 BN63B4**	627
188	9	3.0	8.9	2045			**S301_8.9 P63 BN63B4**	631
188	9	1.5	8.9	802	**S101_8.9 S05 M05B4**	626	**S101_8.9 P63 BN63B4**	627
196	9	1.8	8.5	1371	**S201_8.5 S05 M05B4**	628	**S201_8.5 P63 BN63B4**	629
242	7	1.9	6.9	747	**S101_6.9 S05 M05B4**	626	**S101_6.9 P63 BN63B4**	627
273	6	2.2	6.1	729	**S101_6.1 S05 M05B4**	626	**S101_6.1 P63 BN63B4**	627
353	5	2.2	4.7	683	**S101_4.7 S05 M05B4**	626	**S101_4.7 P63 BN63B4**	627
434	4	2.8	3.8	638	**S101_3.8 S05 M05B4**	626	**S101_3.8 P63 BN63B4**	627

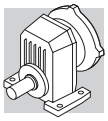


0.25 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
127	18	1.5	13.1	2201			**S301_13.1 P71 BN71A4**	631
134	17	0.9	12.4	1280	**S201_12.4 S05 M05C4**	628	**S201_12.4 P71 BN71A4**	629
135	17	2.7	12.4	3458	**S401_12.4 S05 M05C4**	632	**S401_12.4 P71 BN71A4**	633
155	15	1.1	10.8	1371	**S201_10.8 S05 M05C4**	628	**S201_10.8 P71 BN71A4**	629
162	14	2.0	10.3	2109			**S301_10.3 P71 BN71A4**	631
162	14	1.0	10.3	820	**S101_10.3 S05 M05C4**	626	**S101_10.3 P71 BN71A4**	627
188	12	2.3	8.9	2017			**S301_8.9 P71 BN71A4**	631
188	12	1.1	8.9	802	**S101_8.9 S05 M05C4**	626	**S101_8.9 P71 BN71A4**	627
196	12	1.3	8.5	1371	**S201_8.5 S05 M05C4**	628	**S201_8.5 P71 BN71A4**	629
231	10	2.4	7.2	1371	**S201_7.2 S05 M05C4**	628	**S201_7.2 P71 BN71A4**	629
242	9	1.5	6.9	711	**S101_6.9 S05 M05C4**	626	**S101_6.9 P71 BN71A4**	627
273	8	1.6	6.1	701	**S101_6.1 S05 M05C4**	626	**S101_6.1 P71 BN71A4**	627
287	8	3.0	5.8	1307	**S201_5.8 S05 M05C4**	628	**S201_5.8 P71 BN71A4**	629
353	6	1.7	4.7	656	**S101_4.7 S05 M05C4**	626	**S101_4.7 P71 BN71A4**	627
434	5	2.1	3.8	619	**S101_3.8 S05 M05C4**	626	**S101_3.8 P71 BN71A4**	627
522	4	2.5	3.2	592	**S101_3.2 S05 M05C4**	626	**S101_3.2 P71 BN71A4**	627
668	3	2.7	2.5	556	**S101_2.5 S05 M05C4**	626	**S101_2.5 P71 BN71A4**	627

0.37 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC 	
130	27	1.0	13.1	2192			**S301_13.1 P71 BN71B4**	631
137	25	1.8	12.4	3458	**S401_12.4 S1 M1SD4**	632	**S401_12.4 P71 BN71B4**	633
159	22	2.1	10.7	3458	**S401_10.7 S1 M1SD4**	632	**S401_10.7 P71 BN71B4**	633
165	21	1.3	10.3	2054	**S301_10.3 S1 M1SD4**	630	**S301_10.3 P71 BN71B4**	631
191	18	1.5	8.9	1972	**S301_8.9 S1 M1SD4**	630	**S301_8.9 P71 BN71B4**	631
197	18	2.6	8.6	3285	**S401_8.6 S1 M1SD4**	632	**S401_8.6 P71 BN71B4**	633
235	15	1.6	7.2	1334	**S201_7.2 S1 M1SD4**	628	**S201_7.2 P71 BN71B4**	629
246	14	1.0	6.9	674	**S101_6.9 S1 M1SD4**	626	**S101_6.9 P71 BN71B4**	627
278	13	1.1	6.1	647	**S101_6.1 S1 M1SD4**	626	**S101_6.1 P71 BN71B4**	627
292	12	2.0	5.8	1270	**S201_5.8 S1 M1SD4**	628	**S201_5.8 P71 BN71B4**	629
356	10	2.4	4.8	1197	**S201_4.8 S1 M1SD4**	628	**S201_4.8 P71 BN71B4**	629
360	10	1.1	4.7	610	**S101_4.7 S1 M1SD4**	626	**S101_4.7 P71 BN71B4**	627
432	8	3.0	3.9	1133	**S201_3.9 S1 M1SD4**	628	**S201_3.9 P71 BN71B4**	629
442	8	1.4	3.8	583	**S101_3.8 S1 M1SD4**	626	**S101_3.8 P71 BN71B4**	627
531	7	1.7	3.2	565	**S101_3.2 S1 M1SD4**	626	**S101_3.2 P71 BN71B4**	627
680	5	1.8	2.5	528	**S101_2.5 S1 M1SD4**	626	**S101_2.5 P71 BN71B4**	627
907	4	2.4	1.9	492	**S101_1.9 S1 M1SD4**	626	**S101_1.9 P71 BN71B4**	627



0.55 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
133	39	2.3	12.9	5071	**S501_12.9 S1 M1LA4**	634	**S501_12.9 P80 BN80A4**	635
138	38	1.2	12.4	3458	**S401_12.4 S1 M1LA4**	632	**S401_12.4 P80 BN80A4**	633
160	33	1.4	10.7	3431	**S401_10.7 S1 M1LA4**	632	**S401_10.7 P80 BN80A4**	633
164	32	2.9	10.5	4761	**S501_10.5 S1 M1LA4**	634	**S501_10.5 P80 BN80A4**	635
192	27	1.0	8.9	1889	**S301_8.9 S1 M1LA4**	630	**S301_8.9 P80 BN80A4**	631
198	26	1.8	8.6	3221	**S401_8.6 S1 M1LA4**	632	**S401_8.6 P80 BN80A4**	633
237	22	1.1	7.2	1252	**S201_7.2 S1 M1LA4**	628	**S201_7.2 P80 BN80A4**	629
241	22	2.1	7.1	1779	**S301_7.1 S1 M1LA4**	630	**S301_7.1 P80 BN80A4**	631
293	18	2.6	5.8	1687	**S301_5.8 S1 M1LA4**	630	**S301_5.8 P80 BN80A4**	631
294	18	1.3	5.8	1197	**S201_5.8 S1 M1LA4**	628	**S201_5.8 P80 BN80A4**	629
359	15	1.6	4.8	1143	**S201_4.8 S1 M1LA4**	628	**S201_4.8 P80 BN80A4**	629
435	12	2.0	3.9	1088	**S201_3.9 S1 M1LA4**	628	**S201_3.9 P80 BN80A4**	629
445	12	0.9	3.8	501	**S101_3.8 S1 M1LA4**	626	**S101_3.8 P80 BN80A4**	627
534	10	1.1	3.2	510	**S101_3.2 S1 M1LA4**	626	**S101_3.2 P80 BN80A4**	627
550	10	2.5	3.1	1024	**S201_3.1 S1 M1LA4**	628	**S201_3.1 P80 BN80A4**	629
684	8	1.2	2.5	492	**S101_2.5 S1 M1LA4**	626	**S101_2.5 P80 BN80A4**	627
903	6	2.7	1.9	887	**S201_1.9 S1 M1LA4**	628	**S201_1.9 P80 BN80A4**	629
912	6	1.6	1.9	456	**S101_1.9 S1 M1LA4**	626	**S101_1.9 P80 BN80A4**	627
1203	4	2.1	1.4	428	**S101_1.4 S1 M1LA4**	626	**S101_1.4 P80 BN80A4**	627

0.75 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
135	52	1.8	12.9	4980	**S501_12.9 S2 ME2SB4**	634	**S501_12.9 P80 BE80B4**	635
141	50	0.9	12.4	3185	**S401_12.4 S2 ME2SB4**	632	**S401_12.4 P80 BE80B4**	633
164	43	1.1	10.7	3340	**S401_10.7 S2 ME2SB4**	632	**S401_10.7 P80 BE80B4**	633
167	42	2.2	10.5	4679	**S501_10.5 S2 ME2SB4**	634	**S501_10.5 P80 BE80B4**	635
199	35	2.6	8.8	4441	**S501_8.8 S2 ME2SB4**	634	**S501_8.8 P80 BE80B4**	635
202	35	1.3	8.6	3149	**S401_8.6 S2 ME2SB4**	632	**S401_8.6 P80 BE80B4**	633
244	29	2.6	7.2	2985	**S401_7.2 S2 ME2SB4**	632	**S401_7.2 P80 BE80B4**	633
246	28	1.6	7.1	1706	**S301_7.1 S2 ME2SB4**	630	**S301_7.1 P80 BE80B4**	631
298	23	2.0	5.8	1632	**S301_5.8 S2 ME2SB4**	630	**S301_5.8 P80 BE80B4**	631
300	23	1.0	5.8	1097	**S201_5.8 S2 ME2SB4**	628	**S201_5.8 P80 BE80B4**	629
354	20	2.3	4.9	1559	**S301_4.9 S2 ME2SB4**	630	**S301_4.9 P80 BE80B4**	631
366	19	1.2	4.8	1079	**S201_4.8 S2 ME2SB4**	628	**S201_4.8 P80 BE80B4**	629
442	16	2.9	3.9	1467	**S301_3.9 S2 ME2SB4**	630	**S301_3.9 P80 BE80B4**	631
444	16	1.5	3.9	1033	**S201_3.9 S2 ME2SB4**	628	**S201_3.9 P80 BE80B4**	629
561	13	1.9	3.1	978	**S201_3.1 S2 ME2SB4**	628	**S201_3.1 P80 BE80B4**	629
698	10	0.9	2.5	428	**S101_2.5 S2 ME2SB4**	626	**S101_2.5 P80 BE80B4**	627
716	10	2.4	2.4	923	**S201_2.4 S2 ME2SB4**	628	**S201_2.4 P80 BE80B4**	629
921	8	2.1	1.9	859	**S201_1.9 S2 ME2SB4**	628	**S201_1.9 P80 BE80B4**	629
931	8	1.2	1.9	419	**S101_1.9 S2 ME2SB4**	626	**S101_1.9 P80 BE80B4**	627

0.75 kW

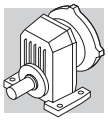
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
1228	6	1.6	1.4	401	**S101_1.4 S2 ME2SB4**	626	**S101_1.4 P80 BE80B4**	627
1254	6	2.8	1.4	786	**S201_1.4 S2 ME2SB4**	628	**S201_1.4 P80 BE80B4**	629

1.1 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
135	76	1.2	12.9	4852	**S501_12.9 S3 ME3SA4**	634	**S501_12.9 P90 BE90S4**	635
166	61	1.5	10.5	4578	**S501_10.5 S3 ME3SA4**	634	**S501_10.5 P90 BE90S4**	635
198	52	1.8	8.8	4350	**S501_8.8 S3 ME3SA4**	634	**S501_8.8 P90 BE90S4**	635
201	51	0.9	8.6	3049	**S401_8.6 S3 ME3SA4**	632	**S401_8.6 P90 BE90S4**	633
235	44	2.7	7.4	4131	**S501_7.4 S3 ME3SA4**	634	**S501_7.4 P90 BE90S4**	635
243	42	1.8	7.2	2894	**S401_7.2 S3 ME3SA4**	632	**S401_7.2 P90 BE90S4**	633
245	42	1.1	7.1	1586	**S301_7.1 S3 ME3SA4**	630	**S301_7.1 P90 BE90S4**	631
287	36	2.1	6.1	2766	**S401_6.1 S3 ME3SA4**	632	**S401_6.1 P90 BE90S4**	633
298	34	1.3	5.8	1531	**S301_5.8 S3 ME3SA4**	630	**S301_5.8 P90 BE90S4**	631
353	29	1.6	4.9	1476	**S301_4.9 S3 ME3SA4**	630	**S301_4.9 P90 BE90S4**	631
360	28	2.6	4.8	2594	**S401_4.8 S3 ME3SA4**	632	**S401_4.8 P90 BE90S4**	633
441	23	2.0	3.9	1403	**S301_3.9 S3 ME3SA4**	630	**S301_3.9 P90 BE90S4**	631
442	23	1.0	3.9	914	**S201_3.9 S3 ME3SA4**	628	**S201_3.9 P90 BE90S4**	629
559	18	1.3	3.1	905	**S201_3.1 S3 ME3SA4**	628	**S201_3.1 P90 BE90S4**	629
568	18	2.6	3.1	1311	**S301_3.1 S3 ME3SA4**	630	**S301_3.1 P90 BE90S4**	631
714	14	1.7	2.4	859	**S201_2.4 S3 ME3SA4**	628	**S201_2.4 P90 BE90S4**	629
918	11	1.4	1.9	813	**S201_1.9 S3 ME3SA4**	628	**S201_1.9 P90 BE90S4**	629
953	11	2.6	1.8	1137	**S301_1.8 S3 ME3SA4**	630	**S301_1.8 P90 BE90S4**	631
1224	8	1.1	1.4	355	**S101_1.4 S3 ME3SA4**	626	**S101_1.4 P90 BE90S4**	627
1251	8	1.9	1.4	749	**S201_1.4 S3 ME3SA4**	628	**S201_1.4 P90 BE90S4**	629

1.5 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
166	84	1.1	10.5	4578	**S501_10.5 S3 ME3SB4**	634	**S501_10.5 P90 BE90LA4**	635
198	70	1.3	8.8	4350	**S501_8.8 S3 ME3SB4**	634	**S501_8.8 P90 BE90LA4**	635
235	59	2.0	7.4	4131	**S501_7.4 S3 ME3SB4**	634	**S501_7.4 P90 BE90LA4**	635
243	57	1.3	7.2	2894	**S401_7.2 S3 ME3SB4**	632	**S401_7.2 P90 BE90LA4**	633
287	49	1.5	6.1	2766	**S401_6.1 S3 ME3SB4**	632	**S401_6.1 P90 BE90LA4**	633
287	49	2.4	6.1	3894	**S501_6.1 S3 ME3SB4**	634	**S501_6.1 P90 BE90LA4**	635
298	47	1.0	5.8	1421	**S301_5.8 S3 ME3SB4**	630	**S301_5.8 P90 BE90LA4**	631
353	40	1.2	4.9	1476	**S301_4.9 S3 ME3SB4**	630	**S301_4.9 P90 BE90LA4**	631
360	39	1.9	4.8	2594	**S401_4.8 S3 ME3SB4**	632	**S401_4.8 P90 BE90LA4**	633
441	32	1.4	3.9	1403	**S301_3.9 S3 ME3SB4**	630	**S301_3.9 P90 BE90LA4**	631
456	31	2.4	3.8	2412	**S401_3.8 S3 ME3SB4**	632	**S401_3.8 P90 BE90LA4**	633



1.5 kW

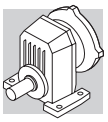
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
559	25	1.0	3.1	905	**S201_3.1 S3 ME3SB4**	628	**S201_3.1 P90 BE90LA4**	629
568	25	1.9	3.1	1311	**S301_3.1 S3 ME3SB4**	630	**S301_3.1 P90 BE90LA4**	631
714	20	1.2	2.4	786	**S201_2.4 S3 ME3SB4**	628	**S201_2.4 P90 BE90LA4**	629
719	19	2.4	2.4	1467	**S301_2.4 S3 ME3SB4**	630	**S301_2.4 P90 BE90LA4**	631
918	15	1.0	1.9	777	**S201_1.9 S3 ME3SB4**	628	**S201_1.9 P90 BE90LA4**	629
953	15	1.9	1.8	1403	**S301_1.8 S3 ME3SB4**	630	**S301_1.8 P90 BE90LA4**	631
1236	11	2.4	1.4	1330	**S301_1.4 S3 ME3SB4**	630	**S301_1.4 P90 BE90LA4**	631
1251	11	1.4	1.4	740	**S201_1.4 S3 ME3SB4**	628	**S201_1.4 P90 BE90LA4**	629

2.2 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
236	87	1.4	7.4	3830	**S501_7.4 S3 ME3LA4**	634	**S501_7.4 P100 BE100LA4**	635
288	71	1.0	6.1	2457	**S401_6.1 S3 ME3LA4**	632	**S401_6.1 P100 BE100LA4**	633
288	71	1.7	6.1	4104	**S501_6.1 S3 ME3LA4**	634	**S501_6.1 P100 BE100LA4**	635
361	57	1.3	4.8	2257	**S401_4.8 S3 ME3LA4**	632	**S401_4.8 P100 BE100LA4**	633
367	56	2.1	4.8	4378	**S501_4.8 S3 ME3LA4**	634	**S501_4.8 P100 BE100LA4**	635
442	46	1.0	3.9	1220	**S301_3.9 S3 ME3LA4**	630	**S301_3.9 P100 BE100LA4**	631
454	45	2.6	3.8	4560	**S501_3.8 S3 ME3LA4**	634	**S501_3.8 P100 BE100LA4**	635
458	45	1.7	3.8	2503	**S401_3.8 S3 ME3LA4**	632	**S401_3.8 P100 BE100LA4**	633
570	36	1.3	3.1	1174	**S301_3.1 S3 ME3LA4**	630	**S301_3.1 P100 BE100LA4**	631
572	36	2.1	3.1	2548	**S401_3.1 S3 ME3LA4**	632	**S401_3.1 P100 BE100LA4**	633
721	28	1.6	2.4	1091	**S301_2.4 S3 ME3LA4**	630	**S301_2.4 P100 BE100LA4**	631
730	28	2.6	2.4	2002	**S401_2.4 S3 ME3LA4**	632	**S401_2.4 P100 BE100LA4**	633
942	22	2.6	1.9	1856	**S401_1.9 S3 ME3LA4**	632	**S401_1.9 P100 BE100LA4**	633
956	21	1.3	1.8	1027	**S301_1.8 S3 ME3LA4**	630	**S301_1.8 P100 BE100LA4**	631
1240	17	1.7	1.4	963	**S301_1.4 S3 ME3LA4**	630	**S301_1.4 P100 BE100LA4**	631
1254	16	1.0	1.4	658	**S201_1.4 S3 ME3LA4**	628	**S201_1.4 P100 BE100LA4**	629

3 kW

n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
234	120	1.0	7.4	3648	**S501_7.4 S3 ME3LB4**	634	**S501_7.4 P100 BE100LB4**	635
287	98	1.2	6.1	3539	**S501_6.1 S3 ME3LB4**	634	**S501_6.1 P100 BE100LB4**	635
359	78	0.9	4.8	2120	**S401_4.8 S3 ME3LB4**	632	**S401_4.8 P100 BE100LB4**	633
365	77	1.6	4.8	3739	**S501_4.8 S3 ME3LB4**	634	**S501_4.8 P100 BE100LB4**	635
452	62	1.9	3.8	3922	**S501_3.8 S3 ME3LB4**	634	**S501_3.8 P100 BE100LB4**	635
455	62	1.2	3.8	2184	**S401_3.8 S3 ME3LB4**	632	**S401_3.8 P100 BE100LB4**	633
567	50	0.9	3.1	1009	**S301_3.1 S3 ME3LB4**	630	**S301_3.1 P100 BE100LB4**	631
568	49	1.5	3.1	2230	**S401_3.1 S3 ME3LB4**	632	**S401_3.1 P100 BE100LB4**	633
570	49	2.4	3.0	4195	**S501_3.0 S3 ME3LB4**	634	**S501_3.0 P100 BE100LB4**	635



3 kW

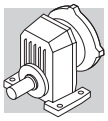
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
717	39	1.2	2.4	990	**S301_2.4 S3 ME3LB4**	630	**S301_2.4 P100 BE100LB4**	631
726	39	1.9	2.4	1929	**S401_2.4 S3 ME3LB4**	632	**S401_2.4 P100 BE100LB4**	633
937	30	1.9	1.9	1793	**S401_1.9 S3 ME3LB4**	632	**S401_1.9 P100 BE100LB4**	633
950	30	0.9	1.8	917	**S301_1.8 S3 ME3LB4**	630	**S301_1.8 P100 BE100LB4**	631
1233	23	1.2	1.4	899	**S301_1.4 S3 ME3LB4**	630	**S301_1.4 P100 BE100LB4**	631
1272	22	2.5	1.4	1656	**S401_1.4 S3 ME3LB4**	632	**S401_1.4 P100 BE100LB4**	633

3.7 kW

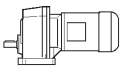
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
287	119	1.0	6.1	3420	**S501_6.1 S4 ME4SA4**	634	**S501_6.1 P112 BE112M4**	635
366	93	1.3	4.8	3219	**S501_4.8 S4 ME4SA4**	634	**S501_4.8 P112 BE112M4**	635
453	75	1.6	3.8	3064	**S501_3.8 S4 ME4SA4**	634	**S501_3.8 P112 BE112M4**	635
456	75	1.0	3.8	2001	**S401_3.8 S4 ME4SA4**	632	**S401_3.8 P112 BE112M4**	633
570	60	1.2	3.1	1957	**S401_3.1 S4 ME4SA4**	632	**S401_3.1 P112 BE112M4**	633
572	60	2.0	3.0	2891	**S501_3.0 S4 ME4SA4**	634	**S501_3.0 P112 BE112M4**	635
719	47	1.0	2.4	917	**S301_2.4 S4 ME4SA4**	630	**S301_2.4 P112 BE112M4**	631
723	47	2.5	2.4	2709	**S501_2.4 S4 ME4SA4**	634	**S501_2.4 P112 BE112M4**	635
728	47	1.6	2.4	1847	**S401_2.4 S4 ME4SA4**	632	**S401_2.4 P112 BE112M4**	633
940	36	1.5	1.9	1820	**S401_1.9 S4 ME4SA4**	632	**S401_1.9 P112 BE112M4**	633
973	35	2.6	1.8	2827	**S501_1.8 S4 ME4SA4**	634	**S501_1.8 P112 BE112M4**	635
1236	28	1.0	1.4	844	**S301_1.4 S4 ME4SA4**	630	**S301_1.4 P112 BE112M4**	631
1276	27	2.1	1.4	1911	**S401_1.4 S4 ME4SA4**	632	**S401_1.4 P112 BE112M4**	633

5.5 kW

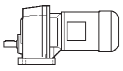
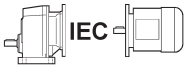
n_2 rpm	M_2 Nm	S	i	R_{n2} N			IEC	
458	113	1.1	3.8	2873	**S501_3.8 S4 ME4SB4**	634	**S501_3.8 P132 BE132S4**	635
578	89	1.3	3.0	2736	**S501_3.0 S4 ME4SB4**	634	**S501_3.0 P132 BE132S4**	635
731	71	1.7	2.4	2581	**S501_2.4 S4 ME4SB4**	634	**S501_2.4 P132 BE132S4**	635
736	70	1.1	2.4	1702	**S401_2.4 S4 ME4SB4**	632	**S401_2.4 P132 BE132S4**	633
950	54	1.0	1.9	1611	**S401_1.9 S4 ME4SB4**	632	**S401_1.9 P132 BE132S4**	633
984	53	1.7	1.8	2380	**S501_1.8 S4 ME4SB4**	634	**S501_1.8 P132 BE132S4**	635
1239	42	2.2	1.4	2234	**S501_1.4 S4 ME4SB4**	634	**S501_1.4 P132 BE132S4**	635
1291	40	1.4	1.4	1511	**S401_1.4 S4 ME4SB4**	632	**S401_1.4 P132 BE132S4**	633



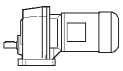
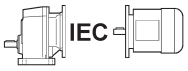
7.5 kW

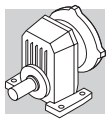
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
578	122	1.0	3.0	2563	**S501_3.0 S4 ME4LA4**	634	**S501_3.0 P132 BE132MA4**	635
731	97	1.2	2.4	2435	**S501_2.4 S4 ME4LA4**	634	**S501_2.4 P132 BE132MA4**	635
984	72	1.3	1.8	2271	**S501_1.8 S4 ME4LA4**	634	**S501_1.8 P132 BE132MA4**	635
1239	57	1.6	1.4	2143	**S501_1.4 S4 ME4LA4**	634	**S501_1.4 P132 BE132MA4**	635
1291	55	1.0	1.4	1401	**S401_1.4 S4 ME4LA4**	632	**S401_1.4 P132 BE132MA4**	633

9.2 kW

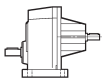
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
731	118	1.0	2.4	2143	**S501_2.4 S4 ME4LB4**	634	**S501_2.4 P132 BE132MB4**	635
984	88	1.0	1.8	2180	**S501_1.8 S4 ME4LB4**	634	**S501_1.8 P132 BE132MB4**	635
1239	70	1.3	1.4	2070	**S501_1.4 S4 ME4LB4**	634	**S501_1.4 P132 BE132MB4**	635

11 kW

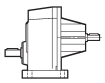
n_2 rpm	M_2 Nm	S	i	R_{n2} N			 IEC	
1242	84	1.1	1.4	1961	**S501_1.4 S5 ME5SA4**	634	**S501_1.4 P160 BE160M4**	635

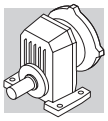


S 10 — 21 Nm

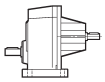
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
S 10 1_1.4	1.4	1286	9	1.3	800	355	857	11	1.0	800	410	
S 10 1_1.9	1.9	947	9	0.93	800	419	632	11	0.71	800	483	
S 10 1_2.5	2.5	720	9	0.71	800	474	480	11	0.54	800	547	
S 10 1_3.2	3.2	563	11	0.66	800	510	375	13	0.51	800	589	
S 10 1_3.8	3.8	474	11	0.56	800	556	316	13	0.43	800	641	
S 10 1_4.7	4.7	383	11	0.45	800	601	255	13	0.34	800	694	487
S 10 1_6.1	6.1	295	14	0.43	800	647	197	16	0.33	800	746	
S 10 1_6.9	6.9	261	14	0.38	800	674	174	16	0.29	800	778	
S 10 1_8.9	8.9	202	9	0.20	800	802	135	11	0.15	800	925	
S 10 1_10.3	10.3	175	9	0.17	800	847	117	11	0.13	800	977	
S 10 1_12.3	12.3	146	9	0.14	800	911	98	11	0.11	800	1051	

S 20 — 37 Nm

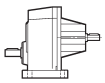
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
S 20 1_1.4	1.4	1286	16	2.1	1000	676	857	18	1.6	1000	778	
S 20 1_1.9	1.9	947	16	1.6	1000	786	632	18	1.2	1000	904	
S 20 1_2.4	2.4	750	24	1.9	781	786	500	27	1.5	890	904	
S 20 1_3.1	3.1	581	24	1.5	882	868	387	27	1.1	1000	998	
S 20 1_3.9	3.9	462	24	1.18	919	969	308	27	0.90	1000	1114	
S 20 1_4.8	4.8	375	24	0.96	919	1060	250	27	0.73	1000	1219	487
S 20 1_5.8	5.8	310	24	0.79	960	1152	207	27	0.60	1000	1324	
S 20 1_7.2	7.2	250	24	0.64	980	1252	167	27	0.49	1000	1440	
S 20 1_8.5	8.5	212	16	0.35	1000	1371	141	18	0.27	1000	1500	
S 20 1_10.8	10.8	167	16	0.28	1000	1371	111	18	0.21	1000	1500	
S 20 1_12.4	12.4	145	16	0.24	1000	1430	97	18	0.18	1000	1500	

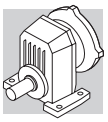


S 30 — 70 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
S 30 1_1.4	1.4	1286	28	3.8	1500	889	857	32	2.9	1500	1019	
S 30 1_1.8	1.8	1000	28	2.9	1500	1000	667	32	2.2	1500	1146	
S 30 1_2.4	2.4	750	46	3.7	1386	981	500	53	2.8	1500	1125	
S 30 1_3.1	3.1	581	46	2.9	1470	1100	387	53	2.2	1500	1261	
S 30 1_3.9	3.9	462	46	2.3	1500	1247	308	53	1.7	1500	1429	
S 30 1_4.9	4.9	367	46	1.8	1500	1376	245	53	1.4	1500	1577	489
S 30 1_5.8	5.8	310	46	1.5	1500	1476	207	53	1.2	1500	1692	
S 30 1_7.1	7.1	254	46	1.2	1500	1605	169	53	0.95	1500	1839	
S 30 1_8.9	8.9	202	28	0.60	1500	1907	135	32	0.45	1500	2186	
S 30 1_10.3	10.3	175	28	0.51	1500	2008	117	32	0.39	1500	2302	
S 30 1_13.1	13.1	137	28	0.40	1500	2201	92	32	0.31	1500	2400	

S 40 — 125 Nm

	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
S 40 1_1.4	1.4	1286	56	7.6	2000	1456	857	63	5.7	2000	1688	
S 40 1_1.9	1.9	947	56	5.6	2000	1665	632	63	4.2	2000	1931	
S 40 1_2.4	2.4	750	83	6.7	1860	1702	500	94	5.0	2000	1973	
S 40 1_3.1	3.1	581	83	5.2	2000	1893	387	94	3.9	2000	2194	
S 40 1_3.8	3.8	474	83	4.2	2000	2084	316	94	3.2	2000	2416	
S 40 1_4.8	4.8	375	83	3.3	2000	2302	250	94	2.5	2000	2669	489
S 40 1_6.1	6.1	295	83	2.6	2000	2539	197	94	2.0	2000	2943	
S 40 1_7.2	7.2	250	74	2.0	2000	2757	167	84	1.5	2000	3197	
S 40 1_8.6	8.6	209	56	1.2	2000	3067	140	63	0.94	2000	3555	
S 40 1_10.7	10.7	168	46	0.83	2000	3358	112	52	0.63	2000	3800	
S 40 1_12.4	12.4	145	46	0.72	2000	3458	97	52	0.54	2000	3800	



S 50 — 200 Nm

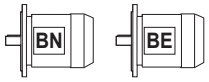
	i	n_1 = 1800 rpm					n_1 = 1200 rpm					
		n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	n_2 rpm	M_{n2} Nm	P_{n1} kW	R_{n1} N	R_{n2} N	
S 50 1_1.4	1.4	1286	101	13.9	730	1961	857	115	10.6	768	2268	
S 50 1_1.8	1.8	1000	101	10.8	1220	2189	667	115	8.2	1441	2532	
S 50 1_2.4	2.4	750	119	9.6	930	2408	500	136	7.3	1020	2785	
S 50 1_3.0	3.0	600	128	8.2	902	2627	400	147	6.3	1073	3038	
S 50 1_3.8	3.8	474	138	7.0	760	2855	316	157	5.3	905	3302	
S 50 1_4.8	4.8	375	138	5.5	1025	3119	250	157	4.2	1220	3608	491
S 50 1_6.1	6.1	295	119	3.8	2060	3539	197	136	2.9	2400	4093	
S 50 1_7.4	7.4	243	119	3.1	2122	3821	162	136	2.4	2400	4420	
S 50 1_8.8	8.8	205	101	2.2	2400	4168	136	115	1.7	2400	4821	
S 50 1_10.5	10.5	171	101	1.8	2400	4441	114	115	1.4	2400	5138	
S 50 1_12.9	12.9	140	92	1.4	2400	4834	93	100	1.0	2400	5592	

71 DISPONIBILIDADE DE MOTOR

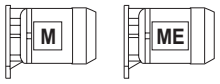
Observe que as combinações de motor e redutor resultantes das tabelas (E68) e (E69) baseiam-se meramente na compatibilidade geométrica.

Ao selecionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição $S \geq f_s$.

(E 71)

		IEC_  (IM B5)								
		P63	P71	P80	P90	P100	P112	P132	P160	P180
S 10 1	i =	1.4_12.3	1.4_12.3	1.4_8.9	1.4_8.9	1.4_8.9	1.4_8.9			
S 20 1		1.9_12.4	1.9_12.4	1.4_10.8	1.4_10.8	1.4_10.8	1.4_10.8			
S 30 1		2.4_13.1	2.4_13.1	1.4_13.1	1.4_13.1	1.4_13.1	1.4_13.1	1.4_4.9		
S 40 1		3.1_12.4	3.1_12.4	1.4_12.4	1.4_12.4	1.4_12.4	1.4_12.4	1.4_6.1		
S 50 1		3.8_12.9	3.8_12.9	1.4_12.9	1.4_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4	1.4_7.4

(E 72)

							
		M05	M1	M2 - ME2	ME3	ME4	ME5
S 10 1	i =	1.4_12.3	1.4_6.9	1.4_8.9	1.4_8.9		
S 20 1		1.9_12.4	1.9_8.5	1.4_10.8	1.4_10.8		
S 30 1			2.4_10.3	1.4_13.1	1.4_13.1	1.4_4.9	
S 40 1			3.1_12.4	1.4_12.4	1.4_12.4	1.4_6.1	
S 50 1			3.8_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4

72 MOMENTO DE INÉRCIA

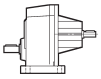
As tabelas abaixo indicam os valores de momento de inércia Jr [kgm²] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:



Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.



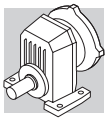
Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).



Este símbolo refere-se a valores para redutores.

S 10

	i	J (•10-4) [kgm²]							
			IEC						
			63	71	80	90	100	112	
S 10 1_1.4	1.4	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
S 10 1_1.9	1.9	0.22	1.7	1.7	3.1	3.0	4.3	4.3	1.1
S 10 1_2.5	2.5	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.0
S 10 1_3.2	3.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.97
S 10 1_3.9	3.9	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.95
S 10 1_4.7	4.7	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.93
S 10 1_6.1	6.1	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.92
S 10 1_6.9	6.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.91
S 10 1_8.9	8.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
S 10 1_10.3	10.3	0.02	1.5	1.5	—	—	—	—	0.89
S 10 1_12.3	12.3	0.01	1.5	1.5	—	—	—	—	0.89

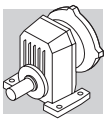


S 20

	i	J (•10-4) [kgm2]							
			IEC						
			63	71	80	90	100	112	
S 20 1_1.4	1.4	0.73	—	—	3.6	3.5	4.8	4.8	2.7
S 20 1_1.9	1.9	0.48	1.9	1.9	3.3	3.3	4.6	4.6	2.4
S 20 1_2.4	2.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	2.3
S 20 1_3.1	3.1	0.20	1.7	1.7	3.0	3.0	4.3	4.3	2.1
S 20 1_3.9	3.9	0.14	1.6	1.6	3.0	2.9	4.2	4.2	2.1
S 20 1_4.8	4.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
S 20 1_5.8	5.8	0.08	1.6	1.5	2.9	2.9	4.2	4.2	2.0
S 20 1_7.2	7.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	2.0
S 20 1_8.5	8.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
S 20 1_10.8	10.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
S 20 1_12.4	12.4	0.02	1.5	1.5	—	—	—	—	1.9

S 30

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
S 30 1_1.4	1.4	1.5	—	—	4.3	4.3	5.6	5.6	18	3.8
S 30 1_1.8	1.8	1.1	—	—	3.9	3.8	5.1	5.1	18	3.4
S 30 1_2.4	2.4	0.59	2.1	2.0	3.4	3.4	4.7	4.7	17	2.9
S 30 1_3.1	3.1	0.45	1.9	1.9	3.3	3.2	4.5	4.5	17	2.8
S 30 1_3.9	3.9	0.33	1.8	1.8	3.2	3.1	4.4	4.4	17	2.7
S 30 1_4.9	4.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	17	2.6
S 30 1_5.8	5.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.6
S 30 1_7.1	7.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.5
S 30 1_8.9	8.9	0.10	1.6	1.6	2.9	2.9	4.2	4.2	—	2.5
S 30 1_10.3	10.3	0.08	1.5	1.5	2.9	2.9	4.2	4.2	—	2.4
S 30 1_13.1	13.1	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.4



S 40

	i	J (•10-4) [kgm2]								
			IEC							
			63	71	80	90	100	112	132	
S 40 1_1.4	1.4	3.7	—	—	6.5	6.5	7.8	7.8	23	14
S 40 1_1.9	1.9	2.4	—	—	5.2	5.2	6.5	6.5	21	13
S 40 1_2.4	2.4	1.6	—	—	4.4	4.4	5.7	5.7	21	12
S 40 1_3.1	3.1	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	12
S 40 1_3.8	3.8	0.82	2.3	2.3	3.7	3.6	4.9	4.9	18	11
S 40 1_4.8	4.8	0.50	2.0	2.0	3.3	3.3	4.6	4.6	18	11
S 40 1_6.1	6.1	0.39	1.8	1.8	3.2	3.2	4.5	4.5	18	11
S 40 1_7.2	7.2	0.30	1.8	1.8	3.1	3.1	4.4	4.4	—	11
S 40 1_8.6	8.6	0.22	1.7	1.7	3.1	3.0	4.3	4.3	—	11
S 40 1_10.7	10.7	0.15	1.6	1.6	3.0	2.9	4.2	4.2	—	11
S 40 1_12.4	12.4	0.12	1.6	1.6	3.0	2.8	4.2	4.2	—	11

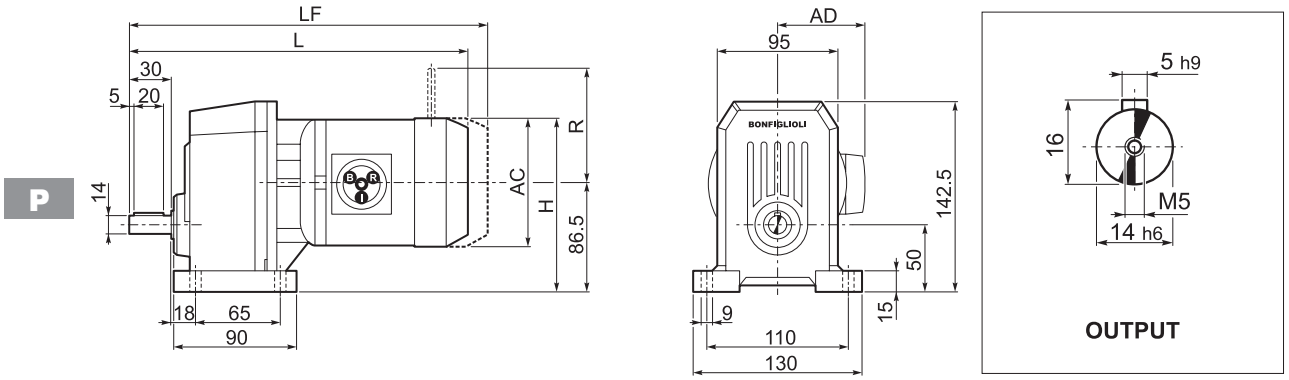
S 50

	i	J (•10-4) [kgm2]									
			IEC								
			63	71	80	90	100	112	132	160	180	
S 50 1_1.4	1.4	8.2	—	—	11	11	12	12	27	86	84	19
S 50 1_1.8	1.8	5.9	—	—	8.8	8.7	10	10	25	84	82	16
S 50 1_2.4	2.4	3.9	—	—	6.8	6.7	8.0	8.0	23	82	80	14
S 50 1_3.0	3.0	2.7	—	—	5.5	5.5	6.8	6.8	22	81	79	13
S 50 1_3.8	3.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	12
S 50 1_4.8	4.8	1.4	2.8	2.8	4.2	4.1	5.4	5.4	21	79	77	12
S 50 1_6.1	6.1	0.89	2.4	2.4	3.7	3.7	5.0	5.0	21	79	77	11
S 50 1_7.4	7.4	0.63	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	11
S 50 1_8.8	8.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
S 50 1_10.5	10.5	0.36	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
S 50 1_12.9	12.9	0.25	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	11

