Product data sheet

Specification





servo motor BMH, Lexium 32, 3.3Nm, 6000rpm, keyed shaft, with brake, IP54, 128 multiturn encoder

BMH1001P12F2A

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

Price*: 1,815.00 USD

Main

Product Or Component Type	Servo motor	
Device Short Name	вмн	
Maximum Mechanical Speed	6000 rpm	
Continuous Stall Torque	29.21 lbf.in (3.3 N.m) LXM32.D12N4 3 A, 400 V, three phase 29.21 lbf.in (3.3 N.m) LXM32.D12N4 3 A, 480 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase	
Peak Stall Torque	95.59 lbf.in (10.8 N.m) LXM32.D12N4 3 A, 400 V, three phase 95.59 lbf.in (10.8 N.m) LXM32.D12N4 3 A, 480 V, three phase 95.59 lbf.in (10.8 N.m) LXM32.D18N4 6 A, 400 V, three phase 95.59 lbf.in (10.8 N.m) LXM32.D18N4 6 A, 480 V, three phase	
Nominal Output Power	800 W LXM32.D12N4 3 A, 400 V, three phase 800 W LXM32.D12N4 3 A, 480 V, three phase 1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase	
Nominal Torque	16.82 lbf.in (1.9 N.m) LXM32.D12N4 3 A, 400 V, three phase 16.82 lbf.in (1.9 N.m) LXM32.D12N4 3 A, 480 V, three phase 27.44 lbf.in (3.1 N.m) LXM32.D18N4 6 A, 400 V, three phase 27.44 lbf.in (3.1 N.m) LXM32.D18N4 6 A, 480 V, three phase	
Nominal Speed	4000 rpm LXM32.D12N4 3 A, 400 V, three phase 4000 rpm LXM32.D12N4 3 A, 480 V, three phase 4000 rpm LXM32.D18N4 6 A, 400 V, three phase 4000 rpm LXM32.D18N4 6 A, 480 V, three phase	
Product Compatibility	LXM32.D12N4 400480 V three phase LXM32.D18N4 400480 V three phase	
Shaft End	Keyed	
Ip Degree Of Protection	IP54 standard	
Speed Feedback Resolution	131072 points/turn x 4096 turns	
Holding Brake	With	
Mounting Support	International standard flange	
Electrical Connection	Rotatable right-angled connectors	

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	3.15 A
Continuous Power	1.76 W

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

Maximum Current Irms	11.9 A LXM32.D12N4 11.9 A LXM32.D18N4	
Maximum Permanent Current	11.93 A	
Second Shaft	Without second shaft end	
Shaft Diameter	0.75 in (19 mm)	
Shaft Length	1.57 in (40 mm)	
Key Width	1.18 in (30 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	1.1 N.m/A 248 °F (120 °C)	
Back Emf Constant	70.3 V/krpm 248 °F (120 °C)	
Number Of Motor Poles	10	
Rotor Inertia	3.68 kg.cm ²	
Stator Resistance	3.1 Ohm 68 °F (20 °C)	
Stator Inductance	13.9 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	3606485195537		
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	11.24 lb(US) (5.1 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

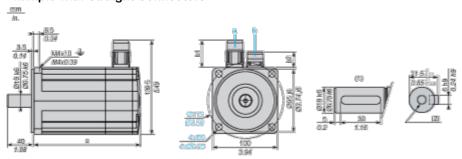
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

Dimensions in in.

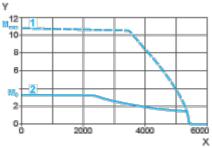
Straight connectors Rotatable angled connectors		a (without broke)	a (with hards)		
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	5.03	6.69

Performance Curves

400 V 3-Phase Supply Voltage

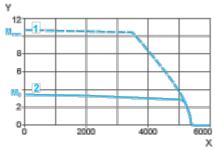
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive

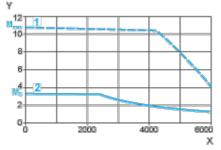


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

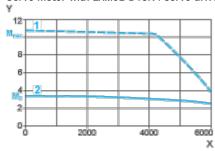
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive



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