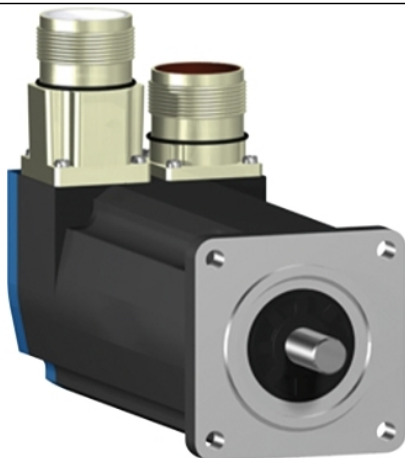


BSH0552P32F 1A

AC servo motor BSH, Lexium 05, 0.9N.m,
4000rpm, keyed shaft, with brake, IP65



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000 rpm
Continuous stall torque	0.8 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.8 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.9 N.M for LXM05CU70M2, 200...240 V, single phase 0.9 N.M for LXM05AD10M2, 200...240 V, single phase 0.9 N.M for LXM05BD10M2, 200...240 V, single phase 0.9 N.M for LXM05CD10M2, 200...240 V, single phase 0.9 N.M for LXM05AD10M3X, 200...240 V, three phase 0.9 N.M for LXM05BD10M3X, 200...240 V, three phase 0.9 N.M for LXM05CD10M3X, 200...240 V, three phase 0.9 N.M for LXM15LD13M3, 230 V, single phase 0.9 N.M for LXM15LD13M3, 230 V, three phase 0.9 N.M for LXM15LU60N4, 230 V, three phase 0.9 N.M for LXM05AD14N4, 380...480 V, three phase 0.9 N.M for LXM05BD14N4, 380...480 V, three phase 0.9 N.m for LXM05CD14N4, 380...480 V, three phase
Peak stall torque	2.5 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase 2.5 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 2.5 N.M for LXM15LD13M3, 230 V, single phase 2.17 N.M for LXM05CU70M2, 200...240 V, single phase 2.7 N.M for LXM05AD10M2, 200...240 V, single phase 2.7 N.M for LXM05BD10M2, 200...240 V, single phase 2.7 N.M for LXM05CD10M2, 200...240 V, single phase 2.5 N.M for LXM15LD13M3, 230 V, three phase 2.26 N.M for LXM15LU60N4, 230 V, three phase 2.7 N.M for LXM05AD10M3X, 200...240 V, three phase 2.7 N.M for LXM05AD14N4, 380...480 V, three phase 2.7 N.M for LXM05BD10M3X, 200...240 V, three phase 2.7 N.M for LXM05BD14N4, 380...480 V, three phase 2.7 N.M for LXM05CD10M3X, 200...240 V, three phase 2.7 N.m for LXM05CD14N4, 380...480 V, three phase

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Nominal output power	400 W for LXM32.U60N4 at 1.5 A, 400 V, three phase 400 W for LXM32.U60N4 at 1.5 A, 480 V, three phase 250 W for LXM05AD10M2, 200...240 V, single phase 250 W for LXM05BD10M2, 200...240 V, single phase 250 W for LXM05CD10M2, 200...240 V, single phase 250 W for LXM05CU70M2, 200...240 V, single phase 310 W for LXM15LD13M3, 230 V, single phase 250 W for LXM05AD10M3X, 200...240 V, three phase 250 W for LXM05AD14N4, 380...480 V, three phase 250 W for LXM05BD10M3X, 200...240 V, three phase 250 W for LXM05BD14N4, 380...480 V, three phase 250 W for LXM05CD10M3X, 200...240 V, three phase 250 W for LXM05CD14N4, 380...480 V, three phase 310 W for LXM15LD13M3, 230 V, three phase 310 W for LXM15LU60N4, 230 V, three phase
Nominal torque	0.65 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.65 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.75 N.M for LXM15LD13M3, 230 V, single phase 2.17 N.M for LXM05CU70M2, 200...240 V, single phase 2.7 N.M for LXM05AD10M2, 200...240 V, single phase 2.7 N.M for LXM05BD10M2, 200...240 V, single phase 2.7 N.M for LXM05CD10M2, 200...240 V, single phase 0.75 N.M for LXM15LD13M3, 230 V, three phase 0.75 N.M for LXM15LU60N4, 230 V, three phase 2.7 N.M for LXM05AD10M3X, 200...240 V, three phase 2.7 N.M for LXM05AD14N4, 380...480 V, three phase 2.7 N.M for LXM05BD10M3X, 200...240 V, three phase 2.7 N.M for LXM05BD14N4, 380...480 V, three phase 2.7 N.M for LXM05CD10M3X, 200...240 V, three phase 2.7 N.m for LXM05CD14N4, 380...480 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 3000 rpm for LXM05CU70M2, 200...240 V, single phase 3000 rpm for LXM05AD10M2, 200...240 V, single phase 3000 rpm for LXM05BD10M2, 200...240 V, single phase 3000 rpm for LXM05CD10M2, 200...240 V, single phase 3000 rpm for LXM05AD10M3X, 200...240 V, three phase 3000 rpm for LXM05AD14N4, 380...480 V, three phase 3000 rpm for LXM05BD10M3X, 200...240 V, three phase 3000 rpm for LXM05BD14N4, 380...480 V, three phase 3000 rpm for LXM05CD10M3X, 200...240 V, three phase 3000 rpm for LXM05CD14N4, 380...480 V, three phase 4000 rpm for LXM15LD13M3, 230 V, three phase

