

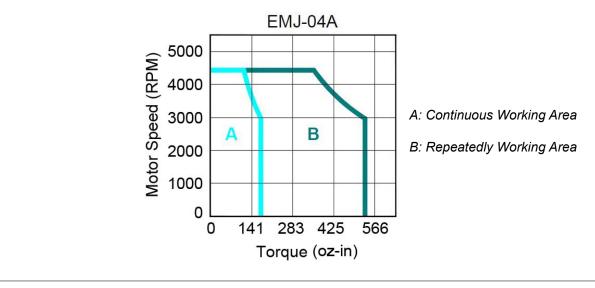
# EMJ-04 Series Servo Motor

- Rated Torque of 180 oz-in
- Medium Inertia to Maximize Torque
- Peak Torque up to 300% of Rated Torque
- Peak Current up to 300% of Rated Current
- No Load Speed of up to 4,500 RPM
- 2,500 CPR Incremental Encoder Attached
- Enclosed and Self-Cooled
- Power Rating up to 400 Watts
- Optional Brake Available
- Long Life and Highly Reliable
- Neodymium-Iron-Boron Magnets (NdFeB)
- Class F Insulation
- CE Certified



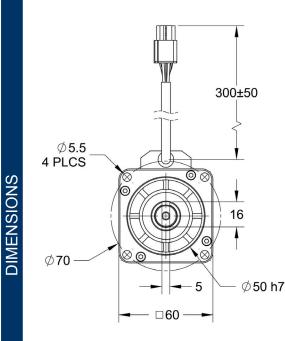
Anaheim Automation's Digital AC Servo Motors offer a simple solution to servo applications involving speed and positioning control. The AC EMJ-04 Servo Motor comes standard with a 2,500 Pulses Per Revolution (PPR) Incremental Encoder, runs at a maximum speed of 4,500 RPM, provides peak values up to 300% of the rated torque and current values, and has a rated torque of 180 oz-in with a 400 Watt power rating. These enclosed and self-cooled motors also provide longer motor life and higher reliability. The EMJ-04 AC Servo Motors enable industrial motion control applications with medium inertia to attain a great combination of speed and positioning functionaliity.

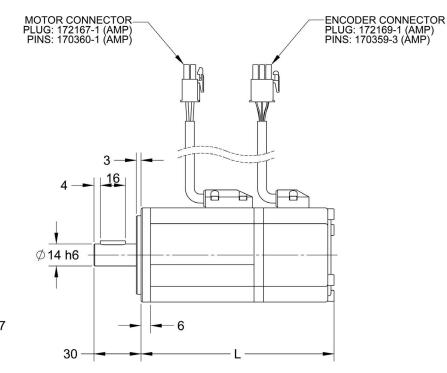
2	Model #	Rated Torque (oz-in)	Rated Power (Watts)		Max Speed (RPM)	Rated Current (A rms)	Max Current (A rms)	Brake (24VDC)	Inertia (oz-in- sec²)	Electric Time Constant T <sub>E</sub> (ms)	Back EMF Voltage K <sub>e</sub> (V/krpm)	Torque Constant K <sub>⊤</sub> (oz-in/A)	Resistance (ohms)	Weight (lbs)
ロロの	EMJ- 04APB22	180	400	3000	4500	2.7	8.1	No	0.00439	2.979	31.63	79.9	4.7	5.52
	EMJ- 04APB24	180	400	3000	4500	2.7	8.1	Yes	0.00496	2.979	31.63	79.9	4.7	5.52



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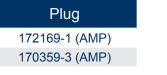


Note: All Dimensions in millimeters

Model #	L
EMJ-04APB22	131
EMJ-04APB24	171

Note: Part Number EMJ-04APB24 is with the brake option. The length of 'L' includes the motor body length + the length of the brake.

#### **Encoder Connector Specification:**



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	3	2	1
	6	5	4
	9	8	7
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Pin No.	Signal	Color
1	A+	BLUE
2	B+	GREEN
3	C+	YELLOW
4	A-	BLUE/BLACK
5	B-	GREEN/BLACK
6	C-	YELLOW/BLACK
7	PG 5V	RED
8	PG 0V	BLACK
9	FG	SHIELD



#### Motor Connector Specification:

172167-1 (AMP)
170360-1 (AMP)

nE	Eh
2	<b>[ 1</b> ]
4	3

Pin No.	Signal	Color
1	U	RED
2	V	BLUE
3	W	WHITE
4	FG	<b>GREEN/YELLOW</b>

## Brake Connector Specification:

Plug		Pin No.	Signal	Color
172165-1 (AMP)		1	B1	WHITE
170360-1 (AMP)	2	2	B2	BLUE

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WIRING DIAGRAM

Power Requirement: 220VAC	Vibration: 49 m/s <sup>2</sup>	Running Air Pressure: 86 to 106 kPa
Insulation Class: F	Ambient Temperature: 20% to 80% RH	Insulation Voltage Endurance: AC 1800C, 50Hz, 1 min
Ambient Temperature: 0°C to 40°C	Running Humidity: Not More Than 90%, Under 25°C	Insulation Impedance: Not Less Than 50M Under Normal Conditions
Running Temperature: -25°C to 40°C		

### Compatible Driver:

Part Number	Description
PRONET-E-04A	200W Servo Driver
ETS-1010APC-CAN	200W-1kW Servo Driver
ETS-101010APC-CAN	200W-1kW Servo Driver



## **Compatible Cables**

Part Number	Description	Compatible Drivers
PDM-JB18-05	Power Cable	
BMP-JB24-05	Encoder Cable	PRONET-E-04A
PRONET-PSC-CC24-02	Comm. Cable	
PDM-JB18-05	Power Cable	
BMP-JB24-05	Encoder Cable	ETS-1010APC-CAN ETS-101010APC-CAN
PSC-CC24-05	Comm. Cable	