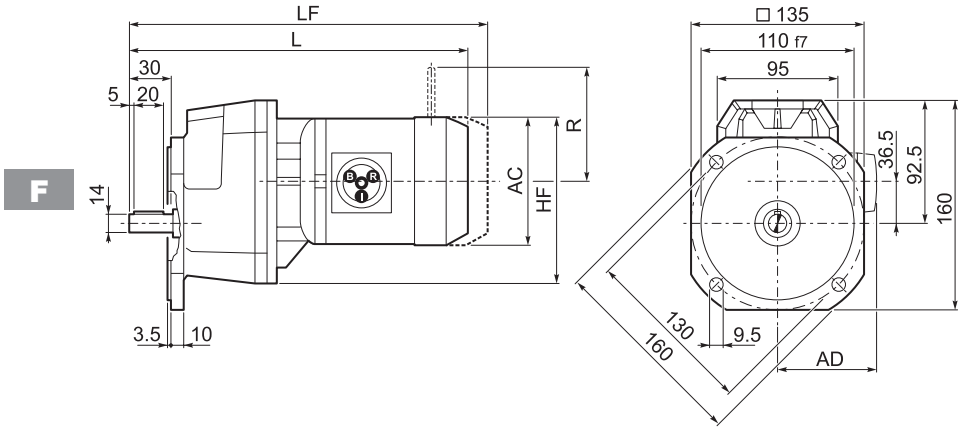
73 DIMENSÕES

S 10...M/ME

P



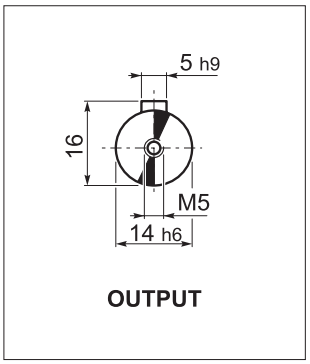
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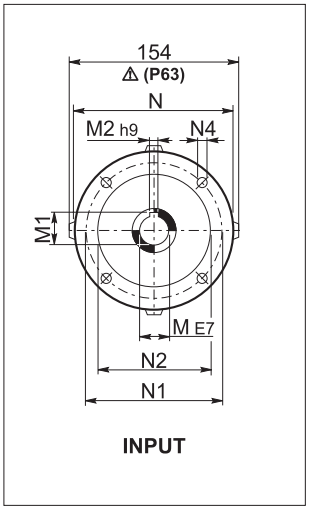


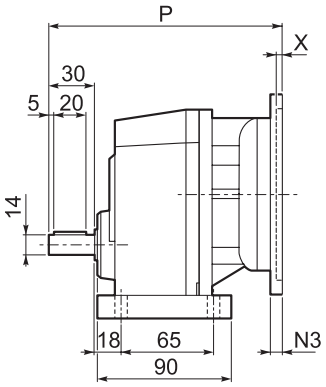
Dimensões em mm

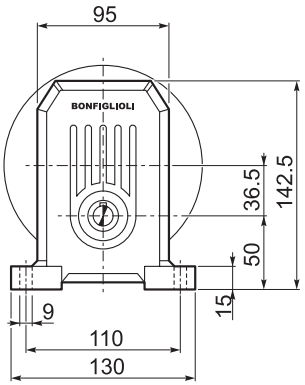
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
S 10 1	**S05**	**M05**	121	147	143	315	95	8	381	11	96	122	116	95
S 10 1	**S1**	**M1**	137	155	151	344	102	10	405	13	103	135	124	108
S 10 1	**S2**	**M2S**	156	164	160	367	111	13	443	17	129	146	134	119
S 10 1	**S2**	**ME2S**	156	164	160	367	111	13	—	—	—	—	—	—
S 10 1	**S3**	**ME3S**	195	184	180	416	135	20.5	—	—	—	—	—	—
S 10 1	**S3**	**ME3L**	195	184	180	448	135	21	—	—	—	—	—	—

S 10...P (IEC)

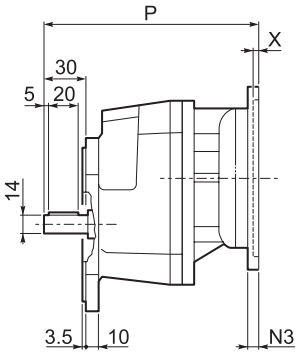


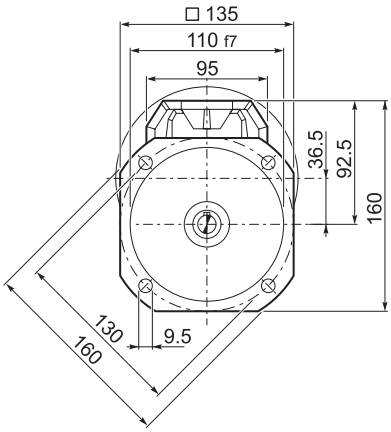






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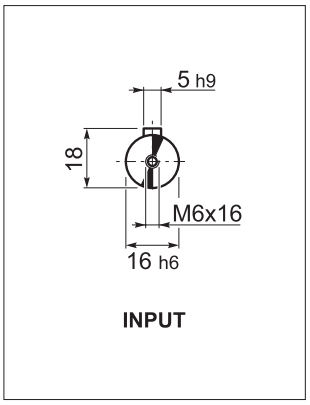


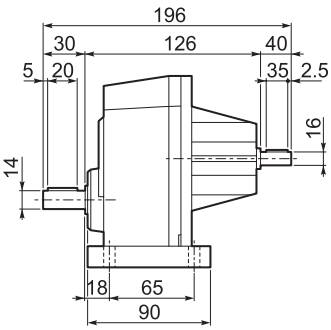
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Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 10 1	**P63**	11	12.8	4	140	115	95	—	M8x10	189	4	5
S 10 1	**P71**	14	16.3	5	160	130	110	—	M8x10	189	4.5	5
S 10 1	**P80**	19	21.8	6	200	165	130	—	M10x14.5	208	4	6
S 10 1	**P90**	24	27.3	8	200	165	130	—	M10x14.5	208	4	6
S 10 1	**P100**	28	31.3	8	250	215	180	—	M12x16	218	4.5	10
S 10 1	**P112**	28	31.3	8	250	215	180	—	M12x16	218	4.5	10

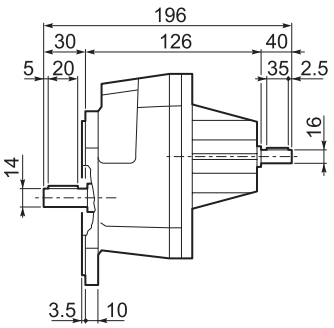
S 10...HS





P

Kg	4.4

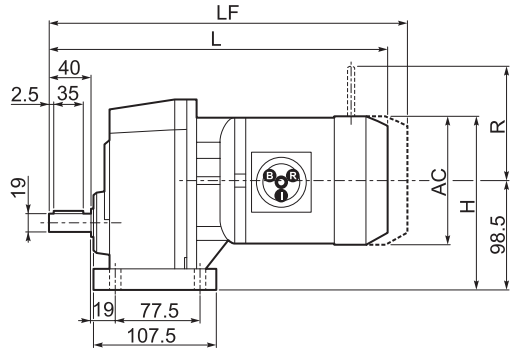


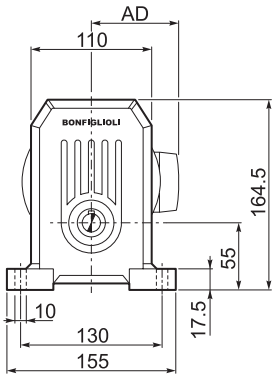
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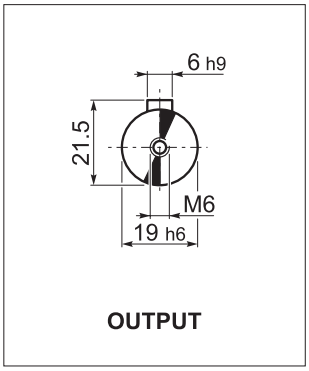
Kg	4.5

S 20...M/ME

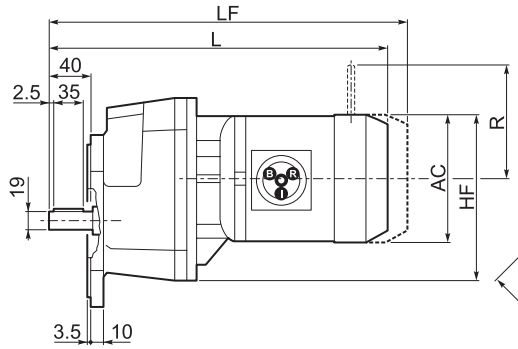
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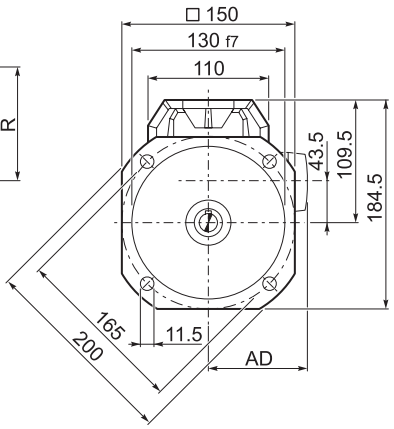






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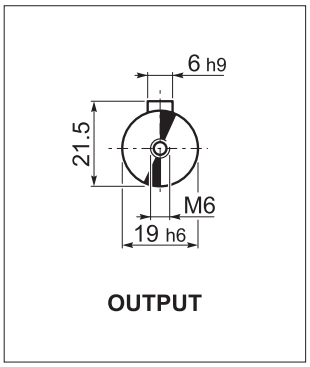


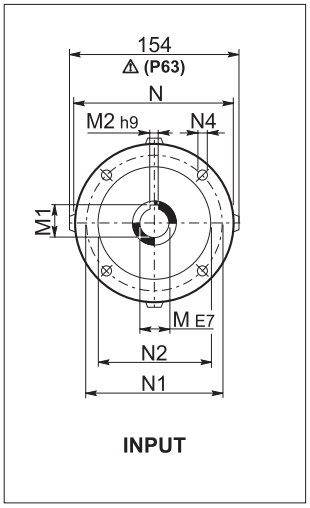


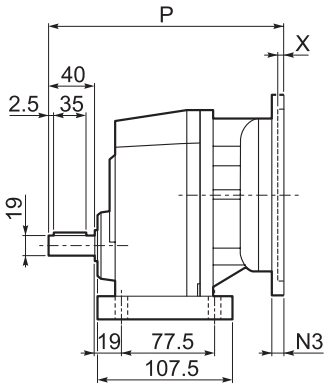
Dimensões em mm

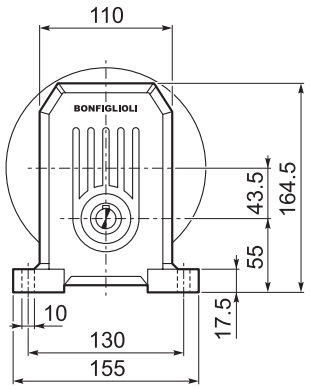
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg	LF	Kg	R	AD	R	AD
S 20 1	**S05**	**M05**	121	159	153	333.5	95	10	399.5	12	96	122	116	95
S 20 1	**S1**	**M1**	137	167	161	362.5	102	12	423.5	14	103	135	124	108
S 20 1	**S2**	**M2S**	156	176	170	385.5	111	16	461.5	19	129	146	134	119
S 20 1	**S2**	**ME2S**	156	176	170	385.5	111	16	—	—	—	—	—	—
S 20 1	**S3**	**ME3S**	195	196	190	434.5	135	21.5	—	—	—	—	—	—
S 20 1	**S3**	**ME3L**	195	196	190	466.5	135	26	—	—	—	—	—	—

S 20...P(IEC)

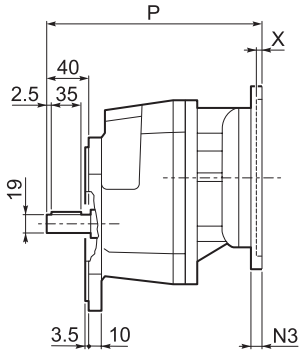


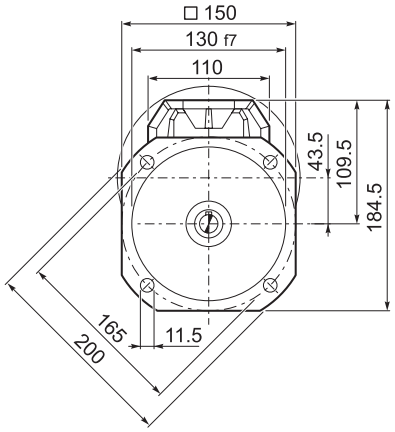






P



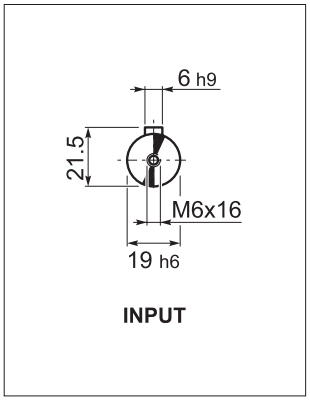


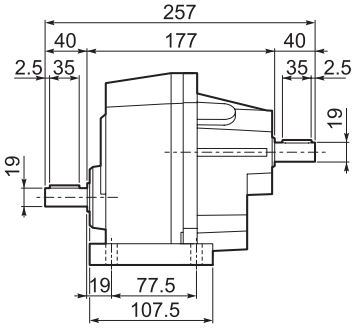
F

Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 20 1	**P63**	11	12.8	4	140	115	95	—	M8x10	207	4	6
S 20 1	**P71**	14	16.3	5	160	130	110	—	M8x10	207	4.5	6
S 20 1	**P80**	19	21.8	6	200	165	130	—	M10x14.5	227	4	7
S 20 1	**P90**	24	27.3	8	200	165	130	—	M10x14.5	227	4	7
S 20 1	**P100**	28	31.3	8	250	215	180	—	M12x16	237	4.5	11
S 20 1	**P112**	28	31.3	8	250	215	180	—	M12x16	237	4.5	11

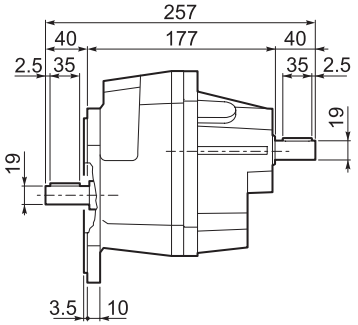
S 20...HS





P

Kg	6.0

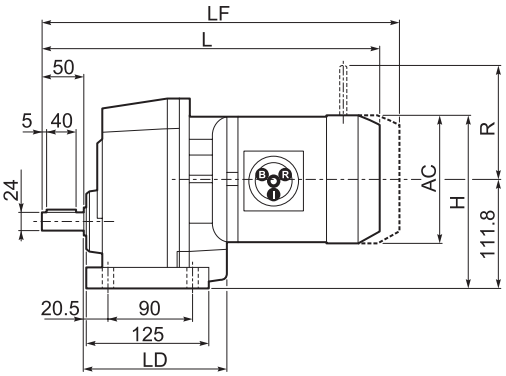


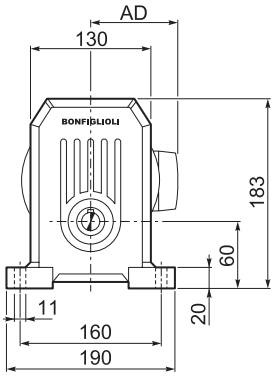
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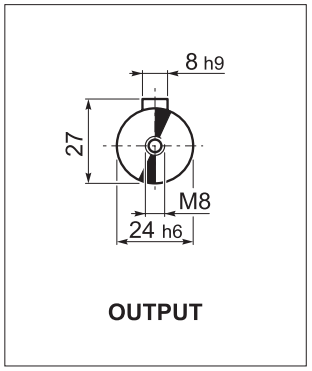
Kg	6.2

S 30...M/ME

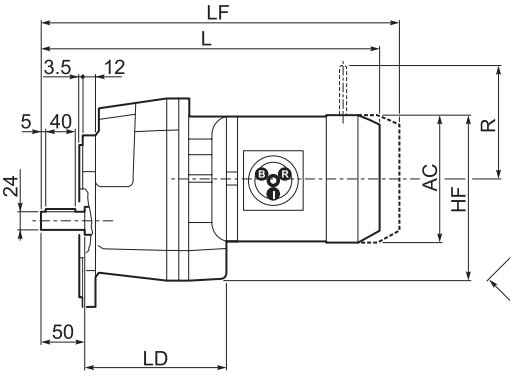
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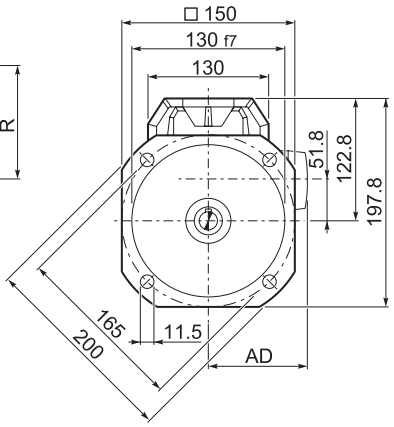






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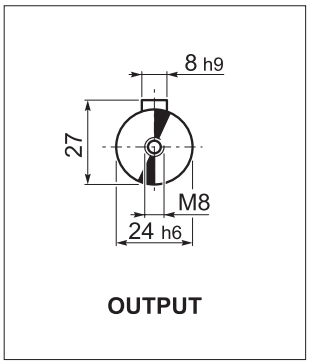


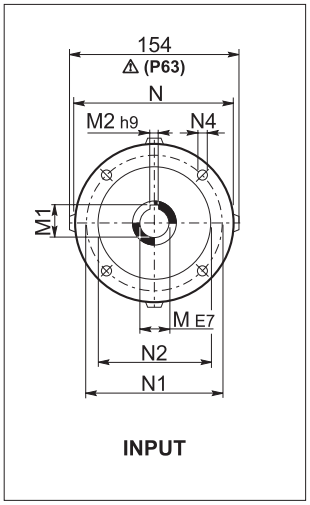


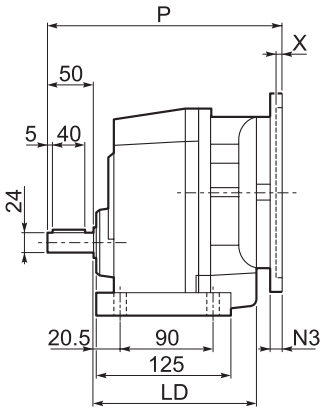
Dimensões em mm

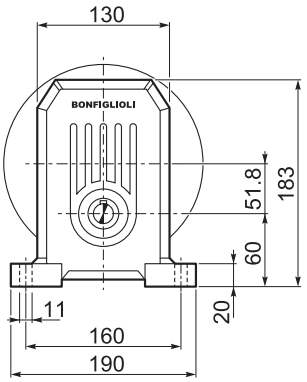
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
S 30 1	**S1**	**M1**		137	180	177	387.5	140.5	102	14	448.5	16	103	135	124	108
S 30 1	**S2**	**MES**		156	190	186	410.5	152.5	111	18	486.5	21	129	146	134	119
S 30 1	**S2**	**ME2S**		156	190	186	410.5	152.5	111	18	—	—	—	—	—	—
S 30 1	**S3**	**ME3S**		195	209	206	459.5	162.5	135	24.5	—	—	—	—	—	—
S 30 1	**S3**	**ME3L**		195	209	206	491.5	162.5	135	32	—	—	—	—	—	—
S 30 1	**S4**	**ME4**	**MX4**	258	240.8	237	599.5	—	193	71	—	—	—	—	—	—
S 30 1	**S4**	**ME4LB**	**MX4LA**	258	240.8	237	634.5	—	193	79	—	—	—	—	—	—

S 30...P(IEC)

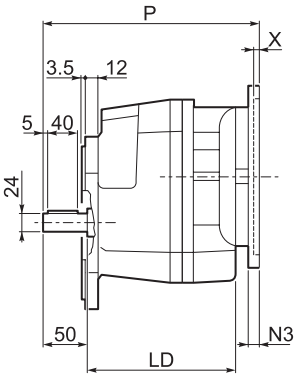


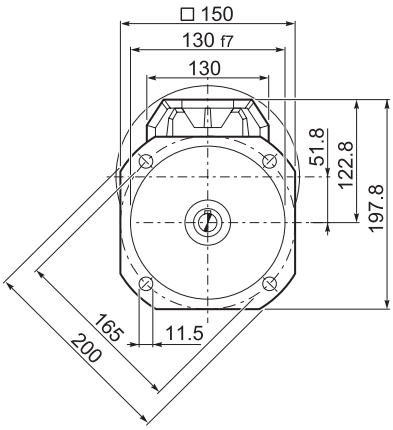






P



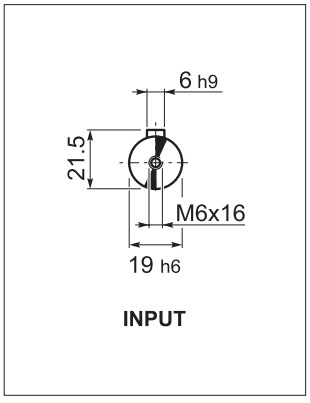


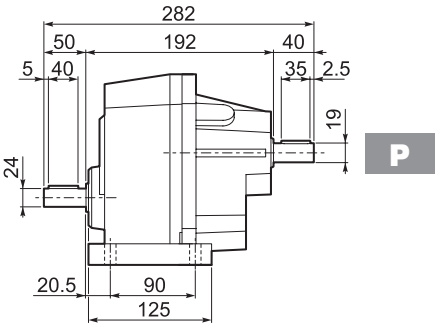
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Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 30 1	**P63**	152.5	11	12.8	4	140	115	95	—	M8x10	232	4	8
S 30 1	**P71**	152.5	14	16.3	5	160	130	110	—	M8x10	232	4.5	8
S 30 1	**P80**	162.5	19	21.8	6	200	165	130	—	M10x14.5	252	4	9
S 30 1	**P90**	162.5	24	27.3	8	200	165	130	—	M10x14.5	252	4	9
S 30 1	**P100**	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	**P112**	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	**P132**	—	38	41.3	10	300	265	230	16	14	298.5	5	21

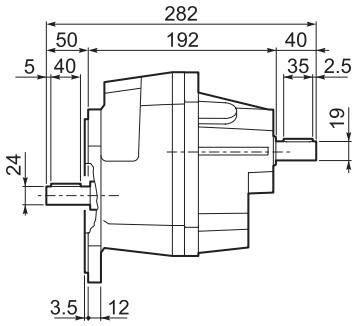
S 30...HS





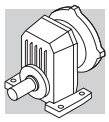
P

Kg	9.0



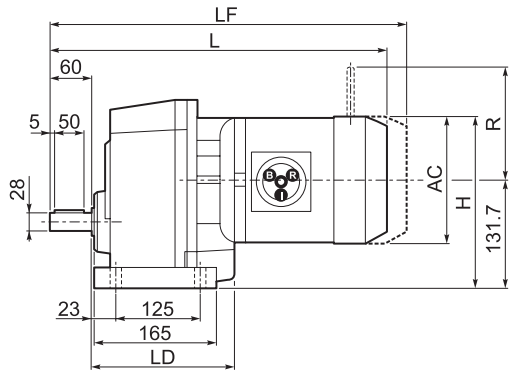
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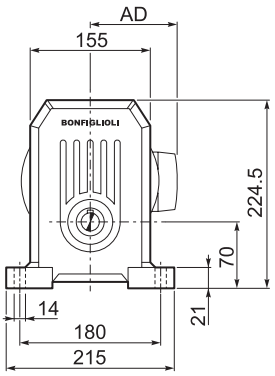
Kg	9.3

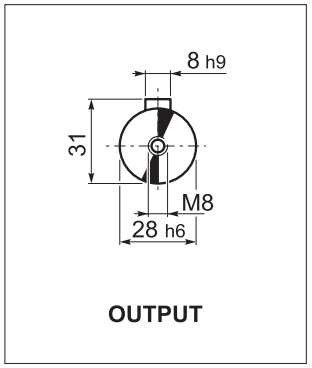


S 40...M/ME

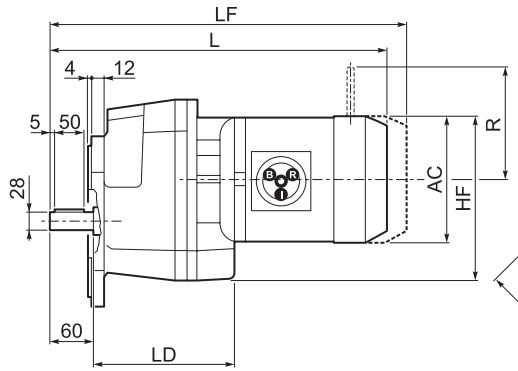
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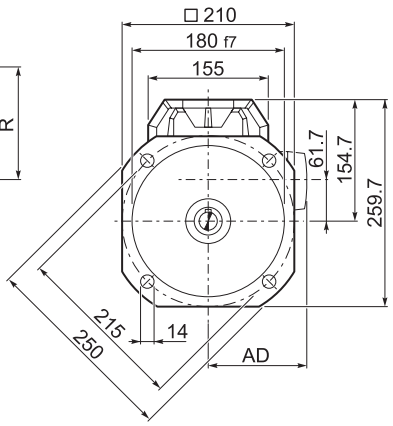






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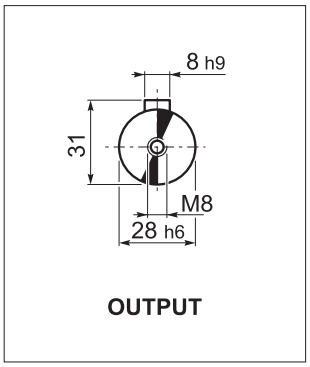


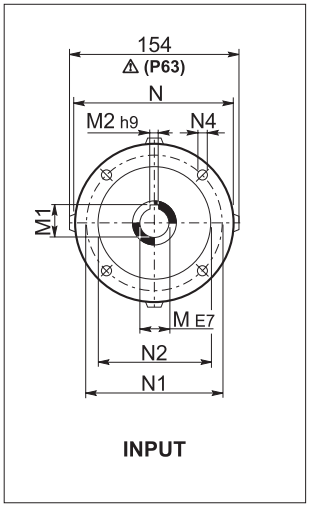


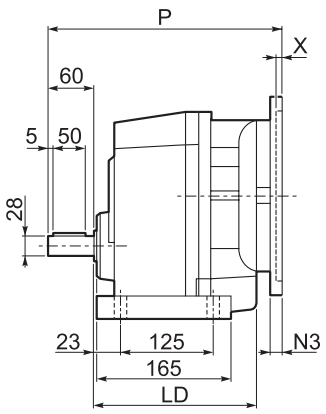
Dimensões em mm

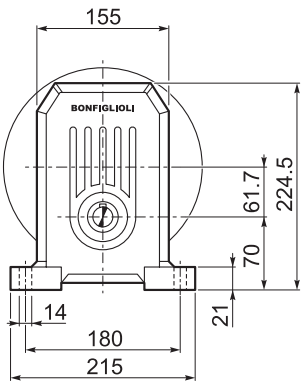
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
S 40 1	**S1**	**M1**		137	200	197	429.5	168	102	28	490.5	31	103	135	124	108
S 40 1	**S2**	**M2S**		156	210	206	452.5	183.5	111	34	528.5	37	129	146	134	119
S 40 1	**S2**	**ME2S**		156	210	206	452.5	183.5	111	34	—	—	—	—	—	—
S 40 1	**S3**	**ME3S**		195	229	226	501.5	199.5	135	40.5	—	—	—	—	—	—
S 40 1	**S3**	**ME3L**		195	229	226	533.5	199.5	135	48	—	—	—	—	—	—
S 40 1	**S4**	**ME4**	**MX4**	258	261	257	641.5	—	193	82	—	—	—	—	—	—
S 40 1	**S4**	**ME4LB**	**MX4LA**	258	261	257	676.5	—	193	90	—	—	—	—	—	—

S 40...P(IEC)

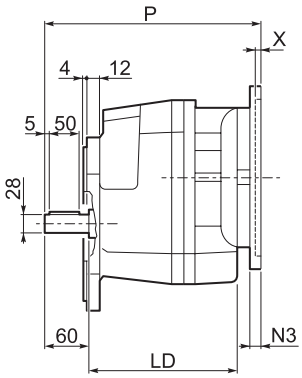


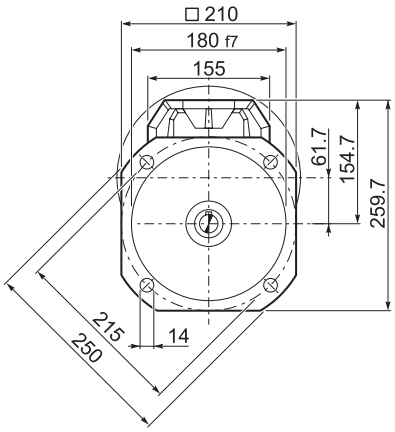






P



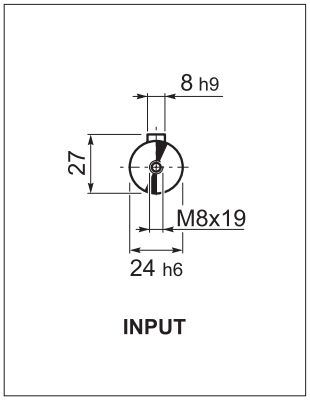


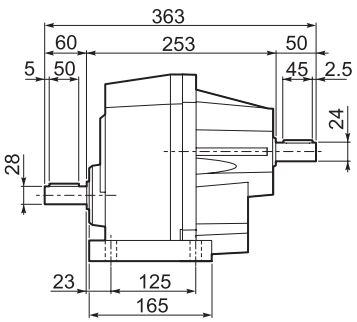
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Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 40 1	**P63**	183.5	11	12.8	4	140	115	95	—	M8x10	274	4	25
S 40 1	**P71**	183.5	14	16.3	5	160	130	110	—	M8x10	274	4.5	26
S 40 1	**P80**	199.5	19	21.8	6	200	165	130	—	M10x14.5	294	4	26
S 40 1	**P90**	199.5	24	27.3	8	200	165	130	—	M10x14.5	294	4	30
S 40 1	**P100**	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	**P112**	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	**P132**	—	38	41.3	10	300	265	230	16	14	340	5	32

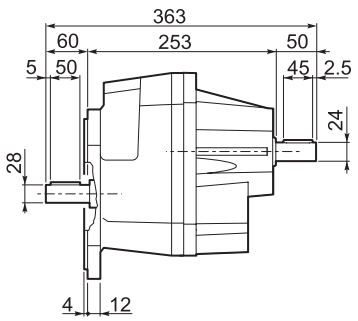
S 40...HS





P

Kg	26.0

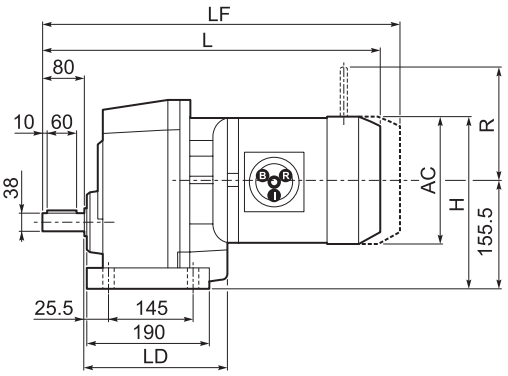


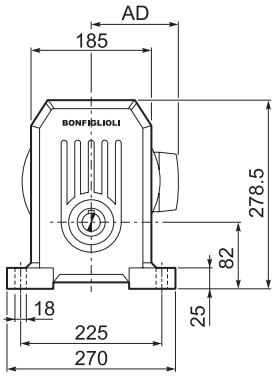
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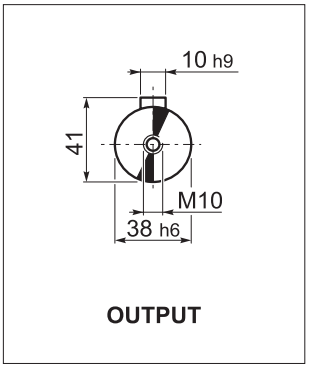
Kg	27.7

S 50...M/ME

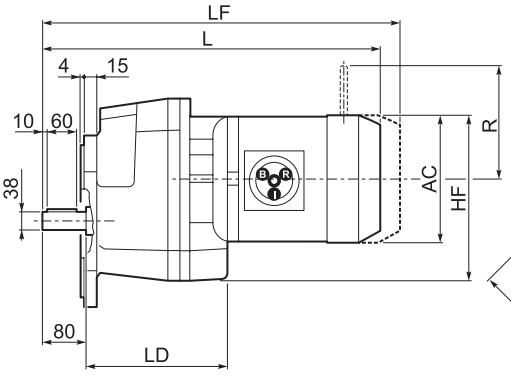
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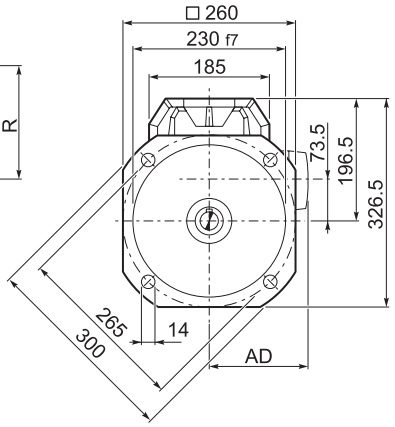






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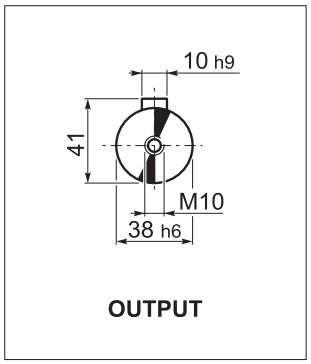


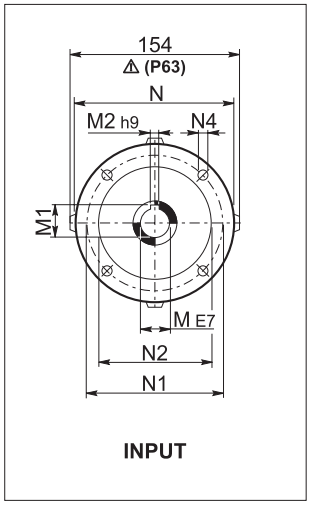
Dimensões em mm

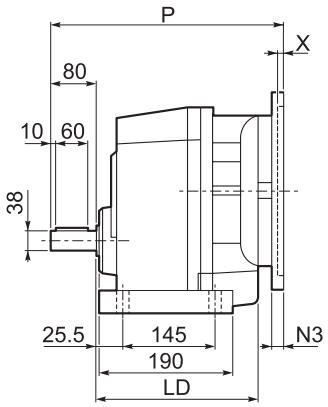
											M...FD M...FA		M...FD		M...FA	
				AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
S 50 1	**S1**	**M1**		137	225	222	469	—	102	40	530	42	103	135	124	108
S 50 1	**S2**	**M2S**		156	233	230	492.5	204.5	111	44	568.5	47	129	146	134	119
S 50 1	**S2**	**ME2S**		156	233	230	492.5	204.5	111	44	—	—	—	—	—	—
S 50 1	**S3**	**ME3S**		195	253	250	541.5	219.5	135	52.5	—	—	—	—	—	—
S 50 1	**S3**	**ME3L**		195	253	250	573.5	219.5	135	60	—	—	—	—	—	—
S 50 1	**S4**	**ME4**	**MX4**	258	284	281	681.5	204.5	193	86	—	—	—	—	—	—
S 50 1	**S4**	**ME4LB**	**MX4LA**	258	284	281	716.5	204.5	193	94	—	—	—	—	—	—
S 50 1	**S5**	**ME5S**	**MX5S**	310	310.5	307	768	—	245	114	—	—	—	—	—	—
S 50 1	**S5**	**ME5L**	**MX5L**	310	310.5	307	812	—	245	130	—	—	—	—	—	—

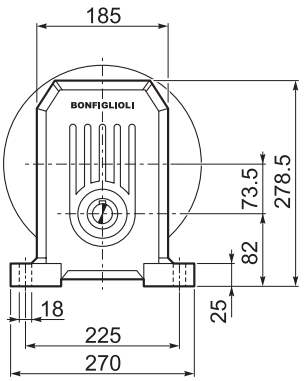
Bonfiglioli Riduttori

S 50...P(IEC)

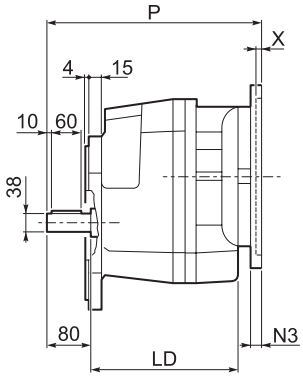


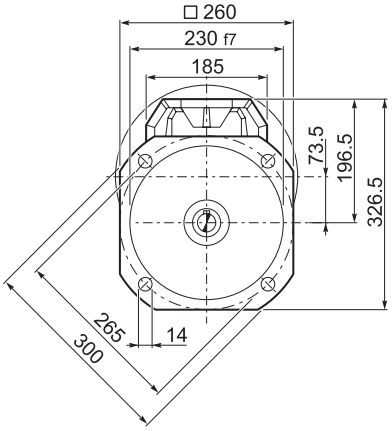






P



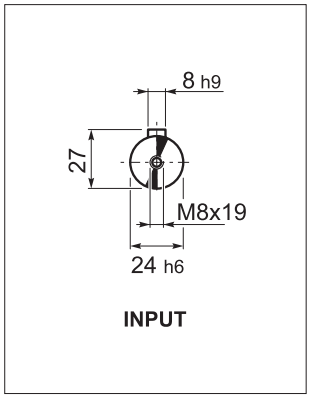


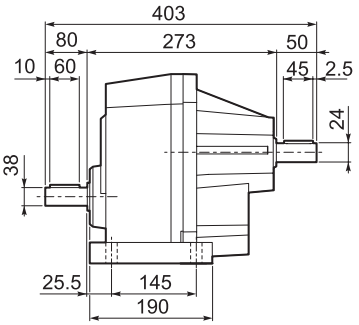
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Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 50 1	**P63**	204.5	11	12.8	4	140	115	95	—	M8x10	314	4	35
S 50 1	**P71**	204.5	14	12.8	4	160	130	110	—	M8x10	314	4.5	35
S 50 1	**P80**	219.5	19	16.3	5	200	165	130	—	M10x14.5	314	4	37
S 50 1	**P90**	219.5	24	21.8	6	200	165	130	—	M10x14.5	334	4	37
S 50 1	**P100**	204.5	28	27.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	**P112**	204.5	28	31.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	**P132**	204.5	38	41.3	10	300	265	230	16	14	380	5	44
S 50 1	**P160**	—	42	45.3	12	350	300	250	23	18	431	5.5	48
S 50 1	**P180**	—	48	51.8	14	350	300	250	23	18	431	5.5	48

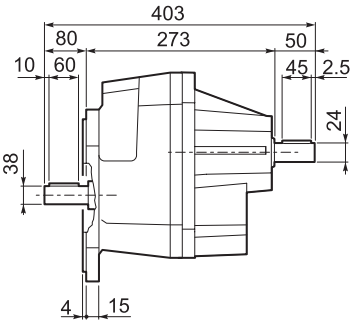
S 50...HS





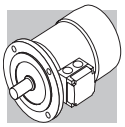
P

Kg	36



F

Kg	39



M1 SÍMBOLOS E UNIDADES DE MEDIDA

Simbologia	Unidades de Medida	Descrição
$\cos\varphi$	–	Fator de potência
η	–	Eficiência
f_m	–	Fator de ajuste de potência
I	–	Fator de duração de ciclo
I_N	[A]	Corrente nominal
I_S	[A]	Corrente do rotor bloqueado
J_C	[Kgm^2]	Momento de inércia da carga
J_M	[Kgm^2]	Momento de inércia
K_c	–	Fator de torque
K_d	–	Fator de carga
K_J	–	Fator de inércia
M_A	[Nm]	Torque de partida médio
M_B	[Nm]	Torque do freio
M_N	[Nm]	Torque nominal
M_L	[Nm]	Medição do torque durante a aceleração
M_S	[Nm]	Torque de partida

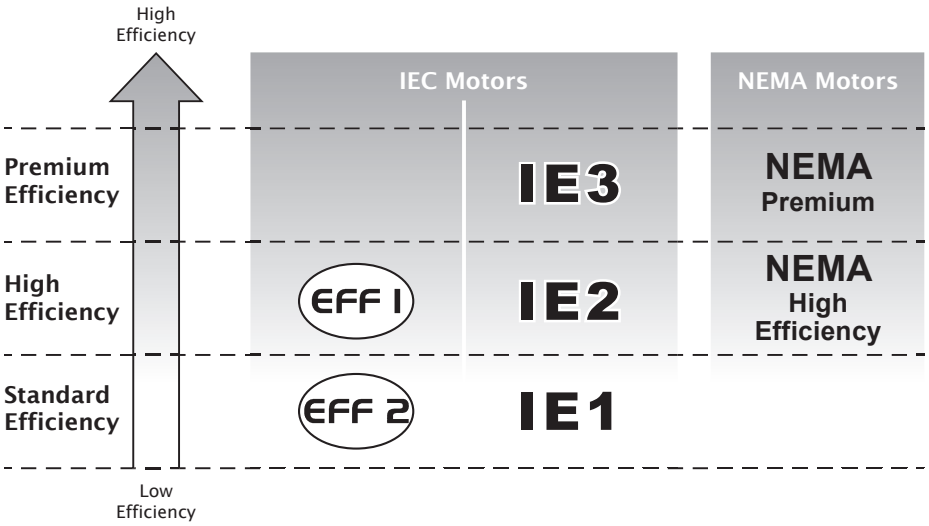
Simbologia	Unidades de Medida	Descrição
n	[rpm]	Velocidade nominal
P_B	[W]	Potência absorvida pelo freio a 20°C
P_n	[kW]	Potência nominal do motor
P_r	[kW]	Potência requerida
t_1	[ms]	Tempo de resposta do freio com retificador unidirecional
t_{1s}	[ms]	Tempo de resposta do freio com retificador controlado eletronicamente
t_2	[ms]	Tempo de reação do freio com a.c. desconectada
t_{2c}	[ms]	Tempo de reação do freio com a.c. e d.c. desconectadas
t_a	[°C]	Temperatura ambiente
t_f	[min]	Tempo de operação com carga constante
t_r	[min]	Tempo de descanso
W	[J]	Trabalho de frenagem entre o intervalo de serviço
W_{max}	[J]	Trabalho máximo do freio para cada frenagem
Z	[1/h]	Número de partidas permitidas, carregadas
Z_0	[1/h]	Número máximo de partidas permitidas, não carregadas (I = 50%)

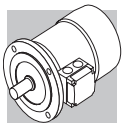
Classes de eficiência e métodos de teste

Classes de eficiência caracterizam a eficiência com a qual um motor elétrico converte a energia elétrica em energia mecânica. Na Europa, a eficiência energética dos motores elétricos de baixa tensão costuma ser classificada com o uso voluntário do sistema Eff1/Eff2/Eff3. Fora da Europa, outros países costumam aplicar seus próprios sistemas nacionais, geralmente muito diferentes do sistema Europeu. Esta incerteza nos padrões levou os fabricantes a desenvolver um padrão internacional harmonizado, e forçou a emissão do padrão IEC (International Electrotechnical Commission) [Comissão Eletrotécnica Internacional] IEC 60034-30-1, “Classes de eficiência de Motores de Indução de Gaiola de Esquilo, trifásicos, de uma velocidade (Código IE)”.
Nos EUA, o padrão de referência é o NEMA MG1.