Product compatibility	LXM05AD10M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CU70M2 at 200...240 V single phase 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 LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM15LD13M3 at 230 V three phase LXM05AD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05CD14N4 at 380...480 V three phase
Shaft end	Keyed
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 15 Lexium 05 Lexium 32
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	1.2 A
Maximum continuous power	0.67 W
Maximum current Irms	5.9 A for LXM15LD13M3 5.9 A for LXM15LU60N4 4.8 A for LXM05CU70M2 4.8 A for LXM05AD10M2 4.8 A for LXM05AD10M3X 4.8 A for LXM05AD14N4 4.8 A for LXM05BD10M2 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD14N4 4.8 A for LXM05CD10M2 4.8 A for LXM05CD10M3X 4.8 A for LXM05CD14N4 4.8 A for LXM32.U60N4
Maximum permanent current	4.8 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	9 mm
Shaft length	20 mm
Key width	12 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	0.8 N.m holding brake
Motor flange size	55 mm
Number of motor stacks	2
Torque constant	0.7 N.m/A at 120 °C
Back emf constant	40 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.1173 kg.cm ²
Stator resistance	17.4 Ohm at 20 °C
Stator inductance	35.3 mH at 20 °C
Stator electrical time constant	2.03 ms at 20 °C

Maximum radial force Fr	190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm 260 N at 3000 rpm 290 N at 2000 rpm 370 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	10 W
Type of cooling	Natural convection
Length	181 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	1.6 kg

Packing Units

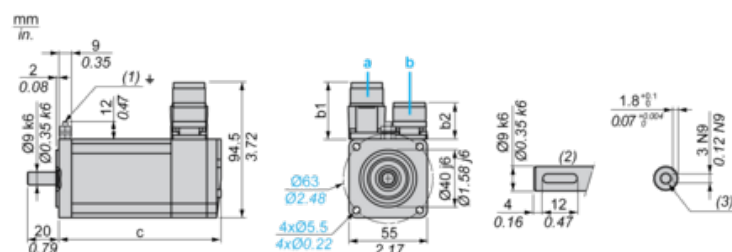
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.3 cm
Package 1 Width	12.8 cm
Package 1 Length	37.7 cm
Package 1 Weight	1.25 kg

Contractual warranty

Warranty	18 months
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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 screw M3 x 9 mm/M3 x 0.35 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
39.5	25.5	39.5	39.5	154.5	181

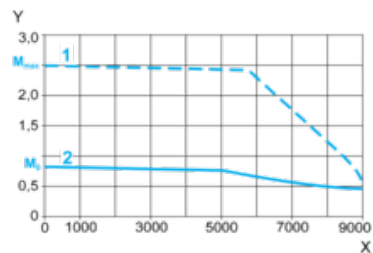
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	6.08	7.12

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



X Speed in rpm

Y Torque in Nm

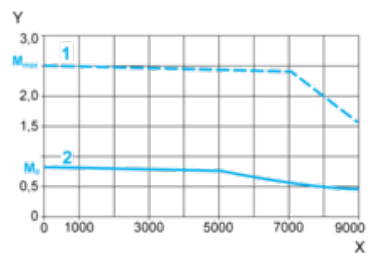
1 Peak torque

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