BMH1002P06A2A

servo motor BMH, Lexium 32, 6.2Nm, 6000rpm, untapped shaft, without brake, IP54, 16bit encoder





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	Smooth shaft		
IP degree of protection	IP54 standard		
Speed feedback resolution	32768 points/turn		
Holding brake	Without		
Mounting support	International standard flange		
Electrical connection	Rotatable right-angled connectors		

Complementary

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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		
Feedback type	Single turn SinCos Hiperface		
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		

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.

Number of motor poles	10	
Rotor inertia	6.28 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	
Type of cooling	Natural convection	
Length	160.6 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	4.92 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.000 cm
Package 1 Width	19.500 cm
Package 1 Length	40.000 cm
Package 1 Weight	6.087 kg
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Height	105.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	114.000 kg

Offer Sustainability

Sustainable offer status	Green Premium product			
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			

Contractual warranty

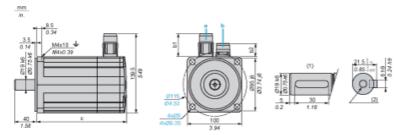
Warranty	18 months
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Product data sheet **Dimensions Drawings**

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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.

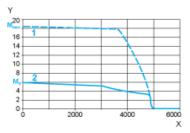
Straight connectors	3	Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	6.29	7.95

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

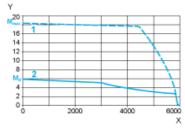


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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