

# EMG Model

## Features

- Be used to drive the feed shaft of various machinery
- Various models (1.0kW~5.0kW, with brake, etc.)
- Mounted with 17/20bits incremental / absolute encoder, resolver or wire-saving incremental encoder (2500P/R) is optional
- Standard configuration is IP65

## Application

- Machine tools
- Handling machinery
- Food processing machinery
- Textile machinery



## Specification Description

**EMG-10 A D A 1 1**

EMG Model    Rated Output Power    Power Voltage    Encoder    Designing Sequence    Shaft End    Option Parts

Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.
10	1.0kW	A	200VAC	D	Incremental Encoder: 131072P/R	A,B	Designing Sequence	1	Flat, Without Keys	1	None
15	1.5kW	D	400VAC	F	Incremental Encoder: 1048576P/R			2	Flat, With Keys With Screw Thread	2	With Oil Seal
20	2.0kW			S	Absolute Encoder: 131072P/R			3	With Brake (DC24V)	3	With Brake (DC24V)
30	3.0kW			P	Incremental Wire-saving Type:2500P/R			4	With Oil Seal, With Brake (DC24V)	4	With Oil Seal, With Brake (DC24V)
50	5.0kW										

Notes: ① The EMG-30□□□□□, EMG-50□□□□□ servo motors don't provide the incremental encoder 131072P/R.  
 ② There is no brake in EMG-□□□□□□□ servo motor.  
 ③ EMG-10/15/20A□□□□□ UL have completed UL1004 6. File NO. is E365853.

## Rated Value and Specification

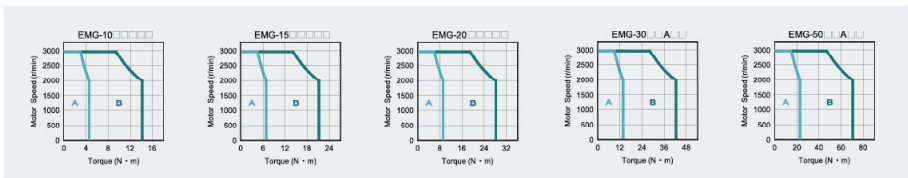
Voltage		200VAC / 400VAC										
Servo Motor Model	EMG-	10A□□□	10D□□□	15A□□□	15D□□□	20A□□□	20D□□□	30A□□□	30D□□□	50A□□□	50D□□□	
Rated Output Power	kW	1.0	1.0	1.5	1.5	2.0	2.0	3.0	3.0	5.0	5.0	
Rated Torque	N·m	4.78	4.78	7.16	7.16	9.55	9.55	14.3	14.3	23.9	23.9	
Instantaneous Peak Torque	N·m	14.3	14.3	21.5	21.5	28.7	28.7	43.0	43.0	71.6	71.6	
Rated Current	Arms	6.0	3.2	9.0	5.0	12.0	6.4	18.0	8.8	28.0	15.0	
Instantaneous Max. Current	Arms	18.0	9.6	27.0	15.0	36.0	19.2	54.0	26.4	84.0	45.0	
Rated Speed	r/min	2000										
Max. Speed	r/min	3000										
Rotor Moment of Inertia	x10 <sup>-4</sup> kg·m <sup>2</sup>	10.0 (10.6)		14.5 (15.1)		19.0 (19.6)		41.3 (44.5)		65.7 (68.9)		
Brake Rated Voltage		DC24V±10%										
Brake Rated Power	W	19						35				
Brake Holding Torque	N·m	10						40				
Encoder	Standard	Incremental Encoder: 131072P/R 1048576P/R						Absolute Encoder: 131072P/R				
	Options	Absolute Encoder: 131072P/R Wire-saving Incremental Encoder (2500P/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		24.5m/s <sup>2</sup>										
Enclosure		Totally Enclosed, Self-cooled, IP65 ( Except for shaft opening, when not equipped with oil seal. )										

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

Voltage		200VAC / 400VAC					
Servo Motor Model	EMG-	10A□B□□	10D□B□□	15A□B□□	15D□B□□	20A□B□□	20D□B□□
Rated Output Power	KW	1.0		1.5		2.0	
Rated Torque	N·m	4.78		7.16		9.55	
Instantaneous Peak Torque	N·m	14.3		21.5		28.7	
Rated Current	Arms	5.8	3.0	8.2	4.3	11.3	5.7
Instantaneous Max. Current	Arms	17.4	9.0	24.6	12.9	33.9	17.1
Rated Speed	r/min	2000					
Max. Speed	r/min	3000					
Rotor Moment of Inertia	$\times 10^{-4} \text{kg}\cdot\text{m}^2$	13.2(14.3)		18.4(19.5)		23.5(24.6)	
Brake Rated Voltage		DC24V $\pm$ 10%					
Brake Rated Power	W	19.5					
Brake Holding Torque	N·m	12					
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% HH (Non-condensing)					
Vibration		24.5m/s <sup>2</sup>					
Enclosure		Totally Enclosed, Self-cooled, IP65 ( Except for shaft opening, when not equipped with oil seal. )					

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

### Torque-Speed Feature



A: Continuous Working Area B: Repeatedly Working Area

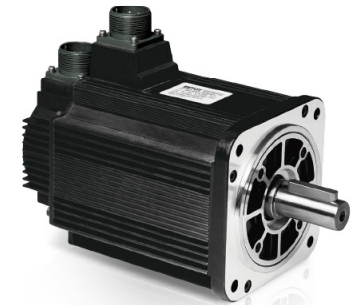
## EML Model Servo Motor

### Features

- Be used to drive the feed shaft of various machinery
- Various models (1.0kW~4.0kW, with brake, etc.)
- Mounted with 17/20bits incremental / absolute encoder, wire-saving incremental encoder (2500P/R) is optional
- Standard configuration is IP65

### Application

- Machine tools
- Handling machinery
- Food processing machinery
- Textile machinery



### Specification Description

**EML-10 A D A 1 1**

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

Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.	Sign	Spec.
10	1.0kW	A	200VAC	D	Incremental Encoder: 131072P/R	A,B	Designing Sequence	1	Flat, Without Keys	1	None
20	2.0kW	D	400VAC	F	Incremental Encoder: 1048576P/R			2	Flat, With Keys With Screw Thread	2	With Oil Seal
30	3.0kW			S	Absolute Encoder: 131072P/R					3	With Brake (DC24V)
40	4.0kW			P	Incremental Wire-saving Type: 2500P/R					4	With Oil Seal, With Brake (DC24V)

Notes: ① The EML-20□□□□□, EML-30□□□□□, EML-40□□□□□ servo motors are not mounted the incremental encoder 131072P/R.  
② There is no brake in the EML-10□□□□□ servo motor.