Inverter data according to EU regulation 2019/1781

Content of this document:
This document lists the data according to the European regulation EU 2019/1781 for the frequency inverter series

AGL202 / AGL402

The reference numbers set in the regulation are shown also in this document as follows:

(1)	Power losses in % of the rated apparent output power at the following different operating points for relative motor stator frequency versus relative torque-producing current (0;25) (0;50) (0;100) (50;25) (50;50) (50;100) (90;50) (90;100) Standby losses	
(2)	Efficiency level	
(3)	Manufacturer's name, commercial registration number and address	
(4)	Product's model identifier	
(5)	Apparent output power [kVA]	*in standard environment conditions (including nominal environment temperature) according to the operating instructions*
(6)	Indicative motor rated power output [kW]	
(7)	Rated output current [A]	
(8)	Maximum operating temperature [°C] – *Note: Max. environment temperature; For temperature derating check the operating instructions*	
(9)	Rated supply frequency [Hz]	
(10)	Rated supply voltage [V] / *Mains voltage [V]*	

Table of Contents according to subseries, Mains voltage, Mounting Version and frame sizes:

Series	Mains Voltage	Mounting Version	Frame Size(s)	Page
AGL202	3 ~ 230 V [1)]	A: Air Cooling	1,2,3	2
		C: ColdPlate	1,2,3	3
AGL402	3 ~ 400 V	A: Air Cooling	1,2,3	4
		C: ColdPlate	1,2,3	5

1) AGL202 devices can also be operated in single phase 230 V mains installations. The data in the following tables consider the operation for three phase 230 V mains operations

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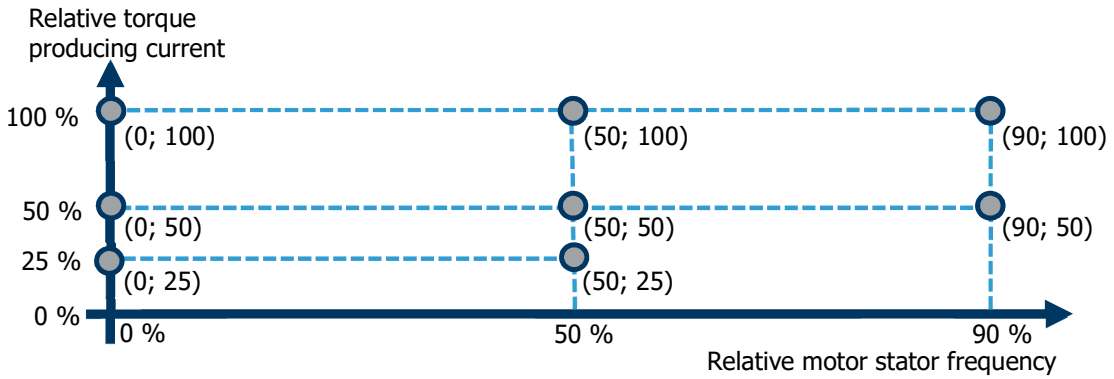

(D)			(1)									(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Power losses Relative [%] 2)																	
Device 1)	Famr Size	f_{PWM} [kHz]	(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)	$P_{Loss\ Standby}$ [W]	IE class	Manufacturer	Model ID	S_{rated} [kVA]	P_{rated} [kW]	I_{rated} [A]	Max. T [°C]	f_{supply} [Hz] 5)	V_{supply} [V] 6)
AGL202 02 1 FA	1	4	2.8	2.8	3	2.8	2.9	3.2	3	3.4	10	IE2	3)	4)	0.6	0.25	1.5	55	5)	230
AGL202 03 1 FA	1	4	2.3	2.3	2.5	2.3	2.4	2.7	2.5	2.9	10	IE2	3)	4)	0.8	0.37	2	55	5)	230
AGL202 05 1 FA	1	4	1.8	1.8	2	1.8	1.9	2.2	2	2.4	10	IE2	3)	4)	1.2	0.55	3	55	5)	230
AGL202 07 1 FA	1	4	1.8	1.9	2.3	1.8	2	2.5	2.1	2.7	10	IE2	3)	4)	1.4	0.75	3.5	55	5)	230
AGL202 09 1 FA	1	4	1.5	1.7	2.1	1.6	1.8	2.3	1.9	2.5	10	IE2	3)	4)	2	1.1	5	55	5)	230
AGL202 11 1 FA	1	4	1.4	1.6	2	1.5	1.7	2.3	1.8	2.5	10	IE2	3)	4)	2.4	1.5	6	55	5)	230
AGL202 13 1 FA	1	4	1.3	1.5	2	1.4	1.6	2.2	1.8	2.5	10	IE2	3)	4)	3.6	2.2	9	55	5)	230
AGL202 15 2 FA	2	4	1.2	1.4	1.8	1.3	1.5	2.1	1.7	2.5	10	IE2	3)	4)	4.8	3	12	55	5)	230
AGL202 18 2 FA	2	4	1.2	1.4	1.8	1.2	1.5	2.1	1.7	2.6	10	IE2	3)	4)	6	4	15	55	5)	230
AGL202 19 3 FA	3	4	0.8	1	1.5	0.9	1.1	1.7	1.2	2	10	IE2	3)	4)	8.4	5.5	21	55	5)	230
AGL202 21 3 FA	3	4	0.8	1	1.5	0.9	1.1	1.8	1.2	2.1	10	IE2	3)	4)	10.4	7.5	26	55	5)	230

