BSH1403T02F1P

AC servo motor BSH - 27.8 N.m - 3000 rpm - untapped shaft - with brake - IP50





Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	4800 rpm
Continuous stall torque	27.8 N.m for LXM32.D72N4 24 A at 400 V three phase 27.8 N.m for LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	90.2 N.m for LXM32.D72N4 24 A at 400 V three phase 90.2 N.m for LXM32.D72N4 24 A at 480 V three phase
Nominal output power	4100 W for LXM32.D72N4 24 A at 400 V three phase 4100 W for LXM32.D72N4 24 A at 480 V three phase
Nominal torque	12.9 N.m for LXM32.D72N4 24 A at 400 V three phase 12.9 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 400 V three phase LXM32.D72N4 at 480 V three phase
Shaft end	Untapped
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard
Electrical connection	Straight connectors

Complementary

Complementary				
Range compatibility	Lexium 32			
Supply voltage max	480 V			
Network number of phases	Three phase			
Continuous stall current	22.3 A			
Maximum continuous power	3.3 W			
Maximum current Irms	72 A for LXM32.D72N4			
Maximum permanent current	81.3 A			
Switching frequency	8 kHz			
Second shaft	Without second shaft end			
Shaft diameter	24 mm			
Shaft length	50 mm			
Feedback type	Multiturn SinCos Hiperface			
Holding torque	36 N.m (holding brake)			
Motor flange size	140 mm			
Number of motor stacks	3			

Torque constant	1.58 N.m/A at 120 °C				
Back emf constant	105 V/krpm at 120 °C				
Number of motor poles	10				
Rotor inertia	14.48 kg.cm²				
Stator resistance	0.4 Ohm at 20 °C				
Stator inductance	5.1 mH at 20 °C				
Stator electrical time constant	12.75 ms at 20 °C				
Maximum radial force Fr	1780 N at 3000 rpm 2030 N at 2000 rpm 2560 N at 1000 rpm				
Maximum axial force Fa	0.2 x Fr				
Brake pull-in power	26 W				
Type of cooling	Natural convection				
Length	365.5 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	23 kg				

Offer Sustainability

Sustainable offer status	Green Premium product			
RoHS (date code: YYWW)	Compliant - since 1018 - 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			

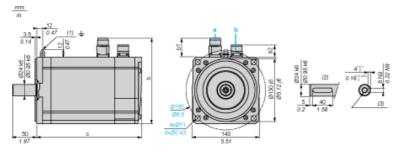


Product data sheet Dimensions Drawings

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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) M4 screw
- (2) Shaft end, keyed slot (optional)
- (3) For screws M8 x 19 mm/M8 x 0.75 in.

Dimensions in mm

Straight con	nectors	Rotatable angled connectors		c (without brake)	c (with brake)		
b	b1	b2	b	b1	b2		
192.5	54	25.5	198.5	60	39.5	328	366

Dimensions in in.

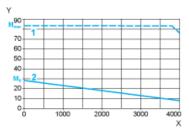
Straight connectors		Rotatable angled connectors			c (without brake)	c (with brake)	
b	b1	b2	b	b1	b2		
7.57	2.12	1.00	7.81	2.36	1.55	12.91	14.40

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

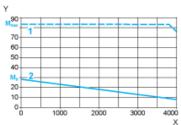


- Speed in rpm
- X Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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