Product datasheet

Specification





servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, keyed shaft, with brake, IP54, 128bit encoder, straight

BMH1002P11F1A

Main

Product Or Component Type	Servo motor			
Device Short Name	вмн			
Maximum Mechanical Speed	6000 rpm			
Continuous Stall Torque	6.2 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 6.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase			
Peak Stall Torque	18.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 18.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase			
Nominal Output Power	1600 W for LXM32.D18N4 at 6 A, 400 V, three phase 1600 W for LXM32.D18N4 at 6 A, 480 V, three phase			
Nominal Torque	3.9 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.9 N.m for LXM32.D18N4 at 6 A, 480 V, three phase			
Nominal Speed	4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase			
Product Compatibility	LXM32.D18N4 at 400480 V three phase			
Shaft End	Keyed			
Ip Degree Of Protection	IP54 standard			
Speed Feedback Resolution	131072 points/turn			
Holding Brake	With			
Mounting Support	International standard flange			
Electrical Connection	Straight connectors			

Complementary

Range Compatibility	Lexium 32		
[Us] Rated Supply Voltage	480 V		
Network Number Of Phases	Three phase		
Continuous Stall Current	5.04 A		
Continuous Power	2.36 W		
Maximum Current Irms	18 A for LXM32.D18N4		
Maximum Permanent Current	18.23 A		
Second Shaft	Without second shaft end		
Shaft Diameter	19 mm		
Shaft Length	40 mm		
Key Width	30 mm		
Feedback Type	Single turn SinCos Hiperface		

Holding Torque	5.5 N.m holding brake			
Motor Flange Size	100 mm			
Number Of Motor Stacks	2			
Torque Constant	1.2 N.m/A at 120 °C			
Back Emf Constant	77 V/krpm at 120 °C			
Number Of Motor Poles	10			
Rotor Inertia	6.77 kg.cm ²			
Stator Resistance	1.51 Ohm at 20 °C			
Stator Inductance	7.5 mH at 20 °C			
Stator Electrical Time Constant	5 ms at 20 °C			
Maximum Radial Force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm			
Maximum Axial Force Fa	0.2 x Fr			
Brake Pull-In Power	12 W			
Type Of Cooling	Natural convection			
Length	202.3 mm			
Centring Collar Diameter	95 mm			
Centring Collar Depth	3.5 mm			
Number Of Mounting Holes	4			
Mounting Holes Diameter	9 mm			
Circle Diameter Of The Mounting Holes	115 mm			
Net Weight	6.4 kg			

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	22.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	6.68 kg

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

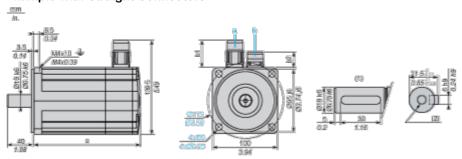
Circularity Profile	No need of specific recycling operations		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Environmental Disclosure	Product Environmental Profile		
China Rohs Regulation	China RoHS declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Reach Regulation	REACh Declaration		

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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		- (i4b4 bl)	a (with handsa)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	160	202

Dimensions in in.

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

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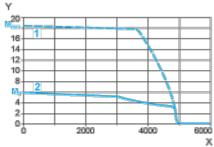
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

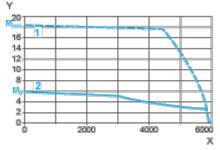


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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