

BMH1001P17F2A

servo motor BMH - 3.3 Nm - 6000 rpm - keyed
shaft - with brake - IP54



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	29.21 Lbf.In (3.3 N.m) LXM32.D12N4 3 A, 400 V, three phase 29.21 Lbf.In (3.3 N.m) LXM32.D12N4 3 A, 480 V, three phase 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	95.59 Lbf.In (10.8 N.m) LXM32.D12N4 3 A, 400 V, three phase 95.59 Lbf.In (10.8 N.m) LXM32.D12N4 3 A, 480 V, three phase 95.59 Lbf.In (10.8 N.m) LXM32.D18N4 6 A, 400 V, three phase 95.59 lbf.in (10.8 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal output power	800 W LXM32.D12N4 3 A, 400 V, three phase 800 W LXM32.D12N4 3 A, 480 V, three phase 1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase
Nominal torque	16.82 Lbf.In (1.9 N.m) LXM32.D12N4 3 A, 400 V, three phase 16.82 Lbf.In (1.9 N.m) LXM32.D12N4 3 A, 480 V, three phase 27.44 Lbf.In (3.1 N.m) LXM32.D18N4 6 A, 400 V, three phase 27.44 lbf.in (3.1 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal speed	4000 rpm LXM32.D12N4 3 A, 400 V, three phase 4000 rpm LXM32.D12N4 3 A, 480 V, three phase 4000 rpm LXM32.D18N4 6 A, 400 V, three phase 4000 rpm LXM32.D18N4 6 A, 480 V, three phase
Product compatibility	LXM32.D12N4 400...480 V three phase LXM32.D18N4 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	3.15 A
Continuous power	1.76 W
Maximum current Irms	11.9 A LXM32.D12N4 11.9 A LXM32.D18N4
Maximum permanent current	11.93 A

Second shaft	Without second shaft end
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Key width	1.18 in (30 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	48.68 lbf.in (5.5 N.m) holding brake
Motor flange size	3.94 in (100 mm)
Number of motor stacks	1
Torque constant	1.1 N.m/A 248 °F (120 °C)
Back emf constant	70.3 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	3.68 kg.cm ²
Stator resistance	3.1 Ohm 68 °F (20 °C)
Stator inductance	13.9 mH 68 °F (20 °C)
Stator electrical time constant	4.5 ms 68 °F (20 °C)
Maximum radial force Fr	900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	12 W
Type of cooling	Natural convection
Length	6.70 in (170.3 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Net Weight	10.58 lb(US) (4.8 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	00785901769576
Nbr. of units in pkg.	1
Package weight(Lbs)	11.85 lb(US) (5.38 kg)
Returnability	Yes
Country of origin	DE

Packing Units

Package 1 Height	2.200 dm
Package 1 width	2.000 dm
Package 1 Length	4.000 dm

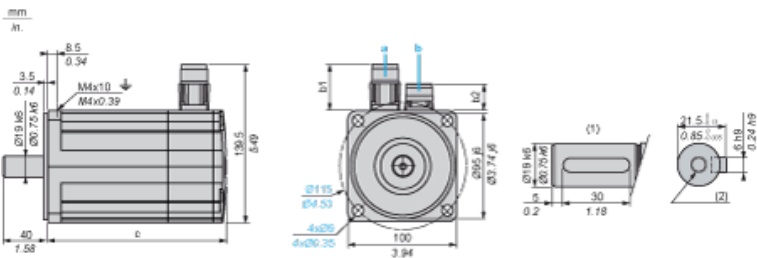
Offer Sustainability

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 Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
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.
Contractual warranty	
Warranty	18 months

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)
(2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	128	170

Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	5.03	6.69

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive

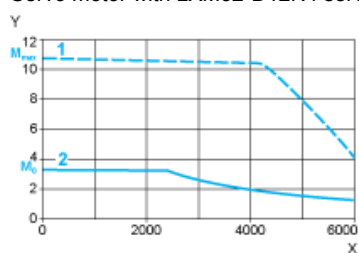


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive



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