Orientalmotor

For sales and support, email info@msitec.com or call 866-397-7388.

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Item # AZD3A-KED, 3-Axis AZ Series EtherCAT Controller / Driver (24/48 VDC)

αSTEP

The AlphaStep AZ Series multi-axis controller / driver supports EtherCAT communication. Compatible with the CiA402 drive profile. It can be connected to the AlphaStep AZ Series DC input motors and electric actuators.

- 3-axis

- Compatible with AlphaStep AZ Series DC input stepper motors and electric actuators

- For easier use download the ESI file

*Requires Multi-Axis Motor Connection Cables. (see applicable motor)

EtherCAT.

Specifications	—
Lead Time[1]	Contact your local sales office for product lead-times, available to ship dates and shipping methods.
Return Policy	This product cannot be cancelled or returned once the order has been processed.
Product Line	Oriental Motor®
Driver Type	Closed Loop, Absolute, Multi-Axis
Number of Axes	3-axis
Power Supply	24/48 VDC
Current	7.0 A When using a motor make sure that the average is 4.0 A max.

Control Power Supply	24 VDC
Control Current	1.5 A When using an electromagentic brake, use a 24 VDC ±5% power supply to electromagnetic brake. When using an electromagnetic brake with a 20 m (65.6 ft.) connection cable, us a 24 VDC ±4% power supply,
Degree of Protection	IP10
Operating Environment	Ambient Temperature: 0 to 50ºC (32 ~ 122ºF) (non-freezing) Humidity: 85% or less (non-condensing) Altitude: 1000 m (3280 ft.) max. above sea level Atmosphere: Use in an area without corrosive gases and dust. This product should not be exposed to water or oil.
Storage Condition	Ambient Temperature: -25 to 70ºC (-13 ~ 158ºF) (non-freezing) Humidity: 85% or less (non-condensing) Altitude: 3000 m (9842 ft.) max. above sea level Atmosphere: Use in an area without corrosive gases and dust. This product should not be exposed to water or oil.
Insulation Resistance	The measured value is 100 MΩ or more when a 500 VDC megger is applied between the following places: Between FG terminal and Power Supply terminal
Dielectric Strength	Sufficient to withstand the following for 1 minute: Between FG terminal and Power Supply terminal 1 kVAC 50/60 Hz Leakage current 10 mA max.

EtherCAT Specifications −

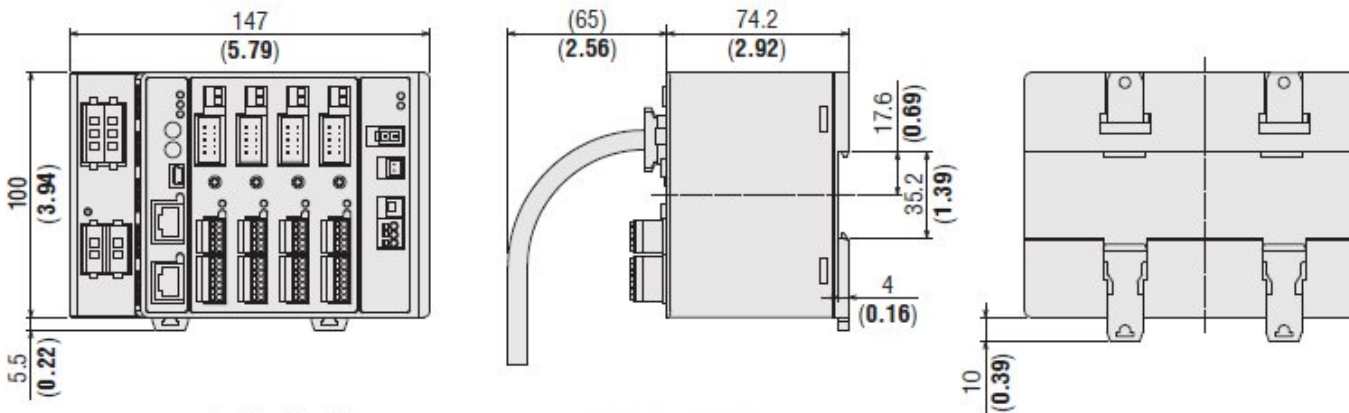|	
Baud Rate	100MBps
Communication Period	0.5ms/1ms/2ms/3ms/4ms/5ms/6ms/7ms/8ms
Node Address	0~255 (00h~FFh, initial value:00h)
Communication Protocol	EtherCAT dedicated protocol(CoE) CiA402 drive profile

