

Driver for AC Servomotors (EA Series)

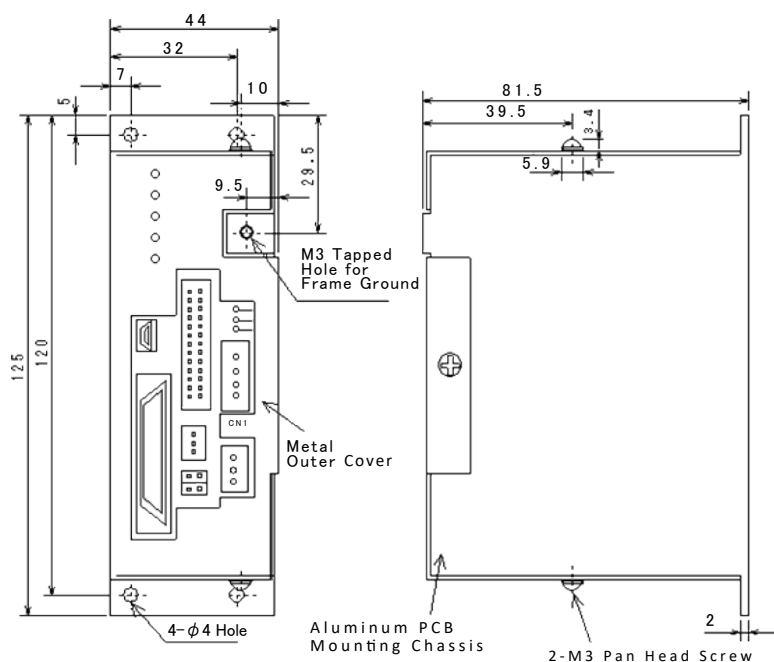


EAD-18C for Open Collector
EAD-18D for Line Driver

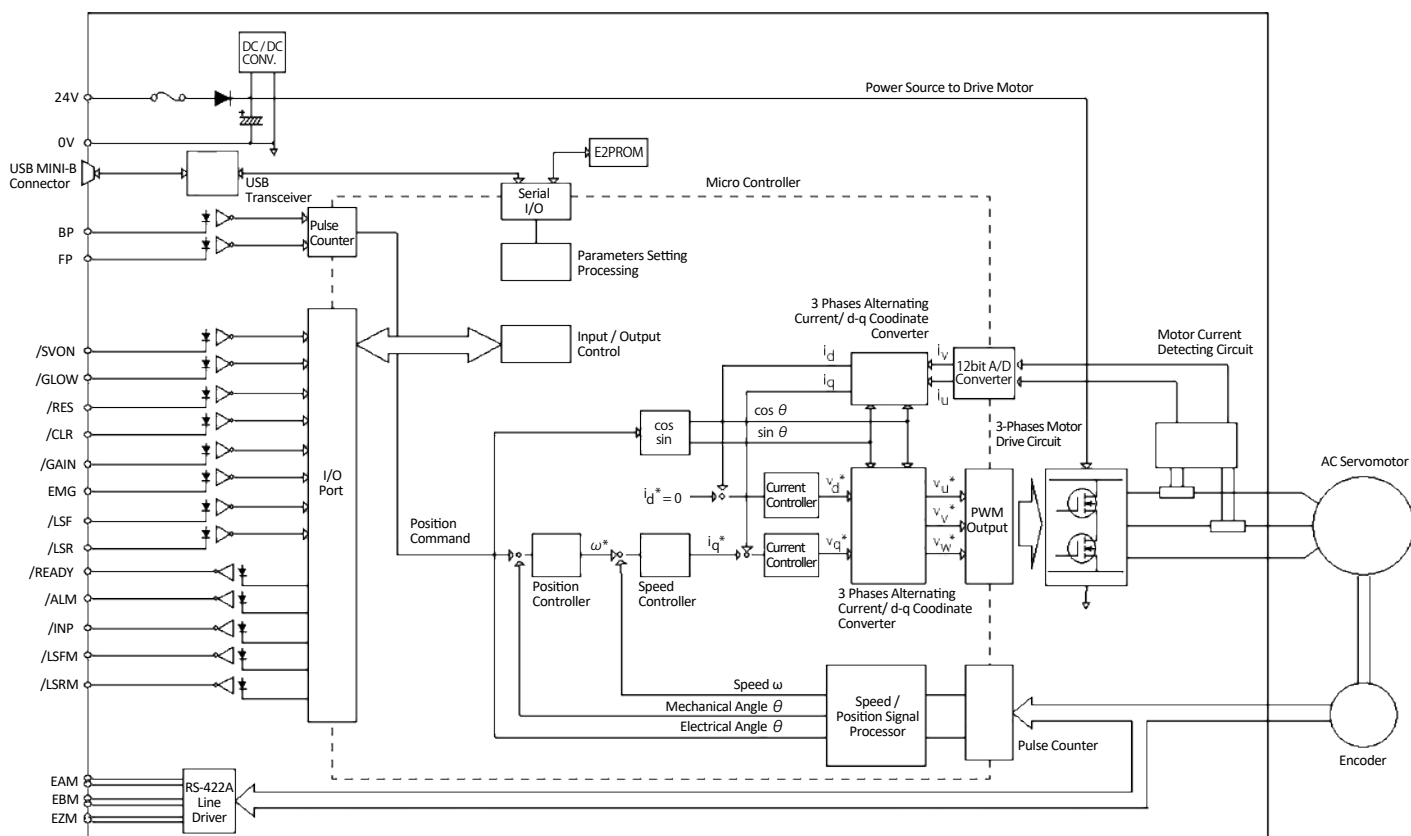
Features

- This is 3-phases sine wave PWM driver
- This is a driver exclusive for Citizen Chiba Precision's Miniaturized AC Servomotor
- It is downsized by adopting digital servo control which uses CPU
- DC24V single power source (Built-in control power source)

Outside Configuration & Install Dimension (Unit: mm)



Circuit Drawing



Specifications

The last 3 digits, 012, of the model number is for EA-17 / EA-21 Series, and 030 is for EA-25 / EA-30 Series

Specifications

Model	EAD-18C (D)-012	EAD-18C (D)-030
Input Power Supply	DC24V	
Continuous Rated Output Current	1.2Arms	3.0Arms
Maximum Rated Output Current	2.1Arms	10.0Arms
Driving System	3-Phases Sine Wave PWM	
Control System	Position Control	
Encoder Type	Open Collector or Line Driver	
Encoder Input	ϕA , ϕB , ϕZ	
Hall Sensor	ϕU , ϕV , ϕW (Hall IC)	*Line Driver Input is possible
Limit Sensor	CW Prohibited / CCW Prohibited	
Maximum Input Frequency	600kHz	Note* 2
Positioning Accuracy	± 1 pulse by encoder resolution	
Multiplication Function of Encoder	$\times 4$ multiplication function	
Command Multiplication Function	$\times 1$ multiplication function	
ϕZ Output Logic	ϕZ Output Logic can be changed	
Operating Temperature/ Humidity	0~50°C / Below 80% RH without condensation	
Storage Temperature/ Humidity	-20~80°C / Below 80% RH without condensation	
