

# Servo Motor Specification

## EMJ Model

### Features

- Medium Inertia
- Peak torque up to 300% of rated torque
- Various models (0.05kW~1.0kW, with brake, etc.)
- Speed up to 4500r/min
- Mounted with 17/20bits incremental/absolute encoder, wire-saving incremental encoder (2500P/H) is optional

### Application

- SMM (surface mounting machine)
- PCB punch machine
- Robot arm
- Handling machinery
- Textile machinery



### Specification Description

# EMJ-08 A P 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.
A5	0.05kW	A	200VAC	D	Incremental Encoder: 131072P/R	A,D	Designing Sequence H	1	Flat, Without Keys	1	None		Standard Connector
01	0.1kW	D	100VAC	F	Incremental Encoder: 1048576P/R			2	Flat, With Keys, With Screw Thread	2	With Oil Seal	WR	Water proof Connector Incremental (Wire-saving) Type: 2500P/R
02	0.2kW			S	Absolute Encoder: 131072P/R			3		3	With Brake (DC24V)		
04	0.4kW			P	Incremental Wire-saving type: 2500P/H			4		4	With Oil Seal, With Brake (DC24V)		
08	0.75kW												
10	1.0kW												

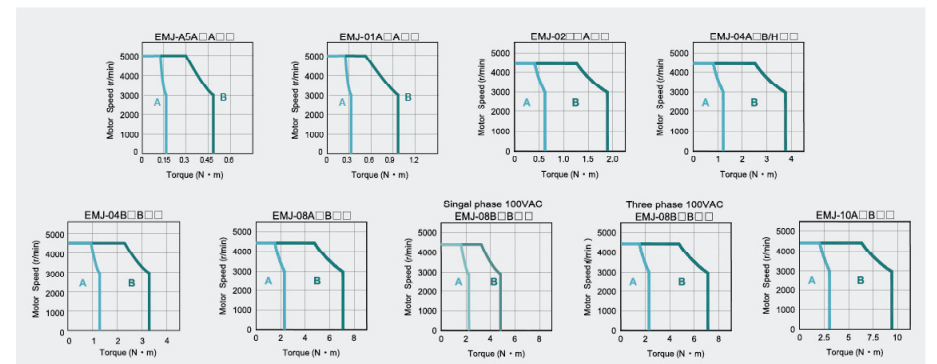
Notes: ① EMJ-A5/01□□□□□ and EMJ-□□□□/F/S□□ support water proof connector default.  
 ② EMJ-04/08/10A□□□□□-UL have completed UL1004-6. File NO. is E365853.

### Rated Value and Specification

Voltage		100VAC/200VAC										
Servo Motor Model	EMJ-	A5□□□□	01A□□□□	02A□□□□	02B□□□□	04A□□□□	04A□□H□□	04B□□□□	08A□□□□	08B□□□□	10A□□□□	
Rated Output Power	kW	0.05	0.1	0.2	0.4			0.75		1.0		
Rated Torque	N·m	0.16	0.32	0.64	1.27			2.39		3.18		
Instantaneous Peak Torque	N·m	0.48	0.96	1.91	3.82	3.82	3.26	7.16	7.16	9.55		
Rated Current	Arms	0.95	1.05	1.4	2.7	2.8	2.8	5.8	4.0	8.2	5.3	
Instantaneous Max Current	Arms	3.0	3.2	4.2	8.1	8.4	8.4	15.1	12.0	24.6	15.9	
Rated Speed	r/min	3000										
Max. Speed	r/min	5000				4500						
Rotor Moment of Inertia	×10 <sup>-4</sup> kg·m <sup>2</sup>	0.051 (0.052)	0.073 (0.074)	0.19 (0.23)		0.31 (0.35)	0.7 (0.74)	0.31 (0.35)	1.35 (1.47)		1.74 (1.87)	
Brake Rated Voltage		DC24V±10%										
Brake Rated Power	W	6.096				7.2			11.5			
Brake Holding Torque	N·m	0.3				1.3			3.2			
Encoder	Standard	Incremental Encoder: 131072P/R 1048576P/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 : ① The values in parentheses are for servo motors with holding brakes.  
 ② when power supply is single-phase, the instantaneous peak torque of EMJ-08□□B□□ is 4.78.

### Torque-Speed Feature



A: Continuous Working Area    B: Repeatedly Working Area