Product data sheet

Specification





servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, keyed shaft, without brake, IP54, 16 multiturn encoder, straight

BMH1003P17A1A

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 2,445.00 USD

Main

Product Or Component Type	Servo motor			
Device Short Name	ВМН			
Maximum Mechanical Speed	6000 rpm			
Continuous Stall Torque	74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Peak Stall Torque	222.15 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.15 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal Output Power	2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase			
Nominal Torque	54.87 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal Speed	4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase			
Product Compatibility	LXM32.D30N4 400480 V three phase			
Shaft End	Keyed			
Ip Degree Of Protection	IP54 standard			
Speed Feedback Resolution	32768 points/turn x 4096 turns			
Holding Brake	Without			
Mounting Support	International standard flange			
Electrical Connection	Straight connectors			

Complementary

,	
Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	7.69 A
Continuous Power	3.3 W
Maximum Current Irms	29.1 A LXM32.D30N4
Maximum Permanent Current	29.1 A
Second Shaft	Without second shaft end
Shaft Diameter	0.75 in (19 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Shaft Length	1.57 in (40 mm)		
Key Width	1.18 in (30 mm)		
Feedback Type	Multiturn SinCos Hiperface		
Motor Flange Size	3.94 in (100 mm)		
Number Of Motor Stacks	3		
Torque Constant	1 N.m/A 248 °F (120 °C)		
Back Emf Constant	63.5 V/krpm 248 °F (120 °C)		
Number Of Motor Poles	10		
Rotor Inertia	9.37 kg.cm ²		
Stator Resistance	0.63 Ohm 68 °F (20 °C)		
Stator Inductance	4 mH 68 °F (20 °C)		
Stator Electrical Time Constant	6.3 ms 68 °F (20 °C)		
Maximum Radial Force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm 610 N 5000 rpm		
Maximum Axial Force Fa	0.2 x Fr		
Type Of Cooling	Natural convection		
Length	7.58 in (192.6 mm)		
Centring Collar Diameter	3.74 in (95 mm)		
Centring Collar Depth	0.14 in (3.5 mm)		
Number Of Mounting Holes	4		
Mounting Holes Diameter	0.35 in (9 mm)		
Circle Diameter Of The Mounting Holes	4.53 in (115 mm)		
Net Weight	14.33 lb(US) (6.5 kg)		

Ordering and shipping details

Category	US1PC5318282		
Discount Schedule	PC53		
Gtin	3606485196671		
Returnability	No		
Country Of Origin	DE		

Packing Units

Unit Type Of Package 1	PCE		
Number Of Units In Package 1	1		
Package 1 Height	8.66 in (22.0 cm)		
Package 1 Width	7.87 in (20.0 cm)		
Package 1 Length	15.75 in (40.0 cm)		
Package 1 Weight	14.99 lb(US) (6.8 kg)		

Contractual warranty

Warranty

Apr 19, 2024

18 months

Sustainability Green Premium*

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

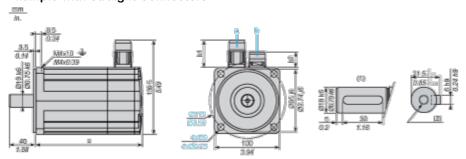
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

BMH1003P17A1A

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		- (itht hl)	a (with harden)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	192	234

Dimensions in in.

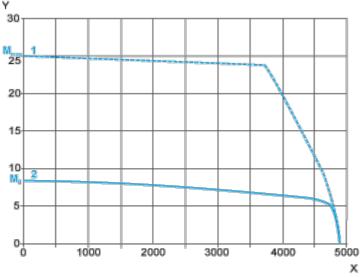
Straight connectors		Rotatable angled connectors		c (without brake)	(درامیرها والمنین)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	7.55	9.21	

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

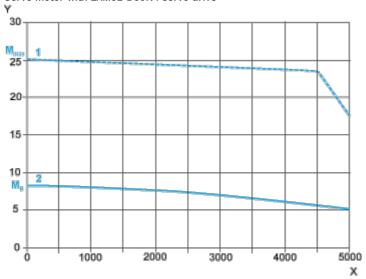


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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