DESCRIPTION

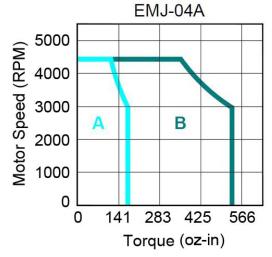


- Rated Torque of 180 oz-in
- Medium Inertia to Maximize Torque
- Peak Torque up to 300% of Rated Torque
- Peak Current up to 300% of Rated Current
- No Load Speed of up to 4,500 RPM
- 2,500 CPR Incremental Encoder Attached
- Enclosed and Self-Cooled
- Power Rating up to 400 Watts
- Optional Brake Available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



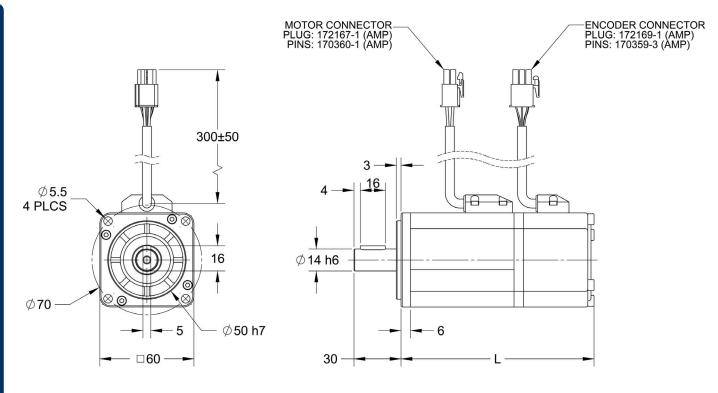
Anaheim Automation's Digital AC Servo Motors offer a simple solution to servo applications involving speed and positioning control. The AC EMJ-04 Servo Motor comes standard with a 2,500 Pulses Per Revolution (PPR) Incremental Encoder, runs at a maximum speed of 4,500 RPM, provides peak values up to 300% 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.

Model #	Rated Torque (oz-in)	Rated Power (Watts)	Rated Speed (RPM)	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>T</sub> (oz-in/A)	Resistance (ohms)	Weight (lbs)
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



- A: Continuous Working Area
- B: Repeatedly Working Area

L010976



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:**

Plug		
172169-1 (AMP)		
170359-3 (AMP)		



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:**

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



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

#### **Brake Connector Specification:**

Plug		
172165-1 (AMP)		
170360-1 (AMP)		



Pin No.	Signal	Color
1	B1	WHITE
2	B2	BLUE

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	Servo Driver



# **Compatible Cables**

Part Number	Description
PDM-JB18-05	Power Cable
BMP-JB24-05	Encoder Cable
PRONET-PSC-CC24-02	Comm. Cable