1) The table shows the type designation of the typical variant of the series.
2) Relative power losses relate to the Nominal Apparent power.
3) Manufacturer: Bonfiglioli Deutschland GmbH Europark Fichtenhain B6
Register Court Neuss,HRB 9981 D-47807 Krefeld
4) See column (D) Device
5) f_{supply} : 50/60 Hz (±10 %)
6) V_{supply} :400: AC 3~320…480 (+10%) V 230: AC 3~184…240 V (+10 %)

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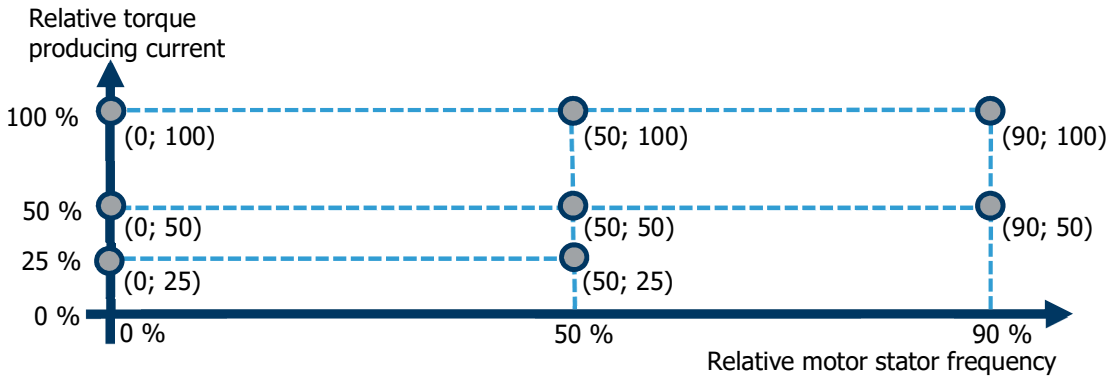

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			Power losses Relative [%] 2)																	
Device 1)	Famr Size	f_{PWM} [kHz]	(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)	$P_{Loss\ Standby}$ [W]	IE class	Manufacturer	Model ID	S_{rated} [kVA]	P_{rated} [kW]	I_{rated} [A]	Max. T [°C]	f_{supply} [Hz] 5)	V_{supply} [V] 6)
AGL202 02 1 FC	1	4	2.8	2.8	3	2.8	2.9	3.2	3	3.4	10	IE2	3)	4)	0.6	0.25	1.5	55	5)	230
AGL202 03 1 FC	1	4	2.3	2.3	2.5	2.3	2.4	2.7	2.5	2.9	10	IE2	3)	4)	0.8	0.37	2	55	5)	230
AGL202 05 1 FC	1	4	1.8	1.8	2	1.8	1.9	2.2	2	2.4	10	IE2	3)	4)	1.2	0.55	3	55	5)	230
AGL202 07 1 FC	1	4	1.4	1.5	1.9	1.5	1.7	2.1	1.8	2.3	10	IE2	3)	4)	1.4	0.75	3.5	55	5)	230
AGL202 09 1 FC	1	4	1.2	1.3	1.7	1.2	1.4	2	1.6	2.2	10	IE2	3)	4)	2	1.1	5	55	5)	230
AGL202 11 1 FC	1	4	1.1	1.3	1.7	1.2	1.4	1.9	1.5	2.2	10	IE2	3)	4)	2.4	1.5	6	55	5)	230
AGL202 13 1 FC	1	4	1	1.2	1.6	1	1.3	1.9	1.4	2.2	10	IE2	3)	4)	3.6	2.2	9	55	5)	230
AGL202 15 2 FC	2	4	0.9	1	1.4	0.9	1.2	1.7	1.3	2.2	10	IE2	3)	4)	4.8	3	12	55	5)	230
AGL202 18 2 FC	2	4	0.8	1	1.4	0.9	1.1	1.8	1.3	2.3	10	IE2	3)	4)	6	4	15	55	5)	230
AGL202 19 3 FC	3	4	0.5	0.7	1.2	0.6	0.8	1.4	0.9	1.7	10	IE2	3)	4)	8.4	5.5	21	55	5)	230
AGL202 21 3 FC	3	4	0.5	0.7	1.2	0.6	0.8	1.5	0.9	1.8	10	IE2	3)	4)	10.4	7.5	26	55	5)	230

