

BONFIGLIOLI'S PREMIUM FREQUENCY INVERTER SERIES



 **Bonfiglioli**

AXIAVERT

The Bonfiglioli AxiaVert series is designed to allow **great flexibility** and **top-level performance**, making it suitable for a **wide range of applications** in different sectors such as material handling, automated storage, packaging or textile.

Thanks to its **modular system**, the AxiaVert series offers **integrated Functional Safety**, optional **encoder evaluation** and open communication protocols complying with **Industry 4.0 standards**.

An **intuitive GUI** ensure the highest ease of use for commissioning and monitoring.

FEATURES AND BENEFITS



FLEXIBLE
COMMUNICATION
PROTOCOLS COMPLYING
WITH AUTOMATION AND
INDUSTRY 4.0 STANDARDS



WIDE RANGE OF
ADVANCED INTEGRATED
FUNCTIONAL SAFETY
CAPABILITIES



HIGH ACCURACY IN
SPEED, POSITION AND
TORQUE CONTROL WITH
OR WITHOUT ENCODER
FEEDBACK



WIDE RANGE OF OPTION
MODULES, IEC 61131-3 PLC
PROGRAMMING



INTEGRATED DEVICE AND
APPLICATION MONITORING



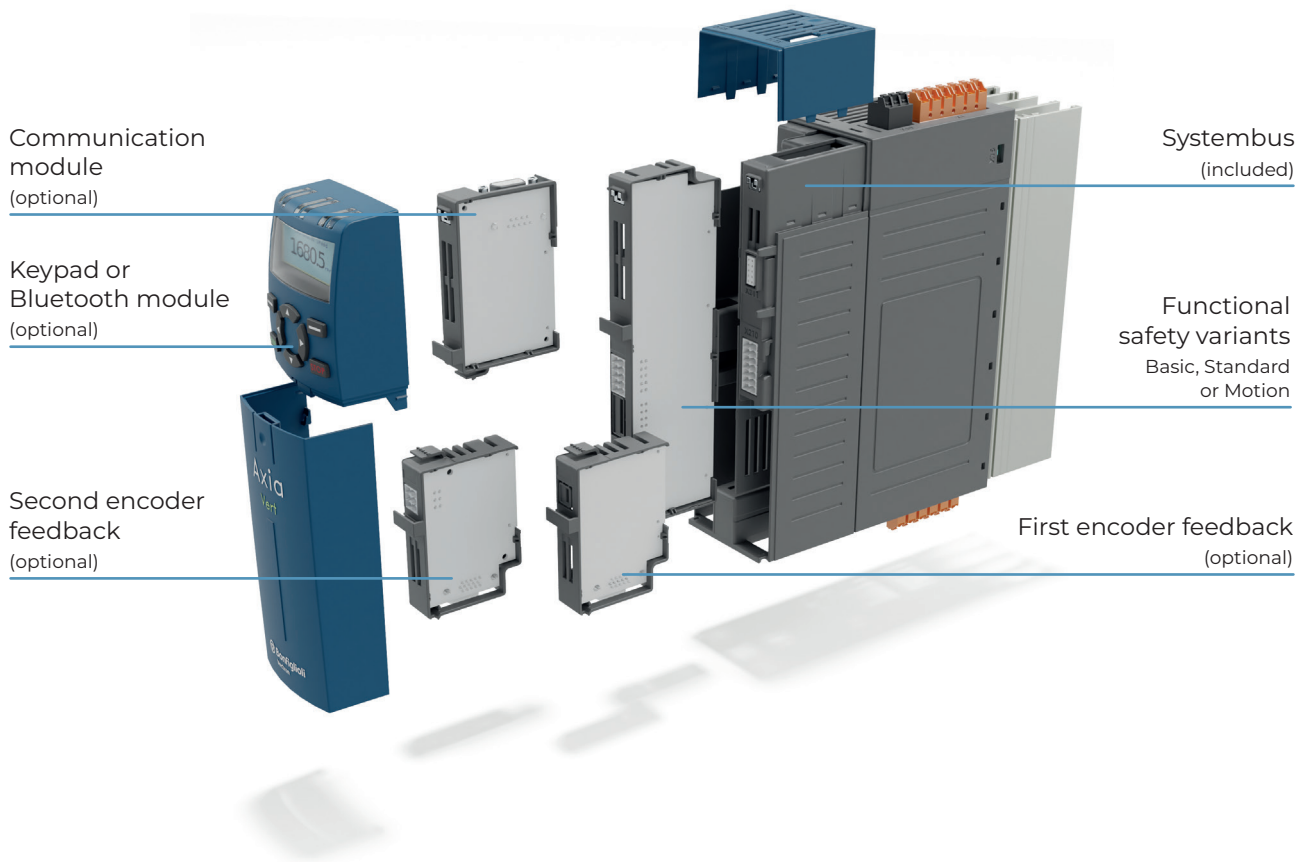
SUPPORTED CONTROL OF WIDE
RANGE OF MOTOR TYPES WITH
HIGH VALUE MOTION AND
CONTROL FEATURES



GRAPHICAL USER INTERFACE FOR
PC AND MOBILE DEVICES, WIRED
AND WIRELESS CONNECTIVITY (USB,
BLUETOOTH), GRAPHICAL KEYPAD

MODULARITY

Thanks to its modular structure, the system can be flexibly adapted to meet many different application requirements by selecting among the suitable hardware modules, variants and accessories



CONNECTIVITY

The advanced digital and open communication protocols complying with automation and Industry 4.0 standards allow a smooth integration into automation networks thanks to the compatibility with a wide range of fieldbus protocols and the possibility to extend the AxiaVert series with the OPC-UA protocol.

