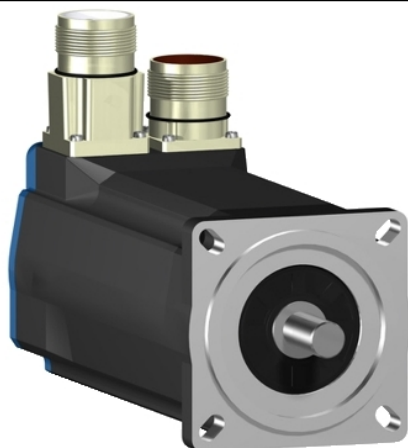


BSH0701P22A1A

AC servo motor BSH - 1.4 N.m - 3000 rpm -
untapped shaft - without brake - IP65



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	12.39 Lbf.In (1.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 12.39 Lbf.In (1.4 N.m) LXM32.D12N4 3 A, 480 V, three phase 12.39 Lbf.In (1.4 N.m) LXM05AD10M3X, 200...240 V, three phase 12.39 Lbf.In (1.4 N.m) LXM05BD10M3X, 200...240 V, three phase 12.39 Lbf.In (1.4 N.m) LXM05CD10M3X, 200...240 V, three phase 12.39 Lbf.In (1.4 N.m) LXM15LD13M3, 230 V, single phase 12.39 Lbf.In (1.4 N.m) LXM05AD10M2, 200...240 V, single phase 12.39 Lbf.In (1.4 N.m) LXM05BD10M2, 200...240 V, single phase 12.39 Lbf.In (1.4 N.m) LXM05CD10M2, 200...240 V, single phase 12.39 lbf.in (1.4 N.m) LXM15LU60N4, 230 V, three phase
Peak stall torque	30.98 Lbf.In (3.5 N.m) LXM32.D12N4 3 A, 400 V, three phase 30.98 Lbf.In (3.5 N.m) LXM32.D12N4 3 A, 480 V, three phase 23.54 Lbf.In (2.66 N.m) LXM05AD10M3X, 200...240 V, three phase 23.54 Lbf.In (2.66 N.m) LXM05BD10M3X, 200...240 V, three phase 23.54 Lbf.In (2.66 N.m) LXM05CD10M3X, 200...240 V, three phase 23.54 Lbf.In (2.66 N.m) LXM15LD13M3, 230 V, single phase 23.54 Lbf.In (2.66 N.m) LXM05AD10M2, 200...240 V, single phase 23.54 Lbf.In (2.66 N.m) LXM05BD10M2, 200...240 V, single phase 23.54 Lbf.In (2.66 N.m) LXM05CD10M2, 200...240 V, single phase 23.54 lbf.in (2.66 N.m) LXM15LU60N4, 230 V, three phase
Nominal output power	700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase 400 W LXM05AD10M2, 200...240 V, single phase 400 W LXM05BD10M2, 200...240 V, single phase 400 W LXM05CD10M2, 200...240 V, single phase 411 W LXM15LD13M3, 230 V, single phase 400 W LXM05AD10M3X, 200...240 V, three phase 400 W LXM05BD10M3X, 200...240 V, three phase 400 W LXM05CD10M3X, 200...240 V, three phase 411 W LXM15LU60N4, 230 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 torque	11.68 Lbf.In (1.32 N.m) LXM32.D12N4 3 A, 400 V, three phase 11.68 Lbf.In (1.32 N.m) LXM32.D12N4 3 A, 480 V, three phase 11.51 Lbf.In (1.3 N.m) LXM05AD10M2, 200...240 V, single phase 11.51 Lbf.In (1.3 N.m) LXM05BD10M2, 200...240 V, single phase 11.51 Lbf.In (1.3 N.m) LXM05CD10M2, 200...240 V, single phase 11.59 Lbf.In (1.31 N.m) LXM15LD13M3, 230 V, single phase 11.51 Lbf.In (1.3 N.m) LXM05AD10M3X, 200...240 V, three phase 11.51 Lbf.In (1.3 N.m) LXM05BD10M3X, 200...240 V, three phase 11.51 Lbf.In (1.3 N.m) LXM05CD10M3X, 200...240 V, three phase 11.59 lbf.in (1.31 N.m) LXM15LU60N4, 230 V, three phase
Nominal speed	5000 rpm LXM32.D12N4 3 A, 400 V, three phase 5000 rpm LXM32.D12N4 3 A, 480 V, three phase 3000 rpm LXM05AD10M2, 200...240 V, single phase 3000 rpm LXM05BD10M2, 200...240 V, single phase 3000 rpm LXM05CD10M2, 200...240 V, single phase 3000 rpm LXM05AD10M3X, 200...240 V, three phase 3000 rpm LXM05BD10M3X, 200...240 V, three phase 3000 rpm LXM05CD10M3X, 200...240 V, three phase 3000 rpm LXM15LD13M3, 230 V, single phase 3000 rpm LXM15LU60N4, 230 V, three phase
Product compatibility	LXM05AD10M2 200...240 V single phase LXM05BD10M2 200...240 V single phase LXM05CD10M2 200...240 V single phase LXM15LD13M3 230 V single phase LXM15LU60N4 230 V three phase LXM05AD10M3X 200...240 V three phase LXM05BD10M3X 200...240 V three phase LXM05CD10M3X 200...240 V three phase LXM32.D12N4 400 V three phase LXM32.D12N4 480 V three phase
Shaft end	Untapped
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	1.8 A
Maximum continuous power	1.06 W
Maximum current Irms	5.7 A LXM05AD10M3X 5.7 A LXM05BD10M2 5.7 A LXM05BD10M3X 5.7 A LXM05CD10M2 5.7 A LXM05CD10M3X 5.3 A LXM15LD13M3 5.3 A LXM15LU60N4 5.7 A LXM05AD10M2 5.7 A LXM32.D12N4