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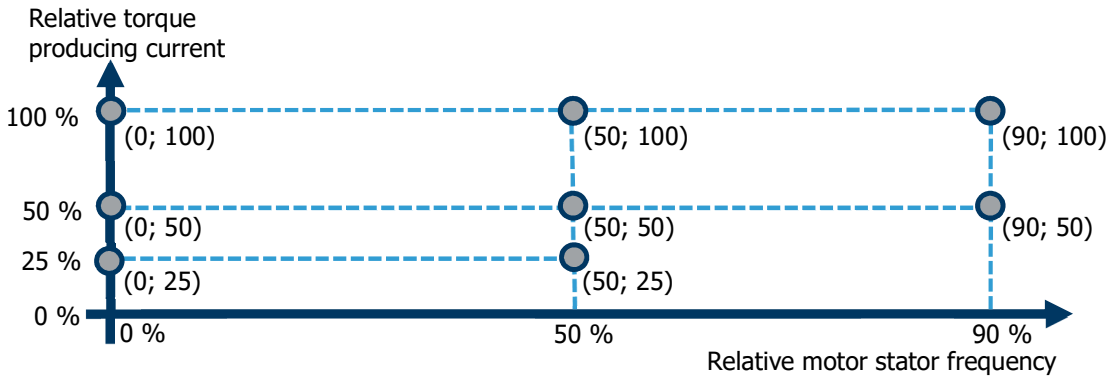

(D)			(1)									(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Power losses Relative [%] 2)																	
Device 1)	Famr Size	f_{PWM} [kHz]	(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)	$P_{Loss\ Standby}$ [W]	IE class	Manufacturer	Model ID	S_{rated} [kVA]	P_{rated} [kW]	I_{rated} [A]	Max. T [°C]	f_{supply} [Hz] 5)	V_{supply} [V] 6)
AGL402 02 1 FA	1	4	3.6	3.6	3.7	3.6	3.6	3.8	3.7	3.9	10	IE2	3)	4)	0.55	0.25	0.8	55	5)	400
AGL402 03 1 FA	1	4	2.6	2.6	2.7	2.6	2.6	2.8	2.7	2.9	10	IE2	3)	4)	0.83	0.37	1.2	55	5)	400
AGL402 05 1 FA	1	4	2.2	2.2	2.3	2.2	2.2	2.4	2.3	2.5	10	IE2	3)	4)	1	0.55	1.5	55	5)	400
AGL402 07 1 FA	1	4	1.5	1.6	1.9	1.6	1.7	2	1.8	2.1	10	IE2	3)	4)	1.5	0.75	2.1	55	5)	400
AGL402 09 1 FA	1	4	1.2	1.3	1.6	1.2	1.4	1.7	1.4	1.8	10	IE2	3)	4)	2.1	1.1	3	55	5)	400
AGL402 11 1 FA	1	4	1.3	1.4	1.7	1.3	1.5	1.8	1.5	1.9	10	IE2	3)	4)	2.8	1.5	4	55	5)	400
AGL402 13 1 FA	1	4	1.2	1.3	1.6	1.2	1.4	1.8	1.4	1.9	10	IE2	3)	4)	3.8	2.2	5.5	55	5)	400
AGL402 15 2 FA	2	4	0.9	1	1.2	1	1.1	1.4	1.1	1.5	10	IE2	3)	4)	5.2	3	7.5	55	5)	400
AGL402 18 2 FA	2	4	0.9	1	1.2	0.9	1	1.4	1.1	1.5	10	IE2	3)	4)	6.6	4	9.5	55	5)	400
AGL402 19 2 FA	2	4	0.7	0.8	1.2	0.8	0.9	1.3	1	1.5	10	IE2	3)	4)	9	5.5	13	55	5)	400
AGL402 21 2 FA	2	4	0.7	0.8	1.1	0.7	0.9	1.3	0.9	1.5	10	IE2	3)	4)	11.8	7.5	17	55	5)	400
AGL402 19 3 FA	3	4	0.8	0.9	1.3	0.9	1	1.4	1.1	1.6	10	IE2	3)	4)	9	5.5	13	55	5)	400
AGL402 21 3 FA	3	4	0.7	0.9	1.2	0.8	0.9	1.4	1	1.6	10	IE2	3)	4)	11.8	7.5	17	55	5)	400
AGL402 22 3 FA	3	4	0.7	0.8	1.2	0.8	0.9	1.4	1	1.6	10	IE2	3)	4)	13.9	9.2	20	55	5)	400
AGL402 23 3 FA	3	4	0.7	0.8	1.2	0.7	0.9	1.4	1	1.6	10	IE2	3)	4)	15.9	11	23	55	5)	400

