BMH1002P12A1A

servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, keyed shaft, without brake, IP54, 128 multiturn encoder, straight





Main	
Product or Component Type	Servo motor
Device short name	ВМН
Maximum mechanical speed	6000 rpm
Continuous stall torque	54.87 Lbf.In (6.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D18N4 6 A, 480 V, three phase
Peak stall torque	162.85 Lbf.In (18.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 162.85 lbf.in (18.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal output power	1600 W LXM32.D18N4 6 A, 400 V, three phase 1600 W LXM32.D18N4 6 A, 480 V, three phase
Nominal torque	34.52 Lbf.In (3.9 N.m) LXM32.D18N4 6 A, 400 V, three phase 34.52 lbf.in (3.9 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal speed	4000 rpm LXM32.D18N4 6 A, 400 V, three phase 4000 rpm LXM32.D18N4 6 A, 480 V, three phase
Product compatibility	LXM32.D18N4 400480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP54 standard
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting Support	International standard flange
Electrical Connection	Straight connectors

Complementary

Complementary		
Range Compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Phase	Three phase	
Continuous stall current	5.04 A	
Continuous power	2.36 W	
Maximum current Irms	18 A LXM32.D18N4	
Maximum permanent current	18.23 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	
Motor flange size	3.94 in (100 mm)	
Number of motor stacks	2	
Torque constant	1.2 N.m/A 248 °F (120 °C)	
Back emf constant	77 V/krpm 248 °F (120 °C)	
Number of motor poles	10	
Rotor inertia	6.28 kg.cm ²	

Stator resistance	1.51 Ohm 68 °F (20 °C)		
Stator inductance	7.5 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	3606485195889
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	11.51 lb(US) (5.22 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 specifi waste collection and never end up in rubbish bins.			
PVC free	Yes			

Contractual warranty

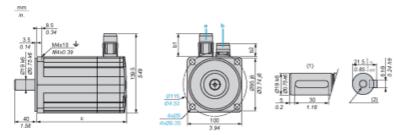
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Warranty	18 months

Product data sheet **Dimensions Drawings**

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Servo Motors Dimensions

Example with Straight Connectors



- Power supply for servo motor brake
- 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 connector	s	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	3	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

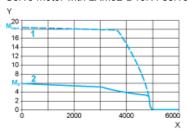
Product data sheet **Performance Curves**

BMH1002P12A1A

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

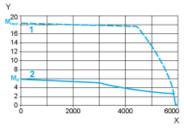


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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