Product data sheet

Specifications





① Discontinued

servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, without brake, IP54, 16bit encoder, straight

BMH0703T16A1A

() Discontinued on: Oct 9, 2023

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

Main

Product Or Component Type	Servo motor							
Device Short Name	ВМН							
Maximum Mechanical Speed	8000 rpm							
Continuous Stall Torque	30.09 lbf.in (3.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 30.09 lbf.in (3.4 N.m) LXM32.D18M2 6 A, 230 V, single phase							
Peak Stall Torque	77.00 lbf.in (8.7 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.28 lbf.in (10.2 N.m) LXM32.D18M2 6 A, 230 V, single phase							
Nominal Output Power	650 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase							
Nominal Torque	27.44 lbf.in (3.1 N.m) LXM32.D30M2 10 A, 115 V, single phase 25.67 lbf.in (2.9 N.m) LXM32.D18M2 6 A, 230 V, single phase							
Nominal Speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase							
Product Compatibility	LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase							
Shaft End	Keyed							
Ip Degree Of Protection	IP54 standard							
Speed Feedback Resolution	32768 points/turn							
Holding Brake	Without							
Mounting Support	International standard flange							
Electrical Connection	Straight connectors							

Complementary

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Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	240 V
Phase	Three phase
Continuous Stall Current	5.55 A
Continuous Power	1.68 W
Maximum Current Irms	15 A LXM32.D30M2 17.8 A LXM32.D18M2
Maximum Permanent Current	17.84 A
Second Shaft	Without second shaft end

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

Shaft Diameter	0.55 in (14 mm)
Shaft Length	1.18 in (30 mm)
Key Width	0.79 in (20 mm)
Feedback Type	Single turn SinCos Hiperface
Motor Flange Size	2.76 in (70 mm)
Number Of Motor Stacks	3
Torque Constant	0.61 N.m/A 248 °F (120 °C)
Back Emf Constant	39.3 V/krpm 248 °F (120 °C)
Number Of Motor Poles	10
Rotor Inertia	1.67 kg.cm ²
Stator Resistance	1.32 Ohm 68 °F (20 °C)
Stator Inductance	4.3 mH 68 °F (20 °C)
Stator Electrical Time Constant	3.3 ms 68 °F (20 °C)
Maximum Radial Force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	7.32 in (186 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	6.61 lb(US) (3 kg)

Ordering and shipping details

Category	US1PC5318282						
Discount Schedule	PC53						
Gtin	3606485195094						
Returnability	No						
Country Of Origin	DE						

Packing Units

Unit Type Of Package 1	PCE						
Number Of Units In Package 1	1						
Package 1 Height	4.33 in (11.0 cm)						
Package 1 Width	7.87 in (20.0 cm)						
Package 1 Length	15.75 in (40.0 cm)						
Package 1 Weight	4.85 lb(US) (2.2 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

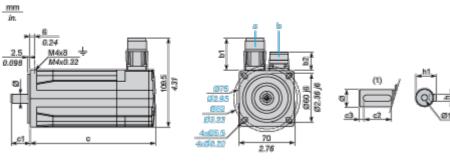
Certifications & Standards

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)

Dimensions in mm

Straight Rotatable angled connectors connectors		•	c (without	c (with	c1	c2	c3	h	h1	Ø	Ø1 for	
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	186	225	30	20	5	5 h9	16 ⁺⁰ _ 0.13	14 k6	M5 x 17

Dimensions in in.

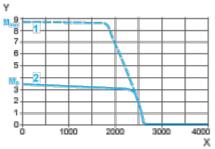
Straigh conneo	traight onnectors Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 ⁺⁰ _ 0.0051	0.55 k6	M5 x 0.67

Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

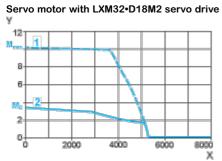
Servo motor with LXM32•D30M2 servo drive



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

230 V Single-Phase Supply Voltage

Torque/Speed Curves



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