Product data sheet

Specifications





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

BMH1001P02F2A

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

Price*: 1,775.00 USD

Main

Servo motor			
BMH			
6000 rpm			
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			
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			
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			
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			
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			
LXM32.D12N4 400480 V three phase LXM32.D18N4 400480 V three phase			
Smooth shaft			
IP54 standard			
131072 points/turn x 4096 turns			
With			
International standard flange			
Rotatable right-angled connectors			

Complementary

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

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

Continuous Power	1.76 W		
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)		
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	3606485195520		
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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

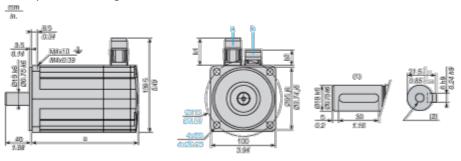
Certifications & Standards

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		
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		

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 braka)	o (with broko)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	128	170

Dimensions in in.

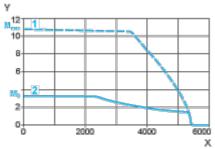
Straight connectors		Rotatable angled connectors		a (without braka)	o (with broko)
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	5.03	6.69

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

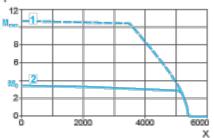
Servo motor with LXM32•D12N4 servo drive



X Speed in rpm

- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

Servo motor with LXM32•D18N4 servo drive

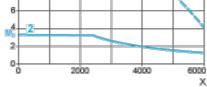


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

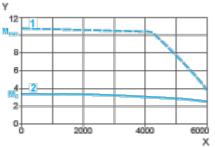
Torque/Speed Curves

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