Product data sheet

Specifications





servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, keyed shaft, with brake, IP54, 16 multiturn encoder

BMH1003P17F2A

Product availability: Stock - Normally stocked in distribution facility

Price*: 1,965.00 USD

Main

Product Or Component Type	Servo motor			
Device Short Name	ВМН			
Maximum Mechanical Speed	6000 rpm			
Continuous Stall Torque	74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Peak Stall Torque	222.15 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.15 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal Output Power	2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase			
Nominal Torque	54.87 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal Speed	4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase			
Product Compatibility	LXM32.D30N4 400480 V three phase			
Shaft End	Keyed			
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	Rotatable right-angled connectors			

Complementary

Range Compatibility	Lexium 32			
[Us] Rated Supply Voltage	480 V			
Phase	Three phase			
Continuous Stall Current	7.69 A			
Continuous Power	3.3 W			
Maximum Current Irms	29.1 A LXM32.D30N4			
Maximum Permanent Current	29.1 A			
Second Shaft	Without second shaft end			
Shaft Diameter	0.75 in (19 mm)			
Shaft Length	1.57 in (40 mm)			

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

Key Width	1.18 in (30 mm)			
Feedback Type	Multiturn SinCos Hiperface			
Holding Torque	79.66 lbf.in (9 N.m) holding brake			
Motor Flange Size	3.94 in (100 mm)			
Number Of Motor Stacks	3			
Torque Constant	1 N.m/A 248 °F (120 °C)			
Back Emf Constant	63.5 V/krpm 248 °F (120 °C)			
Number Of Motor Poles	10			
Rotor Inertia	10.3 kg.cm ²			
Stator Resistance	0.63 Ohm 68 °F (20 °C)			
Stator Inductance	4 mH 68 °F (20 °C)			
Stator Electrical Time Constant	6.3 ms 68 °F (20 °C)			
Maximum Radial Force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm 610 N 5000 rpm			
Maximum Axial Force Fa	0.2 x Fr			
Brake Pull-In Power	18 W			
Type Of Cooling	Natural convection			
Length	9.22 in (234.3 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	3 4.53 in (115 mm)			
Net Weight	17.97 lb(US) (8.15 kg)			

Ordering and shipping details

Category	US1PC5318282		
Discount Schedule	PC53		
Gtin	3606485196794		
Returnability	Yes		
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	19.00 lb(US) (8.620 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	39.44 lb(US) (17.890 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	175.40 lb(US) (79.560 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

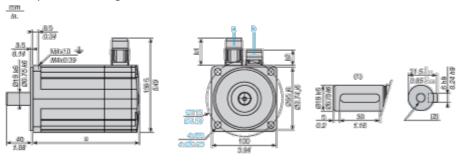
Certifications & Standards

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 c	Straight connectors Rotatable angled connectors			o (with broko)	
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	192	234

Dimensions in in.

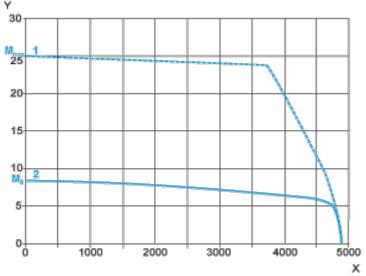
Straight c	Straight connectors Rotatable angled connectors		o (without broke)	a (with brake)	
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	7.55	9.21

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

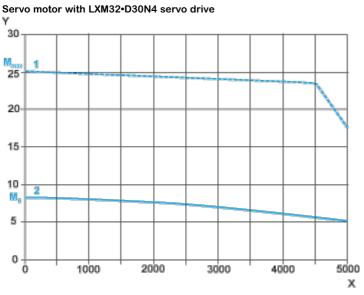
Servo motor with LXM32•D30N4 servo drive



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

480 V 3-Phase Supply Voltage

Torque/Speed Curves



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque