

Servo Motor Model Information

ECM-B3 Series Servo Motor

ECM - B3 M - C A 06 04 R B 1

Product Name
ECM:
Electronic
Commutation
Motor

Series
B3 series

Inertia
H: High inertia
M: Medium inertia
L: Low inertia
G: Ultra-High inertia

Rated Voltage and Speed
C: 220V/3,000 rpm
E: 220V/2,000 rpm
F: 220V/1,500 rpm
J: 400V/3,000 rpm
K: 400V/2,000 rpm
L: 400V/1,500 rpm

Encoder Type
A: 24-bit absolute optical encoder
Resolution of single turn: 24-bit
Resolution of multiple turns: 16-bit
B: 24-bit absolute magnetic/optical battery-less encoder
2: 24-bit incremental optical encoder
P: 17-bit absolute magnetic optical encoder
Resolution of single turn: 17-bit
Resolution of multiple turns: 16-bit
M: 17-bit incremental magnetic optical encoder

Motor Frame Size
04 : 40mm 06 : 60mm
08 : 80mm 10 : 100mm
13 : 130mm 18 : 180mm
22 : 220mm

Rated Power Output
01 : 100W 02 : 200W
04 : 400W 07 : 750W
08 : 850W 10 : 1kW
13 : 1.3kW 15 : 1.5kW
18 : 1.8kW 20 : 2kW
30 : 3kW 45 : 4.5kW
55 : 5.5kW 75 : 7.5kW
1B : 11kW 1F : 15kW

Type of Shaft and Oil Seal	w/o Brake with Oil Seal	with Brake with Oil Seal
Keyway (with fixed screw holes)	R	S

Shaft Diameter	40/60/80	100/130/180/220
B	IP67 Built-in connector. Standard shaft diameter	
S	Standard connector with wire + standard shaft diameter	Mil-spec connector + standard shaft diameter
7	Standard connector with wire + standard shaft diameter* * For F80 400W model	
3		Mil-spec connector + special shaft diameter (42 mm)*

*Shafts of special diameter are used for 400 W motors with the frame size of 80 mm

Special Code
1: Standard products

ECM-A3 Series Servo Motor

ECM - A3 H - C Y 06 04 R S 1

Product Name
ECM :
Electronic
Commutation
Motor

Series
A3 series

Inertia
H: High inertia
L: Low inertia

Rated Voltage and Speed
C : 220V/3,000rpm

Encoder Type
Y: 24-bit absolute optical encoder
Resolution of single turn: 24-bit
Resolution of multiple turns^{*1}:
1: 24-bit incremental optical encoder^{*2}
A: 24-bit absolute magnetic optical encoder
Resolution of single turn: 24-bit
Resolution of multiple turns^{*1}: 16-bit
2: 24-bit incremental magnetic optical encoder^{*2}

*1. Number of turns
*2. Can be used as a single-turn absolute encoder

Motor Frame Size
04 : 40mm 06 : 60mm
08 : 80mm

Rated Power Output
0F : 50W 01 : 100W
02 : 200W 04 : 400W
07 : 750W

Type of Shaft and Oil Seal	w/o Brake w/o Oil Seal	with Brake w/o Oil Seal	w/o Brake with Oil Seal	with Brake with Oil Seal
Round Shaft (with fixed screw)	-	-	C	D
Keyway (with fixed screw holes)	P*	Q*	R	S

*Not standing models

Shaft Diameter
S: Standard connector and standard shaft diameter
7: Standard connector and special shaft diameter (14 mm)*
J: IP67 waterproof connector and standard shaft diameter
K: IP67 waterproof connector and special shaft diameter (14 mm)*

*Shafts of special diameter are used for 400 W motors with the frame size of 80 mm

Special Code
1: Standard products
Z: Refer to the note for dimensions on page 49

Note: The model information is for reference only. Not all kinds of model permutations are available. Please contact the distributor near your region or Delta for the details.