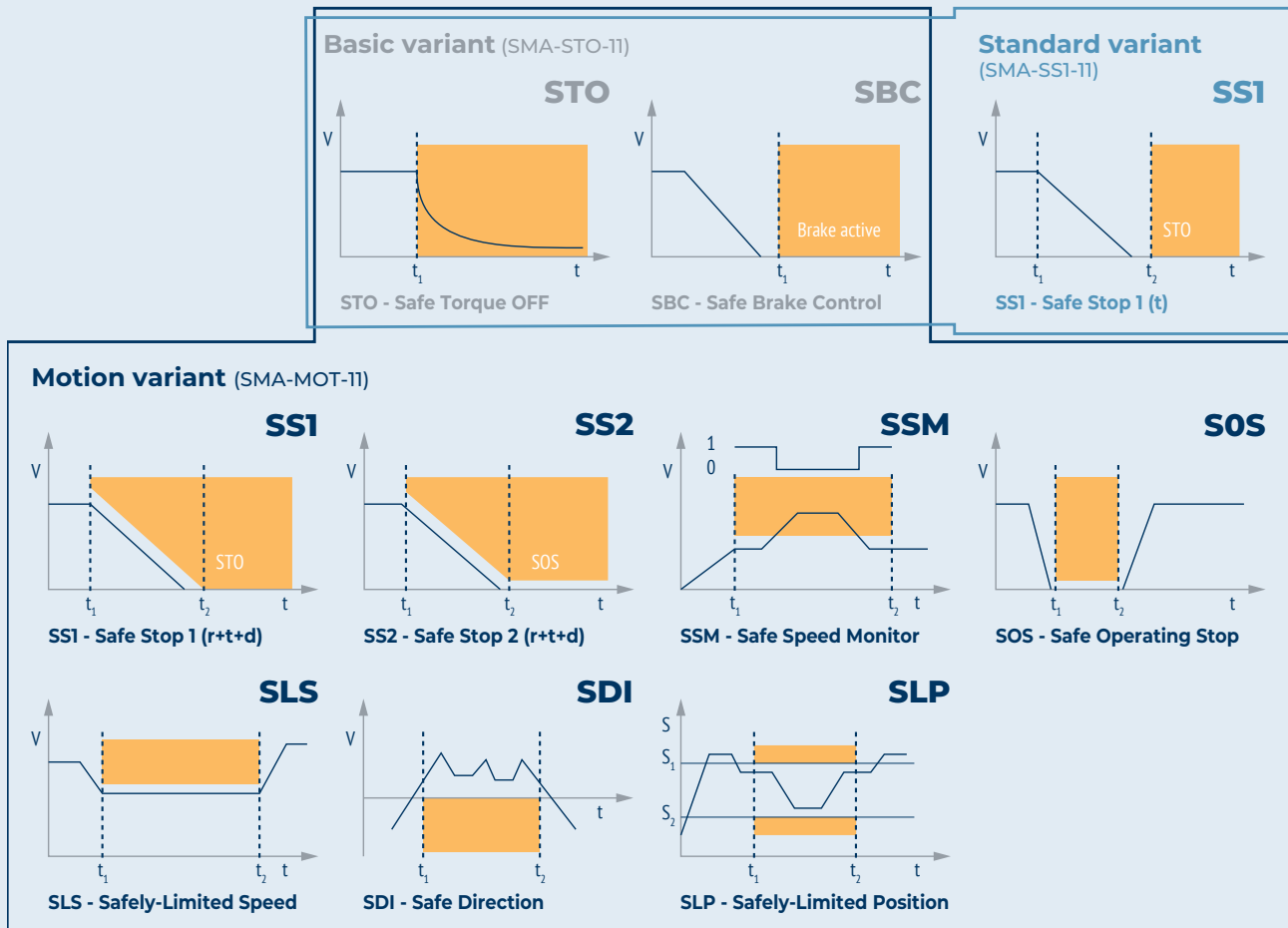


FUNCTIONAL SAFETY

The AxiaVert series offers integrated Functional Safety according to SIL 3 (EN 61508) and PL e (EN 13849-1), organized into different variants, which can be selected to best suit the application's requirements, optimizing price and performance to match the machine functions.

AXIAVERT FUNCTIONAL SAFETY VARIANTS

SAFETY OVER
EtherCAT®



The **Basic variant** (SMA-STO-11) includes Safe Torque Off (STO) and Safe Brake Control (SBC), while the **Standard variant** (SMA-SS1-11) introduces also SS1-t (Safe Stop 1 with time monitoring) reducing the necessity for an external Functional Safety switch.

The **Motion variant** (SMA-MOT-11) adds optional advanced Functional Safety features typically required in motion application according to ISO13849-1 PLe/Cat.4 and IEC61508 SIL3, product standard 61800-5-2.

Among these, the functions connected with speed SLS, SLS-SL and SSM are available both sensorless and in closed loop, with the possibility to dynamically set several different safe speed thresholds directly via safety fieldbus. These additional sensorless speed supervision features comply with SIL 2 (EN 61508) and PL d (EN 13849-1). The closed loop safety functionalities are made available with Hiperface DSL safety encoder.

The FSoE (Fail Safe over EtherCAT) included in the Motion variant allows, in combination with the EtherCAT communication module, the easy integration into Functional Safety communication environments.

The AxiaVert series also offers cost effective product configurations without any Functional Safety features.



We have a relentless commitment to excellence, innovation & sustainability. Our team creates, distributes and services world-class power transmission & drive solutions to keep the world in motion.

HEADQUARTERS

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