

BMH0702P11A2A

servo motor BMH - 2.5 Nm - 8000 rpm - keyed shaft
- without brake - IP54



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	8000 rpm
Continuous stall torque	2.5 N.m for LXM32.D12N4 3 A at 400 V three phase 2.5 N.m for LXM32.D12N4 3 A at 480 V three phase
Peak stall torque	7.4 N.m for LXM32.D12N4 3 A at 400 V three phase 7.4 N.m for LXM32.D12N4 3 A at 480 V three phase
Nominal output power	700 W for LXM32.D12N4 3 A at 400 V three phase 700 W for LXM32.D12N4 3 A at 480 V three phase
Nominal torque	2.2 N.m for LXM32.D12N4 3 A at 400 V three phase 2.2 N.m for LXM32.D12N4 3 A at 480 V three phase
Nominal speed	3000 rpm for LXM32.D12N4 3 A at 400 V three phase 3000 rpm for LXM32.D12N4 3 A at 480 V three phase
Product compatibility	LXM32.D12N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 (standard)
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	2.94 A
Continuous power	1.51 W
Maximum current I _{rms}	9.7 A for LXM32.D12N4
Maximum permanent current	9.68 A
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Key width	18 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	70 mm
Number of motor stacks	2
Torque constant	0.84 N.m/A at 120 °C
Back emf constant	54.08 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	1.13 kg.cm ²
Stator resistance	3.8 Ohm at 20 °C

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Stator inductance	12.2 mH at 20 °C
Stator electrical time constant	3.2 ms at 20 °C
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	154 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Product weight	2.3 kg

Environment

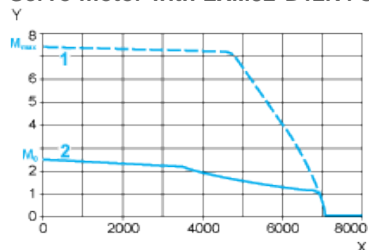
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0936 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

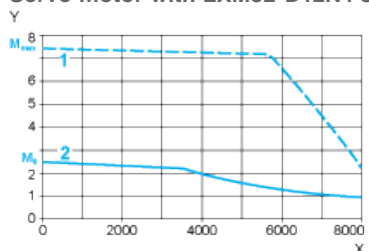


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



- X Speed in rpm
- Y Torque in Nm

- 1 Peak torque
- 2 Continuous torque