

# EMJ-08 Series Servo Motor

## FEATURES

- **Medium Inertia**
- **Rated Torque of 338 oz-in**
- **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 PPR Incremental Encoder Attached**
- **Totally Enclosed, Self-Cooled**
- **Power Ratings up to 750 Watts**
- **Optional Brake and Oil Seal**
- **Long Life and Highly Reliable**
- **Neodymium-Iron-Boron Magnets (NdFeB)**
- **CE Certified**



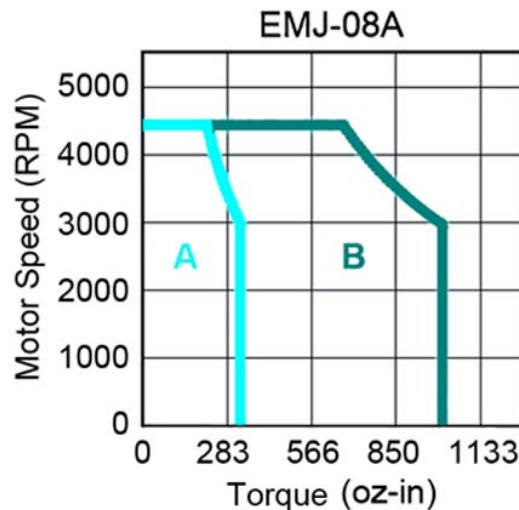
## DESCRIPTION

Anaheim Automation's Digital AC Servo Motors offer a simple solution to servo applications involving speed and positioning control. The AC EMJ-08 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 338 oz-in with a 750 Watt power rating. These enclosed and self-cooled motors also provide longer motor life and higher reliability. The EMJ-08 AC Servo Motors enable industrial motion control applications with medium inertia to attain a great combination of speed and positioning functionality.

## SPECS

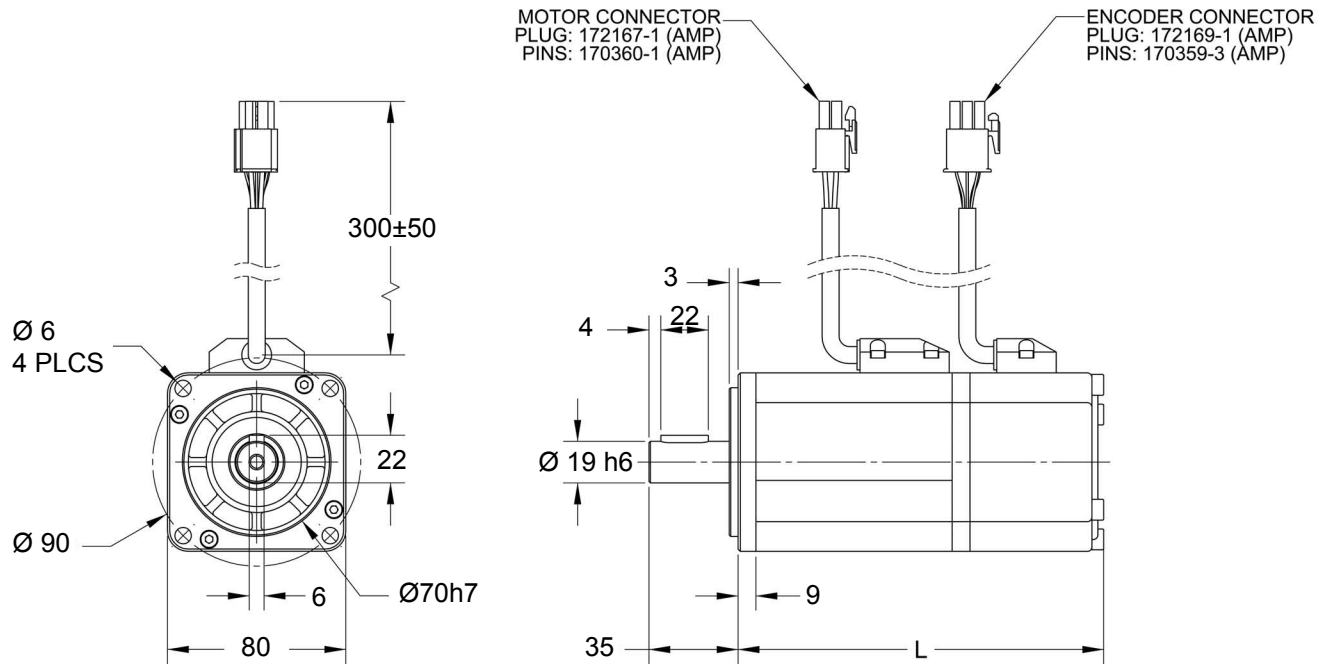
Model #	Rated Torque (oz-in)	Rated Power (Watts)	Rated Speed (rpm)	Max Speed (RPM)	Rated Current (A rms)	Max Current (A rms)	Brake (24VDC)	Inertia (oz-in-sec <sup>2</sup> )	Electric Time Constant T <sub>E</sub> (ms)	Back EMF Voltage K <sub>E</sub> (V/krpm)	Torque Constant K <sub>T</sub> (oz-in/A)	Resistance (ohms)	Weight (lbs)
EMJ-08APB22	338	750	3000	4500	4.0	12.0	No	0.0191	11.0	39.0	86.8	2.0	7.72
EMJ-08APB24	338	750	3000	4500	4.0	12.0	Yes	0.0208	11.0	39.0	86.8	2.0	11.73

## TORQUE CURVE



A: Continuous Working Area  
 B: Repeatedly Working Area

L010735



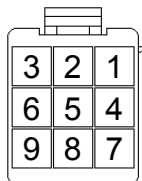
Model #	L
EMJ-08APB22	138
EMJ-08APB24	181

Note: All Dimensions in millimeters (mm)

Note: Part Number EMJ-08APB24 is with the brake option. The length of 'L' includes the motor body length + the length of the brake.

**Encoder Connector Specification:**

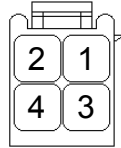
Plug
172169-1 (AMP)
170359-3 (AMP)



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:

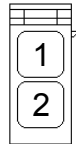
Plug
172167-1 (AMP)
170360-1 (AMP)



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 Drivers

Part Number	Description
PRONET-E-08A	Servo Driver
ETS-1010APC-CAN	Servo Driver
ETS-101010APC-CAN	Servo Driver



### Compatible Cables

Part Number	Description	Compatible Drivers
PDM-JB18-05	Power Cable	ETS-1010APC-CAN ETS-101010APC-CAN
BMP-JB24-05	Encoder Cable	
PSC-CC24-05	Comm. Cable	PRONET-E-08A
PDM-JB18-05	Power Cable	
BMP-JB24-05	Encoder Cable	
PRONET-PSC-CC24-02	Comm. Cable	

