Product data sheet





servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, with brake, IP54, 128 multiturn encoder, straight

BMH0703T12F1A

(!) Discontinued on: Jun 30, 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	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	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.

0.55 in (14 mm)								
1.18 in (30 mm)								
0.79 in (20 mm)								
Multiturn SinCos Hiperface								
26.55 lbf.in (3 N.m) holding brake								
2.76 in (70 mm)								
3								
0.61 N.m/A 248 °F (120 °C)								
39.3 V/krpm 248 °F (120 °C)								
10								
1.78 kg.cm ²								
1.32 Ohm 68 °F (20 °C)								
4.3 mH 68 °F (20 °C)								
3.3 ms 68 °F (20 °C)								
730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm								
0.2 x Fr								
7 W								
7 W Natural convection								
Natural convection								
Natural convection 8.86 in (225 mm)								
Natural convection 8.86 in (225 mm) 2.36 in (60 mm)								
Natural convection 8.86 in (225 mm) 2.36 in (60 mm) 0.10 in (2.5 mm)								
Natural convection 8.86 in (225 mm) 2.36 in (60 mm) 0.10 in (2.5 mm) 4								

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485194974
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	7.05 lb(US) (3.2 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

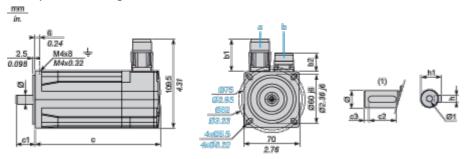
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

Dimensions in mm

_	Straight Rotatable angled 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	186	225	30	20	5	5 h9	16 ⁺⁰ _ 0.13	14 k6	M5 x 17

Dimensions in in.

Straigh		Rotata angled connec		c (without brake)	c (with brake)	c1	c2	с3	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

Product data sheet

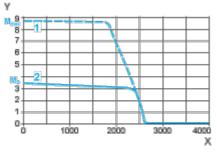
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

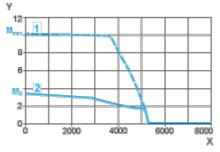


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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