Product data sheet

Specification





servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, with brake, IP54, 16 multiturn encoder, 3 phases

BMH0702P17F2A

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

Price*: 1,375.00 USD

Main

Product Or Component Type	Servo motor
Device Short Name	вмн
Maximum Mechanical Speed	8000 rpm
Continuous Stall Torque	22.13 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 400 V, three phase 22.13 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 480 V, three phase
Peak Stall Torque	65.50 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 65.50 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal Output Power	700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase
Nominal Torque	19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal Speed	3000 rpm LXM32.D12N4 3 A, 400 V, three phase 3000 rpm LXM32.D12N4 3 A, 480 V, three phase
Product Compatibility	LXM32.D12N4 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

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Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	2.94 A
Continuous Power	1.51 W
Maximum Current Irms	9.7 A LXM32.D12N4
Maximum Permanent Current	9.68 A
Second Shaft	Without second shaft end
Shaft Diameter	0.43 in (11 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	0.91 in (23 mm)							
Key Width	0.71 in (18 mm)							
Feedback Type	Multiturn SinCos Hiperface							
Holding Torque	26.55 lbf.in (3 N.m) holding brake							
Motor Flange Size	2.76 in (70 mm)							
Number Of Motor Stacks	2							
Torque Constant	0.84 N.m/A 248 °F (120 °C)							
Back Emf Constant	54.08 V/krpm 248 °F (120 °C)							
Number Of Motor Poles	10							
Rotor Inertia	1.24 kg.cm ²							
Stator Resistance	3.8 Ohm 68 °F (20 °C)							
Stator Inductance	12.2 mH 68 °F (20 °C)							
Stator Electrical Time Constant	3.2 ms 68 °F (20 °C)							
Maximum Radial Force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm							
Maximum Axial Force Fa	0.2 x Fr							
Brake Pull-In Power	7 W							
Type Of Cooling	Natural convection							
Length	7.60 in (193 mm)							
Centring Collar Diameter	2.36 in (60 mm)							
Centring Collar Depth	0.10 in (2.5 mm)							
Number Of Mounting Holes	4							
Mounting Holes Diameter	0.22 in (5.5 mm)							
Circle Diameter Of The Mounting Holes	3.23 in (82 mm)							
Net Weight	7.28 lb(US) (3.3 kg)							

Ordering and shipping details

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Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485193960
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE					
Number Of Units In Package 1	1					
Package 1 Height	4.33 in (11 cm)					
Package 1 Width	7.87 in (20 cm)					
Package 1 Length	15.75 in (40 cm)					

Package 1 Weight

7.48 lb(US) (3.393 kg)

Contractual warranty

Warranty

Apr 24, 2024

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

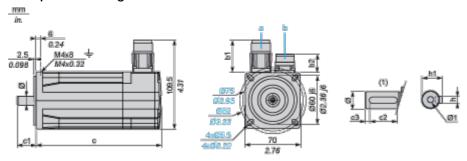
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

Dimensions in mm

Straight Rotatable angle connectors connectors		•	c (without c (with		c1	c2	сЗ	h	h1	Ø	Ø1 for	
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 ⁺⁰ _	11 k6	M4 x 14

Dimensions in in.

Straigh	Straight onnectors		Rotatable angled connectors		c (with brake)	c1	c2	сЗ	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

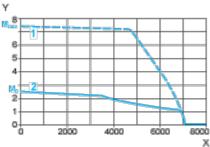
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

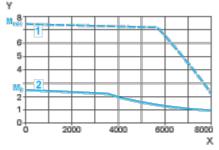


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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