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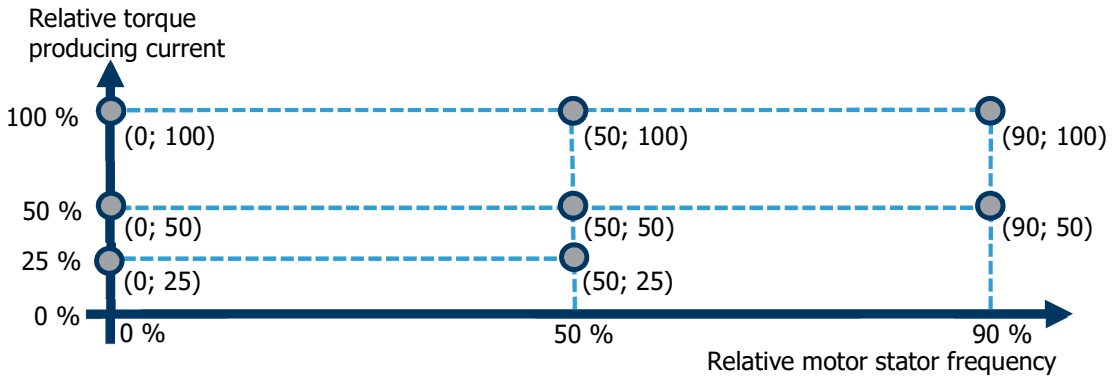

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Device 1)	Famr Size	f_{PWM} [kHz]	(0;25)	(0;50)	(0;100)	(50;25)	(50;50)	(50;100)	(90;50)	(90;100)	$P_{Loss\ Standby}$ [W]	IE class	Manufacturer	Model ID	S_{rated} [kVA]	P_{rated} [kW]	I_{rated} [A]	Max. T [°C]	f_{supply} [Hz] 5)	V_{supply} [V] 6)
AGL402 02 1 FC	1	4	3.6	3.6	3.7	3.6	3.6	3.8	3.7	3.9	10	IE2	3)	4)	0.55	0.25	0.8	55	5)	400
AGL402 03 1 FC	1	4	2.6	2.6	2.7	2.6	2.6	2.8	2.7	2.9	10	IE2	3)	4)	0.83	0.37	1.2	55	5)	400
AGL402 05 1 FC	1	4	2.2	2.2	2.3	2.2	2.2	2.4	2.3	2.5	10	IE2	3)	4)	1	0.55	1.5	55	5)	400
AGL402 07 1 FC	1	4	1.5	1.6	1.9	1.6	1.7	2	1.8	2.1	10	IE2	3)	4)	1.5	0.75	2.1	55	5)	400
AGL402 09 1 FC	1	4	1.2	1.3	1.6	1.2	1.4	1.7	1.4	1.8	10	IE2	3)	4)	2.1	1.1	3	55	5)	400
AGL402 11 1 FC	1	4	1	1.1	1.4	1	1.2	1.5	1.2	1.7	10	IE2	3)	4)	2.8	1.5	4	55	5)	400
AGL402 13 1 FC	1	4	0.9	1	1.4	1	1.1	1.5	1.2	1.6	10	IE2	3)	4)	3.8	2.2	5.5	55	5)	400
AGL402 15 2 FC	2	4	0.7	0.8	1	0.7	0.9	1.2	0.9	1.3	10	IE2	3)	4)	5.2	3	7.5	55	5)	400
AGL402 18 2 FC	2	4	0.7	0.8	1	0.7	0.8	1.1	0.9	1.3	10	IE2	3)	4)	6.6	4	9.5	55	5)	400
AGL402 19 2 FC	2	4	0.5	0.6	1	0.5	0.7	1.1	0.8	1.3	10	IE2	3)	4)	9	5.5	13	55	5)	400
AGL402 21 2 FC	2	4	0.5	0.6	0.9	0.5	0.6	1.1	0.7	1.3	10	IE2	3)	4)	11.8	7.5	17	55	5)	400
AGL402 19 3 FC	3	4	0.6	0.7	1.1	0.6	0.8	1.2	0.8	1.4	10	IE2	3)	4)	9	5.5	13	55	5)	400
AGL402 21 3 FC	3	4	0.5	0.7	1	0.6	0.7	1.2	0.8	1.3	10	IE2	3)	4)	11.8	7.5	17	55	5)	400
AGL402 22 3 FC	3	4	0.5	0.6	1	0.5	0.7	1.1	0.8	1.3	10	IE2	3)	4)	13.9	9.2	20	55	5)	400
AGL402 23 3 FC	3	4	0.5	0.6	1	0.5	0.7	1.1	0.8	1.4	10	IE2	3)	4)	15.9	11	23	55	5)	400

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