

AZ3 SERIES

AZ3 series are extra-low voltage drives designed for the control of AC/DC brushless motors and DC motors. The high versatility of these products are demonstrated by the various feedbacks available (sensorless, Hall sensors, incremental encoders, absolute encoders), the different kind of inputs (analog, digital and frequency) and outputs (digital, power PWM) and the communication interfaces (CAN, Modbus); furthermore they are available in both integrated and stand-alone versions. The drives can also control and can manage an electromechanical brake or a braking resistor without relay/contactor.

AZ3 INT



| | |
|---|---|
| Supply voltage: 24 V to 48 V DC | Output current: 7 A, 14 A peak (5s) @25 °C |
| Maximum output power: 325 W @25 °C | Motor type: Brushless AC, Brushless DC, DC motor |
| 1 Power Outputs, 2 Digital Outputs | Width (40 mm), Length (40 mm), Height (30 mm) |
| 2 Analog Inputs, 3 Digital Inputs, 2 HF inputs | Communications Protocol: CAN / CANopen, Modbus (RS458, UART) |

| | |
|------------------------------------|---|
| Supply voltage: 24 V to 48 V DC | Output current: 17 A, 25 A peak (5s) @25 °C |
| Max. output power: 800 W @25 °C | Motor Type: Brushless AC, Brushless DC, DC motor |
| 2 Power Outputs, 2 Digital Outputs | Width (63 mm), Length (100 mm), Height (37 mm) |
| 2 Analog Inputs 4 Digital Inputs | Communications Protocol: CAN / CANopen, Modbus (RS458, UART) |

AZ3 PLUS



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|--|---|
| Supply voltage: 24 V to 60 V DC | Output current: 30 A, 45 A peak (5s) @25 °C |
| Max. output power: 1800 W @25 °C | Motor Type: Brushless AC, Brushless DC, DC motor |
| 2 Power Output, 2 Digital Outputs | Width (74 mm), Length (107 mm), Height (22 mm) |
| 1 Analog Input, 4 Digital Inputs, 2 HF Inputs | Communications Protocol: CAN / CANopen, Modbus (RS458, UART) |

AZ3 PLUS 50

**READY IN
2023**

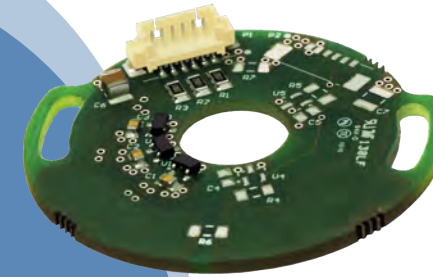
| | |
|--|---|
| Supply voltage: 24 V to 60 V DC | Maximum output power: 3000 W @25 °C |
| Output current: 50 A, 80 A peak (5s) @25 °C | Motor Type: Brushless AC, Brushless DC, DC motor |
| 2 Power Outputs, 2 Digital Outputs | Width (74 mm), Length (107 mm), Height (22 mm) |
| 1 Analog Input, 4 Digital Inputs, 2 HF Inputs | Communications Protocol: CAN / CANopen, Modbus (RS458, UART) |

| | |
|---|---|
| Supply voltage: 24 V to 60 V DC | Output current: 100 A, 120 A peak (5s) @25 °C |
| Maximum output power: 5000 W @25 °C | Motor type: Brushless AC, Brushless DC, DC motor |
| 2 Power Outputs, 2 Digital Outputs | Width (138 mm), Length (180 mm), Height (80 mm) |
| 2 Analog Inputs, 4 Digital Inputs, 2 HF inputs | Communications Protocol: CAN / CANopen, Modbus (RS458, UART) |

AZ3 HP

**READY IN
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AZ3s

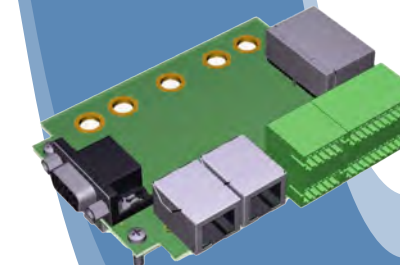


Optical Encoder

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|---|
| Supply voltage: 5 V to 24 V DC |
| Outputs: open collector + pull-up 6.2 kΩ |
| Max output current: 5 mA |
| Max output frequency: 1.5 kHz |
| Supply reverse polarity, output short-circuit |
| Channels: 2 channels at 90° (electrical) |

Hall Encoder

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|---|
| Supply voltage: 5 V to 12 V DC |
| Open collector + pull-up 2 kΩ |
| Max output current: 20 mA @ 12 V DC |
| Max output frequency: 0.4 kHz |
| Supply reverse polarity, output short-circuit |
| 3 channels at 120° + 2 channels at 90° (electrical) |



AZ Converter

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| USB to UART converter |
| Diagnostic LEDs |
| USB type-B connector |
| Works with AZ3 serie |

AZ3Plus-CN

Additional board for AZ3 Plus and AZ3 Plus - 50

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| Emulated encoder |
| EtherCAT* with dedicated connectors |
| Removable connectors for logic signals |
| RJ45 connector for CANopen and Modbus |
| DSUB15 for encoder signals |



The specifications carried in this catalogue are indicatives and not bindings, the manufacturer can introduce, without notice, any modification considered as necessary.

Tem Drive is a young and dynamic Company involved in the development of innovative and high-tech products for automation, particularly for the control of electric motors.

We offer a wide-spectrum of knowledges: from hardware to PC software, as being internally designed, make us able to adapt to customers' need and create competitive and custom made products.



TEM DRIVE

Drives



PRODUCTS RANGE

TEM ELECTRIC MOTORS SRL

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