Maximum permanent current	5.7 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	2.76 in (70 mm)
Number of motor stacks	1
Torque constant	0.8 N.m/A 248 °F (120 °C)
Back emf constant	46 V/krpm 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.25 kg.cm ²
Stator resistance	10.4 Ohm 68 °F (20 °C)
Stator inductance	38.8 mH 68 °F (20 °C)
Stator electrical time constant	3.73 ms 68 °F (20 °C)
Maximum radial force Fr	360 N 6000 rpm 380 N 5000 rpm 410 N 4000 rpm 460 N 3000 rpm 520 N 2000 rpm 660 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.06 in (154 mm)
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	3.23 in (82 mm)
Net weight	4.85 lb(US) (2.2 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	03389118135741
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No
Country of origin	DE

Packing Units

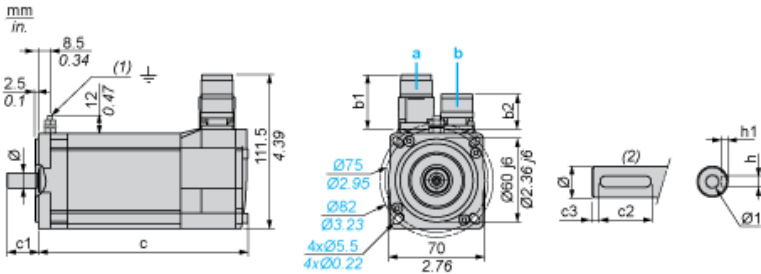
Unit Type of Package 1	PCE
Package 1 Height	4.84 in (12.3 cm)
Package 1 width	5.04 in (12.8 cm)
Package 1 Length	14.84 in (37.7 cm)

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)

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	154	180	23	18	2.5	4 N9	2.5 ^{+0.1} ₀	11 k6	M4 x 10

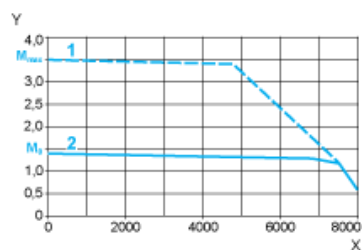
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1.00	1.55	1.55	6.06	7.08	0.90	0.70	0.09	0.16 N9	0.01 ^{+0.004} ₀	0.43 k6	M4 x 0.39

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

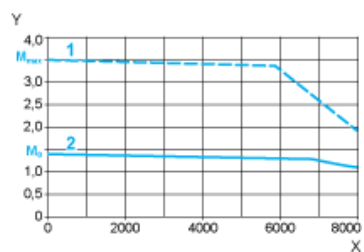


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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