BMH1001P02A2A

servo motor BMH - 3.3 Nm - 6000 rpm - untapped shaft - without brake - IP54





Main

IVIAIII	
Product or component type	Servo motor
Device short name	ВМН
Maximum mechanical speed	6000 rpm
Continuous stall torque	3.3 N.m for LXM32.D12N4 3 A at 480 V three phase 3.3 N.m for LXM32.D12N4 3 A at 400 V three phase 3.4 N.m for LXM32.D18N4 6 A at 480 V three phase 3.4 N.m for LXM32.D18N4 6 A at 400 V three phase
Peak stall torque	10.8 N.m for LXM32.D18N4 6 A at 480 V three phase 10.8 N.m for LXM32.D18N4 6 A at 400 V three phase 10.8 N.m for LXM32.D12N4 3 A at 480 V three phase 10.8 N.m for LXM32.D12N4 3 A at 400 V three phase
Nominal output power	800 W for LXM32.D12N4 3 A at 480 V three phase 800 W for LXM32.D12N4 3 A at 400 V three phase 1300 W for LXM32.D18N4 6 A at 480 V three phase 1300 W for LXM32.D18N4 6 A at 400 V three phase
Nominal torque	3.1 N.m for LXM32.D18N4 6 A at 480 V three phase 3.1 N.m for LXM32.D18N4 6 A at 400 V three phase 1.9 N.m for LXM32.D12N4 3 A at 480 V three phase 1.9 N.m for LXM32.D12N4 3 A at 400 V three phase
Nominal speed	4000 rpm for LXM32.D18N4 6 A at 480 V three phase 4000 rpm for LXM32.D18N4 6 A at 400 V three phase 4000 rpm for LXM32.D12N4 3 A at 480 V three phase 4000 rpm for LXM32.D12N4 3 A at 400 V three phase
Product compatibility	LXM32.D18N4 at 400480 V three phase LXM32.D12N4 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

Range compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Network number of phases	Three phase	
Continuous stall current	3.15 A	
Continuous power	1.76 W	
Maximum current Irms	11.9 A for LXM32.D18N4 11.9 A for LXM32.D12N4	
Maximum permanent current	mum permanent current 11.93 A	
Second shaft	Without second shaft end	
Shaft diameter	19 mm	

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Shaft length	40 mm		
Feedback type	Multiturn SinCos Hiperface		
Motor flange size	100 mm		
Number of motor stacks	1		
Torque constant	1.1 N.m/A at 120 °C		
Back emf constant	70.3 V/krpm at 120 °C		
Number of motor poles	10		
Rotor inertia	3.19 kg.cm²		
Stator resistance	3.1 Ohm at 20 °C		
Stator inductance	13.9 mH at 20 °C		
Stator electrical time constant	4.5 ms at 20 °C		
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm		
Maximum axial force Fa	0.2 x Fr		
Type of cooling	Natural convection		
Length	128.6 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	3.34 kg		

Offer Sustainability

Sustainable offer status	Green Premium product	
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	

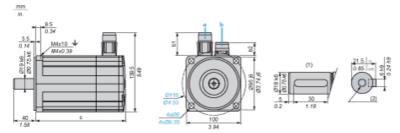


Product data sheet **Dimensions Drawings**

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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	connectors Rotatable angled connectors		ors	c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	128	170

Dimensions in in.

Straight connectors	3	Rotatable angled connecte	ors	c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	5.03	6.69

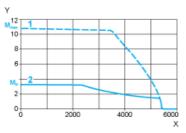
Product data sheet Performance Curves

BMH1001P02A2A

400 V 3-Phase Supply Voltage

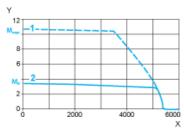
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive

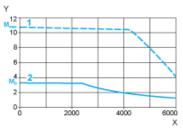


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

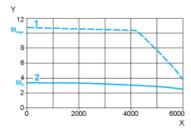
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive



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