Estes novos padrões:
- definem novas classes de eficiência
- IE1 (eficiência padrão)
- IE2 (alta eficiência NEMA)
- IE3 (eficiência premium NEMA)
- fornecem um sistema de referência comum internacional para a classificação de motores elétricos e para a legislação nacional
- introduzem um novo método de medida de eficiência em conformidade com o padrão IEC 60034-1-2:2007

A tabela abaixo exibe a correspondência entre as principais classes.





Regulamento da Comissão Europeia 640/2009

Padrão IEC 60034-30-1 estabelece diretrizes técnicas para classificação de eficiência, mas não impões nenhum requisito legal para a adoção de uma classe de eficiência específica. Estes requisitos são estabelecidos pelas Diretivas Europeias e leis nacionais.

A Regulamentação EC que aplica a Diretiva 2005/32/EC foi adotada em 22 de julho de 2009. Isto estabelece os requisitos legais e os critérios de projeto eco-compatíveis, além de impor limites mínimos de eficiência de acordo com o cronograma a a seguir:

▪ **16/06/2011:** Motores elétricos deverão ter um nível mínimo de eficiência equivalente à classe **IE2**

▪ **01/01/2015**: Motores elétricos com saída de potência nominal entre 7,5 kW e 375 kW deverão ter

▪ um nível mínimo de eficiência correspondente a **IE3**, ou a **IE2** se controlados por um inversor.

▪ **01/01/2017:** Motores elétricos com saída de potência nominal entre 0,75 kW e 375 kW deverão ter

▪ um nível mínimo de eficiência correspondente a **IE3**, ou a **IE2** se controlados por um inversor.

Escopo e exclusões

O Regulamento EC 640/2009 aplica-se a Motores de Indução de Gaiola de Esquilo de 50 Hz or 60 Hz, trifásicos, de 1 velocidade, com 2, 4, ou 6 polos, com saídas nominais de 0,75 kW até 375 kW, e tensão nominal de até 1000 V, projetados para serviço contínuo (S1).

O regulamento não é aplicável a:

- motores com freio
- motores projetados para funcionar imersos em líquido
- motores totalmente integrados em um produto (como um redutor, bomba, ventilador), uma vez que não é possível testar o desempenho do motor independentemente do desempenho do produto.
- motores expressamente projetados para funcionar:

▪ em altitudes acima de 4000 metros acima do nível do mar;

▪ em temperaturas ambiente acima de H11 60°C;

▪ a temperaturas de funcionamento máximas acima de 400°C;

▪ em temperaturas ambiente abaixo de -30°C (todos os motores) ou abaixo de 0°C (motores resfriados a água);

▪ com líquidos refrigerantes de entrada em temperaturas abaixo de 0°C ou acima de 32°C;

▪ em ambientes potencialmente explosivos conforme definido pela Diretiva 2014/34/UE.

DOE (Departamento de Energia dos EUA)

De acordo com o Código Eletrônico de Regulamentos Federais (eCFR) dos Estados Unidos da América, parte 431 (PROGRAMA DE EFICIÊNCIA ENERGÉTICA PARA DETERMINADOS EQUIPAMENTOS COMERCIAIS E INDUSTRIAIS), subparte B (Motores Elétricos), motores de indução elétrica TEFC (tampa do ventilador totalmente fechada), equipados ou não com freio, poderão ser colocados no mercado dos EUA de acordo com as seguintes prescrições:

- **Motores IE1/Padrão** poderão ser comercializados no EUA somente se uma ou mais das condições abaixo forem aplicáveis:

▪ sua potência é Pn < 0,75 kW

▪ eles são classificados para um serviço não contínuo (todos os serviços, exceto S1)

▪ eles são rotulados somente para a operação de inversor (VFD)

▪ eles são motores multivelocidades

- **Motores IE2/de Alta Eficiência** podem ser comercializados nos EUA **até 1º de junho de 2016**, somente se:

▪ tiverem desempenho de acordo com as características de projeto NEMA tipo C, conforme descrição em MG1 ou um projeto IEC equivalente como um Projeto IEC tipo H

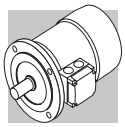
- Qualquer motor produzido **a partir de 1º de junho de 2016** será do tipo **IE3 ou terá Eficiência Premium**, a menos que as isenções pertinentes a seguir sejam aplicáveis:

▪ sua potência nominal seja Pn < 0,75 kW

▪ motores classificados para um serviço não contínuo (todos os serviços, exceto S1)

▪ motores rotulados somente para a operação de inversor (VFD)

▪ motores multivelocidades



M3 CARACTERÍSTICAS GERAIS

M3.1 Escala de produção

Os motores elétricos trifásicos assíncronos BE, BN, ME e M produzidos pela BONFIGLIOLI RIDUTTORI estão disponíveis nos projetos básicos IMB5 e versões derivadas, com as seguintes polaridades: 2, 4, 6 polos a 50Hz e 60Hz (os motores BE, ME estão disponíveis em 60 Hz somente na configuração 4 polos). Para solicitações relativas a outras polaridades (ex: motores com duas velocidades), favor contatar o Departamento Técnico.
Os motores são fornecidos com resfriamento por ventilador totalmente fechado (TEFC) de acordo com o padrão NEMA MG1.

M3.2 Padrões

Os motores descritos neste catálogo são produzidos de acordo com os padrões aplicáveis apresentados na tabela abaixo.

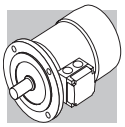
(F01)

Título	CEI	IEC
Requisitos gerais para máquinas eléctricas rotativas	**CEI EN 60034-1**	**IEC 60034-1**
Marcações do terminal e sentido de rotação das máquinas rotativas	**CEI 2-8**	**IEC 60034-8**
Métodos de resfriamento para máquinas elétricas	**CEI EN 60034-6**	**IEC 60034-6**
Dimensões e classificações de saída para máquinas eléctricas rotativas	**EN 50347**	**IEC 60072**
Classificação do grau de proteção fornecido pelas carcaças das máquinas rotativas	**CEI EN 60034-5**	**IEC 60034-5**
Limites de ruído	**CEI EN 60034-9**	**IEC 60034-9**
Classificação do tipo de construção e disposições de montagem	**CEI EN 60034-7**	**IEC 60034-7**
Tensão nominal para redes elétricas de baixa tensão	**CEI 8-6**	**IEC 60038**
Nível de vibração das máquinas elétricas	**CEI EN 60034-14**	**IEC 60034-14**
Classes de eficiência de motores de indução de gaiola de esquilo trifásicos, com uma velocidade (Código IE)	**CEI EN 60034-30-1**	**IEC 60034-30-1**
Método padrão para determinar perdas e eficiência através de testes	**CEI EN 60034-2-1**	**IEC 60034-2-1**

Os motores também cumprem padrões internacionais adaptados à IEC 60034-1 conforme mostrado aqui abaixo.

(F02)

NEMA MG1	USA
DIN VDE 0530	Alemanha
BS5000 / BS4999	Grã Bretanha
AS 1359	Austrália
NBNC 51 - 101	Bélgica
NEK - IEC 34	Noruega
NF C 51	França
OEVE M 10	Áustria
SEV 3009	Suíça
NEN 3173	Países Baixos
SS 426 01 01	Suécia



M3.3 Diretivas 2006/95/EC (LVD) e 2004/108/EC (EMC)

Os motores BE, BN, ME e M cumprem os requisitos das Diretivas 2006/95/EC (Diretiva de Baixa Tensão) e 2004/108/EC (Diretiva de Compatibilidade Eletromagnética) e suas placas de identificação contêm a marca CE.
Quanto à Diretiva EMC, a construção é feita em conformidade com os padrões CEI EN 60034-1, EN 61000-6-2, EN 61000-6-4.
Os motores com freios FD, quando equipados com o filtro capacitivo adequado na entrada do retificador (opção **CF**), cumprem os limites de emissão exigidos pelo Padrão EN 61000-6-3:2007 "Compatibilidade eletromagnética - Padrão de Emissão Genérica - Parte 6-3 Ambiente residencial, comercial e de luz industrial".
Os motores também cumprem os requisitos do padrão CEI EN 60204-1 "Equipamento eléctrico de máquinas".
A responsabilidade pela segurança do produto final e conformidade com as diretivas aplicáveis recai sobre o fabricante ou o montador que incorpora os motores como partes componentes.

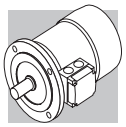
M3.4 Tolerâncias

De acordo com as Normas CEI EN 60034-1, as tolerâncias abaixo são aplicáveis às seguintes quantidades.

(F03)

-0.15 (1 - η) P ≤ 50 kW	Eficiência
-(1 - cosφ)/6 min 0.02 max 0.07	Fator de potência
±20% *	Deslocamento
+20%	Corrente do rotor bloqueado
-15% +25%	Torque do rotor bloqueado
-10%	Torque máximo

(*) ± 30% para motores com Pn < 1 kW



M4 VARIANTES E OPÇÕES

M4.1 Variantes

(F04)

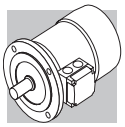
Descrição		Padrão	Opção	Página
Tensão		230/400/50		647
Classe de proteção	BE - BN - ME - M	IP 55	IP 56	644
	BN_FD - BN_FA M_FD - M_FA	IP 54	IP 55	
Classe de isolamento		CLF	CLH	650 651
Versão do projeto	BE - BN	**B5** **B5 R**		643

Valores padrão.

M4.2 Opções

(F05)

Descrição	Números de catálogo						Disponibilidade	Página
Dispositivos de proteção térmica	**D3**	**K1**	**E3**				BE - BN ME - M	666
50 Hz de energia normalizada	**PN**						BN M	649
Dispositivos de realimentação	**EN1**	**EN2**	**EN3**	**EN4**	**EN5**	**EN6**	BE - BN ME - M	675
Aquecedores anticondensação	**H1**	**NH1**					BE - BN ME - M	670
Bobinas tropicalizadas	**TP**						BE - BN ME - M	670
Eixo com extensão dupla	**PS**						BE - BN ME - M	671
Grau B de balanceamento do rotor	**RV**						BE - BN ME - M	672
Proteções mecânicas externas	**RC**	**TC**					BE - BN ME - M	674
Ventilação forçada	**U1**	**U2***					BE - BN ME - M	673
Motores para EUA e Canadá	**CUS**						BE - BN ME - M	649
Certificação Obrigatória da China	**CCC**						BE - BN ME - M	650
Conector de Plug	**CON**						BE - BN ME - M	667
Proteção de superfície	**C_**						BE - BN ME - M	676
Pintura	**RAL**						BE - BN ME - M	676
Certificados	**ACM**						BE - BN ME - M	677
Certificado de inspeção	**CC**						BE - BN ME - M	677
Dispositivo contrarrecuo	**AL**	**AR**					ME - M	671
Tipo de serviço	**S2**	**S3**	**S9**				BN M	651



M4.3 Opções relacionados a freio

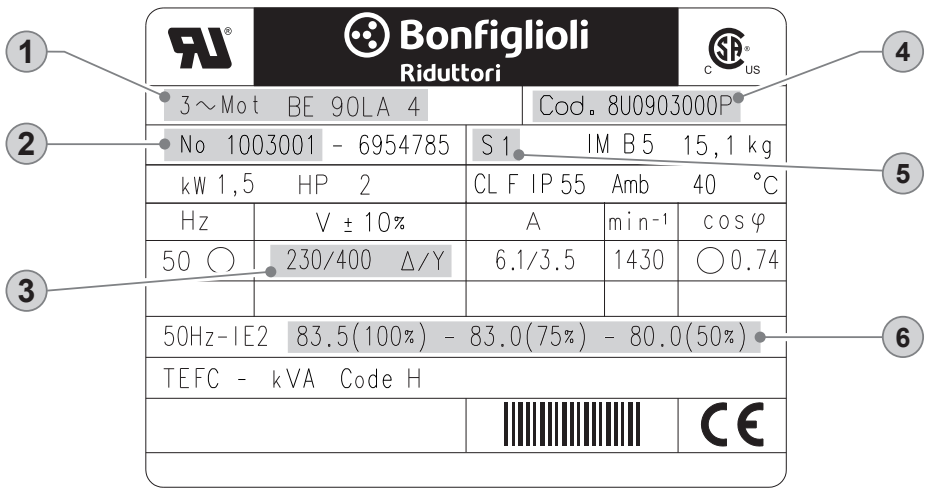
(F06)

Descrição	Números de catálogo				Disponibilidade	Página
Torque do freio	Refer to the specific brake type					659 662
Alavanca de liberação manual	**R**	**RM**			BN M	664
Orientação da alavanca de liberação	**AB**	**AA**	**AC**	**AD**	BN M	665
Retificador de freio DC	**NB**	**NBR**	**SB**	**SBR**	BN M	658
Volante de partida lenta	**F1**				BN M	665
Filtro capacitivo	**CF**				BN M	666
Fonte de alimentação separada do freio (*)	**...SA**	**...SD**			BN M	658 662
Verificação de funcionalidade do freio	**MSW**				BN M	669
Entrada de cabo adicional para motores com freio	**IC**				BN M	670

(*) Especificar tensão.

Valores padrão.

M4.4 Exemplo de placa de identificação



① Tipo de motor BONFIGLIOLI
② Número de série
③ Tensão nominal
④ Código do motor
⑤ Tipo de serviço: Ciclo contínuo S1
⑥ Classe IE, Eficiência a: Carga 4/4 - 3/4 - 2/4

M5 CARACTERÍSTICAS MECÂNICAS

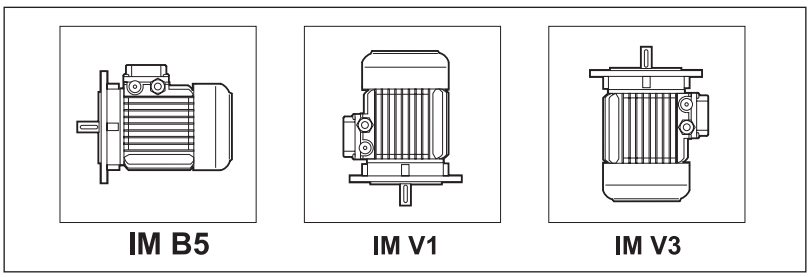
M5.1 Versões

motores BE e BN com normalização EC estão disponíveis nas versões de projeto indicadas na tabela abaixo de acordo com os Padrões EN 60034-7 (BE), CEI EN 60034-14 (BN).

As versões de montagem são:
IM B5 (básica)
IM V1, IM V3 (derivadas)

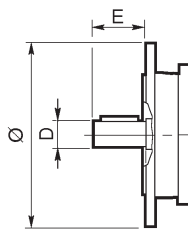
Motores com projeto IM B5 podem ser instalados nas posições IM V1 e IM V3. Nesses casos, o projeto básico IM B5 é indicado na placa de identificação do motor.
Nas versões de projeto com um motor localizado na vertical e o eixo para baixo, recomendamos solicitar a tampa de gotejamento (sempre necessária para freios motor). Esta facilidade, incluída na lista de opções deve ser especificada uma vez que ela não vem como um dispositivo padrão.

(F07)



Motores com saída com flange também estão disponíveis com dimensões de acoplamento reduzidas, conforme indicadas na tabela abaixo - execuções **B5R**.

(F08)



	BN 71	BE/BN 80	BE/BN 90	BE/BN 100	BE/BN 112	BE/BN 132
	DxE - Ø					
B5R	11x23 - 140	14x30 - 160	19x40 - 200	24x50 - 200	24x50 - 200	28x60 - 250

A flange B5R está provida de furos de passagem

M5.2 Grau de proteção

IP..

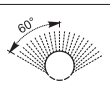
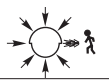
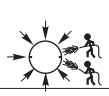
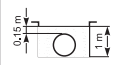
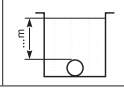
O esquema abaixo fornece uma visão geral dos graus de proteção disponíveis.
Além do grau de proteção especificado no pedido, os motores a serem instalados ao ar livre requerem proteção contra luz solar direta e também – quando eles tiverem de ser instalados verticalmente para baixo – uma tampa de gotejamento para impedir a penetração de água e partículas sólidas (opção **RC**).

(F09)

		IP 54	IP 55	IP 56
BE - BN	**ME - M**	⛔	standard	
BN_FD **BN_FA**	**M_FD** **M_FA**	standard		⛔

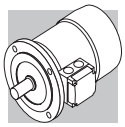
IP	**5**	**5**

0		Sem proteção
1		Protegido contra corpos sólidos estranhos com Ø ≥ 50 mm
2		Protegido contra corpos sólidos estranhos com Ø ≥ 12,5 mm
3		Protegido contra corpos sólidos estranhos com Ø ≥ 2,5 mm
4		Protegido contra corpos sólidos estranhos com Ø ≥ 1,0 mm
5		Proteção contra poeira
6		Sem entrada de poeira

0		Sem proteção
1		Proteção contra gotas de água verticais
2		Proteção contra gotas de água verticais inclinadas até 15°
3		Proteção contra chuva
4		Proteção contra respingos de água
5		Proteção contra jatos de água
6		Proteção contra fortes jatos de água
7		Proteção contra os efeitos de imersão temporária
8		Proteção contra os efeitos de imersão contínua

M5.3 Resfriamento

Os motores são ventilados externamente (IEC 411 / NEMA MG1-6 - CEI EN 60034-6) e são equipados com um ventilador de plástico que trabalha nos dois sentidos.
Os motores devem ser instalados de modo a permitir espaço suficiente entre a tampa do ventilador e a parede mais próxima para garantir a entrada de ar livre e permitir o acesso para fins de manutenção no motor e no freio, se fornecido. Ventilação forçada de ar independente (IC 416) pode ser fornecida a pedido (opção U1). Esta solução permite aumentar o fator de serviço do motor quando acionado por um inversor de frequência e funcionando com velocidade reduzida.



M5.4 Sentido da rotação

A rotação é possível nos dois sentidos. Se os terminais U1, V1 e W1 estiverem conectados às fases das linhas L1, L2 e L3, a rotação sentido horário (olhando pelo lado eixo) é obtida. Para rotação sentido anti-horário, inverta duas fases.

M5.5 Ruído

Níveis de ruído, medidos com o uso do método prescrito pelo Padrão ISO 1680, estão dentro dos níveis máximos especificados pelo Padrão CEI EN 60034-9.

M5.6 Vibrações e balanceamento

Os eixos do rotor são equilibrados com meia chaveta montada e enquadram-se na classe de vibração N, segundo o Padrão CEI EN 60034-14.

M5.7 Caixa de terminais

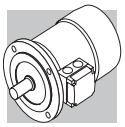
A placa do terminal possui 6 pinos para conexão dos orifícios do terminal (execução 9 pinos para tensão de US “Dual Voltage”).
Um terminal de aterramento também é fornecido para ligação do equipamento à terra (aterramento).
O número e o tipo dos terminais são exibidos na tabela abaixo.
Para fonte de alimentação do freio, favor leia par. 8 (freio FD), 9 (freio FA).
Freios motor abrigam o retificador a.c./d.c. (com cabos já instalados de fábrica) dentro da caixa de terminais. Instruções de cabeamento são fornecidas na própria caixa ou no manual do usuário.

(F10)

		Número de terminais	Fios do terminal	Seção transversal máxima do cabo / bitola
BE 80, BE 90 **BN 56 ... BN 71** **BN 80, BN 90**	**ME2** **M05, M1** **M2**	6	M4	2.5
BE 100 ... BE 132 **BN 100 ... BN 112** **BN 132 ... BN 160MR**	**ME3, ME4** **M3** **M4**	6	M5	6
BE 160 **BN 160M ... BN 180M**	**ME 5** **M5**	6	M6	16
BE 180 **BN 180L ... BN 200L**	**–** **–**	6	M8	25
BE 80 ... 132 **BN 63 ... BN 160MR**	**ME2 ... ME4** **M05 ... M4**	9	M4	6
BE 160 ... BE 180 **BN 160M ... BN 200L**	**ME 5** **M5**	9	M6	16

M5.8 Entrada de cabos

Os furos usados para levar os cabos até as caixas de terminais usam roscas métricas de acordo com o padrão EN 50262, conforme indicado na tabela abaixo.



(F11)

		Dimensões do prensa cabos		Diâmetro do cabo máximo permitido [mm]
BN 63	**M05**	2 x M20 x 1.5	1 Furo de cada lado	13
BN 71	**M1**	2 x M25 x 1.5		17
BE 80, BE 90 **BN 80, BN 90**	**ME2** **M2**	2 x M25 x 1.5		17
BE 100	**ME3**	2 x M32 x 1.5	2 Furos de cada lado	21
BN 100	**M3**	2 x M25 x 1.5		17
BN 112, BE 112	**–**	2 x M32 x 1.5		21
		2 x M25 x 1.5		17
BE 132 **BN 132...BN 160MR**	**ME4** **M4**	4 x M32 x 1.5		21
BE 160, BE 180	**ME5**	2 x M40 x 1.5	Rotacionáveis, 4 x 90°	28
BN 160M...BN 200L	**M5**			

M5.9 Rolamentos

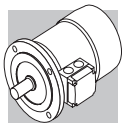
São usados rolamentos de esferas radiais pré-carregados com lubrificação. Os tipos são apresentados no esquema a seguir. Vida útil da resistência calculada L_{10h}, segundo a ISO 281, na condição não carregada, excede 40000 horas.

DE = lado eixo **NDE** = lado hélice

(F12)

	**DE**	**NDE**	
	M, M_FD, M_FA	**M**	**M_FD, M_FA**
M05	6004 2Z C3	6201 2Z C3	6201 2RS C3
M1	6004 2Z C3	6202 2Z C3	6202 2RS C3
ME2 - M2	6007 2Z C3	6204 2Z C3	6204 2RS C3
ME3 - M3	6207 2Z C3	6206 2Z C3	6206 2RS C3
ME4 - M4	6309 2Z C3	6308 2Z C3	6308 2RS C3
ME5 - M5	6309 2Z C3	6309 2Z C3	6309 2RS C3

	**DE**	**NDE**	
	BE, BN, BN_FD BN_FA	**BE, BN**	**BN_FD BN_FA**
BN 56	6201 2Z C3	6201 2Z C3	–
BN 63	6201 2Z C3	6201 2Z C3	6201 2RS C3
BN 71	6202 2Z C3	6202 2Z C3	6202 2RS C3
BE 80 **BN 80**	6204 2Z C3	6204 2Z C3	6204 2RS C3
BE 90 **BN 90**	6205 2Z C3	6205 2Z C3	6305 2RS C3
BE 100 **BN 100**	6206 2Z C3	6206 2Z C3	6206 2RS C3
BE 112 **BN 112**	6306 2Z C3	6306 2Z C3	6306 2RS C3
BE 132 **BN 132**	6308 2Z C3	6308 2Z C3	6308 2RS C3
BN 160MR	6309 2Z C3	6308 2Z C3	6308 2RS C3
BE 160M/L **BN 160M/L**	6309 2Z C3	6309 2Z C3	6309 2RS C3
BN 180M	6310 2Z C3	6309 2Z C3	6309 2RS C3
BE 180M/L **BN 180L**	6310 2Z C3	6310 2Z C3	6310 2RS C3
BN 200L	6312 2Z C3	6310 2Z C3	6310 2RS C3



M6 CARACTERÍSTICAS ELÉTRICAS

M6.1 Tensão

Motores de uma velocidade são fornecidos em execução padrão, seja para tensão nominal 230 / 400 V, 50 Hz, ou 400 / 690 V, 50 Hz, ou 230 / 460 V, 60 Hz com tolerância de tensão de ± 10%, conforme especificado na tabela abaixo.
Em todos os motores BN e M, para os quais a configuração de tensão/frequência não está incluída na tabela abaixo, a tolerância de tensão é reduzida para ± 5%.
Para a operação fora dos limites de tolerância, a temperatura poderá exceder em 10 K o limite previsto pela classe de isolamento adotada.
Os motores são adequados para operação em rede de distribuição europeia com a tensão em conformidade com a publicação IEC 60038.

(F13)

Classe de eficiência			V_{mot} ± 10 % 3 ~	Configuração
IE2	BE 80 … 132	ME 2 … ME 4	230 / 400 V - Δ/Y - 50 Hz	Padrão
			460 V Y - 60 Hz[1]	Padrão
			400 / 690 V - Δ/Y - 50 Hz	A pedido, sem custo adicional
	BE 160, BE 180	ME 5	400 / 690 V - Δ/Y - 50 Hz	Padrão
			460 V Δ - 60 Hz[1]	Padrão
IE1	BN 56 ... BN 132	M0 … M4	230 / 400 V - Δ/Y - 50 Hz	Padrão
			400 / 690 V - Δ/Y - 50 Hz	A pedido, sem custo adicional
			460 V Y - 60 Hz	Padrão
	BN 160 ... 200	M5	400 / 690 V - Δ/Y - 50 Hz	Padrão
			460 V Δ - 60 Hz	Padrão

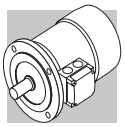
[1] somente motor 4 polos

A única tensão nominal para o tipo de motores a 50 Hz e todos os motores de duas velocidades é 400 V. Tolerâncias aplicáveis segundo o padrão CEI EN 60034-1.
A tabela abaixo mostra as opções de cabeamento disponíveis.

(F14)

Número de polos		Conexão da bobina
2	BE 80 … BE 160, BN 63 … BN 200	Δ / Y ([2])
4	BE 80 … BE 180, BN 56 … BN 200	
6	BE 90 … BE 160, BN 63 … BN 200	
8	BN 71 … BN 132	
2/4	BN 63 … BN 132	Δ / YY (Dahlander)
2/6	BN 71 … BN 132	Y / Y (Duas bobinas)
2/8	BN 71 … BN 132	
2/12	BN 80 … BN 132	
4/6	BN 71 … BN 132	
4/8	BN 80 … BN 132	Δ / YY (Dahlander)

([2]) Motores com tensão na relação 2 (ex. 230/460 - 60) serão equipados com uma caixa de terminais com 9 pinos com conexão para bobina, seja Δ Δ/ Δ ou YY / Y (exceto BN 63 com 6 polos Δ / Y)



M6.2 Frequência

A potência de saída nominal BN / M para operação a 60 Hz é exibida no diagrama abaixo.

(F15)

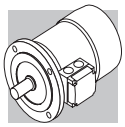
		P_n [kW]		
		2P	**4P**	**6P**
BN 56A	**–**	–	0.07	–
BN 56B	**M0B**	–	0.10	–
BN 63A	**M05A**	0.21	0.14	0.10
BN 63B	**M05B**	0.30	0.21	0.14
BN 71A	**M05C**	0.45	0.30	0.21
BN 71B	**M05SD**	0.65	0.45	0.30
BN 80A	**M1LA**	0.90	0.65	0.45
BN 80B	**M2SA**	1.30	0.90	0.65
BN 90S	**M2SB**	–	1.30	0.90
BN 90SA		1.8	–	–
BN 90L	**M3SA**	2.5	–	1.30
BN 90LA		–	1.8	–
BN 100L	**M3LA**	3.5	–	–
BN 100LA		–	2.5	1.8
BN 100LB	**M3LB**	4.7	3.5	2.2

		P_n [kW]		
		2P	**4P**	**6P**
BN 112M	**M3LB**	4.7	4.7	2.5
–	**M3LC**	–	4.7	2.5
BN 132S	**M4SA**	–	6.5	3.5
BN 132SA		6.5	–	–
BN 132SB	**M4SB**	8.7	–	–
BN 132M	**M4LA**	11	–	–
BN 132MA		–	8.7	4.6
BN 132MB	**M4LB**	–	11	6.5
BN 160MR	**M4LC**	12.5	12.5	–
BN 160MB	**M5SB**	17.5	––	–
BN 160M	**M5SA**	–	–	8.6
BN 160L	**M5S**	21.5	17.5	12.6
BN 180M	**M5LA**	24.5	21.5	–
BN 180L	**–**	–	25.3	17.5
BN 200L	**–**	–	34	–
BN 200LA	**–**	34	–	22

Motores BE/ME estão disponíveis a 60 Hz somente na configuração 4 polos, e sua potência nominal é a mesma do seu homólogo de 50 Hz. Motores BN/M de dupla polaridade alimentados em 60Hz terão um aumento de potência nominal, a que se refere a 50 Hz, de 15%.
Se uma classificação de potência nominal, igual à classificação de potência nominal normalizada a 50 Hz, foi solicitada para ser incluída na placa de identificação de um motor feito para ser alimentado com tensão a 60 Hz, a opção PN deverá ser especificada na designação do motor. Motores geralmente projetados para uma frequência de 50 Hz poderão ser usados em uma rede operacional de 60 Hz, porém os dados relacionados deverão ser atualizados de acordo com a seguinte tabela.
A placa de identificação dos motores projetados para uma frequência de 50 Hz inclui valores para 60 Hz (excluindo motores em configuração CUS e motores com freio). Ver a seguinte tabela.

(F16)

	50 Hz	**60 Hz**			
	V - 50 Hz	**V** - 60 Hz	**Pn** - 60 Hz	$\mathbf{M_n}$, $\mathbf{M_a/M_n}$ - 60 Hz	**n** [rpm] - 60 Hz
BE/ME	**230/400 Δ/Y**	265 - 460 Δ Y	1	0.83	1.2
	400/690 Δ/Y	460 Δ			
BN/M	**230/400 Δ/Y**	220 - 240 Δ			
		380 - 415 Y			
	400/690 Δ/Y	380 - 415 Δ			
BN/M	**230/400 Δ/Y**	265 - 280 Δ	1.15	1	1.2
		440 - 480 Y			
	400/690 Δ/Y	440 - 480 Δ			



M6.3 Temperatura ambiente

Os valores de classificação incluídos no catálogo são calculados para condições ambientais normais (temperatura -15°C < ta < 40°C; elevação ≤ 1000 m acima do nível do mar) de acordo com o padrão CEI EN 60034-1.
Os motores podem ser usados dentro da faixa de temperatura 40-60°C com saída de potência nominal ajustada pelos fatores fornecidos na tabela abaixo.

(F17)

Temperatura ambiente (°C)	100°	115°	120°	130°	140°
potência permitida como % da potência nominal	100%	95%	90%	85%	80%

Se um fator de redução superior a 15% for aplicável, favor consultar a fábrica.

M6.4 50 HZ de energia normalizada

PN

Com esta opção, a placa de identificação do motor incluirá a informação de energia normalizada de 50 Hz mesmo quando o motor for projetado para funcionar com corrente eléctrica de 60 Hz. Para alimentação a 60 Hz junto com tensões de 230/460V e 575V, a opção PN é aplicada por padrão.

M6.5 Motores para EUA e Canadá

CUS

Motores BN estão disponíveis na configuração NEMA Projeto tipo C (referente às características elétricas), em conformidade com CSA (padrão canadense) C22.2 nº 100 e UL (Underwriters Laboratory) UL 1004-1 (número de arquivo UL Bonfiglioli E308649). Especificando a opção CUS, a placa de identificação é marcada com os dois símbolos exibidos abaixo.

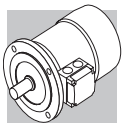
C US

A opção CUS não se aplica a motores servo-ventilados. As redes de energia elétrica dos EUA e as respectivas tensões nominais a serem especificadas para o motor são indicadas na tabela a seguir:

(F18)

Frequência	Tensão da rede	V_{mot}
60 Hz	208 V	**200 V**
	240 V	**230 V**
	480 V	**460 V**
	600 V	**575 V**

A opção CUS também é aplicável em motores com funcionamento a 50 Hz.



Motores com tensão na relação 2 (ex: 230/460-60; 220/440-60) possuem, de série, uma placa de terminais com 9 pinos. Para as mesmas execuções, bem como para execuções a 575V-60Hz, bem como para alimentação a 575V-60Hz, a classificação nominal coincide com a respectiva classificação para 50Hz. Para motores com freio DC do tipo BN/M_FD, o retificador é conectado a uma tensão de alimentação de 230 VAC monofásica na caixa de terminais do motor.
A fonte de alimentação de freio para motores com freio é a seguinte:

(F19)

BN_FD **M_FD**
Conectada à caixa de terminais 1~230V c.a.

BN_FA **M_FA**		Alimentação
Fonte de alimentação separada	230V Δ	230SA
Fonte de alimentação separada	460V Y	460SA

M6.6 Certificação Obrigatória da China

CCC

Motores elétricos destinados à comercialização na República Popular da China devem ser certificados nos termos do sistema CCC (Certificação Obrigatória da China). Motores BN de até 7 Nm de torque nominal estão disponíveis com a certificação CCC e uma placa de identificação especial que leva a marca exibida abaixo:

A opção CCC não se aplica a motores servo-ventilados.

M6.7 Classe de isolamento

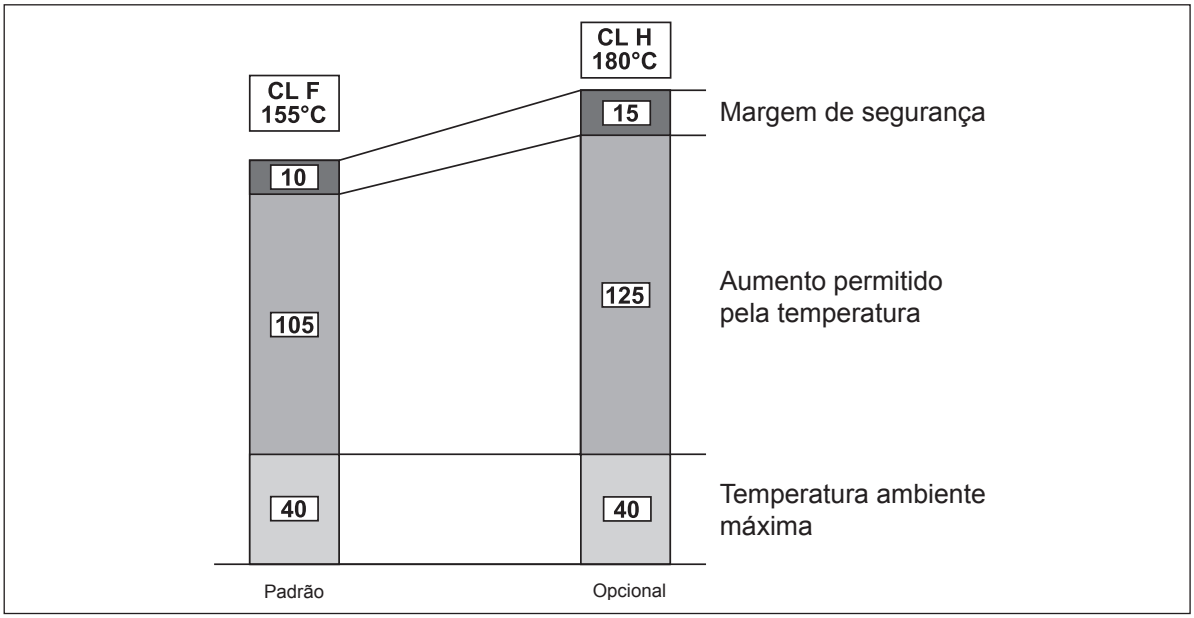
CL F

Os motores Bonfiglioli utilizam materiais de isolamento da classe **F** (fios esmaltados, isoladores, resinas de impregnação) em comparação com o motor padrão.
Em motores padrão, a sobretemperatura das bobinas do estator normalmente permanece abaixo do limite de 80 K correspondente à classe de sobretemperatura B.
A seleção cuidadosa dos componentes de isolamento torna os motores compatíveis com climas tropicais e vibração normal.
Para aplicações que envolvem a presença de produtos químicos agressivos ou alta umidade, favor contatar a Engenharia da Bonfiglioli para assistência na escolha do produto.

