BMH1003P17F2A

servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, keyed shaft, with brake, IP54, 16 multiturn encoder





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 at 10 A, 400 V, three phase 8.4 N.m for LXM32.D30N4 at 10 A, 480 V, three phase
Peak stall torque	25.1 N.M for LXM32.D30N4 at 10 A, 400 V, three phase 25.1 N.m for LXM32.D30N4 at 10 A, 480 V, three phase
Nominal output power	2700 W for LXM32.D30N4 at 10 A, 400 V, three phase 2700 W for LXM32.D30N4 at 10 A, 480 V, three phase
Nominal torque	6.2 N.M for LXM32.D30N4 at 10 A, 400 V, three phase 6.2 N.m for LXM32.D30N4 at 10 A, 480 V, three phase
Nominal speed	4000 rpm for LXM32.D30N4 at 10 A, 400 V, three phase 4000 rpm for LXM32.D30N4 at 10 A, 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	32768 points/turn x 4096 turns
Holding brake	With
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	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	

1 May, 2024

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			
Net weight	8.15 kg			

Packing Units

Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	19.500 cm		
Package 1 Width	22.000 cm		
Package 1 Length	39.500 cm		
Package 1 Weight	8.620 kg		
Unit Type of Package 2	S04		
Number of Units in Package 2	2		
Package 2 Height	30 cm		
Package 2 Width	40 cm		
Package 2 Length	60 cm		
Package 2 Weight	17.890 kg		
Unit Type of Package 3	P06		
Number of Units in Package 3	8		
Package 3 Height	75.000 cm		
Package 3 Width	80.000 cm		
Package 3 Length	60.000 cm		
Package 3 Weight	79.560 kg		

Offer Sustainability

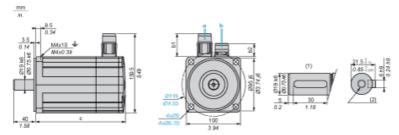
Sustainable offer status	Green Premium product		
REACh Regulation	☑ REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
Mercury free	Yes		
China RoHS Regulation	[™] China RoHS Declaration		
RoHS exemption information	₫Yes		
Environmental Disclosure	Product 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		

Warranty 18 months

BMH1003P17F2A

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		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.

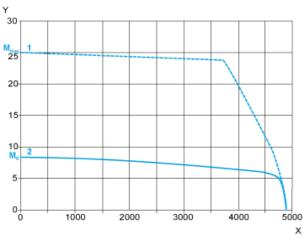
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

BMH1003P17F2A

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

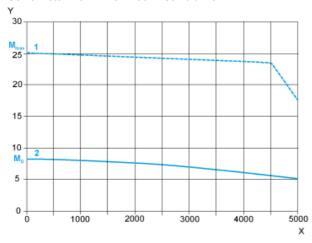


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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