Product data sheet

Specification





servo motor BMH, Lexium 32, 3.4Nm, 6000rpm, untapped shaft, with brake, IP54, 16 multiturn encoder, straight

BMH1001T07F1A

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

Price*: 2,302.50 USD

Main

Product Or Component Type	Servo motor				
Device Short Name	вмн				
Maximum Mechanical Speed	6000 rpm				
Continuous Stall Torque	30.09 lbf.in (3.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 30.09 lbf.in (3.4 N.m) LXM32.D18M2 6 A, 230 V, single phase				
Peak Stall Torque	78.77 lbf.in (8.9 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.28 lbf.in (10.2 N.m) LXM32.D18M2 6 A, 230 V, single phase				
Nominal Output Power	700 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase				
Nominal Torque	29.21 lbf.in (3.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 24.78 lbf.in (2.8 N.m) LXM32.D18M2 6 A, 230 V, single phase				
Nominal Speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase				
Product Compatibility	LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase				
Shaft End	Smooth shaft				
Ip Degree Of Protection	IP54 standard				
Speed Feedback Resolution	32768 points/turn x 4096 turns				
Holding Brake	With				
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	5.11 A	
Continuous Power	1.74 W	
Maximum Current Irms	15 A LXM32.D30M2 19.4 A LXM32.D18M2	
Maximum Permanent Current	19.38 A	
Second Shaft	Without second shaft end	

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

Shaft Diameter	0.75 in (19 mm)				
Shaft Length	1.57 in (40 mm)				
Feedback Type	Multiturn SinCos Hiperface				
Holding Torque	48.68 lbf.in (5.5 N.m) holding brake				
Motor Flange Size	3.94 in (100 mm)				
Number Of Motor Stacks	1				
Torque Constant	0.67 N.m/A 248 °F (120 °C)				
Back Emf Constant	43.3 V/krpm 248 °F (120 °C)				
Number Of Motor Poles	10				
Rotor Inertia	3.68 kg.cm²				
Stator Resistance	1.19 Ohm 68 °F (20 °C)				
Stator Inductance	5.3 mH 68 °F (20 °C)				
Stator Electrical Time Constant	4.5 ms 68 °F (20 °C)				
Maximum Radial Force Fr	900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm				
Maximum Axial Force Fa	0.2 x Fr				
Brake Pull-In Power	12 W				
Type Of Cooling	Natural convection				
Length	6.70 in (170.3 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	10.58 lb(US) (4.8 kg)				

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485197173
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	7.68 in (19.500 cm)	
Package 1 Width	8.66 in (22.000 cm)	
Package 1 Length	15.55 in (39.500 cm)	
Package 1 Weight	11.40 lb(US) (5.170 kg)	

Unit Type Of Package 2	S04			
Number Of Units In Package 2	2			
Package 2 Height	11.81 in (30 cm)			
Package 2 Width	15.75 in (40 cm)			
Package 2 Length	23.62 in (60 cm)			
Package 2 Weight	24.23 lb(US) (10.990 kg)			
Unit Type Of Package 3	P06			
Number Of Units In Package 3	8			
Package 3 Height	29.53 in (75.000 cm)			
Package 3 Width	31.50 in (80.000 cm)			
Package 3 Length 23.62 in (60.000 cm)				
Package 3 Weight	114.55 lb(US) (51.960 kg)			

Contractual warranty

Warranty 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

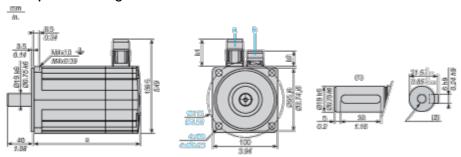
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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)	(د ا د ا د ا د ا د ا
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	128	170

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	a (with brake)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	5.03	6.69	

Product data sheet

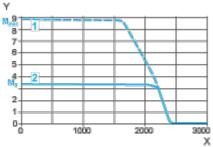
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

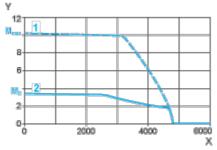


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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