Product data sheet

Specifications



servo motor BMH - 6 Nm - 6000 rpm - keyed shaft - without brake - IP65/ IP67

BMH1002T36A1A

Product availability : Non-Stock - Not normally stocked in distribution facility

Price* : 1,200.00 USD

Main

Product or Component Type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 115 V, single phase 53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 230 V, single phase
Peak stall torque	91.16 lbf.in (10.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 162.85 lbf.in (18.4 N.m) LXM32.D30M2 10 A, 230 V, single phase
Nominal output power	750 W LXM32.D30M2 10 A, 115 V, single phase 1450 W LXM32.D30M2 10 A, 230 V, single phase
Nominal torque	30.98 lbf.in (3.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 40.71 lbf.in (4.6 N.m) LXM32.D30M2 10 A, 230 V, single phase
Nominal speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D30M2 10 A, 230 V, single phase
Product compatibility	LXM32.D30M2 115 V single phase LXM32.D30M2 230 V single phase
Shaft end	Keyed
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 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	8.65 A
Continuous power	2.39 W
Maximum current Irms	15 A LXM32.D30M2 115 V 30 A LXM32.D30M2 230 V
Maximum permanent current	30.24 A
Second shaft	Without second shaft end

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	2
Torque constant	0.72 N.m/A 248 °F (120 °C)
Back emf constant	46.2 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	6.28 kg.cm²
Stator resistance	0.54 Ohm 68 °F (20 °C)
Stator inductance	2.7 mH 68 °F (20 °C)
Stator electrical time constant	5 ms 68 °F (20 °C)
Maximum radial force Fr	990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.32 in (160.6 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	10.85 lb(US) (4.92 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485197487
Nbr. of units in pkg.	1
Package weight(Lbs)	11.51 lb(US) (5.22 kg)
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	8.66 in (22 cm)
Package 1 width	7.87 in (20 cm)
Package 1 Length	15.75 in (40 cm)

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
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.
PVC free	Yes

Contractual warranty

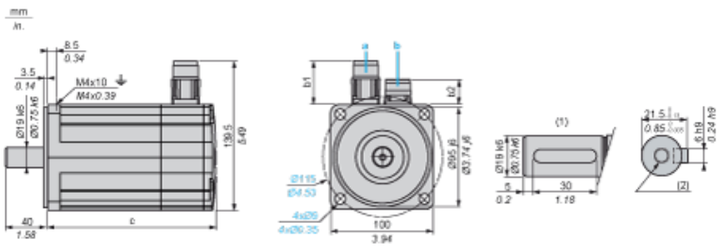
Warranty	18 months

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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)
(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	160	202

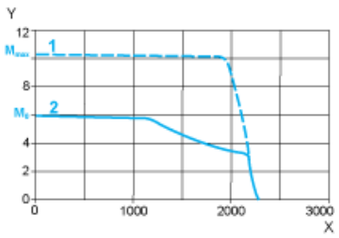
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	6.29	7.95

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

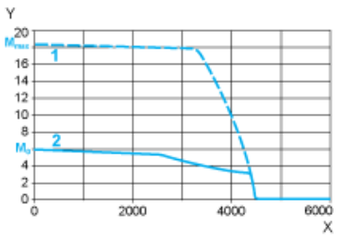


X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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