

# EMJ Model

## Features

- Medium inertia
- Peak torque up to 300% of rated torque
- Various models (0.2kW~1.0kW, with brake, etc.)
- Run at speed of up to 4500r/min
- Mounted 17 bits incremental / absolute encoder, Optional mounted wire-saving incremental encoder (2500P/R)

## Application

- SMM (surface mounting machine)
- Pcb puncher machine
- Robot arm
- Handling machinery
- Foodstuff processing machinery
- Textile machinery



## Specification Description

# EMJ - 08 A D B 1 1 -WR

EMJ Model Servo Motor      Rated Output Power      Power Voltage      Encoder      Designing Sequence      Shaft End      Option Parts      Connector

Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	
02	0.2kW	A	200VAC	D	Incremental Encoder; 131072P/R	A, B	Designing Sequence	1	Flat, Without Keys (Standard)	1	None		Standard Connector	
04	0.4kW			S	Absolute Encoder; 131072P/R				2	Flat, With Keys, With Screw Thread	2	With Oil Seal	-WR	Waterproof Connector
08	0.75kW			R	Resolver						3	With Brake (DC24V)		
10	1.0kW			P	Incremental Wire-saving Type; 2500P/R						4	With Oil Seal, With Brake (DC24V)		

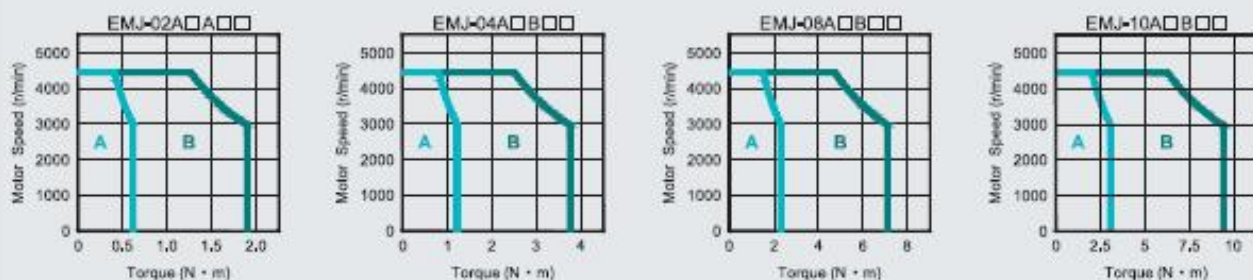
Notes: There is no brake in EMJ-□□AD□□□ servo motor.

## Rated Value and Specification

Voltage		200VAC			
Servo Motor Model	EMJ-	02A□A□□	04A□B□□	08A□B□□	10A□B□□
Rated Output Power	kW	0.2	0.4	0.75	1.0
Rated Torque	N.m	0.64	1.27	2.39	3.18
Instantaneous Peak Torque	N.m	1.91	3.82	7.16	9.55
Rated Current	Arms	1.4	2.8	4.0	5.3
Instantaneous Max Current	Arms	4.2	8.4	12.0	15.9
Rated Speed	r/min	3000			
Max. Speed	r/min	4500			
Rotor Moment of Inertia	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	0.19 (0.23)	0.31 (0.35)	1.36 (1.47)	1.74 (1.87)
Brake Rated Voltage		DC24V $\pm$ 10%			
Brake Rated Power	W	7.2		11.5	
Brake Holding Torque	N.m	1.3		3.2	
Encoder	Standard	Incremental Encoder: 131072P/R			
	Options	Absolute Encoder: 131072P/R Wire-saving Incremental Encoder (2500P/R)			
Insulation Class		F			
Ambient Temperature		0 to +40°C (no freezing)			
Ambient Humidity		20 to 80% RH (non-condensing)			
Vibration		49m/s <sup>2</sup>			
Enclosure		Totally Enclosed, Self-cooled, IP65 (Except for shaft opening, when not equipped with oil seal; Except for connectors, when not equipped with waterproof connectors.)			

(Note) The values in parentheses are for servo motors with holding brakes.

## Torque-Speed Feature



A: Continuous Working Area B: Repeatedly Working Area