

Product datasheet

Specifications



servo motor BMH - 8.2 Nm - 6000 rpm - untapped shaft - without brake - IP54

BMH1003T01A1A

! Discontinued on: 9 Feb 2023

! Discontinued

EAN Code: 3606485200965

Main

Device short name	BMH
product or component type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	8.2 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Peak stall torque	22.8 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal output power	1450 W for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal torque	5.6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal speed	2500 rpm for LXM32.D30M2 at 10 A, 230 V, single phase
Product compatibility	LXM32.D30M2 at 230 V single phase
Shaft end	Smooth shaft
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn
Holding brake	Without
mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	240 V
Network number of phases	Three phase
Continuous stall current	10 A
Continuous power	2.62 W
Maximum current Irms	30 A for LXM32.D30M2
Maximum permanent current	33.85 A
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	100 mm
Number of motor stacks	3

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Torque constant	0.851 N.m/A at 120 °C
Back emf constant	54.8 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	9.37 kg.cm²
Stator resistance	0.47 Ohm at 20 °C
Stator inductance	3 mH at 20 °C
Stator electrical time constant	6.4 ms at 20 °C
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	192.6 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
net weight	6.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	6.8 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACH

Well-being performance

✓ Mercury Free	
✓ Rohs Exemption Information	Yes
✓ Pvc Free	

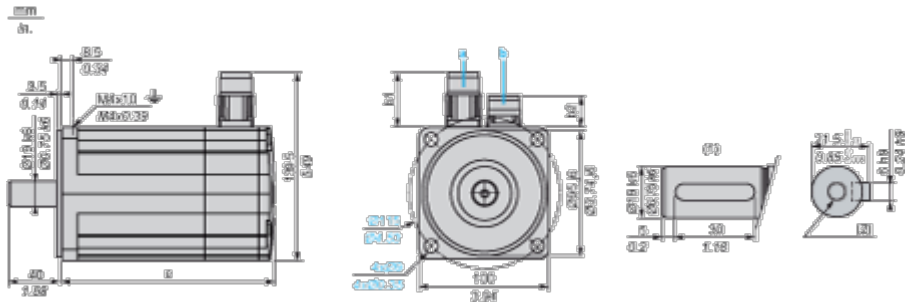
Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations

Dimensions Drawings

Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	192	234

Dimensions in in.

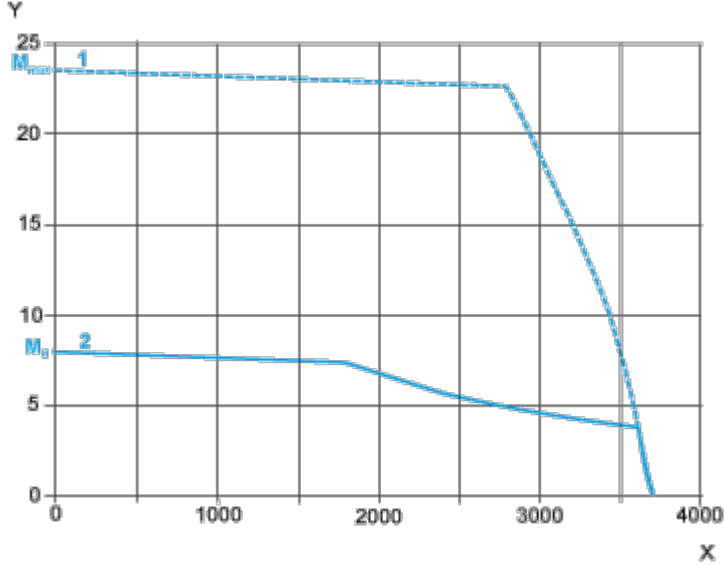
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

Performance Curves

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D30M2 servo drive



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