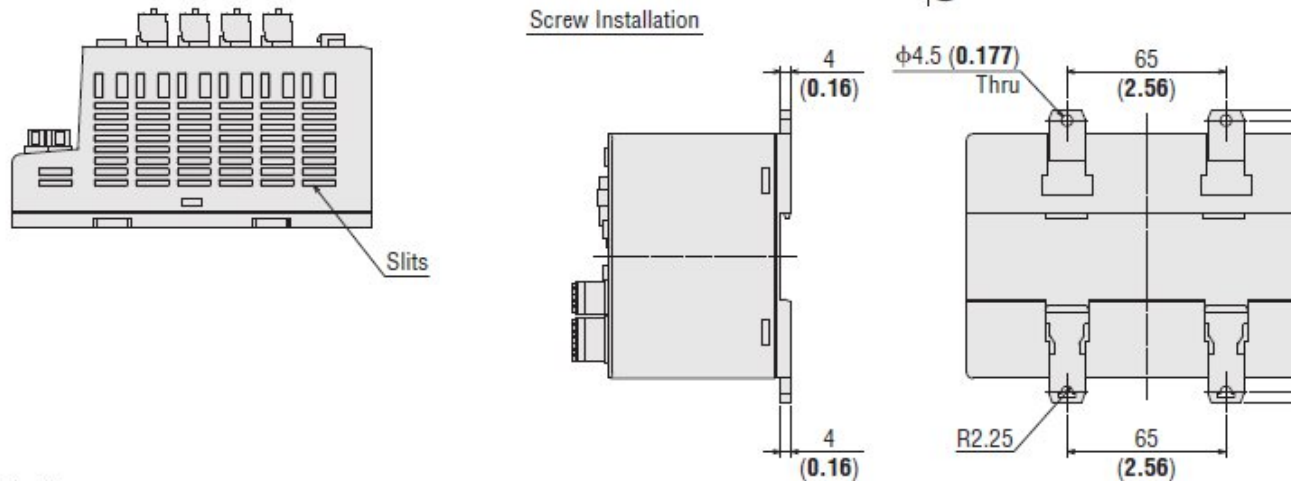# ■Dimensions Unit = mm (in.)

●Multi-Axis Driver `2D & 3D CAD`

Product Name	Mass kg (lb.)	2D CAD
AZD2A-KED	0.39 (0.86)	B1206
AZD3A-KED	0.42 (0.93)	B1207
AZD4A-KED	0.45 (0.99)	B1208

●Frame size is identical for 2-axes, 3-axes and 4-axes units.

DIN Installation

Screw Installation

Slits

●Included Items
  Main Power Supply Connector: F32FSS-03V-KX (JST)
  Control Power Supply Connector: F32FSS-02V-KX (JST)
  Contact for Main Power Supply Connector and Control Power Supply Connector: LF3F-41GF-P2.0 (JST)
  Input Signal Connector: FK-MC 0,5/ 5-ST-2,5 (PHOENIX CONTACT)
  Output Signal Connector: FK-MC 0,5/ 7-ST-2,5 (PHOENIX CONTACT)

■Product Number

●Multi-Axis Drivers

AZD 4A - K S3
① ② ③ ④

①	Driver Type	AZD: AZ Series [
②	Number of Axes	2B: 2 Axes 3A:
③	Power Supply Input	K: 24 VDC/48 VDC
④	Network Type	S3: SSCNETⅢ/H M3: MECHATROLI ED: EtherCAT Drive

●Connection Cable Sets / Flexible Connection Cable Sets for AZ Series Multi-Axis Drivers

◇Connection Cable Sets for Motor

CC 050 V Z □ F A
① ② ③ ④ ⑤ ⑥ ⑧

◇Connection Cable Sets for Electromagnetic Brake Motor

CC 050 V Z F B A
① ② ③ ④ ⑥ ⑦ ⑧

①		CC: Cable
②	Length	005: 0.5 m (1.6 ft.) 020: 2 m (6.6 ft.) 0 040: 4 m (13.1 ft.) (100: 10 m (32.8 ft.)
③	Reference Number	
④	Applicable Model	Z: For AZ Series
⑤	Reference Number	Blank: Frame Size 42 [HPG Geared 2: Frame Size 20 mm [Harmonic Geared
⑥	Cable Type	F: Connection Cable S R: Flexible Connectior
⑦	Description	B: For Electromagneti
⑧	Driver Type	A: For Multi-Axis Driv

System Configuration

For EtherCAT Drive Profile Compatible

Sample system configuration when combined with **AZ** Series DC Input Standard Type with Electromagnetic Brake.

Host Controller[1]

EtherCAT Master Controller

EtherCAT

Connection Cable Sets (Sold separately)

Connection Cable Sets for Electromagnetic Brake Dedicated for **AZ** Series DC Power Input Multi-Axis Driver

✳The connection cables are not included with the multi-axis driver. Provide them together with the multi-axis driver.

Power Supply Cable (Sold separately)

For **AZ** Series DC Power Input Multi-Axis Driver

Main Power Supply Cable   Control Power Supply Cable

24 VDC/48 VDC Power Supply[1]
(Main Power Supply)

Regeneratio

Support Software MEXE02

Computer[1]

24 VDC Power Supply for Control[1]

Programmable Controller[1]

✳1 Not supplied.
✳2 Cannot be used with 2-axis drivers.

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