CL H

Motores produzidos na classe de isolamento **H** estão disponíveis, mediante solicitação.
Indisponível para motores em conformidade com os padrões CSA e UL (opção CUS).

(F20)



M6.8 Tipo de serviço

Salvo especificação em contrário, a potência do motor informada no catálogo refere-se ao serviço contínuo S1. Qualquer condição operacional diferente do serviço S1 deverá ser identificada de acordo com as definições de ciclo de serviço estabelecidas no padrão CEI EN 60034-1.
Para os ciclos de serviço S2 e S3, o coeficiente de aumento de potência informado na tabela abaixo deverá ser usado. Favor observar que a tabela apresentada abaixo aplica-se a motores de uma velocidade. Como uma alternativa ao serviço contínuo S1, um dos valores abaixo pode ser especificado na etapa de configuração do produto: S2, S3 ou S9. A placa de identificação do motor será marcada com uma potência nominal maior para atender o tipo de serviço, e com dados elétricos específicos e um tipo de serviço de S2-30 min, S3-70% ou S9 respectivamente.
Para mais detalhes, favor contatar o Serviço de Assistência Técnica da Bonfiglioli.
Favor contatar a Engenharia da Bonfiglioli para obter os coeficientes de aumento de potência aplicáveis motores de dupla polaridade.

(F21)

	Tipo de serviço						
	S2			**S3 ***			**S4 - S9**
	Duração (min)			Intermitência (I)			
	10	**30 (*)**	**60**	**25%**	**40%**	**70% (*)**	Contato
f_m	1.35	1.15	1.05	1.25	1.15	1.1	

* A duração do ciclo deverá, em qualquer caso, ser igual ou menor que 10 minutos; se este tempo for excedido, favor entrar em contato com a nossa Assistência Técnica.
(*) Valores padrão das opções (tab. F05).

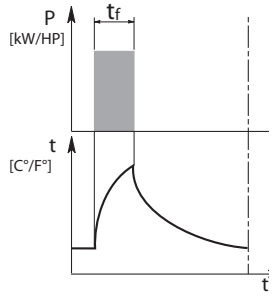
M6.8.1 Fator de duração de ciclo:

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \qquad (01)$$

t_f = tempo de operação a carga constante
t_r = tempo de descanso

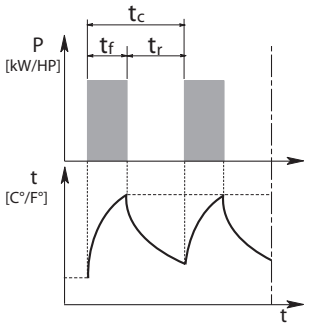
M6.8.2 Serviço S2 com duração limitada

Este tipo de serviço é caracterizado pela operação sob carga constante por um tempo limitado, menor do que o tempo necessário para atingir o equilíbrio térmico, seguido por um período de descanso com duração suficiente para restabelecer a temperatura ambiente no motor.



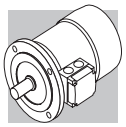
M6.8.3 Serviço S3 com intermitência periódica:

Este tipo de serviço é caracterizado por uma sequência de ciclos de operação idênticos, cada um incluindo um período de operação sob carga constante e um período de descanso.
Para este tipo de serviço, a corrente de partida não influencia significativamente a sobretemperatura.



M6.9 Motores controlados por inversor

Os motores elétricos Bonfiglioli poderão ser usados em combinação com inversores PWM com tensão nominal a uma entrada de transformador de até 500 V. Motores padrão utilizam um sistema de isolamento de fase com separadores, fios esmaltados classe 2 e resinas de impregnação classe H (capacidade de pulso de tensão pico a pico de 1600V e borda de subida ts > 0,1µs nos terminais do motor são permitidos). Os motores elétricos Bonfiglioli poderão ser operados continuamente (serviço S1) no modo “turn - down” [modo de redução], ou seja, a frequências menores que a frequência nominal, também doravante chamadas “frequência básica” - fb, em relações fb / f até 10: 1, de acordo com as tabelas informadas abaixo.



(F22)

OPERAÇÃO DO INVERSOR - TURN-DOWN DADOS DE MOTORES BE																
4 polos 1800 rpm S1	Operação do inversor Dados do motor 10:1 (60-6Hz) TORQUE CONSTANTE			Operação do inversor Dados do motor 5:1 (60-12Hz) TORQUE CONSTANTE			60HZ fornecem de rede - Dados do motor									
Tipo	**M_6**	N_6	P_6	**M_{12}**	n_{12}	P_{12}	P_n	n	η	**M_n**	In 230V	In 460V	cosφ	Is/In	Jm x 10^{-4}	kVA Code
	[Nm]	[rpm]	[kW]	[Nm]	[rpm]	[kW]	[kW]	[rpm]	%	[Nm]	[A]	[A]		p.u.	[Kgm^2]	
BE 80B 4	4.1	125	0.054	4.1	305	0.131	0.75	1745	82.5	4.1	2.92	1.46	0.78	7.6	28	K
BE 90S 4	6.0	120	0.076	6.0	300	0.190	1.1	1740	84	6.0	4.50	2.25	0.73	7.7	28	L
BE 90LA 4	7.4	120	0.093	8.2	300	0.259	1.5	1740	84.5	8.2	6.20	3.10	0.73	7.1	34	K
BE 100LA 4	11.2	125	0.146	12.0	305	0.385	2.2	1745	87.5	12.0	8.40	4.20	0.76	7	54	J
BE 100LB 4	13.6	115	0.165	16.5	295	0.510	3	1735	87.5	16.5	11.80	5.90	0.76	7	61	K
BE 112M 4	16.5	130	0.224	20	310	0.655	3.7	1750	87.5	20	13.20	6.60	0.80	7.8	105	K
BE 132S 4	26	140	0.378	30	320	1.000	5.5	1760	89.5	30	18.60	9.30	0.83	8.7	270	K
BE 132MA 4	34	140	0.500	41	320	1.364	7.5	1760	89.5	41	25.40	12.70	0.83	8	319	K
BE 132MB 4	42	140	0.614	50	320	1.673	9.2	1760	90	50	31.20	15.60	0.82	8.3	360	K
BE 160M 4	51	145	0.774	59	325	2.025	11	1765	91	59	37.40	19	0.81	7.7	650	J
BE 160L 4	61	150	0.964	73	330	2.522	15	1770	90.5	81	51.00	25.5	0.81	7.1	790	J
BE 180M 4	75	145	1.139	89	325	3.035	18.5	1765	91.9	100	60.60	30.3	0.83	7.3	1250	H
BE 180L 4	86	150	1.345	102	330	3.519	22	1770	92.5	119	72.00	36.0	0.83	8.1	1650	J

(F23)

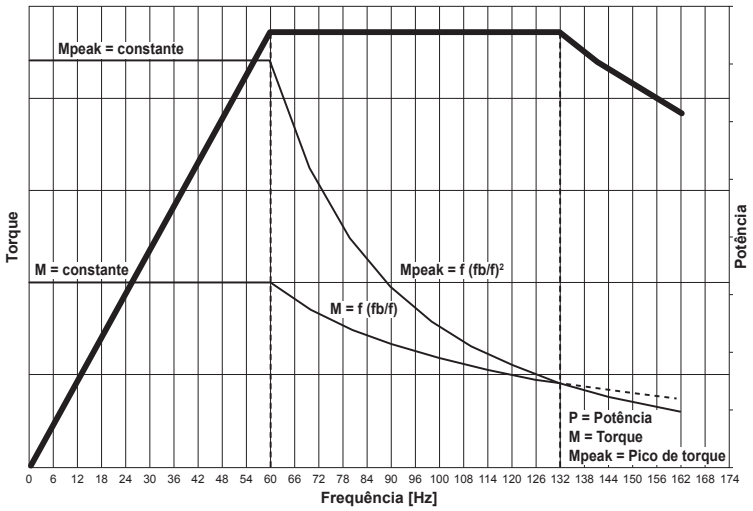
OPERAÇÃO DO INVERSOR - TURN-DOWN DADOS DE MOTORES BN																
4 polos 1800 rpm S1	Operação do inversor Dados do motor 10:1 (60-6Hz) TORQUE CONSTANTE			Operação do inversor Dados do motor 5:1 (60-12Hz) TORQUE CONSTANTE			60HZ fornecem de rede - Dados do motor									
Tipo	**M_6**	N_6	P_6	**M_{12}**	n_{12}	P_{12}	P_n	n	η	**M_n**	In 230V	In 460V	cosφ	Is/In	Jm x 10^{-4}	kVA Code
	[Nm]	[rpm]	[kW]	[Nm]	[rpm]	[kW]	[kW]	[rpm]	%	[Nm]	[A]	[A]		p.u.	[Kgm^2]	
BN 56A 4	0.34	50	0.0018	0.34	230	0.008	0.06	1670	53	0.34	0.52	0.26	0.55	2.9	1.5	J
BN 56B 4	0.46	50	0.0024	0.51	230	0.012	0.09	1670	59	0.51	0.74	0.37	0.52	2.8	1.5	H
BN 63A 4	0.58	30	0.0018	0.69	210	0.015	0.12	1650	55	0.69	0.86	0.43	0.64	3.1	2.0	H
BN 63B 4	0.81	50	0.0043	1.1	230	0.026	0.18	1670	58	1.1	1.36	0.68	0.59	3.1	2.3	H
BN 71A 4	1.1	80	0.009	1.4	260	0.038	0.25	1700	64	1.4	1.30	0.65	0.74	4.3	5.8	H
BN 71B 4	1.6	80	0.014	2.1	260	0.057	0.37	1700	66	2.1	1.94	0.97	0.73	4.5	6.9	H
BN 80A 4	2.4	90	0.023	3.1	270	0.088	0.55	1710	73	3.1	2.56	1.28	0.75	4.9	15.0	H
BN 80B 4	3.3	100	0.03	4.1	280	0.12	0.75	1720	78	4.1	3.20	1.60	0.75	6.2	20	J
BN 90S 4	4.5	100	0.05	5.3	280	0.16	1.1	1720	78	6.2	4.86	2.43	0.74	5.7	21	J
BN 90LA 4	6.2	100	0.06	7.3	280	0.22	1.5	1720	81	8.2	6.24	3.12	0.74	6.6	28	K
BN 90LB 4	7.3	100	0.08	8.7	280	0.26	1.85	1720	80.4	10.4	7.60	3.80	0.76	6.5	30	K
BN 100LA 4	8.6	100	0.09	10.2	280	0.30	2.2	1720	81	12.4	9.6	4.8	0.73	5.5	40	H
BN 100LC 4	11.7	110	0.14	14.0	290	0.43	3.7	1730	84	21	15	7.5	0.74	5.6	61	K
BN 112M 4	16.6	110	0.19	19.8	290	0.60	4	1730	85	23	16	8	0.76	7.0	98	K
BN 132S 4	22	110	0.25	26	290	0.80	5.5	1730	84	31	20	10	0.84	6.3	213	H
BN 132MA 4	29	120	0.36	34	300	1.07	7.5	1740	85	41	26.2	13.1	0.84	6.1	270	H
BN 132MB 4	34	130	0.46	40	310	1.29	9.2	1750	86.4	50	33.0	16.5	0.81	6.8	319	J
BN 160MR 4	40	120	0.50	47	300	1.48	11	1740	88	61	38.8	19.4	0.81	6.5	360	H
BN 160L 4	55	130	0.75	66	310	2.13	15	1750	90	81	49.6	24.8	0.84	5.8	651	G
BN 180M 4	68	140	1.00	81	320	2.72	18.5	1760	90	101	62.6	31.3	0.83	5.8	792	G
BN 180L 4	79	140	1.16	94	320	3.15	22	1760	89.6	121	78.0	39.0	0.79	6.8	1252	H
BN 200L 4	99	140	1.46	118	320	3.96	30	1760	90.5	162	104.0	52.0	0.80	8.4	1652	K

Símbolo: M_6 Torque em 6 Hz — n_6 Velocidade em 6 Hz — P_6 Potência de saída em 6 Hz
M_{12} Torque em 12 Hz — n_{12} Velocidade em 12 Hz — P_{12} Potência de saída em 12 Hz

Em motores autoventilados (IC411), a capacidade de resfriamento poderá ser prejudicada a frequências inferiores a 60 Hz devido à baixa velocidade, portanto o torque permitido é reduzido de forma correspondente, conforme as tabelas acima. O uso de dispositivos de proteção térmica (ver a seção de opções deste catálogo) é fortemente recomendado quando um sistema “turn down” de 5:1 (ou superior, até 10:1) for operado, a fim de garantir a segurança do motor em caso de superaquecimento acidental. Para um resfriamento mais eficaz, mesmo nas mais baixas frequências, motores equipados com um sistema de ventilação forçada (ou seja, servo ventilador) também poderão ser disponibilizados - favor contatar o Departamento Técnico da Bonfiglioli para mais informações.Para operação acima da frequência básica fb, ao atingir a tensão de saída máxima do inversor, o motor entra em um campo de operação sob potência constante também chamado de faixa de “enfraquecimento de campo”, e o torque do eixo diminui com a relação f/fb. À medida que o torque máximo do motor diminui com uma relação $(f/fb)^2$, a capacidade de sobrecarga permitida do motor deve ser reduzida progressivamente acima de uma determinada velocidade, dependendo do motor. As seguintes curvas de Torque/Potência vs Frequência servem para referência: • Linhas sólidas - curvas teóricas (Torque: linha fina; Potência: linha grossa);

• Linhas tracejadas - dependendo do tamanho do motor, abaixo da frequência básica fb = 60 Hz, a capacidade de torque, assim como a potência do motor, poderão ser significativamente reduzidas (ver as tabelas de “turn - down” acima) devido à diminuição do resfriamento.

• Linha pontilhada - valores de torque teóricos além da curva de torque máximo



OBSERVAÇÃO IMPORTANTE: os dados de “turn - down” informados foram elaborados empiricamente e deverão ser considerados como indicativos. Favor contatar o Departamento Técnico da Bonfiglioli para mais detalhes. A tabela abaixo informa o limite de velocidade mecânica para motores que operam acima da frequência nominal:

(F24)

		**n** [rpm]		
		2p	**4p**	**6p**
≤ BE 112 - BN 112	**ME2, ME3 M05 ... M3**	5200	4000	3000
≥ BE 132 - BN 132	**ME4, ME5 M4, M5**	4500	4000	3000

Acima da velocidade nominal, vibrações mecânicas e ruídos poderão ocorrer nas partes rotativas do motor. Balanceamento de rotor Classe B é altamente recomendado para essas aplicações. Um ventilador de resfriamento com alimentação separada também pode ser aconselhável. Ventilador e freio (se equipados) controlados remotamente devem ser sempre conectados diretamente na rede de energia elétrica.

M6.10 Partidas permissíveis por hora, Z

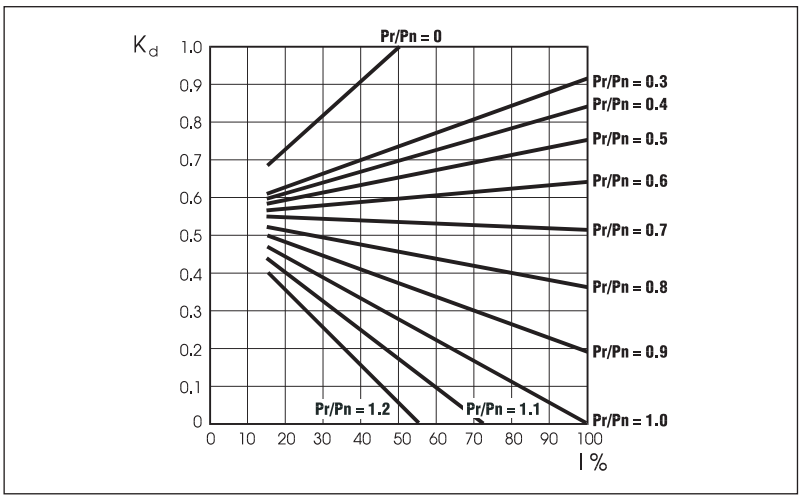
Os esquemas de classificação de motores com freio emprestam o número de partidas permitidas Z_0, com base em 50% de intermitência e para operação sem carga.
O valor no catálogo representa o número máximo de partidas por hora do motor sem exceder a temperatura nominal da classe de isolamento F.
Para dar um exemplo prático de uma aplicação caracterizada pela inércia J_c, absorvendo potência P_r e exigindo torque médio na partida M_L, o número real de partidas por hora do motor pode ser calculado aproximadamente através da seguinte equação:

$$Z = \frac{Z_0 \cdot K_c \cdot K_d}{K_J} \qquad (02)$$

onde:

$K_J = \frac{J_m + J_c}{J_m}$	fator de inércia
$K_c = \frac{M_a - M_L}{M_a}$	fator de torque
$K_d =$	fator de carga, ver a tabela abaixo

(F25)



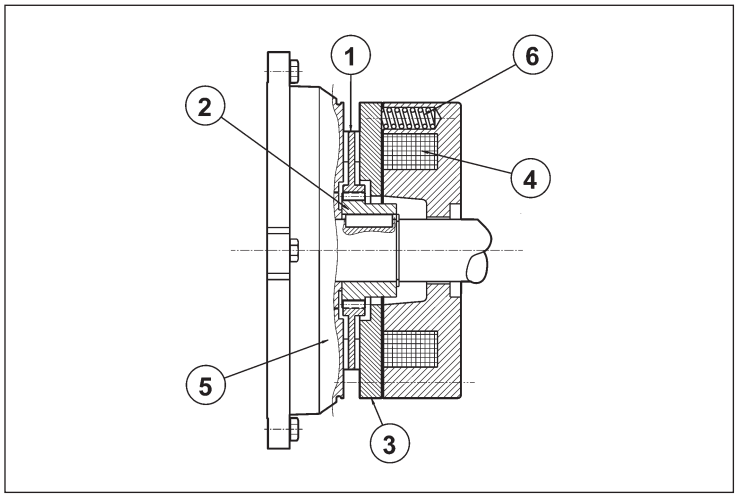
Se o número real de partidas por hora estiver dentro do valor permitido (Z), poderá valer a pena verificar se a operação de frenagem é compatível com a capacidade (térmica) do freio Wmax também informada nas tabelas (F31), (F39) e dependente do número de alternadores (c/h).

M7 MOTORES COM FREIO ASSÍNCRONOS

M7.1 Operação

Versões com freio incorporado usam freios DC com molas (opção FD) ou AC (opção FA).
Todos os freios são projetados para proporcionar uma operação à prova de falhas, o que significa que eles são aplicados pela ação das molas no caso de falta de energia.

(F26)



Chave:
① disco de freio
② cubo do freio
③ placa de pressão
④ bobina de freio
⑤ protetor traseiro do motor
⑥ molas do freio

Quando a tensão é interrompida, molas de pressão empurram a placa da armadura contra o disco de freio. O disco fica preso entre a placa da armadura e a proteção do motor e interrompe a rotação do eixo. Quando a bobina é energizada, um campo magnético forte o suficiente para superar a ação das molas atrai a placa da armadura de modo que o disco de freio – que é integrado ao eixo do motor – é liberado.

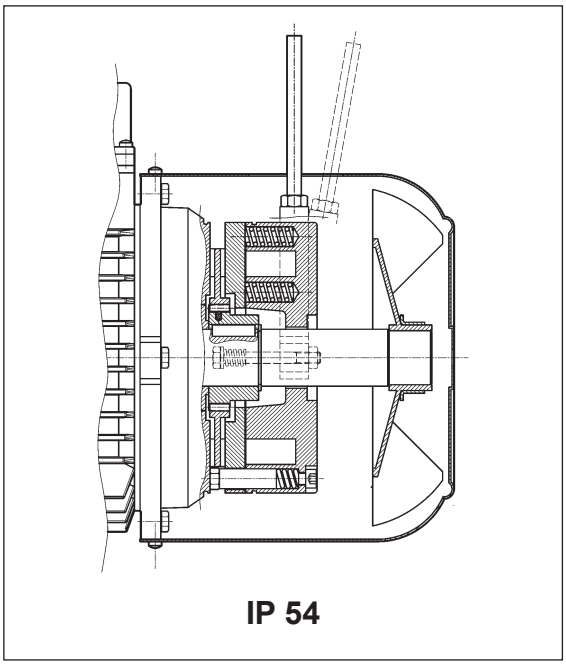
M7.2 Características mais importantes

• Altos torques de frenagem (normalmente $M_b \approx 2\ M_n$), ajuste do torque de frenagem.
• Disco de freio de aço com revestimento de fricção duplo (baixo desgaste, revestimento sem amianto).
• Assento hexagonal na ponta do ventilador do eixo do motor (N.D.E.) para rotação manual (incompatível com as opções PS, RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6).
• Alavanca de liberação manual (opções R e RM para BN/M_FD; opção R para BN/M_FA).
• Tratamento anticorrosivo em todas as superfícies do freio.
• Classe de isolamento F.

M8 MOTORES COM FREIO DC DOS TIPOS BN_FD e M_FD

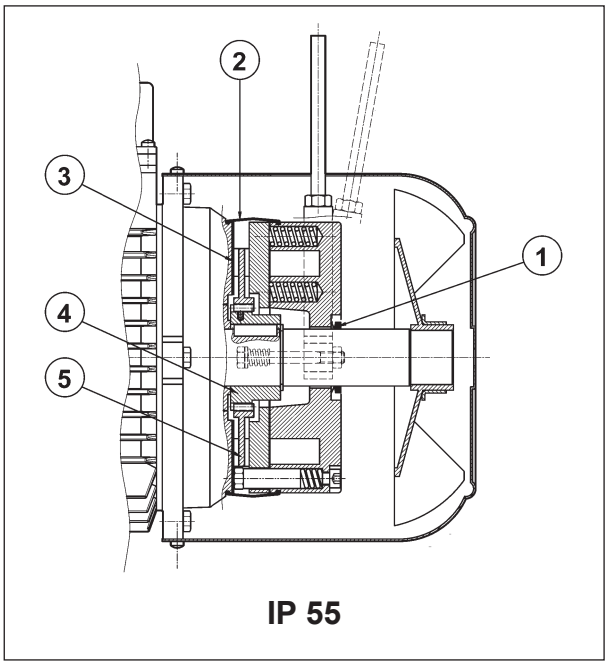
Tamanhos de quadro: BN 63 … BN 200L / M05 ... M5
BE/ME podem ser disponibilizados equipados com freio FD. Para mais informações, favor contatar nosso Departamento Técnico.

(F27)



IP 54

(F28)



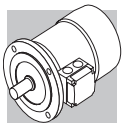
IP 55

Freio eletromagnético com bobina toroidal e corrente direta aparafusado na proteção do motor. Molas pré-carga proporcionam um posicionamento axial do corpo magnético. O disco de freio desliza axialmente no cubo de aço contraído no eixo do motor com dispositivo antivibração. A configuração de fábrica do torque do freio é indicada nos respectivos esquemas de classificação de motores. O torque de frenagem poderá ser modificado com a alteração do tipo e/ou número de molas. Mediante solicitação, os motores poderão ser equipados com alavanca de liberação manual com retorno automático (**R**) ou sistema para manter o freio na posição liberado (**RM**). Ver variante no parágrafo “SISTEMAS DE LIBERAÇÃO DE FREIO” para saber os locais disponíveis para a alavanca de liberação. Freios FD garante um excelente desempenho dinâmico com baixo ruído. As características de operação do freio DC poderão ser otimizadas para atender os requisitos da aplicação escolhendo entre as várias opções disponíveis de retificador, fonte de alimentação e conexão da fiação.
Para aplicações que envolvem elevação e/ou alta dissipação de energia por hora, favor contatar o Serviço Técnico da Bonfiglioli.

M8.1 Grau de proteção

A classe de proteção padrão é IP54. Motor com freio FD também está disponível na classe de proteção **IP55**, o que obriga as seguintes variantes:

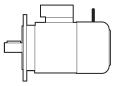
① Anel de Vedação em “V” no N.D.E. do eixo do motor
② capa de borracha à prova de água e poeira
③ anel de aço inoxidável colocado entre o protetor do motor e o disco de freio
④ cubo de aço inoxidável
⑤ disco de freio de aço inoxidável



M8.2 Fonte de alimentação do freio FD

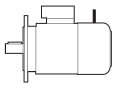
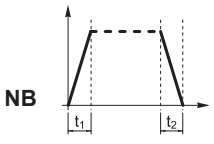
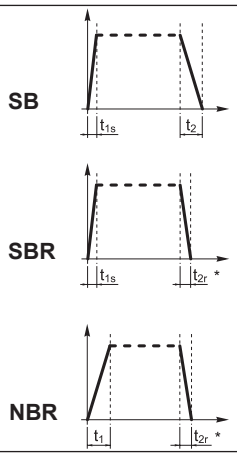
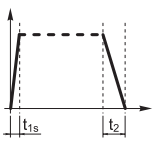
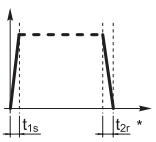
Um retificador acomodado dentro da caixa de terminais alimenta a bobina do freio DC. A conexão da fiação entre o retificador e a bobina do freio é feita na fábrica.
Em todos os motores de uma polaridade, o retificador é acomodado na placa de terminais do motor.
A tensão VB da fonte de alimentação padrão do retificador é indicada na tabela abaixo, independentemente da frequência da rede:

(F29)

2, 4, 6 P					**1 speed**
		**BN_FD / M_FD** V_{mot} ± 10% 3 ~	V_B ± 10% 1 ~	freio conectado à fonte de alimentação da placa de terminais	fonte de alimentação separada
BN 63…BN 132	**M05...M4LB**	230/400 V – 50 Hz	230 V	padrão	especificar **V_B SA** or **V_B SD**
BN 160…BN 200	**M4LC...M5**	400/690 V – 50 Hz	400 V	padrão	especificar **V_B SA** or **V_B SD**
BN 63…BN 200	**M05...M5**	230/400 V – 60 Hz	230 V	padrão	especificar **V_B SA** or **V_B SD**

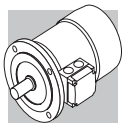
O retificador de meia onda de diodo (VDC ≈ 0,45 x VAC) está disponível nas versões **NB, SB, NBR** e **SBR**, conforme detalhado na tabela abaixo:

(F30)

		freio	padrão	a pedido
BN 63	**M05**	**FD 02**		
BN 71	**M1**	**FD 03**		
		FD 53		
BN 80	**M2**	**FD 04**		
BN 90S	**—**	**FD 14**		
BN 90L	**—**	**FD 05**		
BN 100	**M3**	**FD 15**		
—		**FD 55**		
BN 112	**—**	**FD 06S**		
BN 132...160MR	**M4**	**FD 56**		
BN 160L - BN 180M	**M5**	**FD 06**		
BN 180L - BN 200L	**—**	**FD 07**		

(*) $t_{2c} < t_{2r} < t_2$

Retificador **SB** com controle eletrônico de energização sobre-energiza o eletroímã na partida para reduzir o tempo de resposta de liberação do freio e então alternar para a operação de meia onda normal quando o freio tiver sido liberado.



O uso do retificador **SB** é obrigatório no caso de:
- alto número de operações por hora
- tempo de resposta de liberação do freio reduzido
- freio exposto a estresse térmico extremo.

Retificadores **NBR** ou **SBR** estão disponíveis para aplicações que exigem rápida resposta de intervenção do freio (restabelecimento da condição de frenagem).
Estes retificadores complementam os tipos **NB** e **SB** uma vez que seu circuito eletrônico incorpora um alternador estático que desenergiza o freio rapidamente no caso de falta de energia.
Este arranjo garante curto tempo de resposta de liberação do freio sem necessidade de fiação externa e contatos adicionais. O desempenho ideal dos retificadores **NBR** e **SBR** é alcançado com fonte de alimentação do freio separada.
Versões disponíveis: 230Vac ±10%, 400Vac ± 10%, 50/60 Hz (com fonte de alimentação); 100Vdc ±10%, 180Vdc ± 10% (com a opção SD).

M8.3 Especificações técnicas do freio FD

A tabela abaixo informa as especificações técnicas dos freios FD do tipo DC.

(F31)

Freio	Torque de freio M_b [Nm] molas			Liberação		Frenagem		$W_{máx}$ por operação de freio [J]			W	P
				t_1	t_{1s}	t_2	t_{2c}					
	6	4	2	[ms]	[ms]	[ms]	[ms]	10 s/h	100 s/h	1000 s/h	[MJ]	[W]
FD02	–	3.5	1.75	30	15	80	9	4500	1400	180	15	17
FD03	5	3.5	1.75	50	20	100	12	7000	1900	230	25	24
FD53	7.5	5	2.5	60	30	100	12					
FD04	15	10	5	80	35	140	15	10000	3100	350	30	33
FD14												
FD05	40	26	13	130	65	170	20	18000	4500	500	50	45
FD15	40	26	13	130	65	170	20					
FD06S	60	40	20	–	80	220	25	20000	4800	550	70	55
FD56	–	75	37	–	90	250	20	29000	7400	800	80	65
FD06		100	50		100	250	20					
FD07	150	100	50	–	120	200	25	40000	9300	1000	130	65
FD08*	250	200	170	–	140	350	30	60000	14000	1500	230	100
FD09**	400	300	200	–	200	450	40	70000	15000	1700	230	120

* valores de torque do freio, obtidos com 9, 7 e 6 molas, respectivamente

** valores de torque do freio, obtidos com 12, 9 e 6 molas, respectivamente

t_1 = tempo de liberação do freio com retificador de meia onda
t_{1s} = tempo de liberação do freio com retificador de sobre-energização
t_2 = tempo de operação do freio com interrupção da linha AC e fonte de alimentação separada
t_{2c} = tempo de operação do freio com interrupção das linhas AC e DC – Valores para t_1, t_{1s}, t_2, t_{2c} indicados na tabela. (F30) referem-se ao conjunto de freio com torque máximo, distância no entreferro média e tensão nominal
$W_{máx}$ = energia máxima por operação do freio
W = energia de frenagem entre dois ajustes sucessivos da distância no entreferro
P_b = absorção de potência do freio a 20°C

O desgaste das pastilhas de freio depende das condições operacionais/ambientais (temperatura, umidade, velocidade angular, pressão específica); Portanto, a taxa de desgaste declarada deve ser considerada um indicativo.

M8.4 Conexões do freio FD

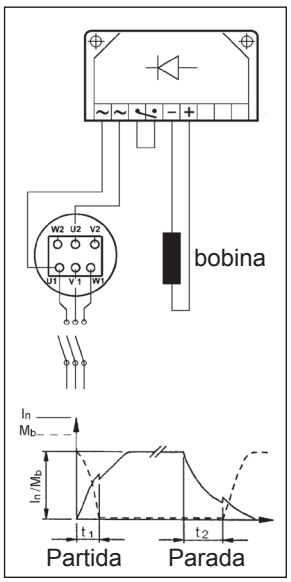
Nos motores de uma polaridade, o retificador é conectado na placa de terminais do motor na fábrica. Para motores de dupla polaridade e quando uma fonte de alimentação de freio separada for necessária, a conexão com o retificador deverá cumprir a tensão de freio VB indicada na placa de identificação do motor.

Como a carga é do tipo indutivo, o controle do freio e a interrupção da linha DC devem usar contatos da classe de uso AC-3 com o padrão IEC 60947-4-1.

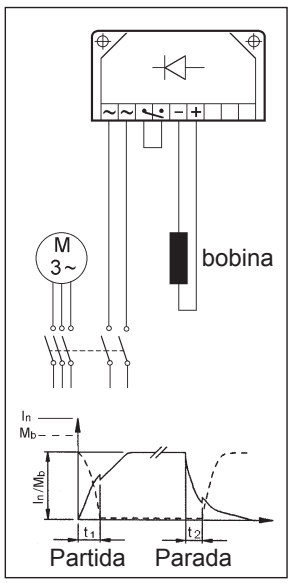
Tabela (F32) – Fonte de alimentação do freio a partir dos terminais do motor e interrupção da linha AC
Tempo de interrupção retardado t_2 e função de constantes de tempo do motor.
Obrigatório quando partidas lentas/paradas forem necessárias.
Tabela (F33) – Bobina do freio com fonte de alimentação separada e interrupção da linha AC
Tempo de parada normal independente do motor.
Os tempos de parada alcançados t_2 estão indicados na tabela (F31).
Tabela (F34) – Fonte de alimentação da bobina do freio a partir dos terminais do motor e interrupção da linha AC/DC.
Parada rápida com tempos de operação t_{2c} conforme tabela (F31).
Tabela (F35) – Bobina do freio com fonte de alimentação separada e interrupção da linha AC/DC.
Tempo de parada diminui conforme valores t_{2c} indicados na tabela (F31).

O freio poderá ser alimentado por tensão diretamente da caixa de terminais do motor (da tab. F32 até tab. F35) somente se a tensão nominal do freio for a mesma que a menor tensão do motor.

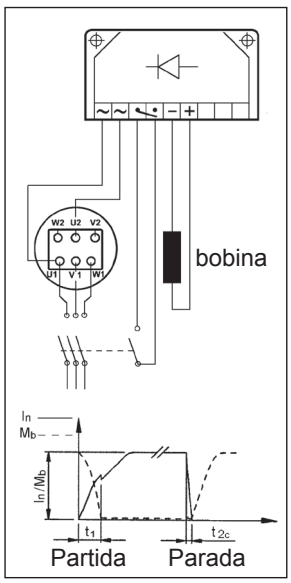
(F32)



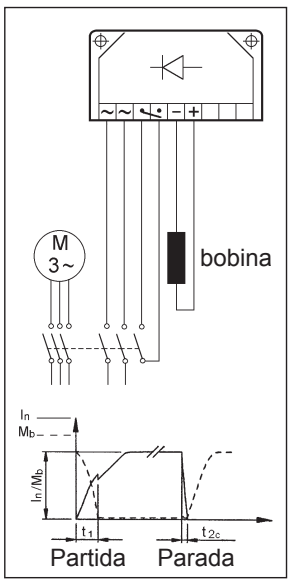
(F33)



(F34)



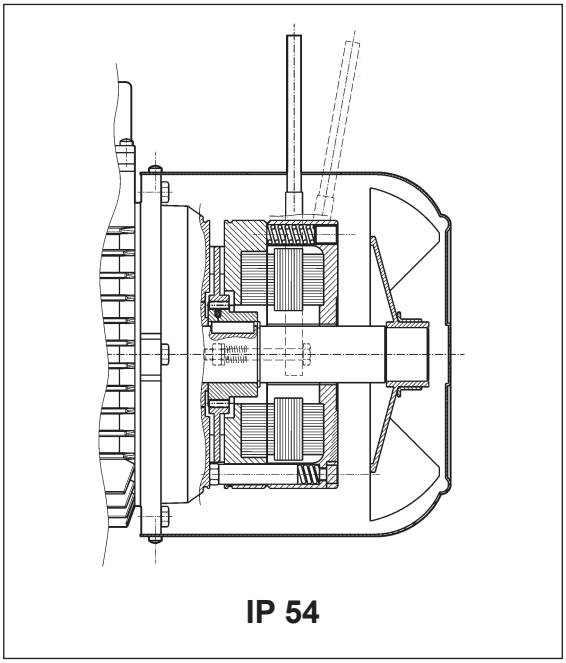
(F35)



M9 MOTORES COM FREIO AC DOS TIPOS BN_FA e M_FA

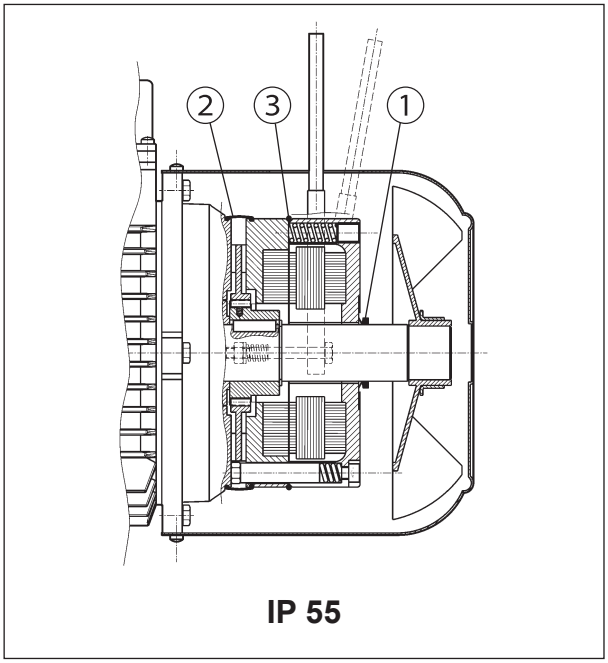
Tamanhos de quadro: BN 63 … BN 180M / M05 ... M5

(F36)



IP 54

(F37)



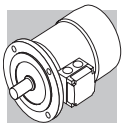
IP 55

O freio eletromagnético opera a partir da fonte de alimentação trifásica com corrente alternada e é aparafusado no escudo do motor. Molas pré-carga proporcionam um posicionamento axial do corpo magnético. O disco de aço do freio desliza axialmente no cubo de aço do eixo estriado do motor com dispositivo antivibração. A configuração de fábrica do torque do freio é indicada nos respectivos esquemas de classificação de motores. Parafusos de pré-carga da mola fornecem ajuste de torque de frenagem uniforme.
A faixa de ajuste de torque é de 30% $M_{bMAX} < M_b < M_{bMAX}$ (onde M_{bMAX} é o torque de frenagem máximo conforme exibido na tab. (F39).
Graças às suas altas características dinâmicas, os freios FA são ideais para aplicações pesadas, bem como aplicações que requerem frequentes paradas/partidas e tempo de resposta muito rápido.
Os motores podem ser equipados com alavanca de liberação manual com retorno automático (R) mediante solicitação. Ver variante no parágrafo “SISTEMAS DE LIBERAÇÃO DE FREIO” para saber os locais disponíveis para a alavanca de liberação.
Para aplicações que envolvem elevação e/ou alta dissipação de energia por hora, favor contatar o Serviço Técnico da Bonfiglioli.

M9.1 Grau de proteção

A classe de proteção padrão é IP54.
Motor com freio _FA também está disponível na classe de proteção **IP55**, o que obriga as seguintes variantes:

① Anel de Vedação em “V” no N.D.E. do eixo do motor
② capa de borracha à prova de água e poeira
③ O-ring



M9.2 Fonte de alimentação do freio FA

Em motores de uma velocidade, a alimentação é trazida para a bobina do freio diretamente da caixa de terminais do motor. Consequentemente, a tensão do freio e a tensão do motor são as mesmas. Neste caso, a indicação de tensão do freio poderá ser omitida na designação.
Motores de dupla polaridade e motores com fonte de alimentação do freio separada possuem uma placa de terminais auxiliar com 6 terminais para conexão à linha do freio. Nos dois casos, a indicação da tensão do freio na designação é obrigatória.
A tabela a seguir informa as classificações padrão da fonte de alimentação de freio AC para motores de um único polo:

(F38)

	BN 63…BN 132	BN 160…BN 180
motor unipolar	230Δ / 400Y V ±10% – 50 Hz	400Δ/ 690Y V ±10% – 50 Hz
	265Δ / 460Y ±10% - 60 Hz	460Y – 60 Hz

Salvo especificação em contrário, a alimentação padrão do freio é de 230Δ /400Y V - 50 Hz.
Tensões especiais na faixa 24…690 V, 50-60 Hz estão disponíveis mediante solicitação.
Freios FA para motores cuja tensão esteja na relação 2 (ex: 230 - 460 V - 60Hz) só podem ser fornecidos separadamente (opção SA).

