Product data sheet





servo motor BMH, Lexium 32, 6Nm, 6000rpm, keyed shaft, without brake, IP65, IP67, 16bit encoder, straight

BMH1002T36A1A

! Discontinued on: Jun 30, 2023

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

Main

Product Or Component Type	Servo motor		
Device Short Name	ВМН		
Maximum Mechanical Speed	6000 rpm		
Continuous Stall Torque	53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 115 V, single phase 53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 230 V, single phase		
Peak Stall Torque	91.16 lbf.in (10.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 162.85 lbf.in (18.4 N.m) LXM32.D30M2 10 A, 230 V, single phase		
Nominal Output Power	750 W LXM32.D30M2 10 A, 115 V, single phase 1450 W LXM32.D30M2 10 A, 230 V, single phase		
Nominal Torque	30.98 lbf.in (3.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 40.71 lbf.in (4.6 N.m) LXM32.D30M2 10 A, 230 V, single phase		
Nominal Speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D30M2 10 A, 230 V, single phase		
Product Compatibility	LXM32.D30M2 115 V single phase LXM32.D30M2 230 V single phase		
Shaft End	Keyed		
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit		
Speed Feedback Resolution	32768 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	
Phase	Three phase	
Continuous Stall Current	8.65 A	
Continuous Power	2.39 W	
Maximum Current Irms	15 A LXM32.D30M2 115 V 30 A LXM32.D30M2 230 V	
Maximum Permanent Current	30.24 A	

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

Second Shaft	Without second shaft end		
	without second shart end		
Shaft Diameter	0.75 in (19 mm)		
Shaft Length	1.57 in (40 mm)		
Key Width	1.18 in (30 mm)		
Feedback Type	Single turn SinCos Hiperface		
Motor Flange Size	3.94 in (100 mm)		
Number Of Motor Stacks	2		
Torque Constant	0.72 N.m/A 248 °F (120 °C)		
Back Emf Constant	46.2 V/krpm 248 °F (120 °C)		
Number Of Motor Poles	10		
Rotor Inertia	6.28 kg.cm²		
Stator Resistance	0.54 Ohm 68 °F (20 °C)		
Stator Inductance	2.7 mH 68 °F (20 °C)		
Stator Electrical Time Constant	5 ms 68 °F (20 °C)		
Maximum Radial Force Fr	990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm		
Maximum Axial Force Fa	0.2 x Fr		
Type Of Cooling	Natural convection		
Length	6.32 in (160.6 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	10.85 lb(US) (4.92 kg)		

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485197487
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	11.51 lb(US) (5.22 kg)	

Contractual warranty

Warranty

Apr 25, 2024

18 months

Sustainability Screen 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

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	Pvc Free	

Certifications & Standards

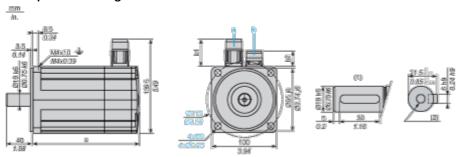
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

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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		- (i4b4 bl)	a (with harden)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	160	202

Dimensions in in

Straight c	onnectors Rotatable angled connectors		c (without brake)	(مالمسط طلاندر)		
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.29	7.95	

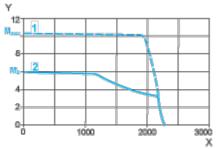
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

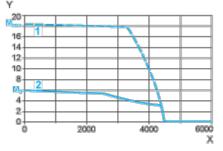


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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