

EMJ-02B Series Servo Motor



FEATURES

- **Rated Torque of 91 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 200 Watts**
- **Optional Brake Available**
- **Long Life and Highly Reliable**
- **Neodymium-Iron-Boron Magnets (NdFeB)**
- **Class F Insulation**
- **CE Certified**



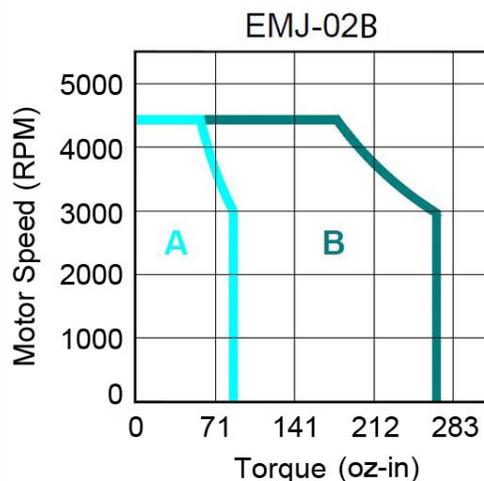
DESCRIPTION

Anaheim Automation's Digital AC Servo Motors offer a simple solution to servo applications involving speed and positioning control. The AC EMJ-02B 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 91 oz-in with a 200 Watt power rating. These enclosed and self-cooled motors also provide longer motor life and higher reliability. The EMJ-02B AC Servo Motors enable industrial motion control applications with medium inertia to attain a great combination of speed and positioning functionality.

SPECS

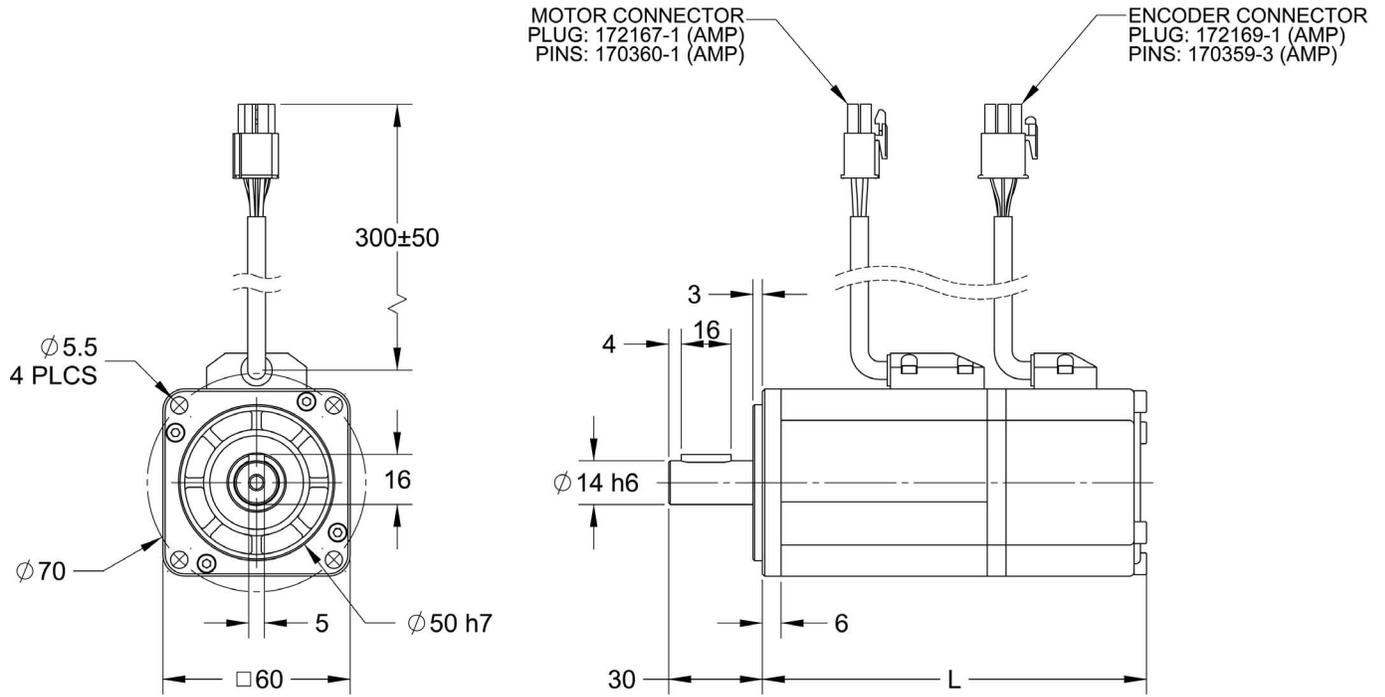
Model #	Rated Torque (oz-in)	Rated Power (Watts)	Rated Speed (RPM)	Max Speed (RPM)	Rated Current (A rms)	Max Current (A rms)	Brake (24VDC)	Inertia (oz-in-sec ²)	Electric Time Constant T _E (ms)	Back EMF Voltage K _E (V/krpm)	Torque Constant K _T (oz-in/A)	Resistance (ohms)	Weight (lbs)
EMJ-02BPA22	91	200	3000	4500	2.7	8.1	No	0.00269	2.391	31.91	40.9	2.7	2.7
EMJ-02BPA24	91	200	3000	4500	2.7	8.1	Yes	0.00326	2.979	31.91	40.9	2.7	3.8

TORQUE CURVE



A: Continuous Working Area
B: Repeatedly Working Area

L011645



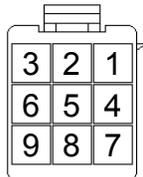
Model #	L
EMJ-02BPA22	111
EMJ-02BPA24	151

Note: All Dimensions in millimeters (mm)

Note: Part Number EMJ-02BPA24 is with the brake option. The length of 'L' includes the motor body length + the length of the brake.

Encoder Connector Specification:

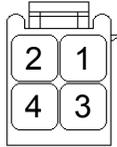
Plug
172169-1 (AMP)
170359-3 (AMP)



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: 120VAC	Vibration: 49 m/s ²	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-02B	Servo Driver



Compatible Cables:

Part Number	Description
PDM-JB18-05	Power Cable
BMP-JB24-05	Encoder Cable
PRONET-PSC-CC24-02	Comm. Cable
PRONET-USB-RS485	Comm. Cable

