BMH1002T37F1A

servo motor BMH - 6 Nm - 6000 rpm - keyed shaft - with brake - IP65/IP67





Main Product or component Servo motor type ВМН Device short name Maximum mechanical 6000 rpm speed 53.10 Lbf.In (6 N.m) LXM32.D30M2 10 A, 115 V, Continuous stall torque single phase 53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 230 V, single phase 91.16 Lbf.In (10.3 N.m) LXM32.D30M2 10 A, 115 V, Peak stall torque single phase 162.85 lbf.in (18.4 N.m) LXM32.D30M2 10 A, 230 V, single phase 750 W LXM32.D30M2 10 A, 115 V, single phase Nominal output power 1450 W LXM32.D30M2 10 A, 230 V, single phase 30.98 Lbf.In (3.5 N.m) LXM32.D30M2 10 A, 115 V, Nominal torque 40.71 lbf.in (4.6 N.m) LXM32.D30M2 10 A, 230 V, single phase 2000 rpm LXM32.D30M2 10 A, 115 V, single phase Nominal speed 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 32768 points/turn x 4096 turns Speed feedback resolution Holding brake With Mounting support International standard flange

Straight connectors

Complementary

Complementary				
Range compatibility	Lexium 32			
[Us] rated supply voltage	240 V	240 V		
Phase	Three 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	Without second shaft end		
Shaft diameter	0.75 in (19 mm)	0.75 in (19 mm)		
Shaft length	1.57 in (40 mm)	1.57 in (40 mm)		
Key width	1.18 in (30 mm)	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	2			
Torque constant	0.72 N.m/A 248 °F (120 °C)			
Back emf constant	46.2 V/krpm 248 °F (120 °C)			

Electrical connection

Number of motor poles	10		
Rotor inertia	6.77 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		
Brake pull-in power	12 W		
Type of cooling	Natural convection		
Length	7.96 in (202.3 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	14.11 lb(US) (6.4 kg)		

Ordering and shipping details

18282 - LEXIUM 32 MOTORS		
PC53		
03606485197678		
1		
1 lb(US) (0.45 kg)		
No		

Packing Units

Unit Type of Package 1	PCE	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

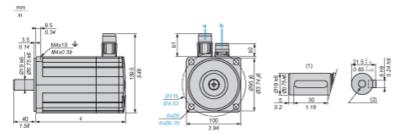
Contractadi Warranty			
Warranty	18 months		

Product data sheet Dimensions Drawings

BMH1002T37F1A

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

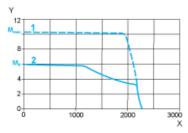
Product data sheet **Performance Curves**

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115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

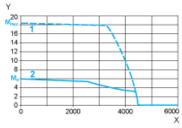


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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