Outside Dimension	125×44×81.5 (Maximum dimension including connector)	
Accessories	Connectors for Input / Output	

Note* 1 : Another circuit board is required for Line Driver (to mount on the driver)

Note* 2 : Input frequency is determined by number of pulses of encoder and rated speed of motor

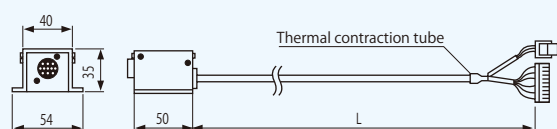
Options

If some distance between the motor and the driver is required, a line driver cable which improves noise immunity is available.

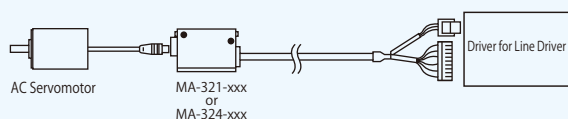
Note : Please select the line driver type for the driver side also. If you need to change from the Open Collector Type to the Line Driver Type, please contact us and return it. The change will be arranged at the customer's expense.

● Extension Cable with Line Driver (Driver Direct Connection Type)

- For EAD -18D - 012
MA-321-030 (L=3m)
MA-321-050 (L=5m)
MA-321-100 (L=10m)
- For EAD -18D - 030
MA-324-030 (L=3m)
MA-324-050 (L=5m)
MA-324-100 (L=10m)

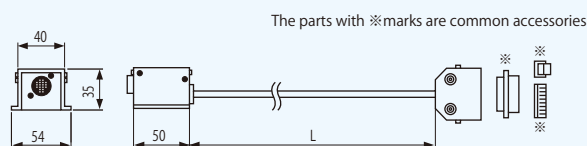


■ Reference Drawing of Combination



● Extension Cable with Line Driver (Driver Indirect Connection Type) (It is used such as when the driver is used by putting in a case. It cannot be directly connected to the driver.)

- For EAD -18D - 012
MA-322-030 (L=3m)
MA-322-050 (L=5m)
MA-322-100 (L=10m)
- For EAD -18D - 030
MA-3210-030 (L=3m)
MA-3210-050 (L=5m)
MA-3210-100 (L=10m)



■ Reference Drawing of Combination

