

Product data sheet

Specifications



servo motor BHM, Lexium 32,
1.2Nm, 8000rpm, keyed shaft, with
brake, IP54

BMH0701P12F1A

Product availability : Stock - Normally stocked in distribution
facility

Price* : 1,495.00 USD

Main

Product or Component Type	Servo motor
Device short name	BMH
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 400...480 V three phase LXM32.D12N4 400...480 V three 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	480 V
Phase	Three phase
Continuous stall current	1.78 A

* Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	6.34 in (161 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)
Product Weight	5.73 lb(US) (2.6 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485193106
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)

Offer Sustainability

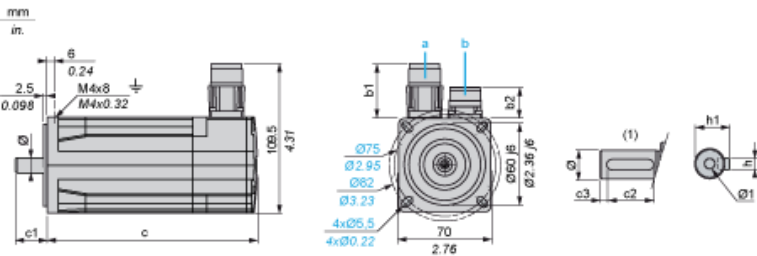
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
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.
PVC free	Yes

Contractual warranty

Warranty	18 months
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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 connect		Rotatable angled		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
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

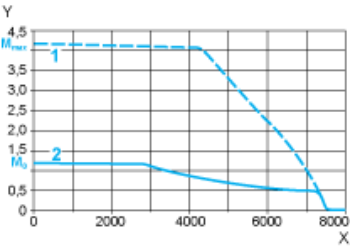
Dimensions in in.

Straight connect		Rotatable angled		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
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

400 V 3-Phase Supply Voltage

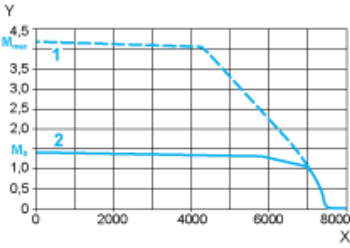
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



- XSpeed in rpm
- YTorque in Nm
- 1Peak torque
- 2Continuous torque

Servo motor with LXM32•D12N4 servo drive

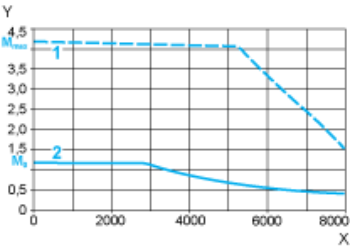


- XSpeed in rpm
- YTorque in Nm
- 1Peak torque
- 2Continuous torque

480 V 3-Phase Supply Voltage

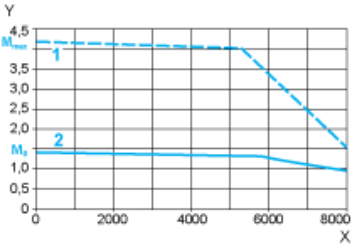
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



- XSpeed in rpm
- YTorque in Nm
- 1Peak torque
- 2Continuous torque

Servo motor with LXM32•D12N4 servo drive



- XSpeed in rpm
- YTorque in Nm
- 1Peak torque
- 2Continuous torque

Recommended replacement(s)