
AZ3

Extra-Low voltage servo drive for brushless motors

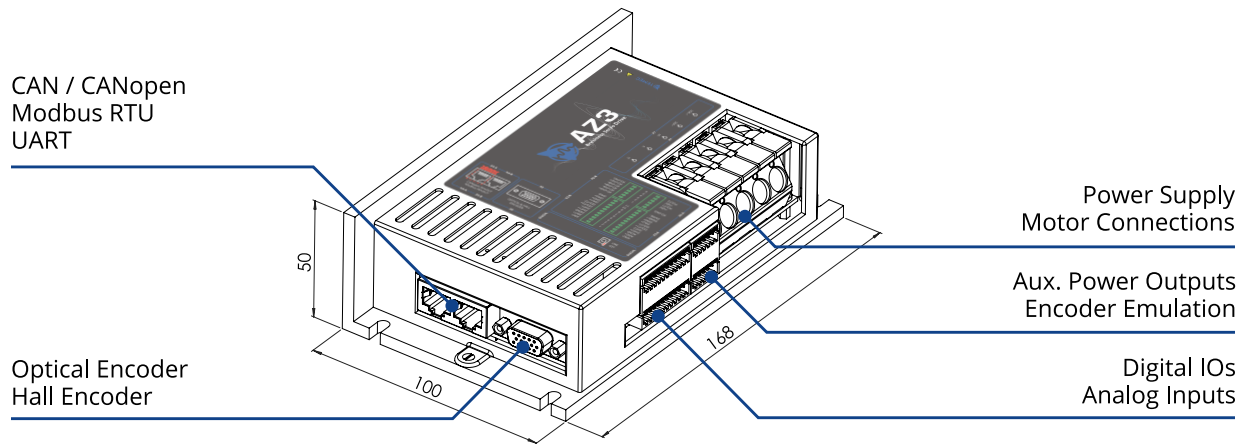


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A close-up photograph of the AZ3 servo drive unit. The unit is a rectangular metal enclosure with a black top cover. The top cover has "AZ3" printed on it. The front panel features a terminal block with several white plastic covers and a cooling fan on the left side. The unit is shown from a slightly elevated angle, highlighting its industrial design.

THE
ULTIMATE
ELECTRIC
DRIVE

- 24V DC to 60V DC power supply
- 30A nominal, 60A peak (5s)
- CANopen DS402, Modbus RTU (over RS485)
- Windows® based software interface
- Digital and analog inputs
- Power outputs for brake & braking resistors)



OVERVIEW

AZ3 is an extra-low voltage drive designed for the control of AC and DC brushless motors. The high versatility of this product is demonstrated by the various position feedbacks available (Hall, incremental encoders), the different kind of inputs (analog, digital and frequency) and outputs (digital, power PWM) and the communication interfaces (CAN, Modbus); furthermore it is available in both integrated and stand-alone versions. The drive can also operate with a secondary encoder input for direct axis control and can manage an electromechanical brake or a braking resistor without relay/contactors.

FULL SPECIFICATIONS

POWER STAGE

Supply voltage: 24 to 60 V DC	Output current: 30 A – 60 A peak (5s)	Technology: MOSFET integrated power module
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MOTOR TYPES

Brushless AC	Brushless DC	DC motor (*)
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POSITION FEEDBACKS

Incremental encoder	Hall switches (120°)	SSI absolute encoder (*)
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CONTROL

Control loops: torque current, speed and position	Control modes: digital inputs, analog input, DS402	DS402 modes: profile velocity, velocity mode (*), position profile (*)
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INPUTS

Digital: general purpose, high-frequency (x2)	Analog: 0-10V, ±10V, 4-20mA	Torque Disabling: 1 or 2 TD inputs
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OUTPUTS

Logic: configurable digital outputs (x2), emulated encoder	Power: braking resistor, electromechanical brake	Power outputs with PWM (Pulse Width Modulation) control
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ISOLATED COMMUNICATIONS

CAN / CANopen DS402	Modbus RTU (over RS485)	UART
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PC SOFTWARE

Parametrization: basic & advanced views	Diagnostics: virtual oscilloscope, monitor panels	Commands: remote command panel
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*Under Development