BMH1003P12F1A

servo motor BMH - 8.4 Nm - 6000 rpm - keyed shaft - with brake - IP54





Main

Device short name		
201100 011011 1101110	ВМН	
Maximum mechanical speed	6000 rpm	
Continuous stall torque	8.4 N.m for LXM32.D30N4 10 A at 400 V three phase 8.4 N.m for LXM32.D30N4 10 A at 480 V three phase	
Peak stall torque	25.1 N.m for LXM32.D30N4 10 A at 400 V three phase 25.1 N.m for LXM32.D30N4 10 A at 480 V three phase	
Nominal output power	2700 W for LXM32.D30N4 10 A at 400 V three phase 2700 W for LXM32.D30N4 10 A at 480 V three phase	
Nominal torque	6.2 N.m for LXM32.D30N4 10 A at 400 V three phase 6.2 N.m for LXM32.D30N4 10 A at 480 V three phase	
Nominal speed	4000 rpm for LXM32.D30N4 10 A at 400 V three phase 4000 rpm for LXM32.D30N4 10 A at 480 V three phase	
Product compatibility	LXM32.D30N4 at 400480 V three phase	
Shaft end	Keyed	
IP degree of protection	IP54 (standard)	
Speed feedback resolution	131072 points/turn x 4096 turns	
Holding brake	With	
Mounting support	International standard flange	
Electrical connection	Straight connectors	

Complementary

Complementary			
Range compatibility	Lexium 32		
[Us] rated supply voltage	480 V		
Network number of phases	Three phase		
Continuous stall current	7.69 A		
Continuous power	3.3 W		
Maximum current Irms	29.1 A for LXM32.D30N4		
Maximum permanent current	29.1 A		
Second shaft	Without second shaft end		
Shaft diameter	19 mm		
Shaft length	40 mm		
Key width	30 mm		
Feedback type	Multiturn SinCos Hiperface		
Holding torque	9 N.m (holding brake)		
Motor flange size	100 mm		
Number of motor stacks	3		

Torque constant	1 N.m/A at 120 °C		
Back emf constant	63.5 V/krpm at 120 °C		
Number of motor poles	10		
Rotor inertia	10.3 kg.cm²		
Stator resistance	0.63 Ohm at 20 °C		
Stator inductance	4 mH at 20 °C		
Stator electrical time constant	6.3 ms at 20 °C		
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Brake pull-in power	18 W		
Type of cooling	Natural convection		
Length	234.3 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		
Product weight	8.15 kg		

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

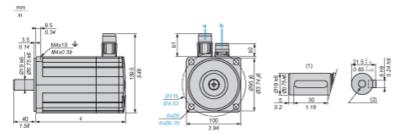


Product data sheet **Dimensions Drawings**

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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 connectors		Rotatable angled connectors		c (without brake)	c (with brake)	
	b1	b2	b1	b2		
	39.5	25.5	39.5	39.5	192	234

Dimensions in in.

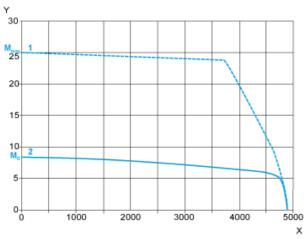
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

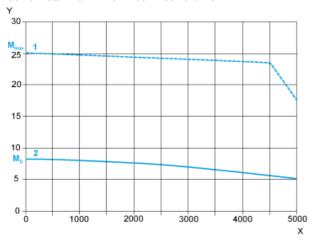


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



- Speed in rpm
- Torque in Nm
- Peak torque 1
- Continuous torque