

BMH1001T31A1A

servo motor BMH, Lexium 32, 3.4Nm,
6000rpm, keyed shaft, without brake, IP65,
IP67, 128bit encoder, straight



Main

Product or Component Type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	30.09 Lbf.In (3.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 30.09 lbf.in (3.4 N.m) LXM32.D18M2 6 A, 230 V, single phase
Peak stall torque	78.77 Lbf.In (8.9 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.28 lbf.in (10.2 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal output power	700 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase
Nominal torque	29.21 Lbf.In (3.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 24.78 lbf.in (2.8 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase
Product compatibility	LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single 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	240 V
Phase	Three phase
Continuous stall current	5.11 A
Continuous power	1.74 W
Maximum current Irms	15 A LXM32.D30M2 19.4 A LXM32.D18M2
Maximum permanent current	19.38 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	Single turn SinCos Hiperface
Motor flange size	3.94 in (100 mm)
Number of motor stacks	1
Torque constant	0.67 N.m/A 248 °F (120 °C)
Back emf constant	43.3 V/krpm 248 °F (120 °C)

Number of motor poles	10
Rotor inertia	3.19 kg.cm ²
Stator resistance	1.19 Ohm 68 °F (20 °C)
Stator inductance	5.3 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
Type of cooling	Natural convection
Length	5.06 in (128.6 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	7.36 lb(US) (3.34 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485200675
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.66 in (22.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	15.75 in (40.0 cm)
Package 1 Weight	8.02 lb(US) (3.64 kg)

Offer Sustainability

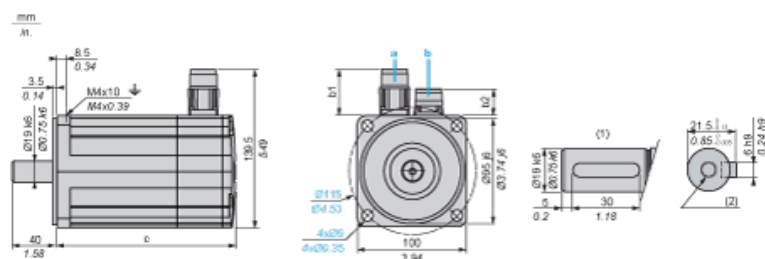
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
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)
(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

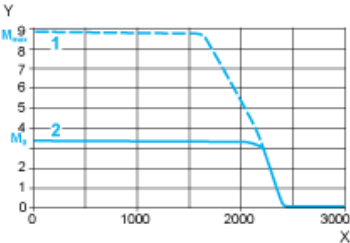
Dimensions in in.

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

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

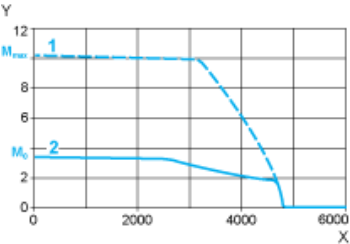


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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