

ORIENTAL MOTOR Co.,Ltd.

Stepping Motor α STEP

AZ Series AC Power Input Driver

MECHATROLINK-III Compatible

Features

- MECHATROLINK-III compatible stepper driver can be connected.
- A motor based on a stepper motor that performs a unique hybrid control combining the benefits of open loop control and closed loop control.
- The motor is equipped with a battery-less multi-rotation absolute encoder. Various merits include operation without a battery, return-to-home or external sensors.
- Temperature and travel amount can be monitored in addition to basic information such as motor position, speed and load. This information can be used for monitoring status and predictive maintenance of machines.



αSTEP AZ Series

Specifications

Item		Specifications
MECHATROLINK communications	Protocol	MECHATROLINK-III
	Baud Rate	100Mbps
	Transmission cycle	0.5ms to 4.0ms (increments of 0.5ms)
	Communication cycle	0.5ms to 32ms (increments of 0.5ms)
	Node address	03h to EFh (initial value: 03h)
Command method (Operation function)		Interpolation feed (INTERPOLATE), Positioning (POSING), Constant-speed feed (FEED), Positioning at Constant-speed by external input (EX_FEED), Positioning by external input (EX_POSING), Return-to-home (ZRET)
Monitor		Command position, Command speed, Feedback position, Feedback speed, Alarm code, Status of driver
I/O signals	Input signal	Input: 4 points (Signal allocation can be changed) Forward drive prohibition Input (FW-BLK), Reverse drive prohibition Input (RV-BLK), Homing deceleration switch Input (DEC), Latch Input1 (EXT1)
	Output signal	Output: 3 points (Signal allocation can be changed) Alarm Output (ALM-B), Driver ready completed Output (READY), Motor operating Output (MOVE)
Power supply	Main power supply	Single-phase 100-120V -15 to +6% (50/60Hz) : 2.7~6.4A Single-phase 200-240V -15 to +6% (50/60Hz) : 1.6~3.9A Three-phase 200-240V -15 to +6% (50/60Hz) : 1.0~2.3A
	Control power supply	DC24V±5% Power supply current capacity : 0.25A (0.5A for motor with electromagnetic brake.)
Operating ambient temperature and humidity		Ambient temperature : 0 to+55°C (+32 to +131°F) (non-freezing) Humidity : 85% or less (non-condensing)

MECHATROLINK specifications

M-III	
Profile	Standard Stepping Motor Drivers
	Standard servo
Data size	32byte, 48byte
Transmission cycle	0.5ms to 4ms (increments of 0.5ms)

Contact Information

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