

AC servo motor BSH - 0.5 N.m - 4000 rpm - untapped shaft - without brake - IP50

BSH0551P01A2A

EAN Code: 3389118198517

Main

Device short name	BSH				
Product or component type	Servo motor				
Maximum mechanical speed	9000 rpm				
Continuous stall torque	0.5 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.5 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.5 N.m for LXM15LD13M3, 230 V, single phase 0.5 N.m for LXM15LU60N4, 230 V, three phase				
Peak stall torque	1.5 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 1.5 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 1.4 N.m for LXM15LD13M3, 230 V, single phase 1.4 N.m for LXM15LU60N4, 230 V, three phase				
Nominal output power	300 W for LXM32.U60N4 at 1.5 A, 400 V, three phase 300 W for LXM32.U60N4 at 1.5 A, 480 V, three phase 170 W for LXM15LD13M3, 230 V, single phase 170 W for LXM15LU60N4, 230 V, three phase				
Nominal torque	0.48 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.48 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.46 N.m for LXM15LD13M3, 230 V, single phase 0.46 N.m for LXM15LU60N4, 230 V, three phase				
Nominal speed	6000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase 6000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase 4000 rpm for LXM15LD13M3, 230 V, single phase 4000 rpm for LXM15LU60N4, 230 V, three phase				
Product compatibility	LXM15LD13M3 at 230 V single phase LXM15LU60N4 at 230 V three phase LXM32.U60N4 at 400 V three phase LXM32.U60N4 at 480 V three phase				
Shaft end	Untapped				
IP degree of protection	IP50 standard				
Speed feedback resolution	131072 points/turn				
Holding brake	Without				
Mounting support	International standard flange				
Electrical connection	Rotatable right-angled connectors				

Complementary

Range compatibility	Lexium 15 Lexium 32
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	0.73 A
maximum continuous power	0.45 W

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Maximum current Irms	3.5 A for LXM15LD13M3 3.5 A for LXM15LU60N4 2.9 A for LXM32.U60N4			
Maximum permanent current	2.9 A			
Switching frequency	8 kHz			
Second shaft	Without second shaft end			
Shaft diameter	9 mm			
Shaft length	20 mm			
Feedback type	Single turn SinCos Hiperface			
Motor flange size	55 mm			
Number of motor stacks	1			
Torque constant	0.68 N.m/A at 120 °C			
Back emf constant	40 V/krpm at 120 °C			
Number of motor poles	3.0			
Rotor inertia	0.059 kg.cm²			
Stator resistance	41.8 Ohm at 20 °C			
Stator inductance	37.13 mH at 20 °C			
Stator electrical time constant	1.09 ms at 20 °C			
Maximum radial force Fr	170 N at 8000 rpm 180 N at 7000 rpm 190 N at 6000 rpm 200 N at 5000 rpm 220 N at 4000 rpm 240 N at 3000 rpm 270 N at 2000 rpm 340 N at 1000 rpm			
Maximum axial force Fa	0.2 x Fr			
type of cooling	Natural convection			
Length	132.5 mm			
Centring collar diameter	40 mm			
centring collar depth	2 mm			
Number of mounting holes	4			
Mounting holes diameter	5.5 mm			
Circle diameter of the mounting holes	63 mm			
Net weight	1.2 kg			
Sizing reference	BSH0551P			
Network number of phases	3			
Accuracy error [angular]	1.4 °			
Temperature copper hot	120 °C			
Temperature magnet hot	100 °C			
Temperature magnet rt	20 °C			

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	11.500 cm
Package 1 Width	19.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	1.626 kg
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	4.452 kg
Unit Type of Package 3	P12
Number of Units in Package 3	8
Package 3 Height	45.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	16.160 kg

Logistical informations

Country of origin

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	347
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	8c11b0c9-e501-4810-83eb-05fc6605ede4
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

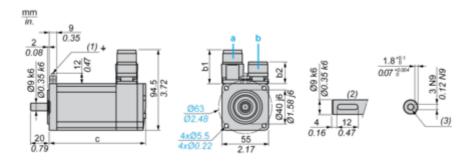
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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Dimensions Drawings

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 screw M3 x 9 mm/M3 x 0.35 in.

Dimensions in mm

Straight c	onnectors	Rotatable angled connectors		- (itht hl)	a (with hands)
b	b1	b	b1	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	132.5	159

Dimensions in in

Dimensione in in.						
Straight c	onnectors	Rotatable angled connectors		a (with a st bunks)	a (with healta)	
b	b1	b	b1	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	5.21	6.25	

Product datasheet

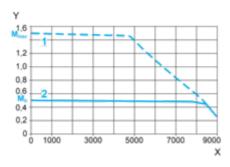
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive

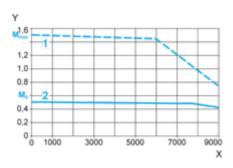


- **X** Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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