BMH1402P37F2A

servo motor BMH - 18.5 Nm - 4000 rpm - keyed shaft - with brake - IP65/IP67





Main

Product or component type	Servo motor		
Device short name	ВМН		
Maximum mechanical speed	4000 rpm		
Continuous stall torque	18.5 N.m for LXM32.D72N4 24 A at 400 V three phase 18.5 N.m for LXM32.D72N4 24 A at 480 V three phase		
Peak stall torque	50.3 N.m for LXM32.D72N4 24 A at 400 V three phase 50.3 N.m for LXM32.D72N4 24 A at 480 V three phase		
Nominal output power	3500 W for LXM32.D72N4 24 A at 400 V three phase 3500 W for LXM32.D72N4 24 A at 480 V three phase		
Nominal torque	12.2 N.m for LXM32.D72N4 24 A at 400 V three phase 12.2 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	IP65 (standard) IP67 (with IP67 kit)		
Speed feedback resolution	32768 points/turn x 4096 turns		
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	16.83 A		
Continuous power	4.44 W		
Maximum current Irms	57.4 A for LXM32.D72N4		
Maximum permanent current	57.4 A		
Second shaft	Without second shaft end		
Shaft diameter	24 mm		
Shaft length	50 mm		
Key width	40 mm		
Feedback type	Multiturn SinCos Hiperface		
Holding torque	18 N.m (holding brake)		
Motor flange size	140 mm		
Number of motor stacks	or stacks 2		

Torque constant	1.1 N.m/A at 120 °C		
Back emf constant	70.7 V/krpm at 120 °C		
Number of motor poles	10		
Rotor inertia	33.5 kg.cm²		
Stator resistance	0.23 Ohm at 20 °C		
Stator inductance	3 mH at 20 °C		
Stator electrical time constant	13 ms at 20 °C		
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm		
Maximum axial force Fa	0.2 x Fr		
Brake pull-in power	18 W		
Type of cooling	Natural convection		
Length	227 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	14.3 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		

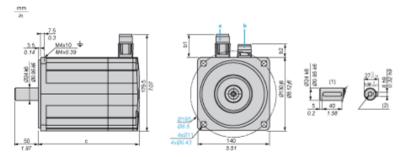


Product data sheet Dimensions Drawings

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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 Rotatable ang		Rotatable angled connec	ctors	c (without brake)	c (with brake)
b	b1	b	b1		
39.5	25.5	39.5	39.5	192	227

Dimensions in in.

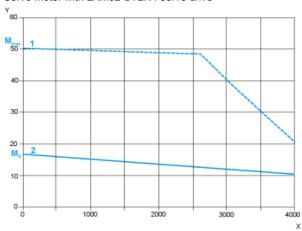
Straight connectors	5	Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	7.55	8.93

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

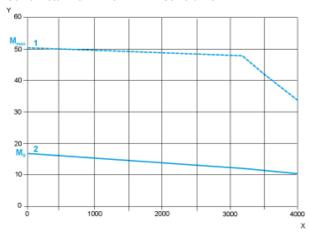


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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