



EM3J-08 is a high speed and medium inertia 750 W synchronous AC brushless servo motor. The motors can be equipped with 17-bit magnetic or 23-bit optical absolute encoder.

Independent electromagnetic design improve rotor rotation inertia. Inherit all the advantages of EM3A series, but with higher inertia. This high speed series offers a range of output power and different encoder types. Optional 24VDC brake is available.

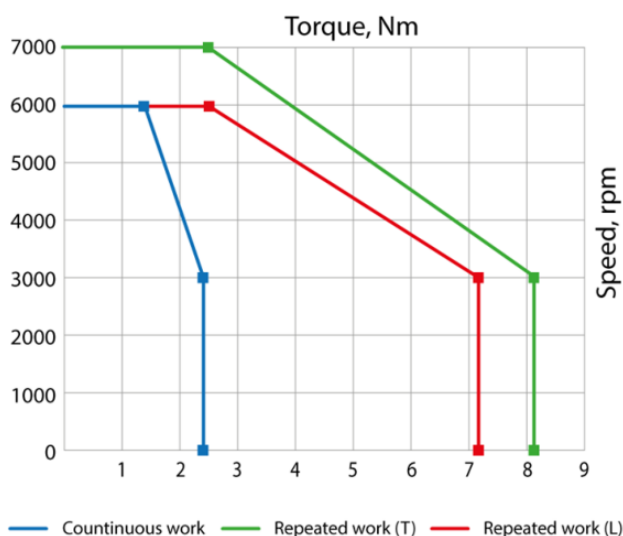
Technical data

Output power	750 W
Rated speed	3000 rpm
Maximum speed	6000 rpm
Rated torque	2.39 Nm
Maximum torque (for motor model EM3J-08ATA)	7.17 Nm
Maximum torque (for motor model EM3J-08ALA)	8.37 Nm
Rated current	5.1 A
Maximum current (for motor model EM3J-08ATA)	16.1 A
Maximum current (for motor model EM3J-08ALA)	19.5 A

Technical data

Motor inertia (motor without brake)	1.64 kg*cm ²
Motor inertia (motor with brake)	1.79 kg*cm ²
Allowable radial shaft load	392 N
Allowable axial shaft load	147 N
Optional brake holding torque	≥3.2 Nm
Optional brake voltage	24 VDC
Weight (motor without brake)	2.3 kg
Weight (motor with brake)	2.9 kg
Flange	80 mm

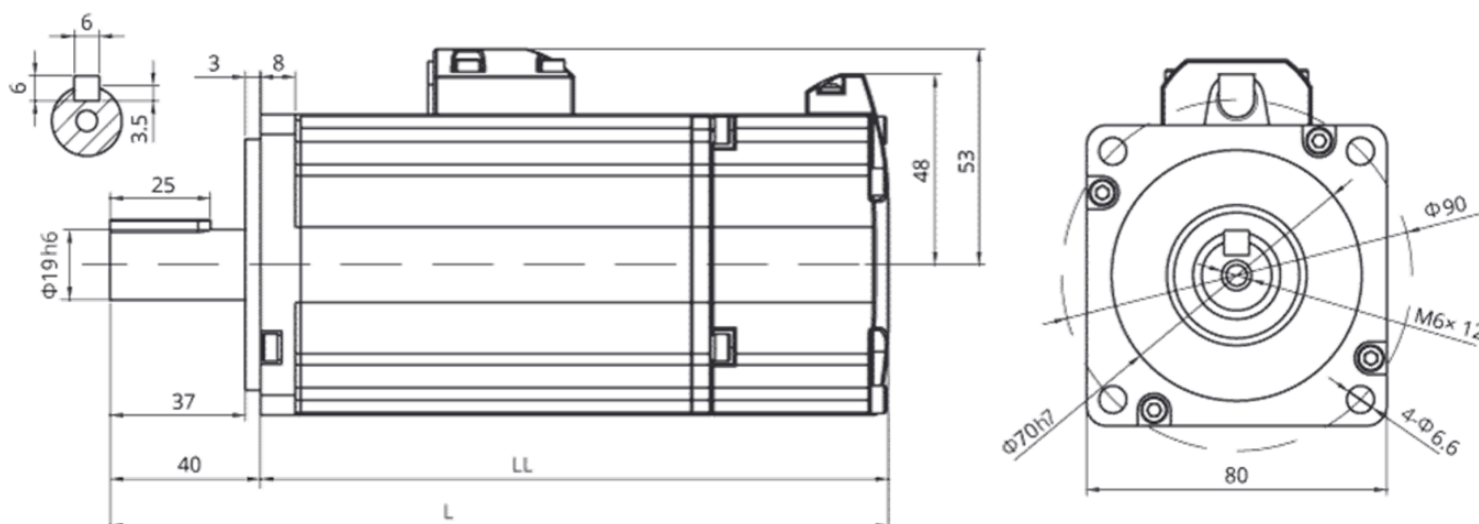
Speed-torque curves



Available motor models

Motor model	Encoder	Brake	Waterproof connector	Servo drive	Input drive supply voltage
EM3J-08ALA221	absolute optic encoder, resolution 23-bit (8 388 608 ppr)	-	-	ED3L-08AMA ED3L-08AEA ED3L-08APA	Single phase AC 200V...240V
EM3J-08ALA241		✓	-		
EM3J-08ALA222		-	✓		
EM3J-08ALA242		✓	✓		
EM3J-08ATA221	absolute magnetic encoder, resolution 17-bit (131 072 ppr)	-	-		
EM3J-08ATA241		✓	-		
EM3J-08ATA222		-	✓		
EM3J-08ATA242		✓	✓		

Dimensions of AC servo motor EM3J-08



Motor model	L, mm	LL, mm
EM3J-08ALA22x	142	102
EM3J-08ALA24x	175	135
EM3J-08ATA22x	159	119
EM3J-08ATA24x	192	152

