BSH1403T12A1P

AC servo motor BSH - 27.8 N.m - 3000 rpm - keyed shaft - without 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	Keyed
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard
Electrical connection	Straight connectors

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			
Key width	40 mm			
Feedback type	Multiturn SinCos Hiperface			
Motor flange size	140 mm			
Number of motor stacks	3			

1.58 N.m/A at 120 °C				
105 V/krpm at 120 °C				
10				
12.68 kg.cm²				
0.4 Ohm at 20 °C				
5.1 mH at 20 °C				
12.75 ms at 20 °C				
1780 N at 3000 rpm 2030 N at 2000 rpm 2560 N at 1000 rpm				
0.2 x Fr				
Natural convection				
327.5 mm				
130 mm				
3.5 mm				
4				
11 mm				
165 mm				
21.2 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			

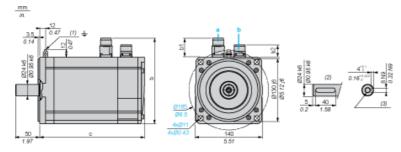


Product data sheet Dimensions Drawings

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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	raight connectors 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.

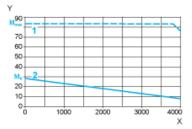
Straight connectors		Rotatable angled connectors			c (without brake)	c (with brake)	
b	b1	b2	b	b1	b2		
7.57	2.12	1.00	7.81	2.36	1.55	12.91	14.40

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

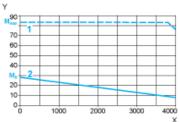


- Speed in rpm
- X Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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