M9.3 Especificações técnicas dos freios FA

(F39)

Freio	Torque de freio M_b	Liberação t_1	Frenagem t_2	W_{max} [J]			W	P
	[Nm]	[ms]	[ms]	**10 s/h**	**100 s/h**	**1000 s/h**	[MJ]	[VA]
FA 02	3.5	4	20	4500	1400	180	15	60
FA 03	7.5	4	40	7000	1900	230	25	80
FA 04	15	6	60	10000	3100	350	30	110
FA 14								
FA 05	40	8	90	18000	4500	500	50	250
FA 15								
FA 06S	60	16	120	20000	4800	550	70	470
FA 06	75	16	140	29000	7400	800	80	550
FA 07	150	16	180	40000	9300	1000	130	600
FA 08	250	20	200	60000	14000	1500	230	1200

M_b = torque de frenagem estática máximo (±15%)
t_1 = tempo de liberação do freio
t_2 = tempo de operação do freio
$W_{máx}$ = energia máxima por operação do frio (capacidade térmica do freio)
W = energia de frenagem entre dois ajustes sucessivos da distância no entreferro
P_b = energia absorvida pelo freio a 20° (50 Hz)
s/h = partidas por hora

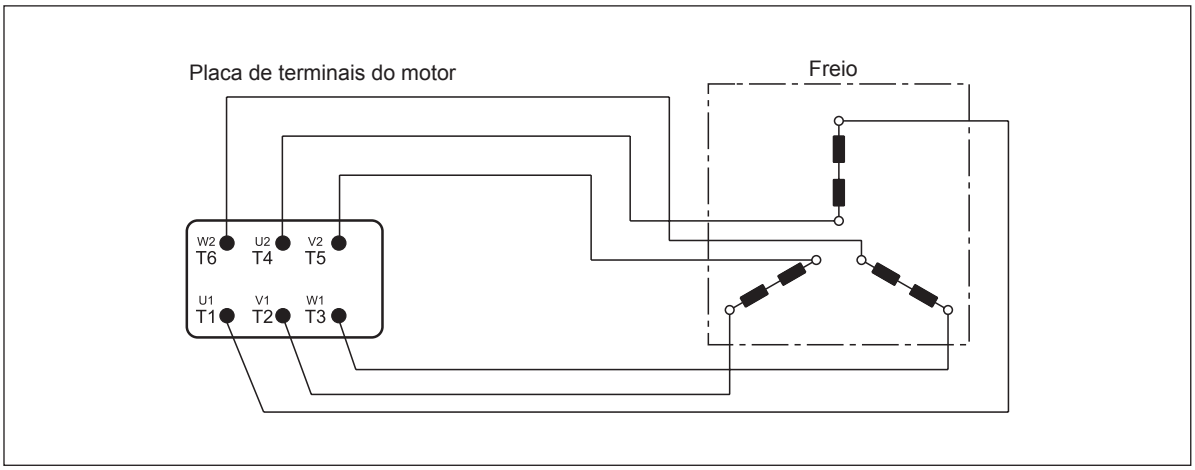
N.B.
Valores t_1 e t_2 informados na tabela referem-se ao conjunto de freio com torque nominal, distância no entreferro média e tensão nominal.

O desgaste das pastilhas de freio depende das condições operacionais/ambientais (temperatura, umidade, velocidade angular, pressão específica); Portanto, a taxa de desgaste declarada deve ser considerada um indicativo.

M9.4 Conexões do freio FA

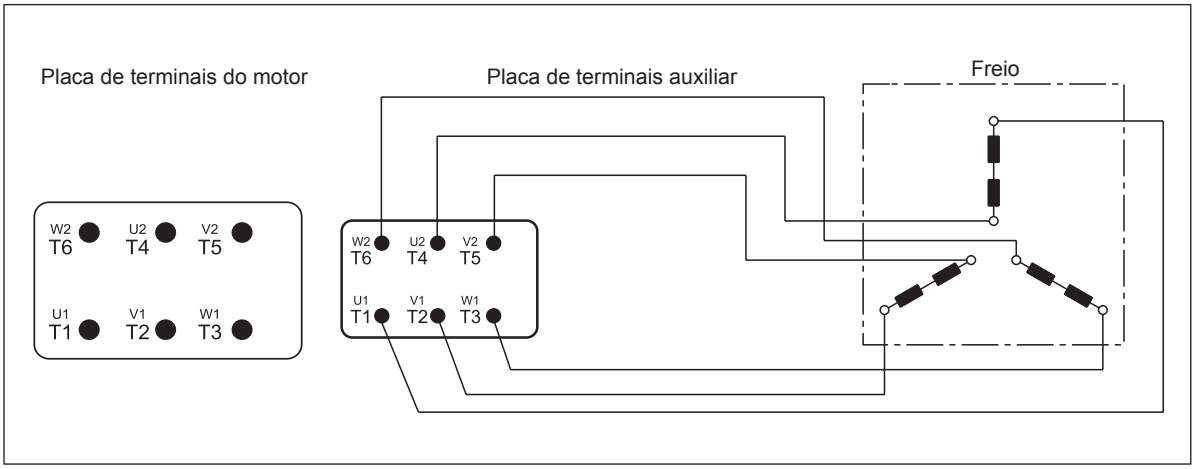
O diagrama abaixo mostra a fiação quando o freio é conectado diretamente à mesma fonte de alimentação do motor:

(F40)

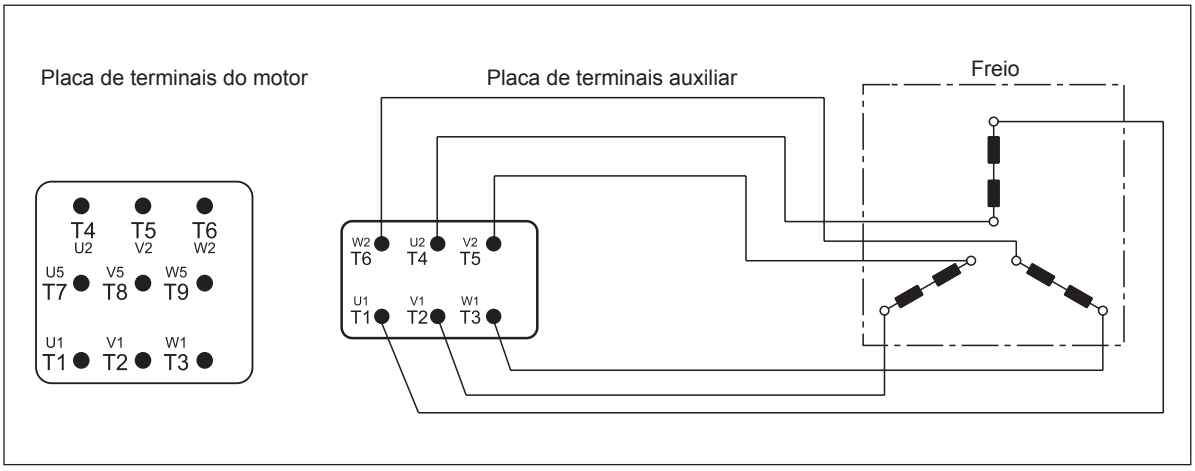


Motores de dupla polaridade e, mediante solicitação, motores de uma polaridade com fonte de alimentação separada são equipados com uma placa de terminais auxiliar com 6 terminais para conexão do freio.
Nesta versão, os motores possuem uma caixa de terminais maior. Ver diagrama abaixo:

(F41)



(F42)

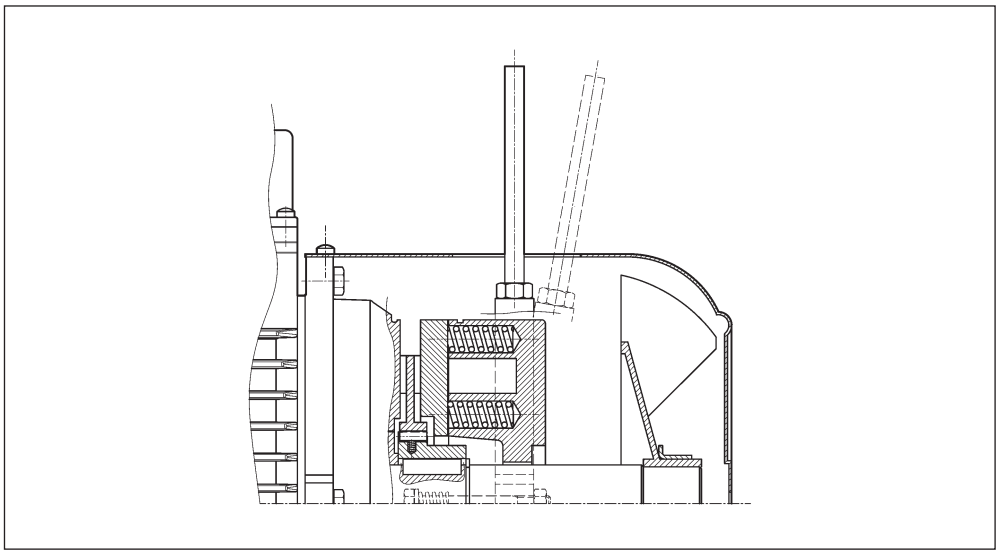


M10 SISTEMA DE LIBERAÇÃO DO FREIO

Freios a mola dos tipos FD e FA podem ser equipados com dispositivos de liberação manual adicionais. Estes são normalmente utilizados para liberar manualmente o freio antes da manutenção de qualquer máquina ou peças da fábrica operadas pelo motor.

R

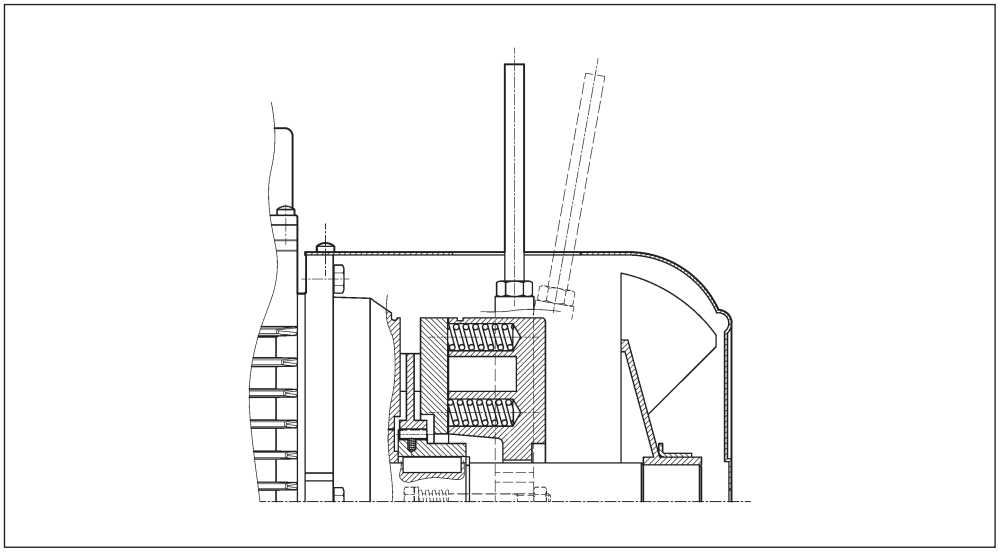
(F43)



Uma mola de retorno traz a alavanca de liberação de volta à sua posição original.

RM

(F44)



Nos motores do tipo BN_FD, se a opção RM for especificada, o dispositivo de liberação poderá ser travado na posição ”liberar” apertando a alavanca até sua extremidade encaixar em uma projeção da caixa do freio.
A disponibilidade dos diversos dispositivos de desengate é exibido no esquema abaixo:

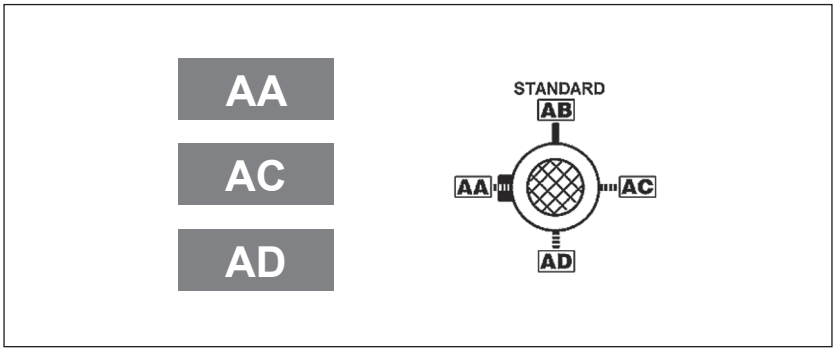
(F45)

	R	RM
BN_FD	**BN 63...BN 200**	**BN 63 ... BN 132** ⛔ **FD07**
BN_FA	**BN 63...BN 180M**	⛔

M10.1 Orientação da alavanca de liberação

Salvo especificação em contrário, a alavanca de liberação está localizada a 90° de distância da caixa de terminais – identificada pelas letras[**AB**] no diagrama abaixo – no sentido horário em ambas as opções **R** e **RM**.
Posições de alavanca alternativas [**AA**], [**AC**] e [**AD**] também são possíveis quando a opção correspondente for especificada:

(F46)



M11 OPÇÕES

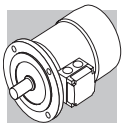
M11.1 Partida/parada suave

F1

Um volante opcional - opção F1 - está disponível para aplicações que exigem partida ou parada suave. A inércia adicionada pelo volante usa energia cinética durante a partida e retorna a mesma durante a frenagem, obtendo, assim, cargas de choque mais progressivas e graduais. O volante opcional está disponível para motores com freio do tipo BN_FD com características específicas detalhadas na tabela abaixo:

(F47)

Principais dados do volante por tipo de motor: BN_FD, M_FD			
		**Peso do Volante** [Kg]	**Inércia do Volante** [Kgm^2]
BN 63	**M05**	0.69	0.00063
BN 71	**M1**	1.13	0.00135
BN 80	**M2**	1.67	0.00270
BN 90 S - BN 90 L	**–**	2.51	0.00530
BN 100	**M3**	3.48	0.00840
BN 112	**–**	4.82	0.01483
BN 132 S - BN 132 M	**M4**	6.19	0.02580



M11.2 Filtro capacitivo

CF

Um filtro capacitivo opcional está disponível para motores com freio DC somente do tipo BN_FD. Quando o filtro capacitivo adequado é instalado antes do retificador (opção CF), os motores cumprem os limites de emissão exigidos pelo padrão EN61000-6-3:2007 “Compatibilidade Eletromagnética– Padrão de Emissão Genérica – Parte 6-3: Ambiente residencial, comercial e de iluminação industrial”.

M11.3 Dispositivos de proteção térmica

Além da proteção padrão fornecida pelo dispositivo termomagnético, os motores podem ser fornecidos com sensores térmicos internos para proteger a bobina contra o superaquecimento causado por ventilação insuficiente ou por um serviço intermitente.
Esta proteção adicional deve ser sempre especificada para motores servoventilados (IC416).

M11.4 Termistores

E3

Estes são semicondutores com variação rápida da resistência quando se aproximam da temperatura nominal de desligamento de 150°C. Variações da R = f(T) características são especificadas pelos padrões DIN 44081, IEC 34-11. Termistores com coeficiente de temperatura positiva são geralmente utilizados (também conhecidos como PTC “resistores de condutor frio”). Termistores não podem controlar relés diretamente e devem ser conectados a um dispositivo de desconexão adequado. Assim protegido, três PTCs conectados em série são instalados na bobina, cujos terminais estão localizados na placa de terminais auxiliar.

K1

As características de projeto deste subgrupo de termistores PTC permitem que eles sejam usados como sensores com coeficiente de temperatura positiva com resistência variável.
Faixa de temperatura de funcionamento: 0°C ... +260°C.
Termistores não podem controlar relés diretamente e devem ser conectados a um dispositivo de desconexão adequado.
Terminais (polarizados) para 1 x KTY 84-130 são fornecidos em uma régua de terminais auxiliar.

M11.5 Termostatos bimetálicos

D3

Estes tipos de dispositivos de proteção abrigam um disco bimetálico. Quando a temperatura nominal de desligamento de 150°C é atingida, o disco alterna os contatos de sua posição inicial de repouso. Conforme a temperatura diminui, o disco e os contatos retornam automaticamente à posição de repouso.
Três termostatos bimetálicos conectados em série são geralmente empregados, com contatos normalmente fechados. Os terminais estão localizados em uma placa de terminais auxiliar.

M11.6 Conector de Plug

CON

Três tipos de conectores (CON 1, CON 2, CON 3) são fornecidos; eles podem ser montados em duas posições diferentes: lado direito da tampa da caixa de terminais (C1D, C2D, C3D); lado esquerdo da tampa da caixa de terminais C1S, C2S, C3S). A opção CON é aplicável a motores BN e M (2, 4, 6, 8 polos), e aos motores BE e ME sobre os tamanhos especificados na tabela a seguir. Todos os motores de dupla polaridade são excluídos. Os Conectores CON 1 / CON 2 estão disponíveis para motores BE e BN sem freio e para motofreios BN equipados com freio DC tipo FD, para os tamanhos de motores listados abaixo. **O conector macho (com pinos) é montado no motor, o conector fêmea não é fornecido.**

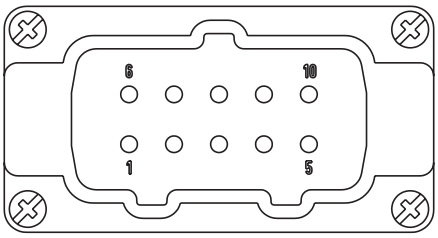
Com a opção CON, a ligação será sempre Y.

Com a opção U1 “ventilação forçada”, o fornecimento de unidade de ventilação está disponível dentro da caixa terminal separado fixo à tampa do ventilador. Com as opções EN1 ... EN6, a conexão do encoder é feita por um cabo não conectado ao conector do motor.

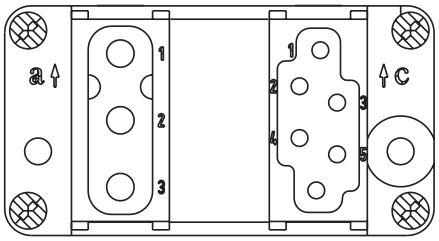
A opção CON não é aplicável a motor-freios equipados com freio AC tipo FA. A opção CON não está disponível quando pelo menos uma das seguintes opções são selecionadas: U2, CUS, IC.

Especificações

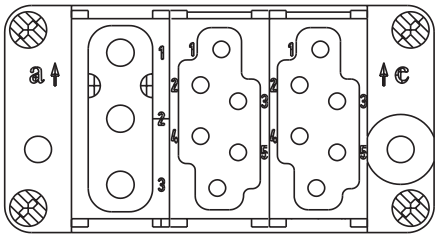
(F49)

Opção	**CON 1**
Tamanho do motor	**BE 80 ... BE 112 / ME2, ME3 / BN 63 … BN 112 / M05 ... M3**
Vista do conector	
Tipo de conector	Harting Han 10ES
Caixa	Han EMC 10B com 2 alavancas
Número de pinos - corrente nominal	10 x 16A
Tensão	500 Vac
Conexão do contato	Régua de Bornes

(F48)

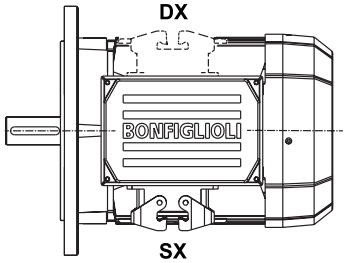
Opção	**CON 2**
Tamanho do motor	**BE 80 ... BE 132M / ME4 / BN 63 … BN 132M / M05 ... M4L**
Vista do conector	
Tipo de conector	Harting Han Modular
Caixa	Han EMC 10B com 2 alavancas
Tipo de módulo	Módulo C + Módulo vazio + Módulo E
Número de pinos - corrente nominal	3 x 36A / 6 x 16A
Tensão	500 Vac
Conexão do contato	Contatos a crimpar

(F50)

Opção	**CON 3**
Motor size	**BE 80 ... BE 132M / ME4 / BN 63 … BN 132M / M05 ... M4L**
Tamanho do motor	
Tipo de conector	Harting Han Modular
Caixa	Han EMC 10B com 2 alavancas
Tipo de módulo	Módulo C + Módulo E + Módulo E
Número de pinos - corrente nominal	3 x 36A / 6 + 6 x 16A
Tensão	500 Vac
Conexão do contato	Contatos a crimpar

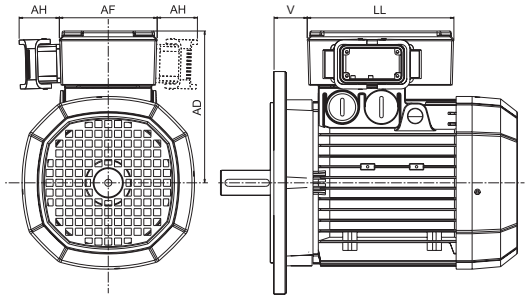
(F51)

Orientação do conector



(F52)

Motores sem dimensões do freio

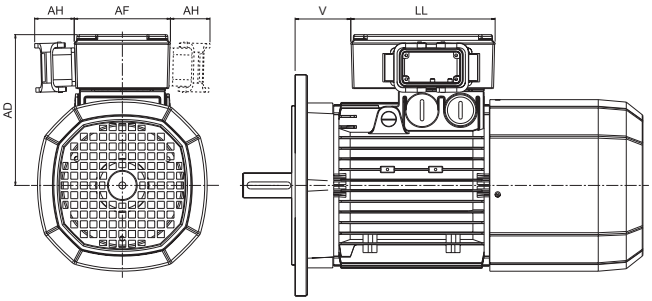


		AD (mm)	**AF** (mm)	**AH** (mm)	**LL** (mm)	**V**(*) (mm)
BN 63	**M05**	136	110	45	165	4.5
BN 71	**M1**	149	110	45	165	15.5
BE 80 - BN 80	**ME2 - M2**	160	110	45	165	16.5
BE 90 - BN 90	**–**	162	110	45	165	31.5
BE 100 - BN 100	**ME3 - M3**	171	110	45	165	37.5
BE 112 - BN 112	**–**	186	110	45	165	39
BE 132 - BN 132	**ME4 - M4**	210	140	45	188	45.5
BN 160MR	**–**	210	140	45	188	161

(*) Dimensão válida somente para motores BE e BN.

(F54)

Motores com dimensões de freio FD



		AD (mm)	**AF** (mm)	**AH** (mm)	**LL** (mm)	**V**(*) (mm)
BN63	**M05**	136	110	45	165	4.5
BN71	**M1**	149	110	45	165	1.5
BN80	**M2**	160	110	45	165	18.5
BN90	**—**	162	110	45	165	39.5
BN100	**M3**	171	110	45	165	63.5
BN112	**—**	186	110	45	165	75
BN132	**M4**	210	140	45	188	122
BN160MR	**—**	210	140	45	188	161

(*) Dimensão válida somente para motores BN.

M11.7 Controle da operação do freio

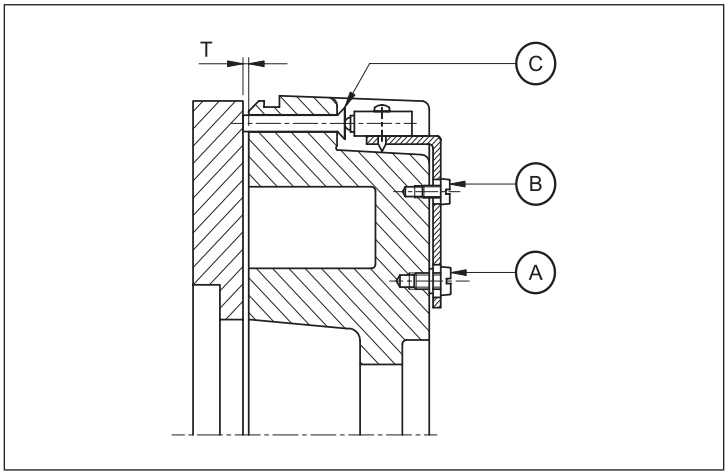
MSW

O microinterruptor pode ser ajustado a fim de obter dele um sinal relacionado à atração/libertação da placa de ancoragem, ou ele pode ser configurado de modo a dar feedback quando a distância no entreferro atingir o valor máximo.

A opção MSW está disponível para os freios FD03...FD09.

O microinterruptor é fornecido com três fios condutores de chumbo (NC, NO, COM). A próxima figura mostra os principais componentes do freio equipados com microinterruptor.

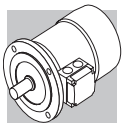
(F53)



A: Parafusos de fixação da placa

B: Parafusos de ajuste

C: Pino de controle do atuador



M11.8 Entrada de cabo adicional para motores com freio

IC

A tampa da caixa de terminais dos motores com freio BN63...BN160MR / M05...M4 é fornecida com duas entradas para cabos adicionais M16 x 1,5 (uma entrada de cabo por lado).
A tampa da caixa de terminais dos motores com freio BN160...BN200 / M5 é fornecida com uma entrada para cabos adicional M16 x 1,5 ao lado da entrada de cabos utilizada para o freio.

M11.9 Aquecedores anticondensação

H1 **NH1**

Quando uma aplicação envolver alta umidade ou variação extrema de temperaturas, os motores poderão ser equipados com um aquecedor anticondensação.
Uma fonte de alimentação monofásica é disponibilizada na placa de terminais auxiliar dentro da placa de terminais principal.
Os valores de potência absorvida estão relacionados abaixo:

(F55)

	H1 1~ 230V ± 10% P [W]	NH1 1~ 115V ± 10% P [W]
BE 80 **BN 56 ... BN 80**	10	10
BE 90 ... BE 132MB **BN 90 ... BN 160MR**	25	25
BE 160, BE 180 **BN 160, BN 200**	50	50

Aviso! Retire sempre a fonte de alimentação do aquecedor anticondensação antes de operar o motor.

M11.10 Tropicalização

TP

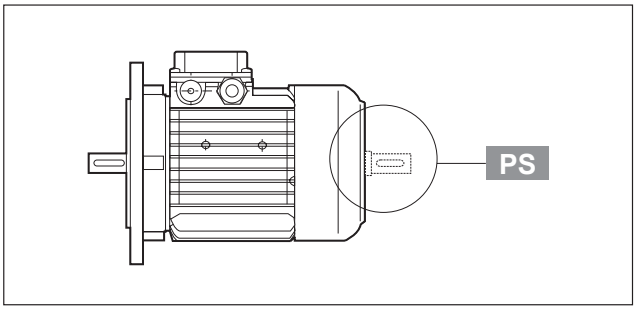
Quando a opção **TP** for especificada, as bobinas do motor recebem proteção adicional para operação em condições de alta umidade e temperatura.

M11.11 Extensão do segundo eixo

PS

Esta opção não é compatível com as variantes RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6.
Para as dimensões dos eixos, favor consultar as tabelas de dimensões de motor.

(F56)



M11.12 Dispositivo contrarrecuo

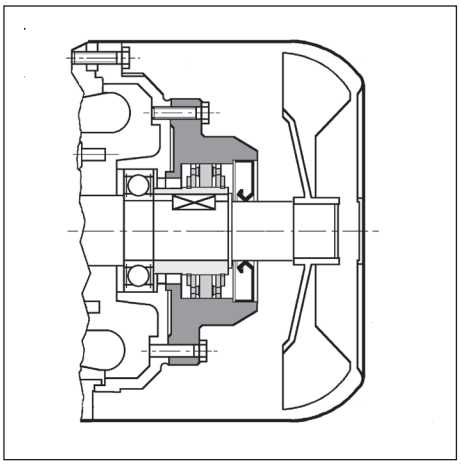
AL **AR**

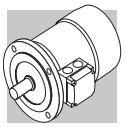
Para aplicações em que o recuo do motor deve ser evitado, motores equipados com um dispositivo contrarrecuo podem ser utilizados (disponíveis somente para as séries, ME e M). Mesmo permitindo a rotação no sentido desejado, este dispositivo opera instantaneamente no caso de falta de energia, impedindo o retorno do eixo. O dispositivo contrarrecuo possui lubrificação permanente com graxa especial para esta aplicação específica. Ao fazer o pedido, os clientes devem indicar o sentido de rotação desejado, AL ou AR.
Nunca utilizar o dispositivo contrarrecuo para impedir a rotação reversa causada por falha na conexão elétrica. A Tabela (F57) mostra os torques nominal e máximo de bloqueio dos dispositivos contrarrecuo. Um diagrama do dispositivo pode ser visto na Tabela (F58). As dimensões gerais são as mesmas do respectivo motor com freio. O sentido de rotação livre é descrito na seção “OPÇÕES DO MOTOR” das seções especialmente dedicadas a redutores.

(F57)

	Torque de bloqueio nominal [Nm]	Torque de bloqueio máximo [Nm]	Velocidade de liberação [rpm]
M1	6	10	750
M2	16	27	650
M3	54	92	520
M4	110	205	430

(F58)





M11.13 Balanceamento do rotor

RV

Quando baixo ruído for um requisito prioritário, a opção RV garante menor vibração de acordo com a classe de vibração B. A tabela abaixo informa a velocidade de vibração efetiva para balanceamento normal de graus (A) e B.

(F59)

Nível de vibração	Velocidade angular n [rpm]	Limites da velocidade de vibração (mm/s) **BE 80 ≤ H ≤ BE 180L** **BN 56 ≤ H ≤ BN 200**
A	600 < n < 3600	1.6
B	600 < n < 3600	0.70

Os valores são obtidos a partir de medições feitas no motor livremente suspenso durante uma operação sem carga; tolerância de ± 10%.

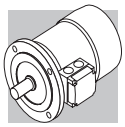
M11.14 Ventilação

Os motores são refrigerados através da movimentação do ar externamente (IC 411 de acordo com a CEI EN 60034-6) e são equipados com ventilador de plástico radial, o qual opera em ambos os lados. Certifique-se que a tampa do ventilador está instalada a uma distância adequada de uma parede fechada de modo a permitir a circulação de ar e realizar a manutenção do freio, se instalado.
A pedido, os motores podem ser fornecidos com alimentação independente para o sistema de ventilação forçada a partir dos tamanhos BN 71, M1, BE 80, ME2.
Motores refrigerados por ventilador axial com fonte de alimentação independente e montado na tampa do ventilador (IC 416 sistema de refrigeração).
Esta versão é usada em caso de motor acionado por inversor de frequência de modo que a operação de torque constante é possível, mesmo em baixa velocidade ou quando as frequências de partida elevadas são necessárias.
Motores e moto-freios com proteção do eixo traseiro (opção PS) estão exclusos.

(F60)

Comprimento extra para motores servoventilados			
		**Δ L_1**	**Δ L_2**
BN 71	**M1**	93	32
BE 80 - BN 80	**ME2 - M2**	127	55
BE 90 - BN 90	**–**	131	48
BE 100 - BN 100	**ME3 - M3**	119	28
BE 112 - BN 112	**–**	130	31
BE 132 - BN 132	**ME4 - M4**	161	51
BE 160 - BE 180	**ME5**	184	–

ΔL_1 = ecomprimento extra ao valor de LB do respectivo motor padrão.
ΔL_2 = comprimento extra ao valor de LB do respectivo freio motor. Somente para motores BN.

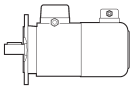


Esta variante tem dois modelos diferentes, chamadas de **U1** e **U2**, tendo a mesma dimensão longitudinal. Lado mais longo da tampa do ventilador (ΔL) é especificado para ambos os modelos indicados na tabela abaixo. Dimensões no geral podem ser consideradas a partir da tabela dos tamanhos dos motores.

U1

Os terminais de ligação do ventilador estão alojados em uma caixa de terminais separada.
Nos motores de tamanho BN 71 ... BN 160MR, M1 ... M4L, com o modelo U1, a alavanca de libertação não pode ser posicionado para AA.
A opção não está disponível para motores compatíveis com as Normas CSA e UL (opção CUS).

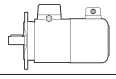
(61)

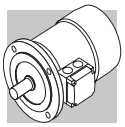
	**V a.c.** ±10%	**Hz**	**P** [W]	**I** [A]
BN 71	1 ~ 230	50 / 60	22	0.12
BE 80 **BN 80**			22	0.12
BE 90 **BN 90**			40	0.30
BE 100 **BN 100**			50	0.25
BE 112 **BN 112**	3 ~ 230Δ / 400Y		50	0.26 / 0.15
BE 132 **BN 132 ... BN 160MR**			110	0.38 / 0.22
BE 160 **BN 160M ... BN 180M**		50	180	1.25 / 0.72
BE 180 **BN 180L ... BN 200L**			250	1.51 / 0.87

U2

Os terminais dos ventiladores estão conectados na caixa de terminais do motor.
A opção U2 não se aplica a motores BE, ME e motores com opção CUS (em conformidade com as normas CSA e UL).

(62)

	**V a.c.** ±10%	**Hz**	**P** [W]	**I** [A]
BN 71	1 ~ 230	50 / 60	22	0.12
BN 80			22	0.12
BN 90			40	0.30
BN 100			40	0.26 / 0.09
BN 112	3 ~ 230Δ / 400Y		50	0.26 / 0.15
BN 132 ... BN 160MR			110	0.38 / 0.22

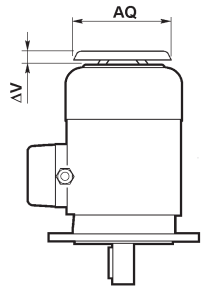


M11.15 Protetor de chuva

RC

O protetor de chuva protege o motor contra gotas e evita o ingresso de corpos sólidos. É recomendado quando o motor for instalado na posição vertical com o eixo para baixo.
Dimensões relevantes são indicadas na tabela abaixo.
A tampa de gotejamento não é compatível com as variantes PS, EN1, EN2, EN3, EN4, EN5, EN6.

(F63)

		**AQ** [*mm* / inch]	**ΔV** [*mm* / inch]	
BN 63	**M05**	*118* / 4.646	*24* / 0.945	
BN 71	**M1**	*134* / 5.276	*27* / 1.063	
BE 80 **BN 80**	**ME2** **M2**	*152* / 5.984	*25* / 0.984	
BE 90 **BN 90**	**—** **—**	*168* / 6.614	*30* / 1.181	
BE 100 **BN 100**	**ME3** **M3**	*190* / 7.480	*28* / 1.102	
BE 112 **BN 112**	**—** **—**	*211* / 8.307	*32* / 1.260	
BE 132 **BN 132...BN 160MR**	**ME4** **M4**	*254* / 10.000	*32* / 1.260	
BE 160 **BN 160M...BN 180M**	**ME5** **M5**	*302* / 11.890	*36* / 1.417	
BE 180 **BN 180L...BN 200L**	**—** **—**	*340* / 13.386	*36* / 1.417	

M11.16 Protetor para aplicações têxteis

TC

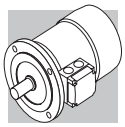
A opção TC é uma variante de cobertura para ambientes da indústria têxtil, onde fiapos podem obstruir a grade do ventilador e impedir o fluxo regular do ar de resfriamento.
Esta opção não é compatível com as variantes EN1, EN2, EN3, EN4, EN5, EN6, PS, U1, U2.
As dimensões gerais são as mesmas da tampa de gotejamento do tipo RC.

M11.17 Unidades de realimentação

Os motores podem ser combinados com seis diferentes tipos de encoders para alcançar os circuitos de realimentação.
Configurações com eixo com extensão dupla (PS) e protetor de chuva (RC, TC) não são compatíveis com a instalação do encoder.

EN1

Encoder incremental, V_{IN} = 5 V, com saída line-driver RS 422.



EN2

Encoder incremental, V_{IN} = 10-30 V, com saída line-driver RS 422.

EN3

Encoder incremental, V_{IN} = 12-30 V, com saída push-pull 12-30 V

EN4

Encoder sin/cos, V_{IN} = 4,5-5,5 V, com saída Sinus 0,5V_{PP}.

EN5

Encoder absoluto singleturn, HIPERFACE® interface, V_{IN} = 7-12 V.

EN6

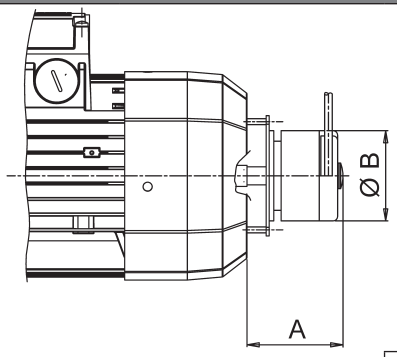
Encoder absoluto multiturn, HIPERFACE® interface, V_{IN} = 7-12 V.

(F64)

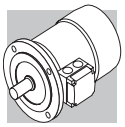
		EN1	EN2	EN3	EN4	EN5	EN6
Interface		TTL/RS 422	TTL/RS 422	HTL/push-pull	Sinus 0.5 VPP	HIPERFACE®	HIPERFACE®
Tensão da fonte de alimentação	[V]	4...6	10...30	12...30	4.4...5.5	7...12	7...12
Tensão de saída	[V]	5	5	12...30	—	—	—
Corrente de operação sem carga	[mA]	120	100	100	40	80	80
Número de pulsos por revolução		1024					
Passos por revolução		—	—	—	—	15 bit	15 bit
Revoluções		—	—	—	—	—	12 bit
Número de sinais		6 (A, B, Z + sinais invertidos)			6 (cos-, cos+, sin-, sin+, Z, $\overline{Z}$)	—	—
Frequência de saída máxima	[kHz]	600			200		
Velocidade máxima	[rpm]	6000 (9000 rpm por 10 s)					
Intervalo de temperaturas	[°C]	-30 ... +100					
Classe de proteção		IP 65					

(F65)

EN1, EN2, EN3, EN4, EN5, EN6



		A [*mm* / inch]	**B** [*mm* / inch]
BE 80 ... BE 180L	**ME2S ... ME5L**	*65* / 2.559	*59* / 2.323
BN 63 ... BN 200L	**M05 ... M5**		
BN 63_FD ... BN 200L_FD	**M05_FD ... M5_FD**		
BN 63_FA ... BN 200L_FA	**M05_FA ... M5_FA**		



Se o dispositivo codificador (opção EN_) está especificado em motores BE 80 ... BE 80 ... BE 132 - ME2 ... ME4 - BN 71 ... BN 160MR - M1 ... M4, juntamente com o ventilador independente de arrefecimento (opções U1, U2), o comprimento extra do motor está coincidente com a correspondente execução U1 e U2.

M11.18 Proteção de superfície

C_

Quando nenhuma classe de proteção específica for solicitada, as superfícies (ferrosas) pintadas dos motores serão protegidas de acordo com no mínimo a classe de corrosividade C2 (UNI EN ISO 12944-2). Para maior resistência à corrosão atmosférica, os motores podem ser entregues com proteção de superfície C3 ou C4.

