BMH1403P16F2A

servo motor BMH - 24 Nm - 4000 rpm - keyed shaft - with brake - IP54





Main

Product or component type	Servo motor		
Device short name	ВМН		
Maximum mechanical speed	4000 rpm		
Continuous stall torque	24 N.m for LXM32.D72N4 24 A at 400 V three phase 24 N.m for LXM32.D72N4 24 A at 480 V three phase		
Peak stall torque	71.8 N.m for LXM32.D72N4 24 A at 400 V three phase 71.8 N.m for LXM32.D72N4 24 A at 480 V three phase		
Nominal output power	4700 W for LXM32.D72N4 24 A at 400 V three phase 4700 W for LXM32.D72N4 24 A at 480 V three phase		
Nominal torque	14.3 N.m for LXM32.D72N4 24 A at 400 V three phase 14.3 N.m for LXM32.D72N4 24 A at 480 V three phase		
Nominal speed	3000 rpm for LXM32.D72N4 24 A at 400 V three phase 3000 rpm for LXM32.D72N4 24 A at 480 V three phase		
Product compatibility	LXM32.D72N4 at 400480 V three phase		
Shaft end	Keyed		
IP degree of protection	IP54 (standard)		
Speed feedback resolution	32768 points/turn		
Holding brake	With		
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	18 A	
Continuous power	4.8 W	
Maximum current Irms	62.3 A for LXM32.D72N4	
Maximum permanent current	62.3 A	
Second shaft	Without second shaft end	
Shaft diameter	24 mm	
Shaft length	50 mm	
Key width	40 mm	
Feedback type	Single turn SinCos Hiperface	
Holding torque	23 N.m (holding brake)	
Motor flange size	140 mm	
Number of motor stacks	3	

Torque constant	1.34 N.m/A at 120 °C		
Back emf constant	85.9 V/krpm at 120 °C		
Number of motor poles	10		
Rotor inertia	50.27 kg.cm²		
Stator resistance	0.22 Ohm at 20 °C		
Stator inductance	3 mH at 20 °C		
Stator electrical time constant	13.6 ms at 20 °C		
Maximum radial force Fr	2420 N at 1000 rpm 1920 N at 2000 rpm 1680 N at 3000 rpm		
Maximum axial force Fa	0.2 x Fr		
Brake pull-in power	19 W		
Type of cooling	Natural convection		
Length	267 mm		
Centring collar diameter	130 mm		
Centring collar depth	3.5 mm		
Number of mounting holes	4		
Mounting holes diameter	11 mm		
Circle diameter of the mounting holes	165 mm		
Product weight	18.5 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	

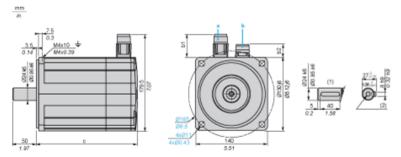


Product data sheet Dimensions Drawings

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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 M8 x 25 mm/M8 x 0.98 in.

Dimensions in mm

Straight connectors	traight connectors Rotatable angled connectors		c (without brake)	c (with brake)	
b	b1	b	b1		
39.5	25.5	39.5	39.5	232	267

Dimensions in in.

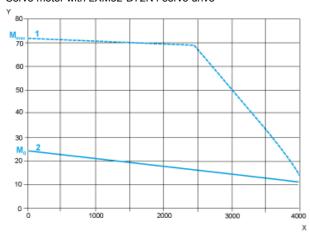
Straight connectors Rotatable angled of		Rotatable angled connecte	ors	c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	9.13	10.51

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

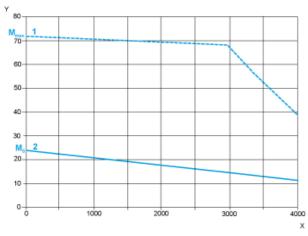


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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