Product data sheet

Specification





servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, untapped shaft, with brake, IP54, 128 multiturn encoder, straight

BMH1002P02F1A

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

Price*: 2,895.00 USD

Main

Product Or Component Type	Servo motor		
Device Short Name	вмн		
Maximum Mechanical Speed	6000 rpm		
Continuous Stall Torque	54.87 lbf.in (6.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D18N4 6 A, 480 V, three phase		
Peak Stall Torque	162.85 lbf.in (18.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 162.85 lbf.in (18.4 N.m) LXM32.D18N4 6 A, 480 V, three phase		
Nominal Output Power	1600 W LXM32.D18N4 6 A, 400 V, three phase 1600 W LXM32.D18N4 6 A, 480 V, three phase		
Nominal Torque	34.52 lbf.in (3.9 N.m) LXM32.D18N4 6 A, 400 V, three phase 34.52 lbf.in (3.9 N.m) LXM32.D18N4 6 A, 480 V, three phase		
Nominal Speed	4000 rpm LXM32.D18N4 6 A, 400 V, three phase 4000 rpm LXM32.D18N4 6 A, 480 V, three phase		
Product Compatibility	LXM32.D18N4 400480 V three phase		
Shaft End	Smooth shaft		
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	Straight connectors		

Complementary

Range Compatibility	Lexium 32	
[Us] Rated Supply Voltage	480 V	
Phase	Three phase	
Continuous Stall Current	5.04 A	
Continuous Power	2.36 W	
Maximum Current Irms	18 A LXM32.D18N4	
Maximum Permanent Current	18.23 A	
Second Shaft	Without second shaft end	
Shaft Diameter	0.75 in (19 mm)	

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

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	2	
Torque Constant	1.2 N.m/A 248 °F (120 °C)	
Back Emf Constant	77 V/krpm 248 °F (120 °C)	
Number Of Motor Poles	10	
Rotor Inertia	6.77 kg.cm ²	
Stator Resistance	1.51 Ohm 68 °F (20 °C)	
Stator Inductance	7.5 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	
Brake Pull-In Power	12 W	
Type Of Cooling	Natural convection	
Length	7.96 in (202.3 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	14.11 lb(US) (6.4 kg)	

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485195919
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	14.82 lb(US) (6.720 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	31.06 lb(US) (14.090 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	141.89 lb(US) (64.360 kg)	

Contractual warranty

Warranty 18 months

Sustainability Green 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



Certifications & Standards

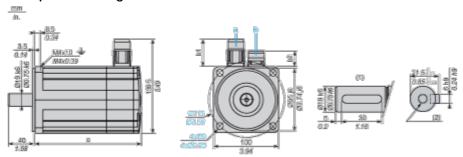
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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		s Rotatable angled connectors		- (i4b4 bl)	a (with harden)
b1	b2	b1	b2 c (without brake	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	160	202

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	(د ا د د ا د الله الله الله الله الله ال
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	6.29	7.95

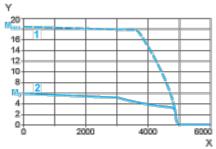
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

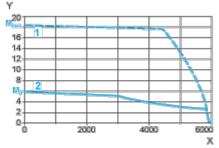


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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