(F66)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
C3	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
C4	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Motores com proteção opcional na classe C3 ou C4 estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção “PINTURA”), os motores serão acabados na cor RAL 7042. Os motores também podem ser fornecidos com proteção de superfície para corrosividade de classe C5 de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.

M11.19 Pintura

RAL

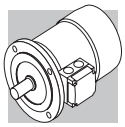
Redutores com proteção opcional na classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(F67)

PINTURA	Cor	número RAL
RAL7042*	Traffic Grey A	7042
RAL5010	Gentian Blue	5010
RAL9005	Jet Black	9005
RAL9006	White Aluminium	9006
RAL9010	Pure White	9010

* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.



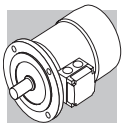
M11.20 Certificados

ACM

Certificado de Conformidade de Motores
O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

CC

Certificado de Inspeção
O documento implica a verificação da conformidade, a inspeção visual das condições externas e testes instrumentais das características elétricas na condição sem carga. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.



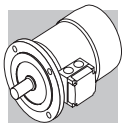
M12 ESQUEMAS DE CLASSIFICAÇÃO DE MOTORES BE-ME

4 P	1800 rpm - S1	60 Hz - IE2

P_n kW			n rpm	M_n Nm	In 460V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA Code	J_m x 10^{-4} Kgm^2	IM B5 kg
0.75	**BE 80B**	**4**	1745	4.1	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	12.2
1.1	**BE 90S**	**4**	1740	6	2.25	84	82.7	79	0.73	7.7	3.5	3.2	L	28	13.6
1.5	**BE 90LA**	**4**	1740	8.2	3.1	84.5	83.9	80.7	0.73	7.1	3.6	3.4	K	34	15.1
2.2	**BE 100LA**	**4**	1745	12	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	22
3	**BE 100LB**	**4**	1735	16.5	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	24
3.7	**BE 112M**	**4**	1750	20	6.6	87.5	87.5	86.1	0.8	7.8	3.3	3.2	K	105	32
5.5	**BE 132S**	**4**	1760	30	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	53
7.5	**BE 132MA**	**4**	1760	43	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	59
9.2	**BE 132MB**	**4**	1760	50	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	70
11	**BE 160M**	**4**	1765	60	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	99
15	**BE 160L**	**4**	1770	81	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	115
18.5	**BE 180M**	**4**	1765	100	30.3	92.4	91.9	90.5	0.83	7.3	2.7	2.5	H	1250	135
22	**BE 180L**	**4**	1770	119	36	92.4	92.5	92.2	0.83	8.1	3.3	3.2	J	1650	157

4P	1800 rpm - S1	60 Hz - IE2

P_n kW			n rpm	M_n Nm	In 460V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	KVA Code	J_m x 10^{-4} Kgm^2	IM B5 kg
0.75	**ME 2SB**	**4**	1745	4.1	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	10.9
1.1	**ME 3SA**	**4**	1740	6	2.25	84	82.5	80.5	0.73	6	2.9	2.7	J	34	15.5
1.5	**ME 3SB**	**4**	1740	8.2	3.3	84.5	84	83	0.71	6.3	3.1	2.9	K	40	17
2.2	**ME 3LA**	**4**	1745	12	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	21
3	**ME 3LB**	**4**	1735	16.5	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	23
3.7	**ME 4SA**	**4**	1740	20	6.7	87.5	85.6	82.9	0.79	7	3.3	2.9	J	213	42
5.5	**ME 4SB**	**4**	1760	30	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	51
7.5	**ME 4LA**	**4**	1760	41	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	57
9.2	**ME 4LB**	**4**	1760	50	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	65
11	**ME 5SA**	**4**	1765	60	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	85
15	**ME 5LA**	**4**	1770	81	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	101

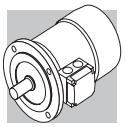


2 P	3000 rpm - S1	50 Hz - IE2

P_n kW			n rpm	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J_m x 10^{-4} kgm²	IM B5 Kg
0.75	**BE 80A**	**2**	2860	2.5	1.65	80.0	79.6	76.4	0.83	6.8	3.8	3.5	9.0	9.5
1.1	**BE 80B**	**2**	2845	3.7	2.35	81.5	82.2	79.9	0.83	6.9	3.8	3.1	11.4	11.3
1.5	**BE 90SA**	**2**	2865	5.0	3.2	81.3	80.7	78.1	0.82	6.8	3.6	2.8	12.5	12.3
2.2	**BE 90L**	**2**	2870	7.3	4.7	83.2	83.1	80.8	0.82	6.9	3.1	2.9	16.7	14
3	**BE 100L**	**2**	2880	9.9	6.2	84.6	84.6	83.7	0.83	7.3	3.5	3.1	39	23
4	**BE 112M**	**2**	2920	13.1	8.2	85.8	85.5	84.3	0.82	7.9	3.5	3.1	57	28
5.5	**BE 132SA**	**2**	2925	18.0	10.6	87.0	85.0	81.7	0.86	8.5	3.6	3.3	145	42
7.5	**BE 132SB**	**2**	2935	24	14.3	88.1	87.4	84.7	0.86	8.8	3.9	3.6	178	53
9.2	**BE 132MB**	**2**	2920	30	16.4	88.8	86.5	84.2	0.91	8.4	3.7	3.3	210	65
11	**BE 160MA**	**2**	2940	36	20.0	89.4	89.5	88.0	0.89	8.1	3.0	2.9	340	84
15	**BE 160MB**	**2**	2950	49	27.2	90.5	90.5	89.5	0.88	8.5	3.0	2.8	420	97
18.5	**BE 160L**	**2**	2945	60	32	90.9	90.5	89.8	0.91	7.7	2.9	2.7	490	109

4 P	1500 rpm - S1	50 Hz - IE2

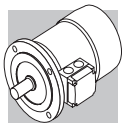
P_n kW			n rpm	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J_m x 10^{-4} kgm²	IM B5 Kg
0.75	**BE 80B**	**4**	1430	5.0	1.65	81.0	80.5	78.0	0.81	6.1	3.2	3.0	28	12.2
1.1	**BE 90S**	**4**	1430	7.4	2.53	82.5	82.0	79.5	0.76	6.3	2.9	2.8	28	13.6
1.5	**BE 90LA**	**4**	1430	10.0	3.5	83.5	83.0	80.0	0.74	5.9	3.1	3.0	34	15.1
2.2	**BE 100LA**	**4**	1430	14.7	4.9	85.4	85.0	84.0	0.76	5.8	3.0	2.8	54	22
3	**BE 100LB**	**4**	1420	20	6.6	85.5	86.0	85.5	0.77	5.9	2.8	2.6	61	24
4	**BE 112M**	**4**	1440	27	8.3	87.0	87.0	86.0	0.80	6.5	2.8	2.8	105	32
5.5	**BE 132S**	**4**	1460	36	11.1	88.5	88.5	87.5	0.81	7.3	2.9	2.9	270	53
7.5	**BE 132MA**	**4**	1460	49	14.8	89.0	89.0	88.5	0.82	6.9	2.9	2.8	319	59
9.2	**BE 132MB**	**4**	1460	60	18.1	89.5	89.5	88.5	0.82	6.9	2.9	3.0	360	70
11	**BE 160M**	**4**	1465	72	21.5	91.0	91.3	90.5	0.81	6.5	2.8	2.6	650	99
15	**BE 160L**	**4**	1465	98	28.7	90.8	91.0	90.5	0.83	6.5	2.6	2.3	790	115
18.5	**BE 180M**	**4**	1465	121	35	91.6	92.0	91.3	0.83	6.5	2.6	2.5	1250	135
22	**BE 180L**	**4**	1465	143	41	91.6	91.8	91.4	0.84	6.8	2.7	2.6	1650	157



6 P	1000 rpm - S1	50 Hz - IE2

P_n kW		n rpm	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	J_m x 10^{-4} kgm^2	IM B5 Kg
0.75	**BE 90S 6**	935	7.7	2.06	75.9	75.9	73.0	0.69	5.1	3.1	2.9	33	15
1.1	**BE 100M 6** (*)	945	11.1	2.75	78.1	76.2	73.0	0.74	4.9	2.2	1.9	82	22
1.5	**BE 100LA 6**	945	15.2	3.9	79.8	77.5	74.0	0.72	5.6	2.5	2.3	95	24
2.2	**BE 112M 6**	950	22	5.2	81.8	81.8	79.3	0.74	5.2	2.6	2.3	168	32
3	**BE 132S 6**	955	30	6.6	83.3	83.3	82.4	0.79	6.1	2.1	1.9	295	44
4	**BE 132MA 6**	965	40	8.7	84.6	85.0	83.1	0.79	6.9	2.2	2.0	383	56
5.5	**BE 160MA 6** (*)	965	54	11.6	87.0	87.0	86.4	0.79	6.6	2.5	2.3	740	83
7.5	**BE 160MB 6** (*)	965	74	15.0	88.0	88.0	87.2	0.82	6.6	2.3	2.1	970	103

(*) Relação potência/tamanho não padronizada

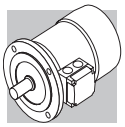


2 P	3000 rpm - S1	50 Hz - IE2

P_n kW			n rpm	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J_m x 10^{-4} kgm²	IM B9 Kg
0.75	**ME 2SA**	**2**	2860	2.5	1.63	80.0	79.6	76.4	0.83	6.8	3.8	3.5	9.0	8.8
1.1	**ME 2SB**	**2**	2845	3.7	2.35	81.5	82.2	79.9	0.83	6.9	3.8	3.1	11.4	10.6
1.5	**ME 3SA**	**2**	2845	5.0	3.2	81.3	79.0	76.0	0.84	6.1	2.9	2.7	24	15.5
2.2	**ME 3LA**	**2**	2895	7.3	4.8	83.2	83.2	81.5	0.80	6.3	2.7	2.5	31	18.7
3	**ME 3LB**	**2**	2880	9.9	6.2	84.6	84.6	83.7	0.83	7.3	3.5	3.1	39	22
4	**ME 4SA**	**2**	2900	13.2	7.8	85.8	84.5	82.2	0.87	7.0	2.9	2.8	101	33
5.5	**ME 4SB**	**2**	2925	18.0	10.6	87.0	85.0	81.7	0.86	8.5	3.6	3.3	145	40
7.5	**ME 4LA**	**2**	2935	24	14.3	88.1	87.4	84.7	0.86	8.8	3.9	3.6	178	51
9.2	**ME 4LB**	**2**	2920	30	16.4	88.8	86.5	84.2	0.91	8.4	3.7	3.3	210	60
11	**ME 5SA**	**2**	2940	36	20.0	89.4	89.5	88.0	0.89	8.1	3.0	2.9	340	70
15	**ME 5SB**	**2**	2950	49	27.2	90.5	90.5	89.5	0.88	8.5	3	2.8	420	83
18.5	**ME 5LA**	**2**	2945	60	32	90.9	90.5	89.8	0.91	7.7	2.9	2.7	490	95

4 P	1500 rpm - S1	50 Hz - IE2

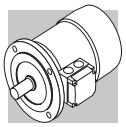
P_n kW			n rpm	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J_m x 10^{-4} kgm²	IM B9 Kg
0.75	**ME 2SB**	**4**	1430	5.0	1.65	81.0	80.5	78.0	0.81	6.1	3.2	3	28	10.9
1.1	**ME 3SA**	**4**	1430	7.4	2.60	82.5	82.0	79.0	0.74	5.5	2.5	2.8	34	15.5
1.5	**ME 3SB**	**4**	1420	10.1	3.48	84.0	84.0	83.0	0.74	6.2	2.9	2.9	40	17
2.2	**ME 3LA**	**4**	1430	14.7	4.89	85.4	85.0	84.0	0.76	5.8	3	2.8	54	21
3	**ME 3LB**	**4**	1420	20	6.58	85.5	86.0	85.5	0.77	5.9	2.8	2.6	61	23
4	**ME 4SA**	**4**	1440	27	8.25	87.5	86.8	84.0	0.80	7.1	3.0	3.1	213	42
5.5	**ME 4SB**	**4**	1460	36	11.07	88.5	88.5	87.5	0.81	7.3	2.9	2.9	270	51
7.5	**ME 4LA**	**4**	1460	49	14.83	89.0	89.0	88.5	0.82	6.9	2.9	2.8	319	57
9.2	**ME 4LB**	**4**	1460	60	18.09	89.5	89.5	88.5	0.82	6.9	2.9	3	360	65
11	**ME 5SA**	**4**	1465	72	21.54	91.0	91.3	90.5	0.81	6.5	2.8	2.6	650	85
15	**ME 5LA**	**4**	1465	98	28.73	90.8	91.0	90.5	0.83	6.5	2.6	2.3	790	101



6 P	1000 rpm - S1	50 Hz - IE2

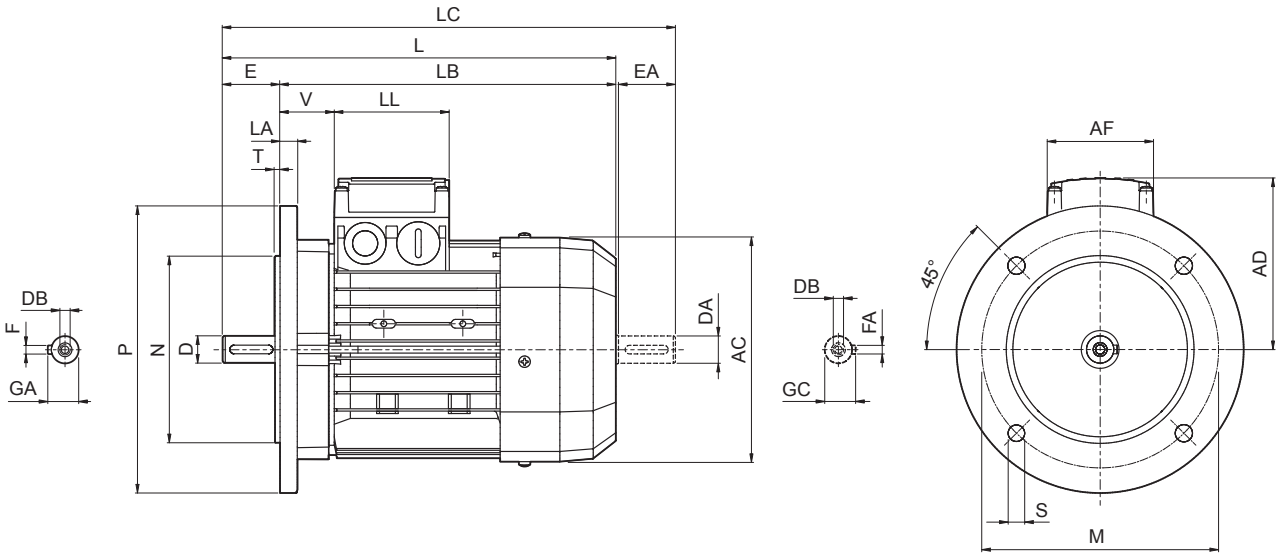
P_n kW		n rpm	M_n Nm	In 400V A	η% 100%	η% 75%	η% 50%	cos φ	I_s/I_n	M_s/M_n	M_a/M_n	J_m x 10^{-4} kgm^2	IM B9 Kg
0.75	**ME 3SA 6**	940	7.6	1.98	75.9	75.0	70.7	0.72	4.7	2.2	2.0	33	17
1.1	**ME 3LA 6** (*)	945	11.1	2.75	78.1	76.2	73.0	0.74	4.9	2.2	1.9	82	21
1.5	**ME 3LB 6**	945	15.2	3.8	79.8	77.5	74.0	0.72	5.6	2.5	2.3	95	23
2.2	**ME 4SA 6**	955	22	4.9	81.8	81.8	80.0	0.80	5.7	1.9	1.7	216	34
3	**ME 4SB 6**	955	30	6.6	83.3	83.3	82.4	0.79	6.1	2.1	1.9	295	43
4	**ME 4LA 6**	965	40	8.6	84.6	85	83.1	0.79	6.9	2.2	2	383	54
5.5	**ME 5SA 6** (*)	965	54	11.6	87.0	87.0	86.4	0.79	6.6	2.5	2.3	740	69
7.5	**ME 5SB 6** (*)	965	74	15.0	88.0	88.0	87.2	0.82	6.6	2.3	2.1	970	89

(*) Relação potência/tamanho não padronizada



M13 DIMENSÕES DOS MOTORES BE-ME

BE - IM B5

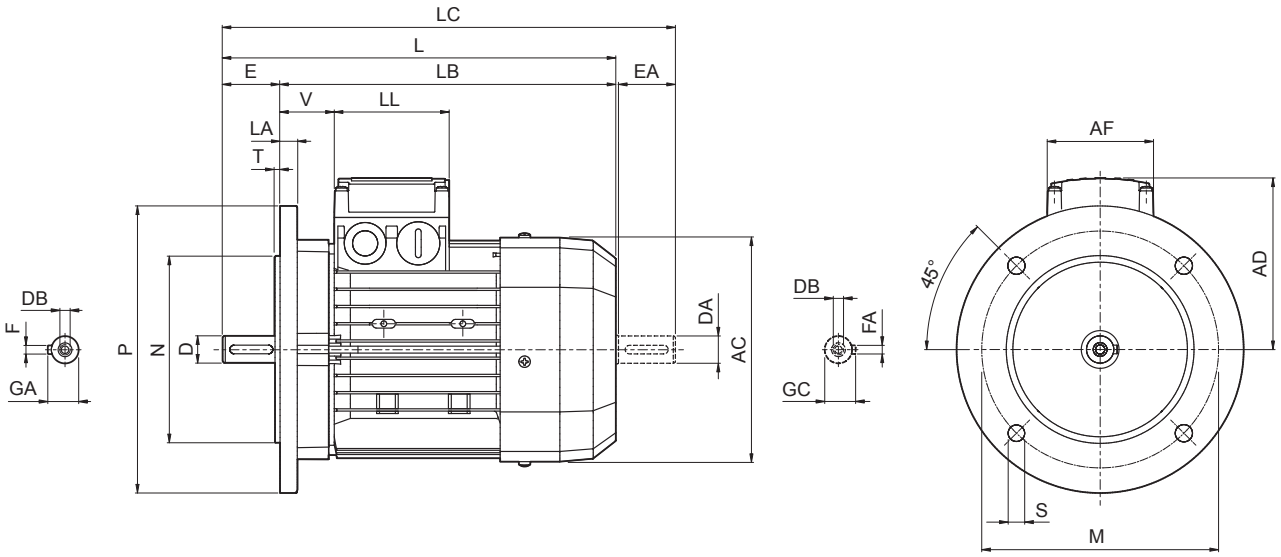


Dimensões em mm

	Eixo					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BE 80	19	40	M6	21.5	6	165	130	200	11.5	3.5	11.5	156	274	234	315	119	74	80	38
BE 90 S	24	50	M8	27	8							176	326	276	378	133	98	98	44
BE 90 L																			
BE 100	28	60	M10	31		215	180	250	14	4	14	195	367	307	429	142			50
BE 112											15	219	385	325	448	157			52
BE 132 S	38	80	M12	41	10	265	230	300			20	258	493	413	576	193	118	118	58
BE 132 MA																			
BE 132 MB													528	448	611				
BE 160 M	42 38(1)	110 80(1)	M16 M12(1)	45 41(1)	12 10(1)	300	250	350	18.5	5	15	310	596	486	680	245	187	187	51
BE 160 L													640	530	724				
BE 180 M	48 42(1)	110 110(1)	M16 M16(1)	51.5 45(1)	14 12(1)						18	348	708	598	823	261			52
BE 180 L																			

NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.

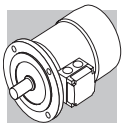
BE - IM B5



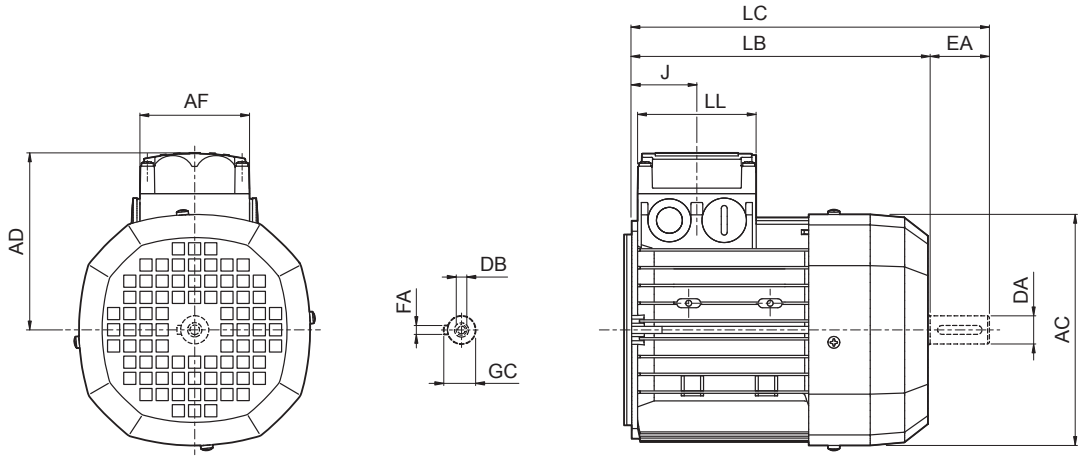
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Eixo					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BE 80	0.748	1.575	*M6*	0.846	0.236							6.142	10.787	9.213	12.402	4.685	2.913	3.150	1.496
BE 90 S	0.945	1.969	*M8*	1.063	0.315	6.496	5.118	7.874	0.453	0.138	0.453	6.929	12.835	10.866	14.882	5.236	3.858	3.858	1.732
BE 90 L																			
BE 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843			0.551	7.677	14.449	12.087	16.890	5.591			1.969
BE 112											0.591	8.622	15.157	12.795	17.638	6.181			2.047
BE 132 S	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811	0.551	0.157	0.787	10.157	19.409	16.260	22.677	7.598	4.646	4.646	2.283
BE 132 MA																			
BE 132 MB													20.787	17.638	24.055				
BE 160 M	1.654	4.331	*M16*	1.772	0.472	11.811	9.843	13.780	0.728	0.197	0.591	12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008
BE 160 L	1.496[(1)]	3.150[(1)]	*M12*[(1)]	1.615[(1)]	0.394[(1)]								25.197	20.866	28.504				
BE 180 M	1.890	4.331	*M16*	2.028	0.551						0.709	13.701	27.874	23.543	32.402	10.276			2.047
BE 180 L	1.654[(1)]	4.331[(1)]	*M16*[(1)]	1.772[(1)]	0.472[(1)]														

NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.

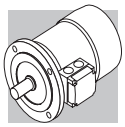


ME

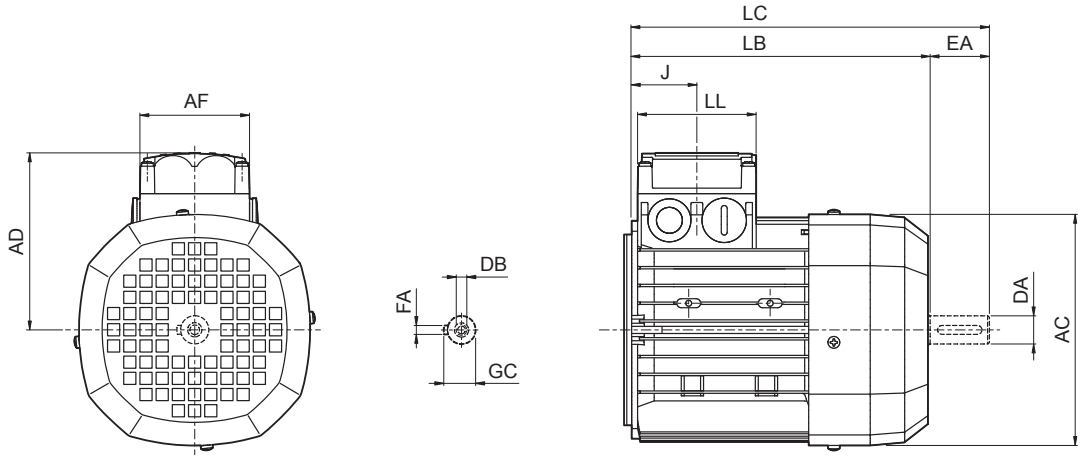


Dimensões em mm

	Ponta do eixo traseiro					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
ME 2S	19	40	M6	6	21.5	156	202	245	74	80	44	119
ME 3S	28	60	M10	8	31	195	230	293	98	98	53.5	142
ME 3L							262	325				
ME 4S	38	80	M12	10	41	258	361	444	118	118	64.5	193
ME 4L												
ME 4LB							396	479				
ME 5S						310	418	502	187	187	77	245
ME 5L							462	546				

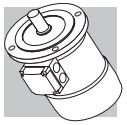


ME



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Ponta do eixo traseiro					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
ME 2S	0.748	1.575	*M6*	0.236	0.846	6.142	7.953	9.646	2.913	3.150	1.732	4.685
ME 3S	1.102	2.362	*M10*	0.315	1.220	7.677	9.055	11.535	3.858	3.858	2.106	5.591
ME 3L							10.315	12.795				
ME 4S	1.496	3.150	*M12*	0.394	1.614	10.157	14.213	17.480	4.646	4.646	2.539	7.598
ME 4L												
ME 4LB							15.591	18.858				
ME 5S						12.205	16.457	19.764	7.362	7.362	3.031	9.646
ME 5L							18.189	21.496				

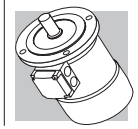


2P — 3600 rpm - S1 — 60 Hz

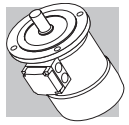
													freio d.c.						freio a.c.				
													FD						FA				
P_n kW		n rpm	M_n Nm	η %	cosφ	I_n 460V A	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA Code	J_m x 10^{-4} Kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} Kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h	J_m x 10^{-4} Kgm^2	IM B5 kg
0.18	**BN 63A 2**	3360	0.5	58	0.74	0.55	3.7	2.9	2.4	H	2.0	3.5	**FD 02**	1.7	2700	3300	2.6	4.9	**FA 02**	1.7	3300	2.6	5.0
0.25	**BN 63B 2**	3370	0.7	61	0.73	0.69	4.2	2.9	2.9	H	2.3	3.9	**FD 02**	1.7	2700	3300	3.0	5.2	**FA 02**	1.7	3300	3.0	5.4
0.37	**BN 71A 2**	3420	1.0	71	0.77	0.86	5.8	3.3	3.1	J	3.5	5.4	**FD 03**	3.4	2400	3200	4.6	7.5	**FA 03**	3.4	3200	4.6	7.8
0.55	**BN 71B 2**	3450	1.5	76	0.75	1.23	6.2	3.4	3.4	K	4.1	6.2	**FD 03**	5.0	2200	2700	5.3	8.3	**FA 03**	5.0	2700	5.3	8.6
0.75	**BN 80A 2**	3440	2.1	76	0.76	1.62	5.9	3.1	2.8	J	7.8	8.6	**FD 04**	5.0	1400	1700	9.4	11.8	**FA 04**	5.0	1700	9.4	12.2
1.1	**BN 80B 2**	3430	3.1	77	0.76	2.4	6.2	3.8	2.9	J	9.0	9.5	**FD 04**	9.9	1200	1600	10.6	12.2	**FA 04**	9.9	1600	10.6	13.2
1.5	**BN 90SA 2**	3480	4.1	79	0.78	3.04	7.3	3.6	3.2	K	12.5	12.2	**FD 14**	15.0	750	1000	14.1	15.4	**FA 14**	15.0	1000	14.1	16.3
2.2	**BN 90L 2**	3490	6.1	81	0.79	4.4	7.3	3.8	3.3	K	16.7	14.1	**FD 05**	26	750	1000	18.3	18.6	**FA 05**	26	1000	18.3	21
3.7	**BN 100LB 2**	3490	10.2	84	0.83	6.7	6.7	2.9	3.3	J	39	23	**FD 15**	40	360	500	43	27	**FA 15**	40	500	43	30
5.5	**BN 132SA 2**	3490	15.3	83	0.86	9.8	6.4	2.7	2.6	H	101	35	**FD 06**	50		400	112	44	**FA 06**	50	400	112	49
7.5	**BN 132SB 2**	3490	20	82	0.88	13	6.2	2.8	2.7	H	134	42	**FD 06**	50		350	145	51	**FA 06**	50	350	145	56
11	**BN 160MR 2**	3510	31	87	0.88	18.3	6.9	2.7	2.9	H	210	65											
15	**BN 160MB 2**	3510	41	86	0.9	24.2	6	2.5	2.8	G	340	84											
18.5	**BN 160L 2**	3520	51	88	0.91	29.2	6.9	2.8	2.7	H	421	97											
22	**BN 180M 2**	3520	61	88	0.91	35.1	6.9	2.8	2.8	H	491	109											
30	**BN 200LA 2**	3530	81	89	0.91	46.2	6.9	2.6	3.5	H	771	140											

4P	1800 rpm - S1	60 Hz

														freio d.c.						freio a.c.				
														FD						FA				
P_n kW			n rpm	M_n Nm	η %	cosφ	I_n 460V A	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA Code	J_m x 10^{-4} Kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} Kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h	J_m x 10^{-4} Kgm^2	IM B5 kg
0.06	**BN 56A**	**4**	1670	0.3	53	0.55	0.26	2.9	3.1	2.5	J	1.5	3.1											
0.09	**BN 56B**	**4**	1670	0.5	59	0.52	0.37	2.8	2.9	3.0	H	1.5	3.1											
0.12	**BN 63A**	**4**	1650	0.7	55	0.64	0.43	3.1	2.4	2.2	H	2.0	3.5	**FD 02**	1.7	7000	9000	2.6	5.2	**FA 02**	1.7	9000	2.6	5.0
0.18	**BN 63B**	**4**	1670	1.1	58	0.59	0.68	3.1	2.8	2.4	H	2.3	3.9	**FD 02**	3.4	7000	9000	3.0	5.6	**FA 02**	3.4	9000	3.0	5.4
0.25	**BN 71A**	**4**	1700	1.4	64	0.74	0.65	4.3	2.6	2.1	H	5.8	5.1	**FD 03**	3.4	6000	8500	6.9	7.8	**FA 03**	3.4	8500	6.9	7.5
0.37	**BN 71B**	**4**	1700	2.1	66	0.73	0.97	4.5	2.6	2.4	H	6.9	5.9	**FD 03**	5.0	4800	7500	8.0	8.6	**FA 03**	5.0	7500	8.0	8.3
0.55	**BN 80A**	**4**	1710	3.1	73	0.75	1.28	4.9	3	2.4	H	15.0	8.2	**FD 04**	10.1	3400	7000	16.6	12.2	**FA 04**	10.1	7000	16.6	11.8
0.75	**BN 80B**	**4**	1720	4.1	78	0.75	1.6	6.2	3.4	3.1	J	20.3	10.0	**FD 04**	15.0	3000	6000	22	13.6	**FA 04**	15.0	6000	22	13.6
1.1	**BN 90S**	**4**	1720	6.2	78	0.74	2.43	5.7	3.1	2.7	J	21	12.2	**FD 14**	15.0	3000	7000	23	16.3	**FA 14**	15.0	7000	23	16.3
1.5	**BN 90LA**	**4**	1720	8.2	81	0.74	3.12	6.6	3.3	3.0	K	28	13.6	**FD 05**	26	2200	4700	32	19.5	**FA 05**	26	4700	32	20
2.2	**BN 100LA**	**4**	1720	12.4	81	0.73	4.8	5.5	2.7	2.4	H	40	18.1	**FD 15**	40	1000	2700	44	25	**FA 15**	40	2700	44	25
3.7	**BN 100LC**	**4**	1730	21	84	0.74	7.5	5.6	2.8	2.9	K	61	25	**FD 55**	54		1200	65	30	**FA 15**	54	1200	65	29
4	**BN 112M**	**4**	1730	23	85	0.76	8	7	3.1	3.0	K	98	30	**FD 06S**	60		850	107	40	**FA 06S**	60	850	107	42
5.5	**BN 132S**	**4**	1730	31	84	0.84	10	6.3	2.9	2.6	H	213	44	**FD 56**	75		850	223	57	**FA 06**	75	850	223	58
7.5	**BN 132MA**	**4**	1740	41	85	0.84	13.1	6.1	2.9	2.9	H	270	53	**FD 06**	100		700	280	66	**FA 07**	100	700	280	71
11	**BN 160MR**	**4**	1740	61	88	0.81	19.4	6.5	3.1	3.0	H	360	70	**FD 07**	150		600	382	86	**FA 07**	150	600	382	88
15	**BN 160L**	**4**	1750	81	90	0.84	24.8	5.8	2.3	2.5	G	651	99	**FD 08**	200		400	726	129	**FA 08**	200	400	726	128
18.5	**BN 180M**	**4**	1760	101	90	0.83	31.3	5.8	2.5	3.0	G	791	115	**FD 08**	250		300	866	145	**FA 08**	250	300	866	144



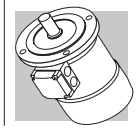
6P — **1200 rpm** - S1 — **60 Hz**



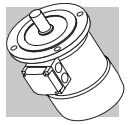
													freio d.c.						freio a.c.				
													FD						FA				
P_n kW		n rpm	M_n Nm	η %	cosφ	I_n 460V A	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA Code	J_m x 10^{-4} Kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} Kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h	J_m x 10^{-4} Kgm^2	IM B5 kg
0.09	**BN 63A**	**6**	1100	0.8	47	0.5	0.48	2.8	2.9	2.3	K	3.4	4.6	**FD 02**	3.4	7000	10000	4.0	6.3	**FA 02**	3.4	10000	4.0	6.1
0.12	**BN 63B**	**6**	1100	1.0	50	0.55	0.55	2.4	2.4	2.2	H	3.7	4.9	**FD 02**	3.4	7000	10000	4.3	6.6	**FA 02**	3.4	10000	4.3	6.4
0.18	**BN 71A**	**6**	1100	1.6	61	0.65	0.57	3.3	2.6	2.0	G	8.4	5.5	**FD 03**	5.0	6500	10000	9.5	8.2	**FA 03**	5.0	10000	9.5	7.9
0.25	**BN 71B**	**6**	1100	2.1	64	0.65	0.75	3.2	2.6	2.1	G	10.9	6.7	**FD 03**	5.0	6200	8000	12.0	9.5	**FA 03**	5.0	8000	12.0	9.1
0.37	**BN 80A**	**6**	1130	3.2	67	0.65	1.07	3.9	2.6	2.5	H	21	10.0	**FD 04**	9.9	4100	5500	23	13.6	**FA 04**	9.9	5500	23	13.6
0.55	**BN 80B**	**6**	1140	4.7	76	0.66	1.38	4.9	3.2	2.7	J	25	11.3	**FD 04**	15.0	3800	5000	27	15.4	**FA 04**	15.0	5000	27	15.0
0.75	**BN 90S**	**6**	1140	6.2	73	0.63	2.05	4.5	2.9	2.8	K	26	13.2	**FD 14**	15.0	2700	4000	28	16.8	**FA 14**	15.0	4000	28	16.8
1.1	**BN 90L**	**6**	1140	9.4	75	0.65	2.83	4.3	2.8	2.4	H	33	15.0	**FD 05**	26	2000	3500	37	21	**FA 05**	26	3500	37	22
1.5	**BN 100LA**	**6**	1140	12.5	76	0.66	3.75	4.5	2.4	2.4	H	82	22	**FD 15**	40	1500	3000	86	28	**FA 15**	40	3000	86	29
2.2	**BN 112M**	**6**	1150	18.5	81	0.69	4.9	5.5	2.8	2.4	J	169	32	**FD 06S**	60		1250	177	42	**FA 06S**	60	1250	177	44
3.7	**BN 132MA**	**6**	1150	31	80	0.79	7.3	6.1	2.5	2.3	J	295	44	**FD 06**	100		900	305	58	**FA 07**	100	900	305	63
5.5	**BN 132MB**	**6**	1140	47	82	0.75	11.2	5.4	2.7	2.3	H	383	56	**FD 07**	150		800	406	72	**FA 07**	150	800	406	74
7.5	**BN 160M**	**6**	1160	61	85	0.82	13.5	5.8	2.3	2.4	G	741	83	**FD 08**	169		550	816	112	**FA 08**	169	550	816	113
11	**BN 160L**	**6**	1160	92	84	0.83	19.8	5.8	2.5	2.7	G	971	103	**FD 08**	200		400	1046	133	**FA 08**	200	400	1046	133

2P — 3600 rpm - S1 — 60 Hz

													freio d.c.						freio a.c.				
													FD						FA				
P_n kW			n rpm	M_n Nm	η %	cosφ	I_n 460V A	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA Code	J_m x 10^{-4} kgm²	IM B5 kg	Mod	M_b Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 kg	Mod	M_b Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 kg
0.18	**M 05A**	**2**	3380	0.5	60	0.74	0.53	4.1	3	2.4	H	2.0	3.2	**FD 02**	1.7	2700	3300	2.6	4.9	**FA 02**	1.7	3300	2.6	4.7
0.25	**M 05B**	**2**	3400	0.7	65	0.75	0.63	4.9	3.2	2.9	J	2.3	3.6	**FD 02**	1.7	2700	3300	3.0	5.3	**FA 02**	1.7	3300	3.0	5.1
0.37	**M 05C**	**2**	3420	1.0	69	0.76	0.89	5.5	3.3	3.2	J	2.6	4.8	**FD 02**	3.4	2500	3000	3.3	6.5	**FA 02**	3.4	3000	3.3	6.3
0.55	**M 1SD**	**2**	3450	1.5	76	0.75	1.23	6.2	3.4	3.4	K	4.1	5.8	**FD 03**	5.0	2200	2700	5.3	8.5	**FA 03**	5.0	2700	5.3	8.2
0.75	**M 1LA**	**2**	3440	2.1	77	0.75	1.62	6.2	3.8	3.5	K	5.0	6.9	**FD 03**	5.0	1500	2100	6.1	9.5	**FA 03**	5.0	2100	6.1	9.5
1.1	**M 2SA**	**2**	3430	3.1	77	0.76	2.4	6.2	3.8	2.9	J	9.0	8.8	**FD 04**	9.9	1200	1600	10.6	12.7	**FA 04**	9.9	1600	10.6	12.7
1.5	**M 2SB**	**2**	3420	4.1	80	0.81	2.89	6	3.3	2.9	H	11.4	10.4	**FD 04**	15.0	1000	1300	13.0	14.5	**FA 04**	15.0	1300	13.0	14.5
2.2	**M 3SA**	**2**	3430	6.2	81	0.83	4.2	6	2.4	3.2	H	24	15.4	**FD 15**	26	800	1000	28.0	22	**FA 15**	26	1000	28.0	23
3.7	**M 3LB**	**2**	3490	10.4	84	0.83	6.7	6.7	2.9	3.2	J	39	22	**FD 15**	40	360	500	43	28	**FA 15**	40	500	43	29
5.5	**M 4SA**	**2**	3490	15.2	83	0.86	9.8	6.4	2.7	2.6	H	101	33	**FD 06**	50		400	112	46	**FA 06**	50	400	112	47
7.5	**M 4SB**	**2**	3490	20	82	0.88	13	6.2	2.8	2.7	H	134	40	**FD 06**	50		350	145	53	**FA 06**	50	350	145	65
11	**M 4LC**	**2**	3510	31	87	0.88	18.3	6.9	2.7	2.9	H	210	60											
15	**M 5SB**	**2**	3510	40	86	0.9	24.2	6	2.5	2.8	G	340	70											
18.5	**M 5SC**	**2**	3520	51	88	0.91	29.2	6.9	2.8	2.7	H	421	83											
22	**M 5LA**	**2**	3520	61	88	0.91	35.1	6.9	2.8	2.8	H	491	95											



