



TEM
DRIVE

TEM DRIVE

Drives



PRODUCTS RANGE

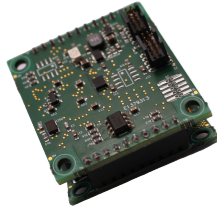


www.temdrive.com

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/contactors.

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



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

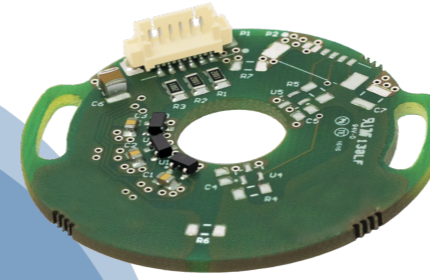
**READY IN
2023**

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)

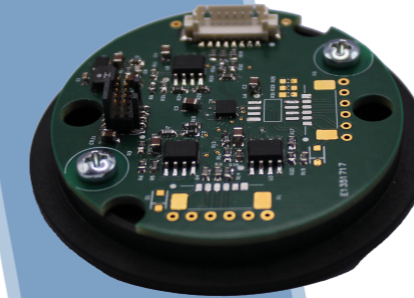
AZ3 HP

**READY IN
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Optical Encoder

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)



Magnetic Encoder

Supply voltage: 5 V to 24 V DC
Outputs: open collector + pull-up 6.2 kΩ
Supply reverse polarity, output short-circuit
Channels: A, B, Z, U, V, W
Max speed: 60000 rpm

AZ3Plus-CN

Additional board for AZ3 Plus and AZ3 Plus - 50

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

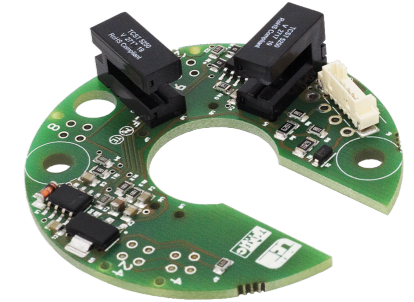


AZ Converter

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

Hall Encoder

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)



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 customs made products.

TEM ELECTRIC MOTORS SRL

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