BMH1002P11A2A

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





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		
Holding brake	Without		
Mounting Support	International standard flange		
Electrical Connection	Rotatable right-angled connectors		

Complementary

- Citipionitally			
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	Single turn 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.cm²		

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	US1PC5318282		
Discount Schedule	PC53	PC53	
GTIN	3606485200415		
Returnability	Yes		
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 (22.000 cm)		
Package 1 Width	7.87 in (20.000 cm)		
Package 1 Length	15.75 in (40.000 cm)		
Package 1 Weight	13.43 lb(US) (6.091 kg)		
Unit Type of Package 2	P06		
Number of Units in Package 2	12		
Package 2 Height	29.53 in (75.000 cm)		
Package 2 Width	23.62 in (60.000 cm)		
Package 2 Length	31.50 in (80.000 cm)		
Package 2 Weight	175.27 lb(US) (79.500 kg)		

Offer Sustainability

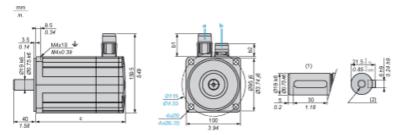
Sustainable offer status Green Premium product				
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			
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			

Warranty 18 months

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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) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors	5	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	nectors 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

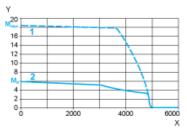
Product data sheet Performance Curves

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

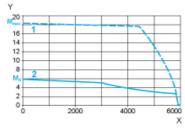


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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
- Continuous torque