Product data sheet





servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, without brake, IP65, IP67, 128bit encoder, straight, 3 phases

BMH0703P31A1A

! 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.D18N4 6 A, 400 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase						
Peak Stall Torque	90.28 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 90.28 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 480 V, three phase						
Nominal Output Power	1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase						
Nominal Torque	21.24 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 21.24 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 480 V, three phase						
Nominal Speed	5000 rpm LXM32.D18N4 6 A, 400 V, three phase 5000 rpm LXM32.D18N4 6 A, 480 V, three phase						
Product Compatibility	LXM32.D18N4 400480 V three phase						
Shaft End	Keyed						
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit						
Speed Feedback Resolution	131072 points/turn						
Holding Brake	Without						
Mounting Support	International standard flange						
Electrical Connection	Straight connectors						

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	3.91 A
Continuous Power	1.68 W
Maximum Current Irms	12.6 A LXM32.D18N4
Maximum Permanent Current	12.57 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	0.87 N.m/A 248 °F (120 °C)							
Back Emf Constant	55.8 V/krpm 248 °F (120 °C)							
Number Of Motor Poles	10							
Rotor Inertia	1.67 kg.cm ²							
Stator Resistance	2.65 Ohm 68 °F (20 °C)							
Stator Inductance	8.6 mH 68 °F (20 °C)							
Stator Electrical Time Constant	3.2 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	3606485199061
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

Apr 25, 2024

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

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	Pvc Free	

Certifications & Standards

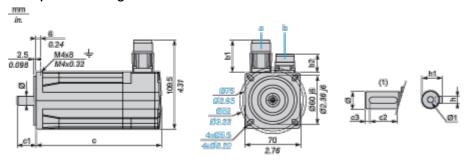
Reach Regulation	REACh Declaration						
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)						
China Rohs Regulation	China RoHS declaration						
Environmental Disclosure	Product Environmental Profile						
Weee	The product must be disposed on European Union markets following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

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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

		Rotatable angled connectors		c (without	c (with	c1	c2	с3	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.

_	Straight connectors		Rotatable angled connectors		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

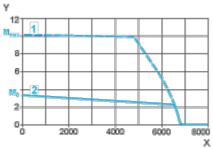
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

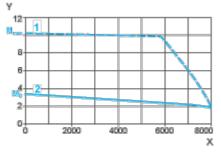


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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