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Item # AZD2B-KED, 2-Axis AZ Series EtherCAT Controller / Driver (24/48 VDC)



α_{step}

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.

2-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 | EtherCAT Specifications | Dimensions | Product Number | System

Spe	Specifications –					
	Lead Time ¹	Contact your local sales office for product lead-times, available to ship dates and shipping methods.				
	Product Line	Oriental Motor®				
	Driver Type	Closed Loop, Absolute, Multi-Axis				
	Number of Axes	2-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 \pm 5% power supply to electromagnetic brake. When using an electromagnetic brake with a 20 m (65.6 ft.) connection cable, us a 24 VDC \pm 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 M Ω 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

Dimensions Unit: mm (in.)

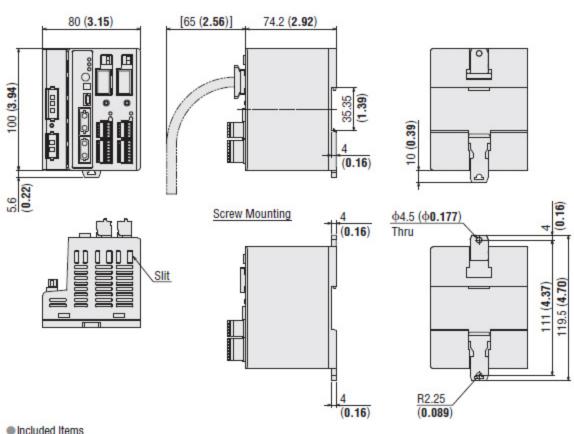
Multi-Axis Drivers

2D & 3D CAD

Network Type	SSCNETIII/H Compatible		MECHATROLINK-III Compatible		EtherCAT Compatible		Mass	
Number of Axes	Product Name	2D CAD	Product Name	2D CAD	Product Name	2D CAD	kg (lb.)	
2 Axes	AZD2B-KS3	B1519	AZD2B-KM3	B1520	AZD2B-KED	B1521	0.24 (0.53)	

Dimensions shows AZD2B-KS3. Dimensions and included items are common to all drivers in the table.

DIN Rail Mounting



Included Items

Main Power Connector: F32FSS-03V-KX (JST)

Control Power Connector: F32FSS-02V-KX (JST)

Contact for Main Power Connector & Control Power 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)

Connector Cap (SSCNET III/H-Compatible only)

Product Number

Product Number

Multi-Axis Drivers

AZD	4A	-	Κ	S3
1	2		3	4

0	Driver Type	AZD: AZ Series I
2	Number of Axes	2B: 2 Axes 3A:
3	Power Supply Input	K: 24 VDC/48 VDC
4	Network Type	S3: SSCNETIT/H M3: MECHATROLII 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

 $\diamondsuit Connection \ Cable \ Sets$ for Electromagnetic Brake Motor

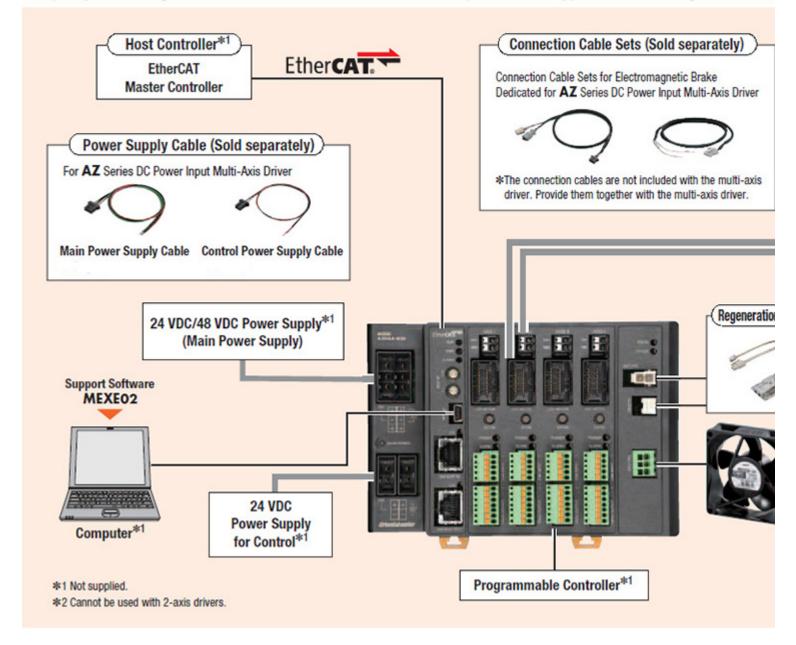
CC	050	V	Z	F	B	Α
1	2	3	4	6	0	8

0		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
0	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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