Product data sheet

Specification





servo motor BMH, Lexium 32, 3.3Nm, 6000rpm, untapped shaft, without brake, IP54, 16 multiturn encoder

BMH1001P07A2A

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

Price*: 1,265.00 USD

Main

Product Or Component Type	Servo motor			
Davisa Shart Nama	BMH			
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	Smooth shaft			
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	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			
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	3.19 kg.cm²			
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			
Type Of Cooling	Natural convection			
Length	5.06 in (128.6 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	7.36 lb(US) (3.34 kg)			

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485195797
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	7.87 in (20.0 cm)	

Package 1 Width	8.66 in (22.0 cm)
Package 1 Length	15.75 in (40.0 cm)
Package 1 Weight	8.02 lb(US) (3.64 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

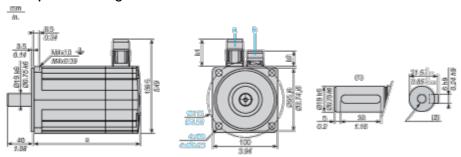
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste 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		

BMH1001P07A2A

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 handen)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	128	170

Dimensions in in.

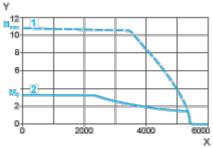
Straight connectors		Rotatable angled connectors		c (without brake)	a (with brake)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	5.03	6.69	

Performance Curves

400 V 3-Phase Supply Voltage

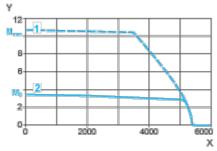
Torque/Speed Curves

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

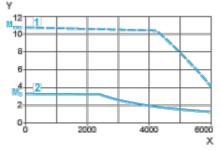


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

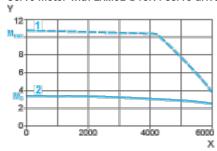
Torque/Speed Curves

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