Product data sheet





servo motor BMH, Lexium 32, 1.2Nm, 8000rpm, keyed shaft, with brake, IP65, IP67, 16 multiturn encoder, straight

BMH0701P37F1A

(!) 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	10.62 lbf.in (1.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 10.62 lbf.in (1.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 12.39 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 12.39 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 480 V, three phase
Peak Stall Torque	37.17 lbf.in (4.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 37.17 lbf.in (4.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 37.17 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 37.17 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal Output Power	350 W LXM32.U60N4 1.5 A, 400 V, three phase 350 W LXM32.U60N4 1.5 A, 480 V, three phase 700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase
Nominal Torque	9.74 lbf.in (1.1 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 9.74 lbf.in (1.1 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 11.51 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 400 V, three phase 11.51 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal Speed	3000 rpm LXM32.U60N4 1.5 A, 400 V, three phase 3000 rpm LXM32.U60N4 1.5 A, 480 V, three phase 5000 rpm LXM32.D12N4 3 A, 400 V, three phase 5000 rpm LXM32.D12N4 3 A, 480 V, three phase
Product Compatibility	LXM32.U60N4 400480 V three phase LXM32.D12N4 400480 V three phase
Shaft End	Keyed
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					
Phase	Three phase					

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

Life Is On Schneider Apr 19, 2024

Continuous Stall Current	1.78 A
Continuous Power	1.05 W
Maximum Current Irms	6 A LXM32.U60N4 6 A LXM32.D12N4
Maximum Permanent Current	5.97 A
Second Shaft	Without second shaft end
Shaft Diameter	0.43 in (11 mm)
Shaft Length	0.91 in (23 mm)
Key Width	0.71 in (18 mm)
Feedback Type	Multiturn 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	1
Torque Constant	0.79 N.m/A 248 °F (120 °C)
Back Emf Constant	50.72 V/krpm 248 °F (120 °C)
Number Of Motor Poles	10
Rotor Inertia	0.7 kg.cm²
Stator Resistance	8.3 Ohm 68 °F (20 °C)
Stator Inductance	23.4 mH 68 °F (20 °C)
Stator Electrical Time Constant	2.8 ms 68 °F (20 °C)
Maximum Radial Force Fr	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm
	300 N 0000 Ipin
Maximum Axial Force Fa	0.2 x Fr
Maximum Axial Force Fa Brake Pull-In Power	
	0.2 x Fr
Brake Pull-In Power	0.2 x Fr 7 W
Brake Pull-In Power Type Of Cooling	0.2 x Fr 7 W Natural convection
Brake Pull-In Power Type Of Cooling Length	0.2 x Fr 7 W Natural convection 6.34 in (161 mm)
Brake Pull-In Power Type Of Cooling Length Centring Collar Diameter	0.2 x Fr 7 W Natural convection 6.34 in (161 mm) 2.36 in (60 mm)
Brake Pull-In Power Type Of Cooling Length Centring Collar Diameter Centring Collar Depth	0.2 x Fr 7 W Natural convection 6.34 in (161 mm) 2.36 in (60 mm) 0.10 in (2.5 mm)
Brake Pull-In Power Type Of Cooling Length Centring Collar Diameter Centring Collar Depth Number Of Mounting Holes	0.2 x Fr 7 W Natural convection 6.34 in (161 mm) 2.36 in (60 mm) 0.10 in (2.5 mm) 4

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485193434
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	6.17 lb(US) (2.8 kg)						

Contractual warranty

Apr 19, 2024

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

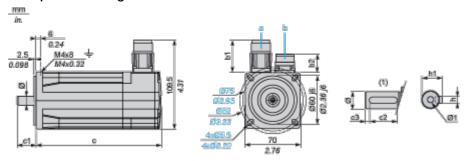
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

BMH0701P37F1A

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 connectors		Rotatable angled 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	122	161	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 brake)		c1	c2	сЗ	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	4.80	6.33	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

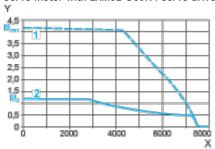
BMH0701P37F1A

Performance Curves

400 V 3-Phase Supply Voltage

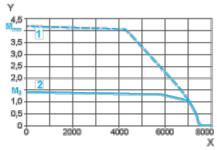
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive

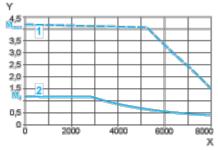


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

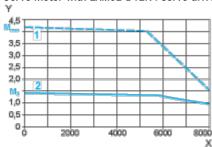
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive



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