BMH2053P01F2A

servo motor BMH - 84 Nm - 3800 rpm - untapped shaft - with brake - IP54





Main

Product or component type	Servo motor				
Device short name	ВМН				
Maximum mechanical speed	3800 rpm				
Continuous stall torque	84 N.m for LXM32.D72N4 24 A at 400 V three phase 84 N.m for LXM32.D72N4 24 A at 480 V three phase				
Peak stall torque	232 N.m for LXM32.D72N4 24 A at 400 V three phase 232 N.m for LXM32.D72N4 24 A at 480 V three phase				
Nominal output power	6500 W for LXM32.D72N4 24 A at 400 V three phase 6500 W for LXM32.D72N4 24 A at 480 V three phase				
Nominal torque	52.2 N.m for LXM32.D72N4 24 A at 400 V three phase 52.2 N.m for LXM32.D72N4 24 A at 480 V three phase				
Nominal speed	1200 rpm for LXM32.D72N4 24 A at 400 V three phase 1200 rpm for LXM32.D72N4 24 A at 480 V three phase				
Product compatibility	LXM32.D72N4 at 400480 V three phase				
Shaft end	Untapped				
IP degree of protection	IP54 (standard)				
Speed feedback resolution	131072 points/turn				
Holding brake	With				
Mounting support	International standard flange				
Electrical connection	Rotatable right-angled connectors				
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	25.2 A				
Continuous power	9.6 W				
Maximum current Irms	72 A for LXM32.D72N4				
Maximum permanent current	107.4 A				
Second shaft	Without second shaft end				
Shaft diameter	38 mm				
Shaft length	80 mm				
Feedback type	Single turn SinCos Hiperface				
Holding torque	80 N.m (holding brake)				
Motor flange size	205 mm				
Number of motor stacks	3				
Torque constant	3.5 N.m/A at 120 °C				

Back emf constant	218 V/krpm at 120 °C				
Number of motor poles	10				
Rotor inertia	206 kg.cm²				
Stator resistance	0.32 Ohm at 20 °C				
Stator inductance	6.9 mH at 20 °C				
Stator electrical time constant	21.6 ms at 20 °C				
Maximum radial force Fr	4500 N at 1000 rpm 3570 N at 2000 rpm 3120 N at 3000 rpm				
Maximum axial force Fa	0.2 x Fr				
Brake pull-in power	40 W				
Type of cooling	Natural convection				
Length	538.5 mm				
Centring collar diameter	180 mm				
Centring collar depth	4 mm				
Number of mounting holes	4				
Mounting holes diameter	14 mm				
Circle diameter of the mounting holes	215 mm				
Product weight	71.9 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				

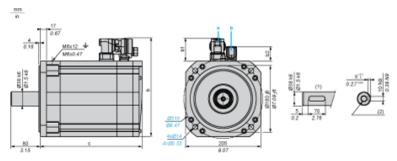


Product data sheet Dimensions Drawings

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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 M12 x 28 mm/M12 x 1.10 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors			c (without brake)	c (with brake)	
b	b1	b2	b	b1	b2		
259	54	25.5	265	60	39.5	489	538.5

Dimensions in in.

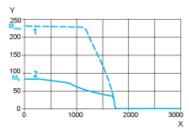
Straight connectors		Rotatable angled connectors			c (without brake)	c (with brake)	
b	b1	b2	b	b1	b2		
10.19	2.12	1.00	10.43	2.36	1.55	19.25	21.20

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

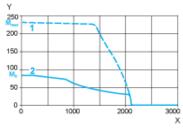


- Χ Speed in rpm
- Torque in Nm
- Peak torque
- 2 Continuous torque

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