Product data sheet

Specification





servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, with brake, IP54, 16bit encoder, straight

BMH0702T16F1A

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

Price*: 1,590.00 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.D30M2 10 A, 115 V, single phase 22.13 lbf.in (2.5 N.m) LXM32.D18M2 6 A, 230 V, single phase							
Peak Stall Torque	56.64 lbf.in (6.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 65.50 lbf.in (7.4 N.m) LXM32.D18M2 6 A, 230 V, single phase							
Nominal Output Power	600 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase							
Nominal Torque	20.36 lbf.in (2.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 18.59 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase							
Nominal Speed	2500 rpm LXM32.D30M2 10 A, 115 V, single phase 4000 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	With							
Mounting Support	International standard flange							
Electrical Connection	Straight connectors							

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	240 V
Phase	Three phase
Continuous Stall Current	5.38 A
Continuous Power	1.51 W
Maximum Current Irms	15 A LXM32.D30M2 17.5 A LXM32.D18M2
Maximum Permanent Current	17.71 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	0.43 in (11 mm)							
Shaft Length	0.91 in (23 mm)							
Key Width	0.71 in (18 mm)							
Feedback Type	Single turn 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	0.46 N.m/A 248 °F (120 °C)							
Back Emf Constant	29.6 V/krpm 248 °F (120 °C)							
Number Of Motor Poles	10							
Rotor Inertia	1.24 kg.cm ²							
Stator Resistance	1.15 Ohm 68 °F (20 °C)							
Stator Inductance	3.6 mH 68 °F (20 °C)							
Stator Electrical Time Constant	3.1 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

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485194677
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 (11.000 cm)
Package 1 Width	7.87 in (20.000 cm)

Package 1 Length	15.75 in (40.000 cm)							
Package 1 Weight	6.17 lb(US) (2.800 kg)							
Unit Type Of Package 2	S04							
Number Of Units In Package 2	3							
Package 2 Height	11.81 in (30.000 cm)							
Package 2 Width	15.75 in (40.000 cm)							
Package 2 Length	23.62 in (60.000 cm)							
Package 2 Weight	20.21 lb(US) (9.166 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



Certifications & Standards

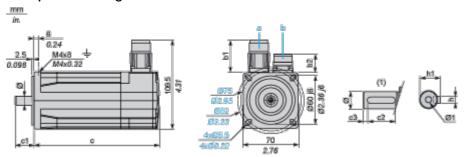
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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 angled connectors connectors		c (without	,		c2	сЗ	h	h1	ø	Ø1 for	
b1	b2	b1	b2	brake)	brake)	brake)						screws
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 ⁺⁰ _ 0.13	11 k6	M4 x 14

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without	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

Product data sheet

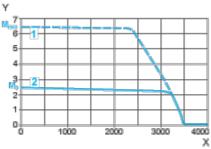
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

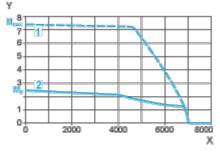


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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