BMH1003P02A2A

servo motor BMH - 8.4 Nm - 6000 rpm - untapped shaft - without brake - IP54





Main

Product or component type	Servo motor
Device short name	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	Untapped
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	Rotatable right-angled 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	
Feedback type	Multiturn SinCos Hiperface	
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	9.37 kg.cm ²		
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		
Type of cooling	Natural convection		
Length	192.6 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		
Product weight	6.5 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		

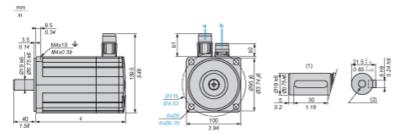


Product data sheet Dimensions Drawings

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Servo Motors Dimensions

Example with Straight Connectors



- 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		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	192	234

Dimensions in in.

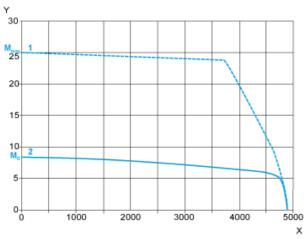
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

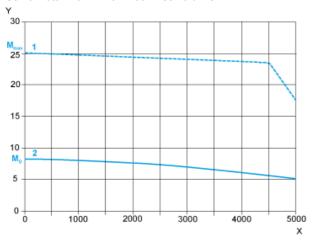


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

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