Main



servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, untapped shaft, with brake, IP65, IP67, 16 multiturn encoder, straight, 3 phases

BMH0703P27F1A

! Discontinued on: Jun 30, 2023

(!) Discontinued

Product Or Component Type	Servo motor
Device Short Name	вмн
Maximum Mechanical Speed	8000 rpm
Continuous Stall Torque	3.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase
Peak Stall Torque	10.2 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 10.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal Output Power	1300 W for LXM32.D18N4 at 6 A, 400 V, three phase 1300 W for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal Torque	2.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 2.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase
Nominal Speed	5000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 5000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase
Product Compatibility	LXM32.D18N4 at 400480 V three phase
Shaft End	Smooth shaft
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit
Speed Feedback Resolution	32768 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	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	3.91 A
Continuous Power	1.68 W
Maximum Current Irms	12.6 A for LXM32.D18N4
Maximum Permanent Current	12.57 A
Second Shaft	Without second shaft end
Shaft Diameter	14 mm
Shaft Length	30 mm

Feedback Type	Multiturn SinCos Hiperface
Holding Torque	3 N.m holding brake
Motor Flange Size	70 mm
Number Of Motor Stacks	3
Torque Constant	0.87 N.m/A at 120 °C
Back Emf Constant	55.8 V/krpm at 120 °C
Number Of Motor Poles	10
Rotor Inertia	1.78 kg.cm²
Stator Resistance	2.65 Ohm at 20 °C
Stator Inductance	8.6 mH at 20 °C
Stator Electrical Time Constant	3.2 ms at 20 °C
Maximum Radial Force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	7 W
Type Of Cooling	Natural convection
Length	225 mm
Centring Collar Diameter	60 mm
Centring Collar Depth	2.5 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	5.5 mm
Circle Diameter Of The Mounting Holes	82 mm
Net Weight	4 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	3.2 kg

Contractual warranty

Warranty 18 months

Sustainability

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



Rohs Exemption Information

Yes



Pvc Free

Certifications & Standards

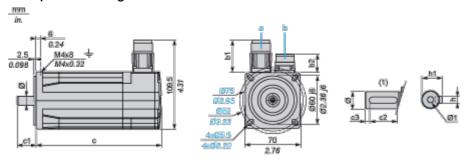
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

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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 an 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	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

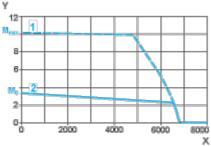
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

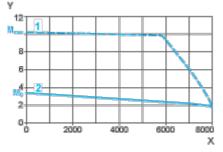


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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