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Item # AZD4A-KED, 4-Axis AZ Series EtherCAT Controller / Driver (24/48 VDC)



OLSTEP

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.

- 4-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)



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	4-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 50°C (32 ~ 122°F) (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 70°C (-13 ~ 158°F) (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 $100~\text{M}\Omega$ or more when a $500~\text{VDC}$ 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.)

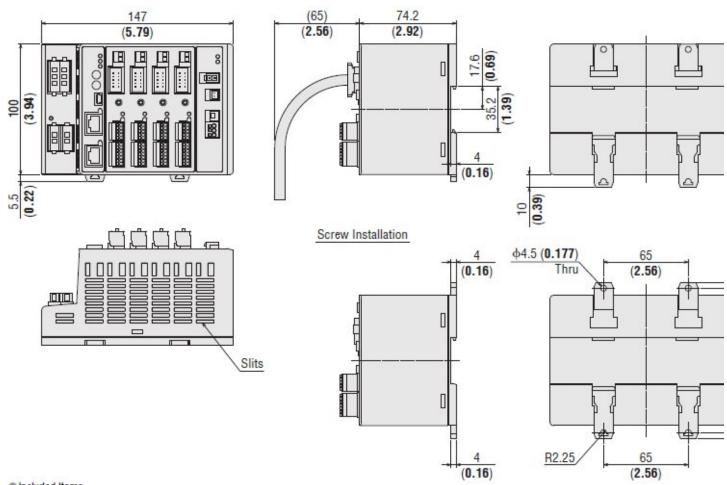
Multi-Axis Driver

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6-1-1	83				
W 4 * J	6.7	P.	15.0	1970	11.0

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



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 53

 ① Driver Type
 AZD: AZ Series I

 ② Number of Axes
 2B: 2 Axes 3A:

 ③ Power Supply Input
 K: 24 VDC/48 VDC

 Network Type
 \$3: SSCNETIII/H

 M3: MECHATROLII
 ED: EtherCAT Drive

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

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

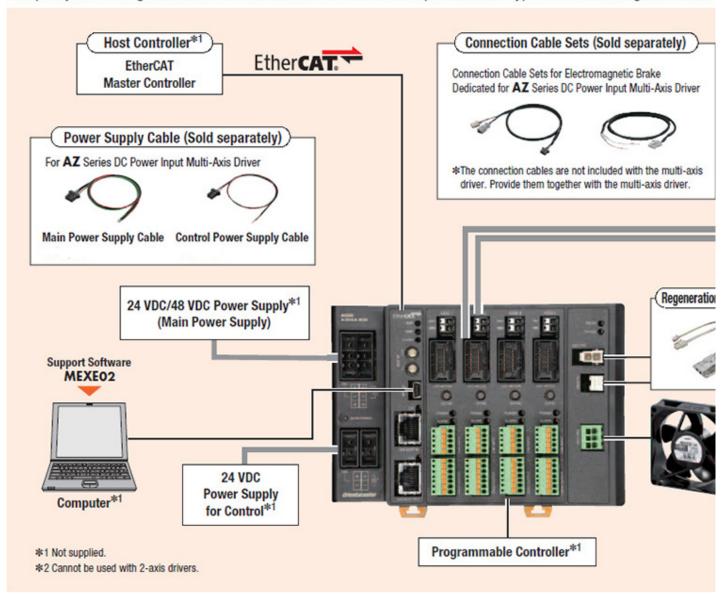
0 2 3 4 6 7 8

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 Connection
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.





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