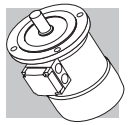
4P — 1800 rpm - S1 — 60 Hz



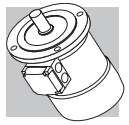
													freio d.c.						freio a.c.				
													FD						FA				
P_n kW		n rpm	M_n Nm	η %	cosφ	I_n 460V A	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA Code	J_m x 10^{-4} kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm^2	IM B5 kg	Mod	M_b Nm	Z_o 1/h	J_m x 10^{-4} kgm^2	IM B5 kg
0.09	**M 0B**	**4**	1670	0.5	59	0.52	0.37	2.8	2.9	3.0	H	1.5	2.9											
0.12	**M 05A**	**4**	1690	0.7	60	0.57	0.44	3.3	2.4	2.3	J	2.0	3.2	**FD 02**	1.7	7000	9000	2.6	4.9	**FA 02**	1.7	9000	2.6	4.7
0.18	**M 05B**	**4**	1670	1.1	58	0.6	0.65	3.2	2.8	2.4	G	2.3	3.6	**FD 02**	3.4	7000	9000	3.0	5.3	**FA 02**	3.4	9000	3.0	5.1
0.25	**M 05C**	**4**	1670	1.4	64	0.64	0.77	3.3	2.5	2.4	G	3.3	4.8	**FD 02**	3.4	6000	8000	3.9	6.5	**FA 02**	3.4	8000	3.9	6.3
0.37	**M 1SD**	**4**	1700	2.1	66	0.73	0.96	4.5	2.6	2.4	G	6.9	5.5	**FD 03**	5.0	4800	7500	8.0	8.2	**FA 03**	5.0	7500	8.0	7.9
0.55	**M 1LA**	**4**	1710	3.1	72	0.7	1.37	4.9	3	2.8	J	9.1	6.9	**FD 53**	7.5	3400	7000	10.2	9.5	**FA 53**	7.5	7000	10.2	9.5
0.75	**M 2SA**	**4**	1720	4.1	78	0.75	1.61	6.2	3.4	3.1	J	20.3	9.1	**FD 04**	15.0	3000	6000	22	13.2	**FA 04**	15.0	6000	22	13.2
1.1	**M 2SB**	**4**	1720	6.2	78	0.76	2.33	6.3	3.4	3.0	J	25.0	10.4	**FD 04**	15.0	2000	4200	27	14.5	**FA 04**	15.0	4200	27	14.5
1.5	**M 3SA**	**4**	1720	8.2	82	0.73	3.15	5.7	2.9	2.6	J	34.0	15.4	**FD 15**	26	1500	3000	38	22	**FA 15**	26	3000	38	23
2.2	**M 3LA**	**4**	1720	12.4	81	0.73	4.67	5.5	2.7	2.4	H	40	16.8	**FD 15**	40	1000	2700	44	24	**FA 15**	40	2700	44	24
3.7	**M 3LC**	**4**	1730	20.5	84	0.74	7.5	5.6	2.8	2.9	H	61	23	**FD 55**	54		1200	65	29	**FA 55**	54	1200	65	30
5.5	**M 4SA**	**4**	1730	31	84	0.84	9.8	6.3	2.9	2.6	H	213	42	**FD 56**	75		850	223	55	**FA 06**	75	850	223	56
7.5	**M 4LA**	**4**	1740	41	85	0.84	13.2	6.1	2.9	2.9	H	270	51	**FD 06**	100		700	280	64	**FA 06**	100	700	280	65
11	**M 4LC**	**4**	1740	61	88	0.81	19.4	6.5	3.1	3.0	H	360	65	**FD 07**	150		600	382	81	**FA 07**	150	600	382	83
15	**M 5SB**	**4**	1750	81	90	0.84	24.9	5.8	2.3	2.5	G	651	85	**FD 08**	200		400	751	115	**FA 08**	200	400	751	114
18.5	**M 5LA**	**4**	1760	101	90	0.83	31.1	5.8	2.5	3.0	G	791	101	**FD 08**	250		300	866	131	**FA 08**	250	300	866	130

6P — 1200 rpm - S1 — 60 Hz

													freio d.c.						freio a.c.				
													FD						FA				
P_n kW			n rpm	M_n Nm	η %	cosφ	I_n 460V A	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	KVA Code	J_m x 10^{-4} kgm²	IM B5 kg	Mod	M_b Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 kg	Mod	M_b Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 kg
0.09	**M 05A**	**6**	1100	0.8	47	0.46	0.52	2.4	2.9	2.3	K	3.4	4.3	**FD 02**	3.4	7000	10000	4.0	6.0	**FA 02**	3.4	10000	4.0	5.8
0.12	**M 05B**	**6**	1100	1.0	49	0.54	0.57	2.3	2.4	2.2	H	3.7	4.6	**FD 02**	3.4	7000	10000	4.3	6.3	**FA 02**	3.4	10000	4.3	6.1
0.18	**M 1SC**	**6**	1100	1.6	61	0.65	0.57	3.3	2.6	2.0	G	8.4	5.1	**FD 03**	5.0	6500	10000	9.5	7.8	**FA 03**	5.0	10000	9.5	7.5
0.25	**M 1SD**	**6**	1100	2.1	64	0.65	0.75	3.2	2.6	2.1	G	10.9	6.3	**FD 03**	5.0	6200	8000	12.2	9.0	**FA 03**	5.0	8000	12.2	8.7
0.37	**M 1LA**	**6**	1100	3.2	66	0.65	1.08	3.3	2.6	2.4	G	12.9	7.3	**FD 53**	7.5	4000	7000	13.9	10.0	**FA 03**	7.5	7000	13.9	9.5
0.55	**M 2SA**	**6**	1140	4.7	76	0.66	1.38	4.9	3.2	2.7	J	25	10.4	**FD 04**	15.0	3800	5000	27	14.5	**FA 04**	15.0	5000	27	14.5
0.75	**M 2SB**	**6**	1140	6.2	76	0.61	2.03	4.4	2.8	2.8	J	28	11.3	**FD 04**	15.0	2700	5000	30	15.4	**FA 04**	15.0	5000	30	15.4
1.1	**M 3SA**	**6**	1140	9.4	74	0.68	2.74	4.4	2.4	2.2	H	61	16.8	**FD 15**	26	2300	4500	66	23	**FA 15**	26	4500	66	24
1.5	**M 3LA**	**6**	1140	12.5	76	0.66	3.75	4.5	2.4	2.4	H	82	21	**FD 15**	40	1500	3000	86	27	**FA 15**	40	3000	86	28
2.2	**M 3LC**	**6**	1140	18.7	77	0.68	5.3	5.1	2.6	2.6	J	95	23	**FD 55**	54		1500	99	29	**FA 15**	54	1500	99	30
3.7	**M 4LA**	**6**	1150	31	80	0.79	7.3	6.1	2.5	2.3	H	295	43	**FD 06**	100		900	305	56	**FA 06**	100	900	305	57
5.5	**M 4LB**	**6**	1140	47	82	0.75	11.2	5.4	2.7	2.3	H	383	54	**FD 07**	150		800	406	70	**FA 07**	150	800	406	72
7.5	**M 5SA**	**6**	1160	61	85	0.82	13.5	5.8	2.3	2.4	G	741	69	**FD 08**	169		550	816	98	**FA 08**	169	550	816	98
11	**M 5SB**	**6**	1160	92	84	0.83	19.8	5.8	2.5	2.7	G	971	89	**FD 08**	200		400	1046	119	**FA 08**	200	400	1046	118



2P — 3000 rpm - S1 — 50 Hz



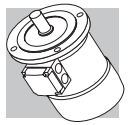
															freio d.c.						freio a.c.				
															FD						FA				
P_n kW		n rpm	M_n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is / In	Ms / Mn	Ma / Mn	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 Kg
0.18	**BN 63A**	**2**	2730	0.63	○	59.9	56.9	51.9	0.77	0.56	3.0	2.1	2.0	2.0	3.5	**FD 02**	1.75	3900	4800	2.6	5.2	**FA 02**	1.75	4800	2.6	5.0
0.25	**BN 63B**	**2**	2740	0.87	○	66.0	64.8	64.8	0.76	0.72	3.3	2.3	2.3	2.3	3.9	**FD 02**	1.75	3900	4800	3.0	5.6	**FA 02**	1.75	4800	3.0	5.4
0.37	**BN 63C**	**2**	2800	1.26	○	69.1	66.8	66.8	0.78	0.99	3.9	2.6	2.6	3.3	5.1	**FD 02**	3.5	3600	4500	3.9	6.8	**FA 02**	3.5	4500	3.9	6.6
0.37	**BN 71A**	**2**	2820	1.25	○	73.8	73.0	70.6	0.76	0.95	4.8	2.8	2.6	3.5	5.4	**FD 03**	3.5	3000	4100	4.6	8.1	**FA 03**	3.5	4200	4.6	7.8
0.55	**BN 71B**	**2**	2820	1.86	○	76.0	75.8	74.8	0.76	1.37	5.0	2.9	2.8	4.1	6.2	**FD 03**	5	2900	4200	5.3	8.9	**FA 03**	5	4200	5.3	8.6
0.75	**BN 71C**	**2**	2810	2.6	○	76.6	76.2	76.2	0.76	1.86	5.1	3.1	2.8	5.0	7.3	**FD 03**	5	1900	3300	6.1	10.0	**FA 03**	5	3600	6.1	9.7
0.75	**BN 80A**	**2**	2810	2.6	•	76.2	75.5	68.3	0.81	1.75	4.8	2.6	2.2	7.8	8.6	**FD 04**	5	1700	3200	9.4	12.5	**FA 04**	5	3200	9.4	12.4
1.1	**BN 80B**	**2**	2800	3.8	•	76.4	76.2	75.0	0.81	2.57	4.8	2.8	2.4	9.0	9.5	**FD 04**	10	1500	3000	10.6	13.4	**FA 04**	10	3000	10.6	13.3
1.5	**BN 80C**	**2**	2800	5.1	•	79.1	79.5	77.2	0.81	3.4	4.9	2.7	2.4	11.4	11.3	**FD 04**	15	1300	2600	13.0	15.2	**FA 04**	15	2600	13.0	15.1
1.5	**BN 90SA**	**2**	2870	5.0	•	82.0	81.5	78.1	0.80	3.4	5.9	2.7	2.6	12.5	12.3	**FD 14**	15	900	2200	14.1	16.5	**FA 14**	15	2200	14.1	16.4
1.85	**BN 90SB**	**2**	2880	6.1	•	82.5	82.0	75.4	0.80	4.0	6.2	2.9	2.6	16.7	14	**FD 14**	15	900	2200	18.3	18.2	**FA 14**	15	2200	18.3	18.1
2.2	**BN 90L**	**2**	2880	7.3	•	82.7	82.1	80.8	0.80	4.8	6.3	2.9	2.7	16.7	14	**FD 05**	26	900	2200	21	20	**FA 05**	26	2200	21	20.7
3	**BN 100L**	**2**	2860	10.0	•	81.5	81.3	77.4	0.79	6.7	5.6	2.6	2.2	31	20	**FD 15**	26	700	1600	35	26	**FA 15**	26	1600	35	27
4	**BN 100LB**	**2**	2870	13.3	•	83.1	83.0	77.8	0.80	8.7	5.8	2.7	2.5	39	23	**FD 15**	40	450	900	43	29	**FA 15**	40	1000	43	30
4	**BN 112M**	**2**	2900	13.2	•	85.5	84.5	83.0	0.82	8.2	6.9	3.0	2.9	57	28	**FD 06S**	40	—	950	66	39	**FA 06S**	40	950	66	40
5.5	**BN 132SA**	**2**	2890	18.2	•	84.7	84.5	81.2	0.84	11.2	5.9	2.6	2.2	101	35	**FD 06**	50	—	600	112	48	**FA 06**	50	600	112	49
7.5	**BN 132SB**	**2**	2900	25	•	86.5	86.3	84.4	0.85	14.7	6.4	2.6	2.2	145	42	**FD 06**	50	—	550	154	55	**FA 06**	50	550	154	56
9.2	**BN 132M**	**2**	2930	30	•	87.0	86.5	83.6	0.86	17.7	6.7	2.8	2.3	178	53	**FD 56**	75	—	430	189	66	**FA 06**	75	430	189	67
11	**BN 160MR**	**2**	2920	36	•	87.6	87.0	86.0	0.88	20.6	6.9	2.9	2.5	210	65											
15	**BN 160MB**	**2**	2930	49	•	89.6	89.4	88.0	0.86	28.1	7.1	2.6	2.3	340	84											
18.5	**BN 160L**	**2**	2930	60	•	90.4	90.1	89.0	0.86	34	7.6	2.7	2.3	420	97											
22	**BN 180M**	**2**	2930	72	•	89.9	89.7	89.5	0.88	40	7.8	2.6	2.4	490	109											
30	**BN 200LA**	**2**	2930	98	•	90.7	90.1	87.6	0.89	54	7.8	2.7	2.9	770	140											

○ = n.a. • = IE1

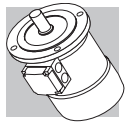
4P — 1500 rpm - S1 — 50 Hz

															freio d.c.						freio a.c.				
															FD						FA				
P_n kW		n rpm	M_n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is / In	Ms / Mn	Ma / Mn	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 Kg
0.06	BN 56A 4	1340	0.43	○	46.8	44.2	41.3	0.65	0.28	2.6	2.3	2.0	1.5	3.1											
0.09	BN 56B 4	1350	0.64	○	51.7	47.6	42.9	0.60	0.42	2.6	2.5	2.4	1.5	3.1											
0.12	BN 63A 4	1350	0.85	○	59.8	56.2	47.0	0.62	0.47	2.6	1.9	1.8	2.0	3.5	FD 02	1.75	10000	13000	2.6	5.2	FA 02	1.75	13000	2.6	5.0
0.18	BN 63B 4	1320	1.30	○	54.8	52.9	52.5	0.67	0.71	2.6	2.2	2.0	2.3	3.9	FD 02	3.5	10000	13000	3.0	5.6	FA 02	3.5	13000	3.0	5.4
0.25	BN 63C 4	1340	1.78	○	65.3	65.0	57.9	0.69	0.80	2.7	2.1	1.9	3.3	5.1	FD 02	3.5	7800	10000	3.9	6.8	FA 02	3.5	10000	3.9	6.6
0.25	BN 71A 4	1380	1.73	○	63.7	62.2	59.1	0.73	0.78	3.3	1.9	1.7	5.8	5.1	FD 03	3.5	7700	11000	6.9	7.8	FA 03	3.5	11000	6.9	7.5
0.37	BN 71B 4	1370	2.6	○	66.8	66.7	63.0	0.76	1.05	3.7	2.0	1.9	6.9	5.9	FD 03	5	6000	9400	8.0	8.6	FA 03	5.0	9400	8.0	8.3
0.55	BN 71C 4	1380	3.8	○	69.0	68.9	68.8	0.74	1.55	4.1	2.3	2.3	9.1	7.3	FD 53	7.5	4300	8700	10.2	10.0	FA 03	7.5	8700	10.2	9.7
0.55	BN 80A 4	1390	3.8	○	72.0	71.3	69.7	0.77	1.43	4.1	2.3	2.0	15	8.2	FD 04	10	4100	8000	16.6	12.1	FA 04	10	8000	16.6	12.0
0.75	BN 80B 4	1400	5.1	•	75.0	74.5	69.3	0.78	1.85	4.9	2.7	2.5	20	9.9	FD 04	15	4100	7800	22	13.8	FA 04	15	7800	22	13.7
1.1	BN 80C 4	1400	7.5	•	75.5	76.2	70.4	0.78	2.7	5.1	2.8	2.5	25	11.3	FD 04	15	2600	5300	27	15.2	FA 04	15	5300	27	15.1
1.1	BN 90S 4	1390	7.6	•	76.5	76.2	72.2	0.77	2.70	4.6	2.6	2.2	21	12.2	FD 14	15	4800	8000	23	16.4	FA 14	15	8000	23	16.3
1.5	BN 90LA 4	1410	10.2	•	78.7	78.5	74.9	0.77	3.6	5.3	2.8	2.4	28	13.6	FD 05	26	3400	6000	32	19.6	FA 05	26	6000	32	20.3
1.85	BN 90LB 4	1390	12.7	•	78.6	78.9	77.2	0.79	4.3	5.1	2.8	2.6	30	15.1	FD 05	26	3200	5900	34	21.1	FA 05	26	5900	34	21.8
2.2	BN 100LA 4	1410	14.9	•	81.1	81.4	79.9	0.75	5.2	4.5	2.2	2.0	40	18	FD 15	40	2600	4700	44	25	FA 15	40	4700	44	25
3	BN 100LB 4	1410	20	•	82.6	83.8	83.7	0.77	6.8	5.0	2.3	2.2	54	22	FD 15	40	2400	4400	58	28	FA 15	40	4400	58	29
4	BN 112M 4	1430	27	•	84.4	84.2	81.6	0.81	8.4	5.6	2.7	2.5	98	30	FD 06S	60	—	1400	107	40	FA 06S	60	2100	107	42
5.5	BN 132S 4	1440	36	•	84.7	84.8	82.5	0.81	11.6	5.5	2.3	2.2	213	44	FD 56	75	—	1050	223	57	FA 06	75	1200	223	58
7.5	BN 132MA 4	1440	50	•	86.0	86.3	85.3	0.81	15.5	5.7	2.5	2.4	270	53	FD 06	100	—	950	280	66	FA 07	100	1000	280	71
9.2	BN 132MB 4	1440	61	•	88.4	88.6	87.5	0.81	18.8	5.9	2.7	2.5	319	59	FD 07	150	—	900	342	75	FA 07	150	900	342	77
11	BN 160MR 4	1440	73	•	87.6	87.8	86.0	0.81	22.4	6.0	2.7	2.5	360	70	FD 07	150	—	850	382	86	FA 07	150	850	382	88
15	BN 160L 4	1460	98	•	88.7	88.5	88.4	0.81	30	6.0	2.3	2.1	650	99	FD 08	200	—	750	725	129	FA 08	200	750	710	128
18.5	BN 180M 4	1460	121	•	89.3	89.5	89.2	0.81	37	6.2	2.6	2.5	790	115	FD 08	250	—	700	865	145	FA 08	250	700	850	144
22	BN 180L 4	1460	144	•	89.9	90.0	90.0	0.80	44	6.4	2.5	2.5	1250	135	FD 09	300	—	400	1450	175					
30	BN 200L 4	1460	196	•	91.4	91.7	91.0	0.80	59	7.1	2.7	2.8	1650	157	FD 09	400	—	300	1850	197					

○ = n.a. • = IE1



6P — 1000 rpm - S1 — 50 Hz



															freio d.c.						freio a.c.				
															FD						FA				
P_n kW		n rpm	M_n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is / In	Ms / Mn	Ma / Mn	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 Kg
0.09	**BN 63A**	**6**	880	0.98	○	41.0	41.0	32.9	0.53	0.60	2.1	2.1	1.8	3.4	4.6	**FD 02**	3.5	9000	14000	4.0	6.3	**FA 02**	3.5	14000	4.0	6.1
0.12	**BN 63B**	**6**	870	1.32	○	45.0	44.0	41.8	0.60	0.64	2.1	1.9	1.7	3.7	4.9	**FD 02**	3.5	9000	14000	4.3	6.6	**FA 02**	3.5	14000	4.3	6.4
0.18	**BN 71A**	**6**	900	1.91	○	55.0	55.5	51.0	0.69	0.68	2.6	1.9	1.7	8.4	5.5	**FD 03**	5	8100	13500	9.5	8.2	**FA 03**	5.0	13500	9.5	7.9
0.25	**BN 71B**	**6**	900	2.70	○	62.0	58.5	51.4	0.71	0.82	2.6	1.9	1.7	10.9	6.7	**FD 03**	5	7800	13000	12	9.4	**FA 03**	5.0	13000	12	9.1
0.37	**BN 71C**	**6**	910	3.9	○	66.0	60.0	53.3	0.69	1.17	3.0	2.4	2.0	12.9	7.7	**FD 53**	7.5	5100	9500	14	10.4	**FA 03**	7.5	9500	14	10.1
0.37	**BN 80A**	**6**	910	3.9	○	68.0	67.4	63.3	0.68	1.15	3.2	2.2	2.0	21	9.9	**FD 04**	10	5200	8500	23	13.8	**FA 04**	10	8500	23	13.7
0.55	**BN 80B**	**6**	920	5.7	○	70.0	69.8	64.3	0.68	1.67	3.9	2.6	2.2	25	11.3	**FD 04**	15	4800	7200	27	15.2	**FA 04**	15	7200	27	15.1
0.75	**BN 80C**	**6**	920	7.8	•	70.0	70.0	64.4	0.65	2.38	3.8	2.5	2.2	28	12.2	**FD 04**	15	3400	6400	30	16.1	**FA 04**	15	6400	30	16.0
0.75	**BN 90S**	**6**	920	7.8	•	70.0	69.0	64.2	0.68	2.27	3.8	2.4	2.2	26	12.6	**FD 14**	15	3400	6500	28	16.8	**FA 14**	15	6500	28	16.7
1.1	**BN 90L**	**6**	920	11.4	•	72.9	72.6	69.1	0.69	3.2	3.9	2.3	2.0	33	15	**FD 05**	26	2700	5000	37	21	**FA 05**	26	5000	37	22
1.5	**BN 100LA**	**6**	940	15.2	•	75.2	74.2	70.3	0.72	4.0	4.1	2.1	2.0	82	22	**FD 15**	40	1900	4100	86	28	**FA 15**	40	4100	86	29
1.85	**BN 100LB**	**6**	930	19.0	•	76.6	72.8	62.6	0.73	4.8	4.6	2.1	2.0	95	24	**FD 15**	40	1700	3600	99	30	**FA 15**	40	3600	99	31
2.2	**BN 112M**	**6**	940	22	•	78.5	79.0	76.5	0.73	5.5	4.8	2.2	2.0	168	32	**FD 06S**	60	—	2100	177	42	**FA 06S**	60	2100	177	44
3	**BN 132S**	**6**	940	30	•	79.7	77.0	75.1	0.76	7.1	5.1	1.9	1.8	216	36	**FD 56**	75	—	1400	226	49	**FA 06**	75	1400	226	50
4	**BN 132MA**	**6**	950	40	•	81.4	81.5	79.5	0.77	9.2	5.5	2.0	1.8	295	45	**FD 06**	100	—	1200	305	58	**FA 07**	100	1200	318	63
5.5	**BN 132MB**	**6**	945	56	•	83.1	80.9	79.1	0.78	12.2	6.1	2.1	1.9	383	56	**FD 07**	150	—	1050	406	72	**FA 07**	150	1050	406	74
7.5	**BN 160M**	**6**	955	75	•	85.0	85.0	84.8	0.81	15.7	5.9	2.2	2.0	740	83	**FD 08**	170	—	900	815	112	**FA 08**	170	900	815	113
11	**BN 160L**	**6**	960	109	•	86.4	86.5	85.9	0.81	22.7	6.6	2.5	2.3	970	103	**FD 08**	200	—	800	1045	133	**FA 08**	200	800	1045	133
15	**BN 180L**	**6**	970	148	•	87.7	88.0	87.3	0.82	30	6.2	2.0	2.4	1550	130	**FD 09**	300	—	600	1750	170					
18.5	**BN 200LA**	**6**	960	184	•	88.6	88.0	87.3	0.81	37	5.9	2.0	2.3	1700	145	**FD 09**	400	—	450	1900	185					

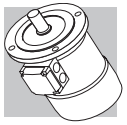
○ = n.a. • = IE1

2P — 3000 rpm - S1 — 50 Hz

															freio d.c.						freio a.c.				
															FD						FA				
P_n kW			n rpm	M_n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is / In	Ms / Mn	Ma / Mn	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 Kg
0.18	M 05A	2	2730	0.63	○	59.9	56.9	51.9	0.77	0.56	3.0	2.1	2.0	2.0	3.2	FD 02	1.75	3900	4800	2.6	4.9	FA 02	1.75	4800	2.6	4.7
0.25	M 05B	2	2740	0.87	○	66.0	64.8	64.8	0.76	0.72	3.3	2.3	2.3	2.3	3.6	FD 02	1.75	3900	4800	3.0	5.3	FA 02	1.75	4800	3.0	5.1
0.37	M 05C	2	2800	1.26	○	69.1	66.8	66.8	0.78	0.99	3.9	2.6	2.6	3.3	4.8	FD 02	3.5	3600	4500	3.9	6.5	FA 02	3.5	4500	3.9	6.3
0.55	M 1SD	2	2820	1.86	○	76.0	75.8	74.8	0.76	1.37	5.0	2.9	2.8	4.1	5.8	FD 03	5	2900	4200	5.3	8.5	FA 03	5	4200	5.3	8.2
0.75	M 1LA	2	2810	2.6	○	76.6	76.2	76.2	0.76	1.86	5.1	3.1	2.8	5.0	6.9	FD 03	5	1900	3300	6.1	9.6	FA 03	5	3300	6.1	9.3
1.1	M 2SA	2	2800	3.8	•	76.4	76.2	75.0	0.81	2.57	4.8	2.8	2.4	9.0	8.8	FD 04	10	1500	3000	10.6	11.9	FA 04	10	3000	10.6	12.6
1.5	M 2SB	2	2800	5.1	•	79.1	79.5	77.2	0.81	3.4	4.9	2.7	2.4	11.4	10.6	FD 04	15	1300	2600	13.0	9.9	FA 04	15	2600	13.0	14.4
2.2	M 3SA	2	2880	7.3	•	82.7	82.1	81.0	0.80	4.8	6.3	2.9	2.7	24	15.5	FD 15	26	1100	2400	28	22	FA 15	26	2400	28	23
3	M 3LA	2	2860	10.0	•	81.5	81.3	77.4	0.79	6.7	5.6	2.6	2.2	31	18.7	FD 15	26	700	1600	35	25	FA 15	26	1600	35	26
4	M 3LB	2	2870	13.3	•	83.1	83.0	77.8	0.80	8.7	5.8	2.7	2.5	39	22	FD 15	40	450	900	43	28	FA 15	40	900	43	29
5.5	M 4SA	2	2890	18.2	•	84.7	84.5	81.2	0.84	11.2	5.9	2.6	2.2	101	33	FD 06	50	—	600	112	46	FA 06	50	600	112	47
7.5	M 4SB	2	2900	25	•	86.5	86.3	84.4	0.85	14.7	6.4	2.6	2.2	145	40	FD 06	50	—	550	154	53	FA 06	50	550	154	54
9.2	M 4LA	2	2930	30	•	87.0	86.5	83.6	0.86	17.7	6.7	2.8	2.3	178	51	FD 56	75	—	430	189	64	FA 06	75	430	189	65
11	M 4LC	2	2920	36	•	87.6	87.0	86.0	0.88	20.6	6.9	2.9	2.5	210	60											
15	M 5SB	2	2930	49	•	89.6	89.4	88.0	0.86	28.1	7.1	2.6	2.3	340	70											
18.5	M 5SC	2	2930	60	•	90.4	90.1	89.0	0.86	34	7.6	2.7	2.3	420	83											
22	M 5LA	2	2930	72	•	89.9	89.7	89.5	0.88	40	7.8	2.6	2.4	490	95											

○ = n.a. • = IE1

4P — 1500 rpm - S1 — 50 Hz



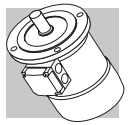
															freio d.c.						freio a.c.				
															FD						FA				
P_n kW		n rpm	M_n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is / In	Ms / Mn	Ma / Mn	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 Kg
0.09	**M 0B**	**4**	1350	0.64	○	51.7	47.6	42.9	0.60	0.42	2.6	2.5	2.4	1.5	2.9										
0.12	**M 05A**	**4**	1350	0.85	○	59.8	56.2	47.0	0.62	0.47	2.6	1.9	1.8	2.0	3.2	**FD 02**	1.75	10000	13000	2.6	4.9	**FA 02**	1.75	13000	2.6	4.7
0.18	**M 05B**	**4**	1320	1.30	○	54.8	52.9	52.5	0.67	0.71	2.6	2.2	2.0	2.3	3.6	**FD 02**	3.5	10000	13000	3.0	5.3	**FA 02**	3.5	13000	3.0	5.1
0.25	**M 05C**	**4**	1340	1.78	○	65.3	65.0	57.9	0.69	0.80	2.7	2.1	1.9	3.3	4.8	**FD 02**	3.5	7800	10000	3.9	6.5	**FA 02**	3.5	10000	3.9	6.3
0.37	**M 1SD**	**4**	1370	2.6	○	66.8	66.7	63.0	0.76	1.05	3.7	2.0	1.9	6.9	5.5	**FD 03**	5	6000	9400	8.0	8.2	**FA 03**	5	9400	8.0	7.9
0.55	**M 1LA**	**4**	1380	3.8	○	69.0	68.9	68.8	0.74	1.55	4.1	2.3	2.3	9.1	6.9	**FD 53**	7.5	4300	8700	10.2	9.6	**FA 03**	7.5	8700	10.2	9.3
0.75	**M 2SA**	**4**	1400	5.1	•	75.0	74.5	69.3	0.78	1.85	4.9	2.7	2.5	20	9.2	**FD 04**	15	4100	7800	22	13.1	**FA 04**	15	7800	22	13.0
1.1	**M 2SB**	**4**	1400	7.5	•	76.4	76.2	70.4	0.78	2.66	5.1	2.8	2.5	25	10.6	**FD 04**	15	2600	5300	27	14.5	**FA 04**	15	5300	27	14.4
1.5	**M 3SA**	**4**	1410	10.2	•	79.6	80.5	79.3	0.77	3.5	4.6	2.1	2.1	34	15.5	**FD 15**	26	2800	4900	38	22	**FA 15**	26	4900	38	23
2.2	**M 3LA**	**4**	1410	14.9	•	81.1	81.4	79.9	0.75	5.2	4.5	2.2	2.0	40	17	**FD 15**	40	2600	4700	44	24	**FA 15**	40	4700	44	24
3	**M 3LB**	**4**	1410	20	•	82.6	83.8	83.7	0.77	6.8	5.0	2.3	2.2	54	21	**FD 15**	40	2400	4400	58	27	**FA 15**	40	4400	58	28
4	**M 3LC**	**4**	1400	27	○	82.7	83.1	80.5	0.78	9.0	4.7	2.3	2.2	61	23	**FD 55**	55	—	1300	65	29	**FA 15**	40	1300	65	30
5.5	**M 4SA**	**4**	1440	36	•	84.7	84.8	82.5	0.81	11.6	5.5	2.3	2.2	213	42	**FD 56**	75	—	1050	223	55	**FA 06**	75	1050	223	56
7.5	**M 4LA**	**4**	1440	50	•	86.0	86.3	85.3	0.81	15.5	5.7	2.5	2.4	270	51	**FD 06**	100	—	950	280	64	**FA 07**	100	950	280	65
9.2	**M 4LB**	**4**	1440	61	•	88.4	88.6	87.5	0.81	18.8	5.9	2.7	2.5	319	57	**FD 07**	150	—	900	342	73	**FA 07**	150	900	342	75
11	**M 4LC**	**4**	1440	73	•	87.6	87.8	86.0	0.81	22.4	6.0	2.7	2.5	360	65	**FD 07**	150	—	850	382	81	**FA 07**	150	850	382	83
15	**M 5SB**	**4**	1460	98	•	88.7	88.5	88.4	0.81	30.1	6.0	2.3	2.1	650	85	**FD 08**	200	—	750	725	115	**FA 08**	200	750	710	114
18.5	**M 5LA**	**4**	1460	121	•	89.3	89.5	89.2	0.81	37	6.2	2.6	2.5	790	101	**FD 08**	250	—	700	865	131	**FA 08**	250	700	850	130

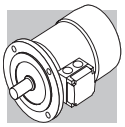
○ = n.a. • = IE1

6P — 1000 rpm - S1 — 50 Hz

															freio d.c.						freio a.c.				
															FD						FA				
P_n kW			n rpm	M_n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is / In	Ms / Mn	Ma / Mn	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h NB	Z_o 1/h SB	J_m x 10^{-4} kgm²	IM B5 Kg	Mod	Mb Nm	Z_o 1/h	J_m x 10^{-4} kgm²	IM B5 Kg
0.09	M 05A	6	880	0.98	○	41.0	41.0	32.9	0.53	0.60	2.1	2.1	1.8	3.4	4.3	FD 02	3.5	9000	14000	4.0	6.0	FA 02	3.5	14000	4.0	5.8
0.12	M 05B	6	870	1.32	○	45.0	44.0	41.8	0.60	0.64	2.1	1.9	1.7	3.7	4.6	FD 02	3.5	9000	14000	4.3	6.3	FA 02	3.5	14000	4.3	6.1
0.18	M 1SC	6	900	1.91	○	55.0	55.5	51.0	0.69	0.68	2.6	1.9	1.7	8.4	5.1	FD 03	5	8100	13500	9.5	7.8	FA 03	5	13500	9.5	7.5
0.25	M 1SD	6	900	2.7	○	62.0	58.5	51.4	0.71	0.82	2.6	1.9	1.7	10.9	6.3	FD 03	5	7800	13000	12	9.0	FA 03	5	13000	12	8.7
0.37	M 1LA	6	910	3.9	○	66.0	60.0	53.3	0.69	1.17	3.0	2.4	2.0	12.9	7.3	FD 53	7.5	5100	9500	14	10.0	FA 03	7.5	9500	14	9.7
0.55	M 2SA	6	920	5.7	○	70.0	69.8	64.3	0.68	1.67	3.9	2.6	2.2	25	10.6	FD 04	15	4800	7200	27	14.5	FA 04	15	7200	27	14.4
0.75	M 2SB	6	920	7.8	•	70.0	70.0	64.4	0.65	2.38	3.8	2.5	2.2	28	11.5	FD 04	15	3400	6400	30	15.4	FA 04	15	6400	30	15.3
1.1	M 3SA	6	920	11.4	•	75.0	74.0	72.0	0.72	2.9	4.3	2.0	1.8	33	17	FD 15	26	2700	5000	37	23	FA 15	26	5000	37	24
1.5	M 3LA	6	940	15.2	•	75.2	74.2	70.3	0.72	4.0	4.1	2.1	2.0	82	21	FD 15	40	1900	4100	86	27	FA 15	40	4100	86	28
1.85	M 3LB	6	930	19.0	•	76.6	72.8	62.6	0.73	4.8	4.6	2.1	2.0	95	23	FD 15	40	1700	3600	99	29	FA 15	40	3600	99	30
2.2	M 3LC	6	930	23	•	77.7	76.8	72.4	0.71	5.8	4.7	2.3	2.1	95	23	FD 55	55	—	1900	99	29	FA 15	55	1900	99	30
3	M 4SA	6	940	30	•	79.7	77.0	75.1	0.76	7.1	5.1	1.9	1.8	216	34	FD 56	75	—	1400	226	47	FA 06	75	1400	226	48
4	M 4LA	6	950	40	•	81.4	81.5	79.5	0.77	9.2	5.5	2.0	1.8	295	43	FD 06	100	—	1200	305	56	FA 07	100	1200	305	57
5.5	M 4LB	6	945	56	•	83.1	80.9	79.1	0.78	12.2	6.1	2.1	1.9	383	54	FD 07	150	—	1050	406	70	FA 07	150	1050	406	72
7.5	M 5SA	6	955	75	•	85.0	85.0	84.8	0.81	15.7	5.9	2.2	2.0	740	69	FD 08	170	—	900	815	98	FA 08	170	900	800	98
11	M 5SB	6	960	109	•	86.4	86.5	85.9	0.81	22.7	6.6	2.5	2.3	970	89	FD 08	200	—	800	1045	119	FA 08	200	800	1030	118

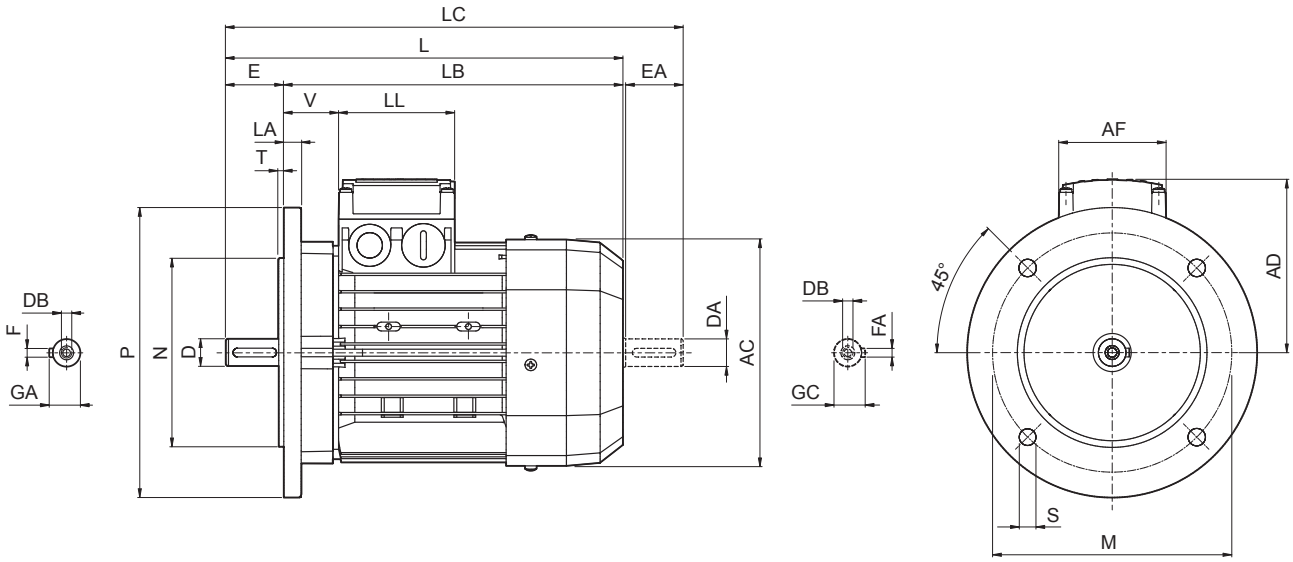
○ = n.a. • = IE1





M15 DIMENSÕES DOS MOTORES BN-M

BN - IM B5

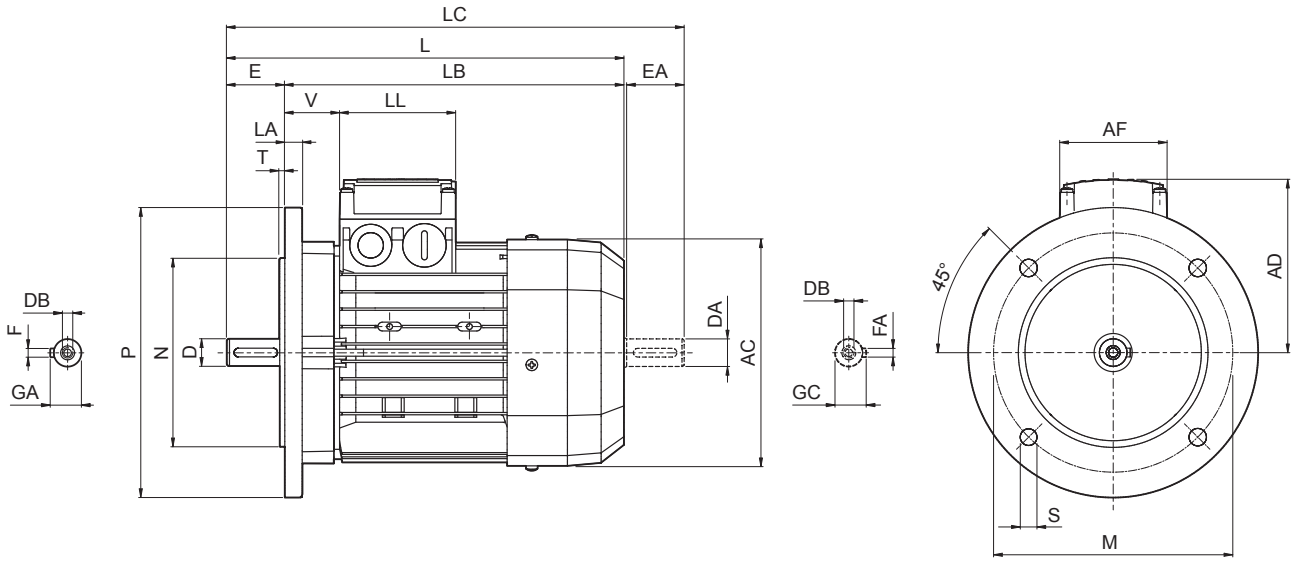


Dimensões em mm

	Eixo					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BN 56	9	20	M3	10.2	3	100	80	120	7	3	8	110	185	165	207	91	74	80	34
BN 63	11	23	M4	12.5	4	115	95	140	9.5		10	121	207	184	232	95			26
BN 71	14	30	M5	16	5	130	110	160		3.5		138	249	219	281	108			37
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	274	234	315	119			38
BN 90	24	50	M8	27	8							176	326	276	378	133	98	98	44
BN 100	28	60	M10	31		215	180	250	14	4	14	195	367	307	429	142			50
BN 112											15	219	385	325	448	157			52
BN 132	38	80	M12	41	10	265	230	300			20	258	493	413	576	193	118	118	58
BN 160 MR	42 38 (1)	110 80 (1)	M16 M12 (1)	45 41 (1)	12 10 (1)	300	250	350	18.5	5	15		562	452	645				218
BN 160 M												310	596	486	680	245	187	187	51
BN 160 L																			
BN 180 M	48 38 (1)	110 110 (1)	M16 M12 (1)	51.5 41 (1)	14 10 (1)							310	640	530	724				
BN 180 L	48 42 (1)		M16 M16 (1)	51.5 45 (1)	14 12 (1)						18	348	708	598	823	261			52
BN 200 L	55 42 (1)		M20 M16 (1)	59 45 (1)	16 12 (1)	350	300	400					722	612	837				66

NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.

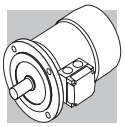
BN - IM B5



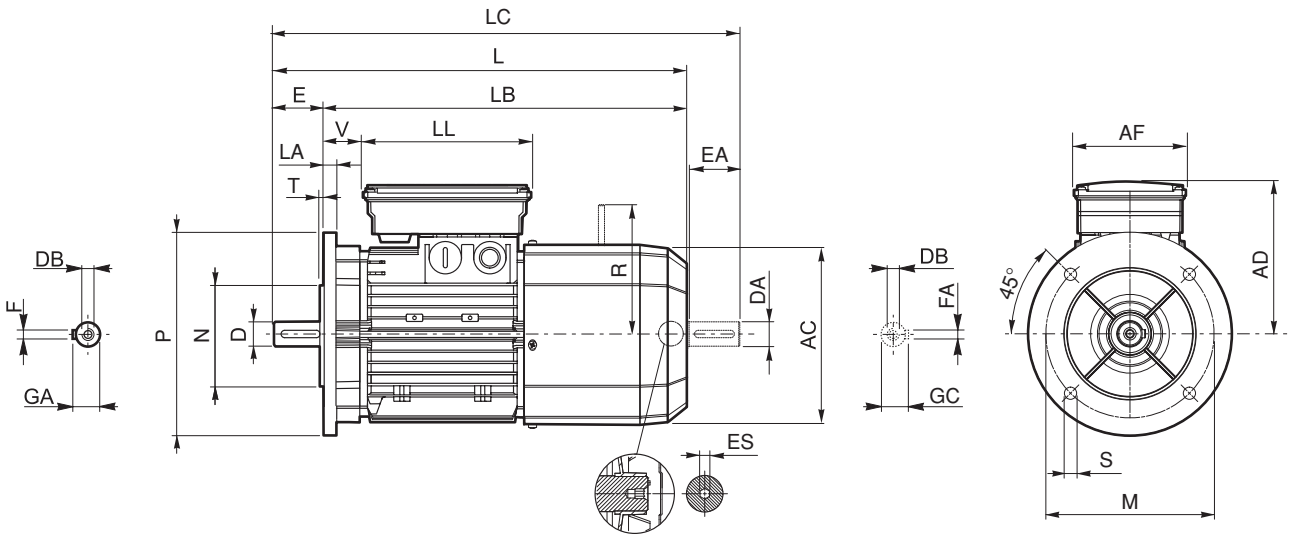
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Eixo					Flange						Motor							
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**
BN 56	0.354	0.787	*M3*	0.402	0.118	3.937	3.150	4.724	0.276	0.118	0.315	4.331	7.283	6.496	8.150	3.583	2.913	3.150	1.339
BN 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374		0.394	4.764	8.150	7.244	9.134	3.740			1.024
BN 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299		0.138		5.433	9.803	8.622	11.063	4.252			1.457
BN 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453		0.453	6.142	10.787	9.213	12.402	4.685			1.496
BN 90	0.945	1.969	*M8*	1.063	0.315							6.929	12.835	10.866	14.882	5.236	3.858	3.858	1.732
BN 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551	0.157	0.551	7.677	14.449	12.087	16.890	5.591			1.969
BN 112											0.591	8.622	15.157	12.795	17.638	6.181			2.047
BN 132	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811			0.787	10.157	19.409	16.260	22.677	7.598	4.646	4.646	2.283
BN 160 MR	1.654 1.496(1)	4.331 3.150(1)	*M16 M12(1)*	1.772 1.614(1)	0.472 0.395(1)	11.811	9.843	13.780	0.728	0.197	0.591		22.126	17.795	25.394				8.583
BN 160 M												12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008
BN 160 L																			
BN 180 M	1.890 1.496(1)		*M16 M12(1)*	2.028 1.614(1)	0.551 0.394(1)							12.205	25.197	20.866	28.504				
BN 180 L	1.890 1.654(1)	4.331 4.331(1)	*M16 M16(1)*	2.018 1.772(1)	0.551 0.472(1)						0.709	13.701	27.874	23.543	32.402	10.276			2.047
BN 200 L	2.165 1.654(1)		*M20 M16(1)*	2.323 1.772(1)	0.630 0.472(1)	13.780	11.811	15.748					28.425	24.094	32.953				2.598

NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.



BN_FD ; IM B5



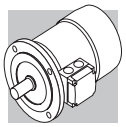
Dimensões em mm

BN-M

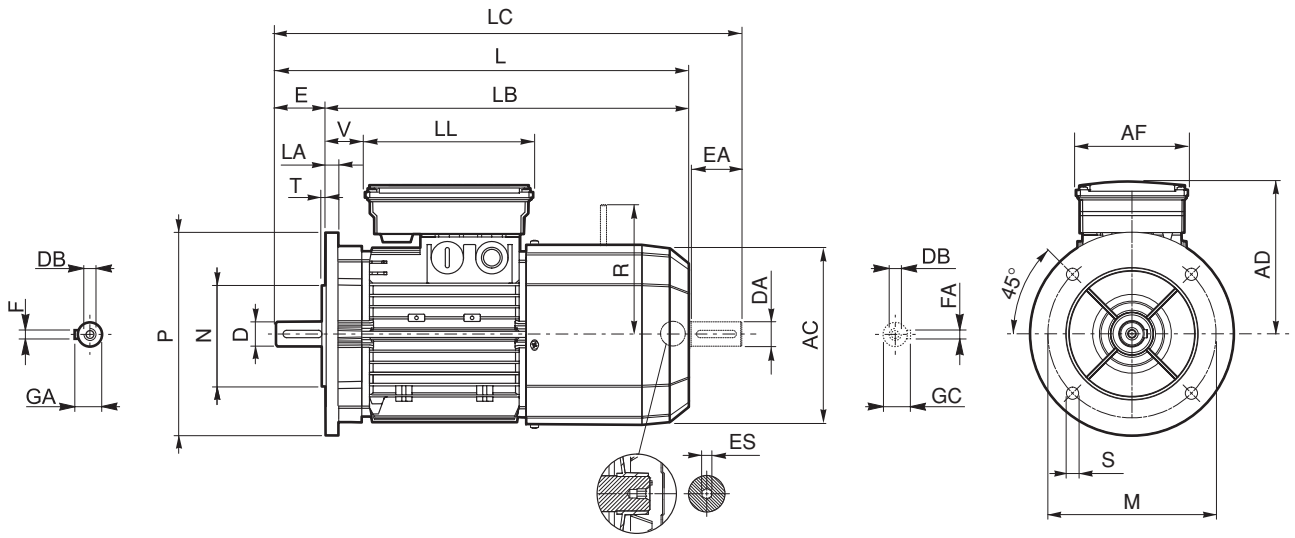
	Eixo					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5
BN 71	14	30	M5	16	5	130	110	160	9.5	3.5		138	310	280	342	135			25	103	
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	346	306	388	146			41	129	
BN 90 S	24	50	M8	27	8							176	409	359	461	149	110	165	39		6
BN 90 L																146				160	
BN 100	28	60	M10	31		215	180	250	14	4	14	195	458	398	521	158		165	62		
BN 112											15	219	484	424	547	173		165	73	199	
BN 132	38	80	M12	41	10	265	230	300			20	258	603	523	686	210	140	188	46	204 (2)	
BN 160 MR	42 38 (1)	110 80 (1)	M16 M12 (1)	45 41 (1)	12 10 (1)	300	250	350	18.5	5	15		672	562	755				161	226	
BN 160 M												310	736	626	820	245	187	187	51	266	—
BN 160 L	42 38 (1)	110 80 (1)	M16 M12 (1)	45 41 (1)	12 10 (1)								780	670	864						
BN 180 M	48 38 (1)			51.5 41 (1)	14 10 (1)								866	756	981				52		
BN 180 L	48 42 (1)	110 110 (1)	M16 M16 (1)	51.5 45 (1)	14 12 (1)						18	348	878	768	993	261			64	305	
BN 200 L	55 42 (1)		M20 M16 (1)	59 45 (1)	16 12 (1)	350	300	400	18.5												

NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.
2) Para FD07, valor do freio R=226.

Hexágono ES não é fornecido com a opção PS.



BN_FD ; IM B5

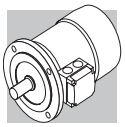


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

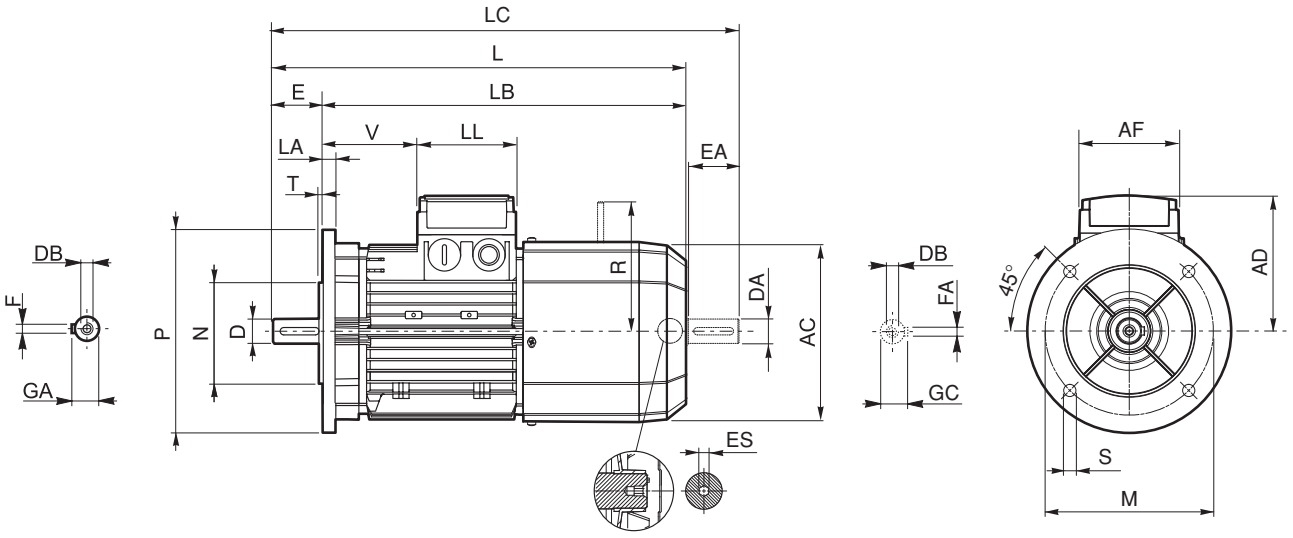
	Eixo					Flange						Motor									
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R**	**ES**
BN 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374	0.118	0.394	4.764	10.709	9.803	11.693	4.803	3.858	5.236	0.551	3.780	0.197
BN 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299	0.374	0.138		5.433	12.205	11.024	13.465	5.315			0.984	4.055	
BN 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453		0.453	6.142	13.622	12.047	15.276	5.748			1.614	5.079	
BN 90 S	0.945	1.969	*M8*	1.063	0.315							6.929	16.102	14.134	18.150	5.866	4.331	6.496	1.535		0.236
BN 90 L																5.748				6.299	
BN 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551	0.157	0.551	7.677	18.031	15.669	20.512	6.220		6.496	2.441		
BN 112											0.591	8.622	19.055	16.693	21.535	6.811		6.496	2.874	7.835	
BN 132	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811			0.787	10.157	23.740	20.591	27.008	8.268	5.512	7.402	1.811	8.031[2]	
BN 160 MR	1.654 1.496[1]	4.331 3.150[1]	*M16* *M12*[1]	1.772 1.614[1]	0.472 0.394[1]	11.811	9.843	13.780	0.728	0.197	0.591		26.457	22.126	29.724				6.339	8.898	
BN 160 M												12.205	28.976	24.646	32.283	9.646	7.362	7.362	2.008	10.472	—
BN 160 L	1.654 1.496[1]	4.331	*M16*	1.772 1.614[1]	0.472 0.394[1]								30.709	26.378	34.016						
BN 180 M	1.890 1.496[1]	3.150[1]	*M12*[1]	2.028 1.614[1]	0.551 0.394[1]								34.094	29.764	38.622	10.276			2.047	12.008	
BN 180 L	1.890 1.654[1]	4.331	*M16* *M16*[1]	2.028 1.772[1]	0.551 0.472[1]						0.709	13.701									
BN 200 L	2.165 1.654[1]	4.331[1]	*M20* *M16*[1]	2.323 1.772[1]	0.630 0.472[1]	13.780	11.811	15.748	0.728				34.567	30.236	39.094				2.520		

NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.
2) Para FD07, valor do freio R=8.898.

Hexágono ES não é fornecido com a opção PS.



BN_FA - IM B5



Dimensões em mm

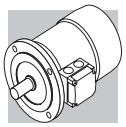
BN-M

	Eixo					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	95	74	80	26	116	5
BN 71	14	30	M5	16	5	130	110	160		3.5		138	310	280	342	108			68	124	
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	346	306	388	119			83	134	
BN 90	24	50	M8	27	8							176	409	359	461	133	98	98	95	160	6
BN 100	28	60	M10	31		215	180	250	14	4	14	195	458	398	521	142			119		
BN 112											15	219	484	424	547	157			128	198	
BN 132	38	80	M12	41	10	265	230	300			20	258	603	523	686	210	140	188	46	200 (2)	
BN 160 MR	42 38 (1)	110 80 (1)	M16 M12 (1)	45 41 (1)	12 10 (1)	300	250	350	18.5	5	15		672	562	755	193	118	118	218	217	
BN 160 M												310	736	626	820	245	187	187	51	247	—
BN 160 L																					
BN 180 M				51.5 41 (1)	14 10 (1)								780	670	864						

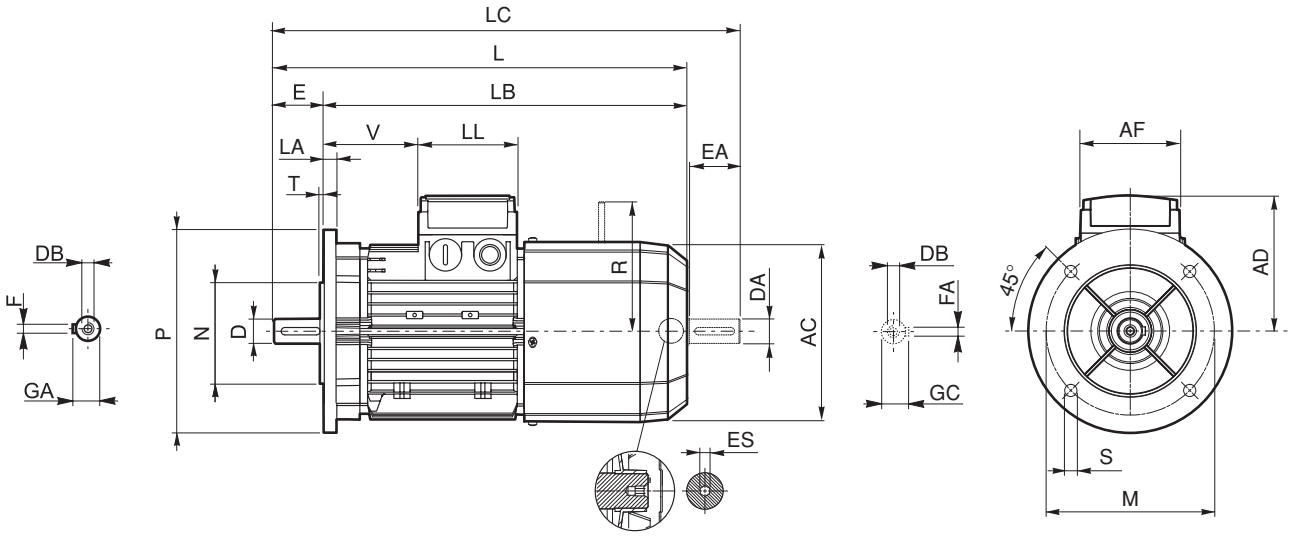
NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.
2) Para FA07, valor do freio R=217.

As dimensões AD, AF, LL e V, relevantes para a caixa de terminais dos motores BN…FA com fonte de alimentação de freio separada (opção SA) são coincidentes com as respectivas dimensões dos motores BN…FD do mesmo tamanho.

Hexágono ES não é fornecido com a opção PS.



BN_FA - IM B5



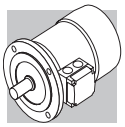
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Eixo					Flange						Motor									
	D DA	**E EA**	**DB**	**GA GC**	**F FA**	**M**	**N**	**P**	**S**	**T**	**LA**	**AC**	**L**	**LB**	**LC**	**AD**	**AF**	**LL**	**V**	**R**	**ES**
BN 63	0.433	0.906	*M4*	0.492	0.157	4.528	3.740	5.512	0.374	0.118	0.394	4.764	10.709	9.803	11.693	3.740			1.024	4.567	
BN 71	0.551	1.181	*M5*	0.630	0.197	5.118	4.331	6.299				5.433	12.205	11.024	13.465	4.252	2.913	3.150	2.677	4.882	0.197
BN 80	0.748	1.575	*M6*	0.846	0.236	6.496	5.118	7.874	0.453	0.138	0.453	6.142	13.622	12.047	15.276	4.685			3.268	5.276	
BN 90	0.945	1.969	*M8*	1.063	0.315							6.929	16.102	14.134	18.150	5.236			3.740	6.299	0.236
BN 100	1.102	2.362	*M10*	1.220		8.465	7.087	9.843	0.551	0.157	0.551	7.677	18.031	15.669	20.512	5.591	3.858	3.858	4.685		
BN 112											0.591	8.622	19.055	16.693	21.535	6.181			5.039	7.795	
BN 132	1.496	3.150	*M12*	1.614	0.394	10.433	9.055	11.811			0.787	10.157	23.740	20.591	27.008	8.268	5.512	7.402	1.811	7.874[2]	
BN 160 MR	1.654 1.496[1]	4.331 3.150[1]	*M16 M12*[1]	1.772 1.614[1]	0.472 0.394[1]	11.811	9.843	13.780	0.728	0.197	0.591		26.457	22.126	29.724	7.598	4.646	4.646	8.583	8.543	
BN 160 M												12.205	28.976	24.646	32.283	9.646	7.362	7.362	2.008	9.724	—
BN 160 L																					
BN 180 M				2.028 1.614[1]	0.551 0.394[1]								30.709	26.378	34.016						

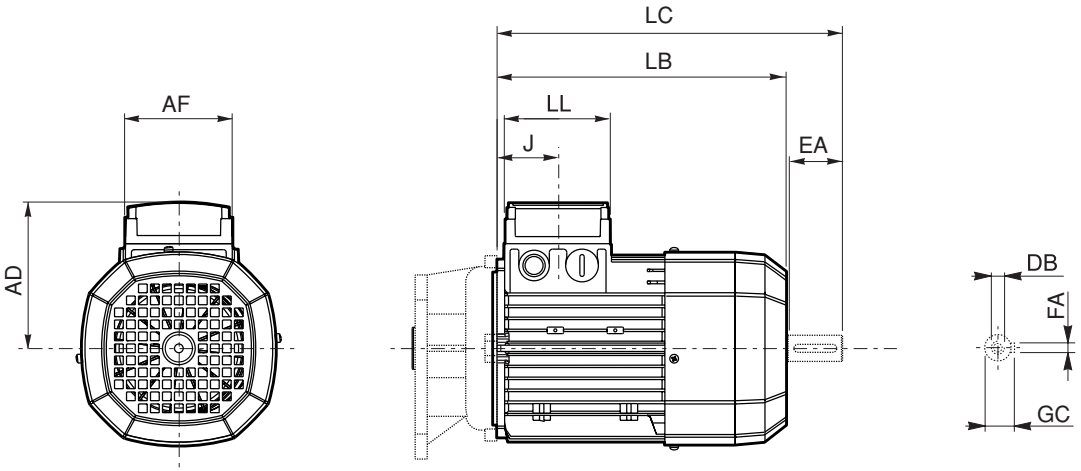
NOTA:
1) Estes valores referem-se à ponta do eixo traseiro.
2) For FA07 brake value R=8.543

As dimensões AD, AF, LL e V, relevantes para a caixa de terminais dos motores BN…FA com fonte de alimentação de freio separada (opção SA) são coincidentes com as respectivas dimensões dos motores BN…FD do mesmo tamanho.

Hexágono ES não é fornecido com a opção PS.



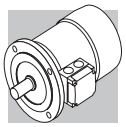
M



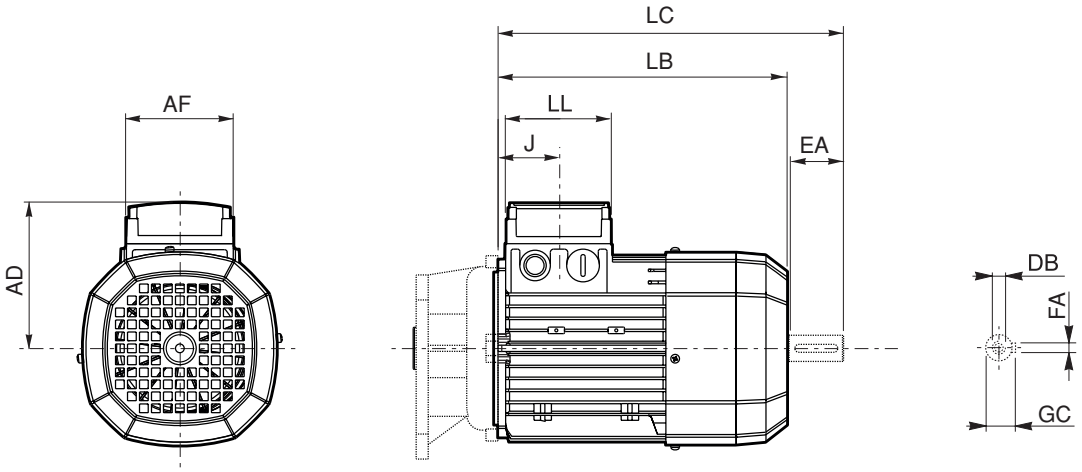
BN-M

Dimensões em mm

	Ponta do eixo traseiro					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
M 0	9	20	M3	3	10.2	110	133	155	74	80	42	91
M 05	11	23	M4	4	12.5	121	165	191			48	95
M 1	14	30	M5	5	16	138	187	219			45	108
M 2 S	19	40	M6	6	21.5	156	202	245			44	119
M 3 S	28	60	M10	8	31	195	230	293	98	98	53.5	142
M 3 L							262	325				
M 4	38	80	M12	10	41	258	361	444	118	118	64.5	193
M 4 LC							396	479				
M 5 S						310	418	502	187	187	77	245
M 5 L							462	546				

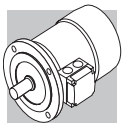


M

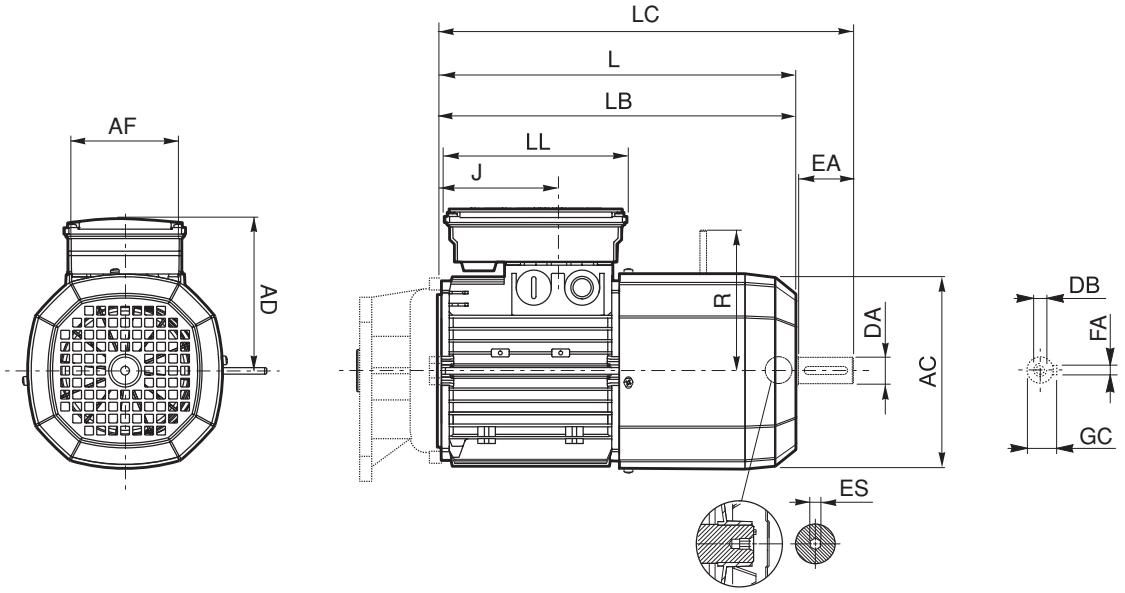


Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Ponta do eixo traseiro					Motor						
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**
M 0	0.354	0.787	*M3*	0.118	0.402	4.331	5.236	6.102	2.913	3.150	1.654	3.583
M 05	0.433	0.906	*M4*	0.157	0.492	4.764	6.496	7.520			1.890	3.740
M 1	0.551	1.181	*M5*	0.197	0.630	5.433	7.362	8.622			1.772	4.252
M 2 S	0.748	1.575	*M6*	0.236	0.846	6.142	7.953	9.646			1.732	4.685
M 3 S	1.102	2.362	*M10*	0.315	1.220	7.677	9.055	11.535	3.858	3.858	2.106	5.591
M 3 L							10.315	12.795				
M 4	1.496	3.150	*M12*	0.394	1.614	10.157	14.213	17.480	4.646	4.646	2.539	7.598
M 4 LC							15.591	18.858				
M 5 S						12.205	16.457	19.764	7.362	7.362	3.031	9.646
M 5 L							18.189	21.496				



M_FD



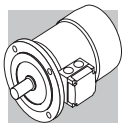
Dimensões em mm

BN-M

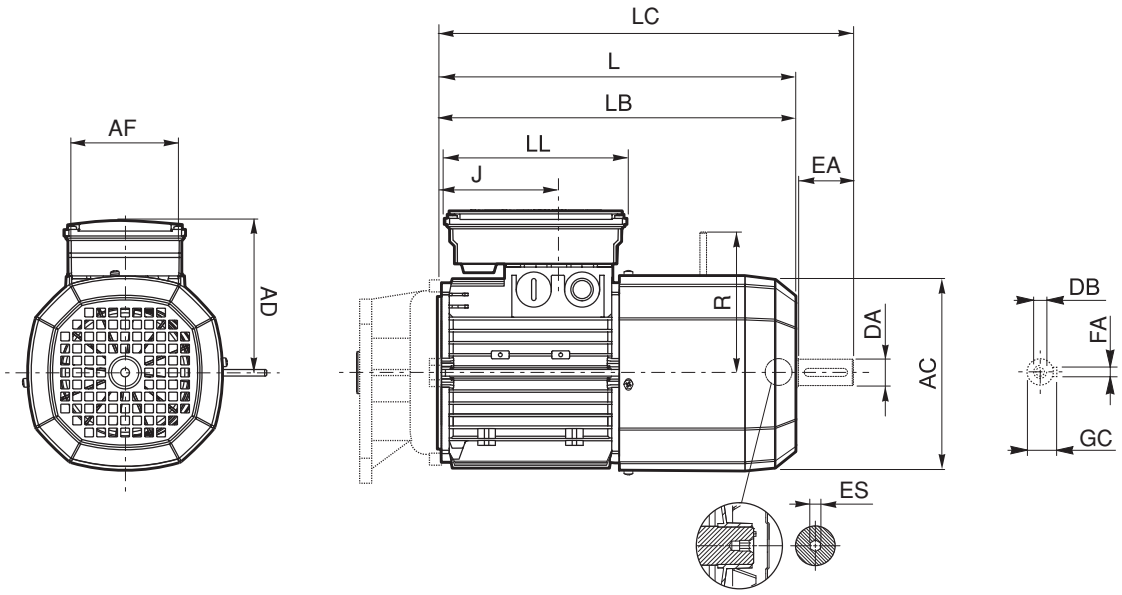
	Ponta do eixo traseiro					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	11	23	M4	4	12.5	121	231	256	98	133	48	122	96	5
M 1	14	30	M5	5	16	138	248	280			73	135	103	
M 2 S	19	40	M6	6	21.5	156	272	314			88	146	129	
M 3 S	28	60	M10	8	31	195	326	389	110	165	124.5	158	160	6
M 3 L							353	416						
M 4	38	80	M12	10	41	258	470	553	140	188	185.5	210	204 (1)	
M 4 LC							495	578			64.5		226	
M 5 S						310	558	642	187	187	77	245	266	—
M 5 L							602	686						

NOTA:
1) Para FD07, valor do freio R=226.

Hexágono ES não é fornecido com a opção PS.



M_FD



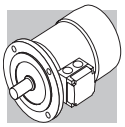
Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Ponta do eixo traseiro					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	0.433	0.906	*M4*	0.157	0.492	4.764	9.094	10.079	3.858	5.236	1.890	4.803	3.780	0.197
M 1	0.551	1.181	*M5*	0.197	0.630	5.433	9.764	11.024			2.874	5.315	4.055	
M 2 S	0.748	1.575	*M6*	0.236	0.846	6.142	10.709	12.362			3.465	5.748	5.079	
M 3 S	1.102	2.362	*M10*	0.315	1.220	7.677	12.835	15.315	4.331	6.496	4.902	6.220	6.299	0.236
M 3 L							13.898	16.378						
M 4	1.496	3.150	*M12*	0.394	1.614	10.157	18.504	21.772	5.512	7.402	7.303	8.268	8.031[(1)]	
M 4 LC							19.488	22.756			2.539		8.898	
M 5 S						12.205	21.969	25.276	7.362	7.362	3.031	9.646	10.472	—
M 5 L							23.701	27.008						

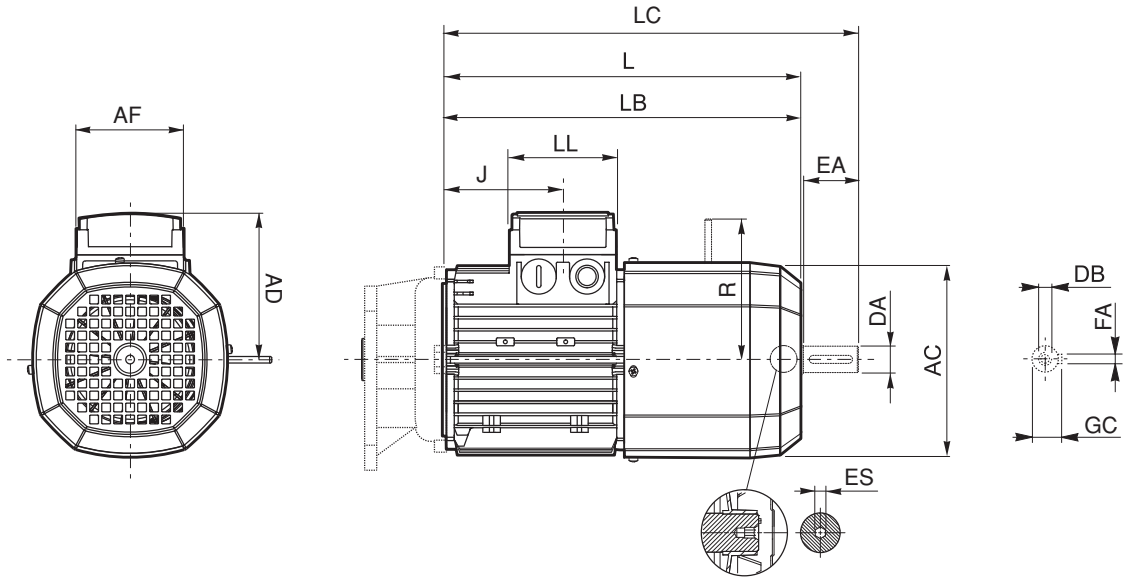
BN-M

NOTA:
1) Para FD07, valor do freio R=8.898.

Hexágono ES não é fornecido com a opção PS.



M_FA



Dimensões em mm

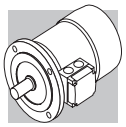
BN-M

	Ponta do eixo traseiro					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	11	23	M4	4	12.5	121	231	256	74	80	48	95	116	5
M 1	14	30	M5	5	16	138	248	280			73	108	124	
M 2 S	19	40	M6	6	21.5	156	272	314			88	119	134	
M 3 S	28	60	M10	8	31	195	326	389	98	98	124.5	142	160	6
M 3 L							353	416						
M 4	38	80	M14	10	41	258	470	553	140	188	185.5	210	200 (1)	
M 4 LC							495	578			64.5		217	
M 5 S			M12			310	558	642	187	187	77	245	247	—
M 5 L							602	686						

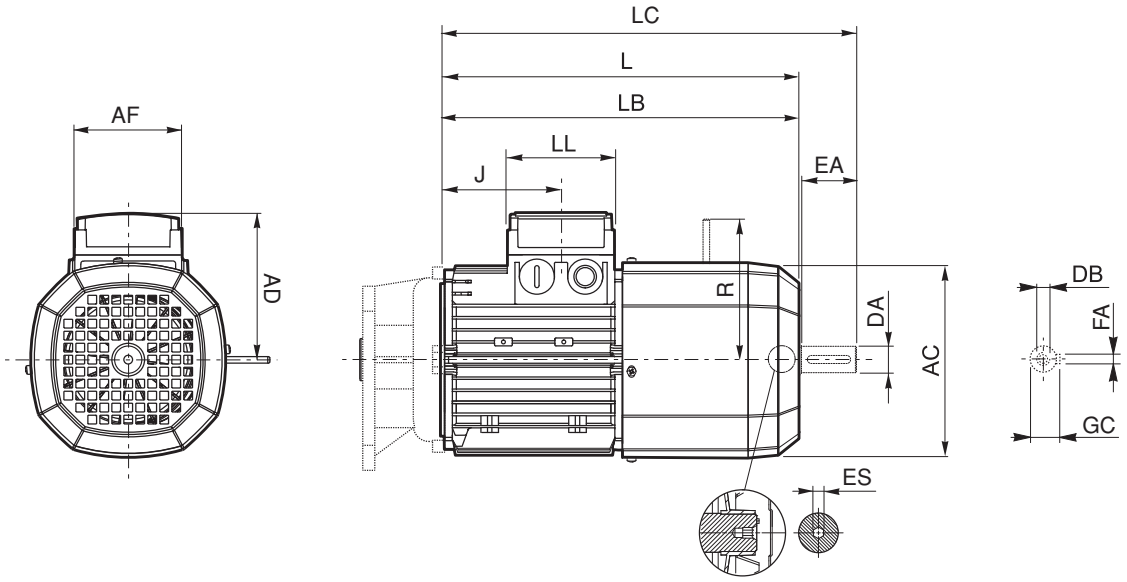
NOTA:
1) Para FA07, valor do freio R=217.

As dimensões AD, AF, LL e V, relevantes para a caixa de terminais dos motores M…FA com fonte de alimentação de freio separada (opção SA) são coincidentes com as respectivas dimensões dos motores M… FD do mesmo tamanho

Hexágono ES não é fornecido com a opção PS.



M_FA



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

	Ponta do eixo traseiro					Motor								
	DA	**EA**	**DB**	**FA**	**GC**	**AC**	**LB**	**LC**	**AF**	**LL**	**J**	**AD**	**R**	**ES**
M 05	0.433	0.906	*M4*	0.157	0.492	4.764	9.094	10.079	2.913	3.150	1.890	3.740	4.567	0.197
M 1	0.551	1.181	*M5*	0.197	0.630	5.433	9.764	11.024			2.874	4.252	4.882	
M 2 S	0.748	1.575	*M6*	0.236	0.846	6.142	10.709	12.362			3.465	4.685	5.276	
M 3 S	1.102	2.362	*M10*	0.315	1.220	7.677	12.835	15.315	3.858	3.858	4.902	5.591	6.299	0.236
M 3 L							13.898	16.378						
M 4	1.496	3.150	*M14*	0.394	1.614	10.157	18.504	21.772	5.512	7.402	7.303	8.268	7.874[(1)]	
M 4 LC							19.488	22.756			2.539		8.543	
M 5 S			*M12*			12.205	21.969	25.276	7.362	7.362	3.031	9.646	9.724	—
M 5 L							23.701	27.008						

NOTA:
1) Para FA07, valor do freio R=8.543.

Para motores dos tipos BN..FA, as dimensões das caixas de terminais AD, AF, LL, V são as mesmas que para o tipos BN..FD.

Hexágono ES não é fornecido com a opção PS.

ÍNDICE DE REVISÕES

BR_CAT_CAFS_NEM_POR_R01_1	
	Descrição
…	Atualizados disponibilidade de motor.
…	Fixos tamanhos A 50, C 12, C 32, entrada P80, P90 e eixo do cliente F 41.
636…711	Atualizada seção “Motores Eléctricos”

2018 04 30

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