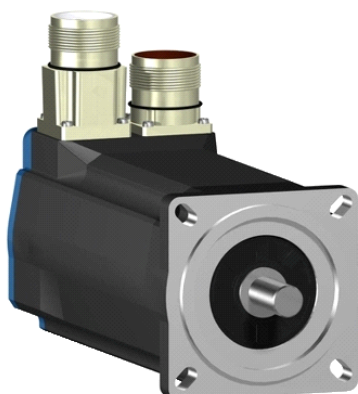




Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	18.76 lbf.in (2.12 N.m) LXM05AD10M2 at 200...240 V single phase 18.76 lbf.in (2.12 N.m) LXM05BD10M2 at 200...240 V single phase 18.76 lbf.in (2.12 N.m) LXM05CD10M2 at 200...240 V single phase 19.47 lbf.in (2.2 N.m) LXM15LD13M3 at 230 V single phase 18.76 lbf.in (2.12 N.m) LXM05AD17M2 at 200...240 V single phase 18.76 lbf.in (2.12 N.m) LXM05BD17M2 at 200...240 V single phase 18.76 lbf.in (2.12 N.m) LXM05CD17M2 at 200...240 V single phase 18.76 lbf.in (2.12 N.m) LXM05AD10M3X at 200...240 V three phase 18.76 lbf.in (2.12 N.m) LXM05BD10M3X at 200...240 V three phase 18.76 lbf.in (2.12 N.m) LXM05CD10M3X at 200...240 V three phase 19.47 lbf.in (2.2 N.m) LXM15LD10N4 at 480 V three phase 18.76 lbf.in (2.12 N.m) LXM05AD17M3X at 200...240 V three phase 18.76 lbf.in (2.12 N.m) LXM05AD14N4 at 380...480 V three phase 18.76 lbf.in (2.12 N.m) LXM05BD17M3X at 200...240 V three phase 18.76 lbf.in (2.12 N.m) LXM05BD14N4 at 380...480 V three phase 18.76 lbf.in (2.12 N.m) LXM05CD17M3X at 200...240 V three phase 18.76 lbf.in (2.12 N.m) LXM05CD14N4 at 380...480 V three phase 19.47 lbf.in (2.2 N.m) LXM15LD10N4 at 230 V three phase 19.47 lbf.in (2.2 N.m) LXM15LD10N4 at 400 V three phase 19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A at 400 V three phase 19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A at 480 V three phase
Peak stall torque	49.82 lbf.in (5.63 N.m) LXM15LD13M3 at 230 V single phase 40.44 lbf.in (4.57 N.m) LXM05AD10M2 at 200...240 V single phase 49.82 lbf.in (5.63 N.m) LXM05AD17M2 at 200...240 V single phase 40.44 lbf.in (4.57 N.m) LXM05BD10M2 at 200...240 V single phase 49.82 lbf.in (5.63 N.m) LXM05BD17M2 at 200...240 V single phase 40.44 lbf.in (4.57 N.m) LXM05CD10M2 at 200...240 V single phase 49.82 lbf.in (5.63 N.m) LXM05CD17M2 at 200...240 V single phase 42.92 lbf.in (4.85 N.m) LXM15LD10N4 at 230 V three phase 42.92 lbf.in (4.85 N.m) LXM15LD10N4 at 400 V three phase 42.92 lbf.in (4.85 N.m) LXM15LD10N4 at 480 V three phase 40.44 lbf.in (4.57 N.m) LXM05AD10M3X at

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.

	200...240 V three phase 49.82 lbf.in (5.63 N.m) LXM05AD17M3X at 200...240 V three phase 49.82 lbf.in (5.63 N.m) LXM05AD14N4 at 380...480 V three phase 40.44 lbf.in (4.57 N.m) LXM05BD10M3X at 200...240 V three phase 49.82 lbf.in (5.63 N.m) LXM05BD17M3X at 200...240 V three phase 49.82 lbf.in (5.63 N.m) LXM05BD14N4 at 380...480 V three phase 40.44 lbf.in (4.57 N.m) LXM05CD10M3X at 200...240 V three phase 49.82 lbf.in (5.63 N.m) LXM05CD17M3X at 200...240 V three phase 49.82 lbf.in (5.63 N.m) LXM05CD14N4 at 380...480 V three phase 67.26 lbf.in (7.6 N.m) LXM32.D12N4 3 A at 400 V three phase 67.26 lbf.in (7.6 N.m) LXM32.D12N4 3 A at 480 V three phase
Nominal output power	597 W LXM15LD13M3 at 230 V single phase 600 W LXM05AD10M2 at 200...240 V single phase 600 W LXM05AD17M2 at 200...240 V single phase 600 W LXM05BD10M2 at 200...240 V single phase 600 W LXM05BD17M2 at 200...240 V single phase 600 W LXM05CD10M2 at 200...240 V single phase 600 W LXM05CD17M2 at 200...240 V single phase 1000 W LXM15LD10N4 at 400 V three phase 1300 W LXM15LD10N4 at 480 V three phase 597 W LXM15LD10N4 at 230 V three phase 600 W LXM05AD10M3X at 200...240 V three phase 600 W LXM05AD14N4 at 380...480 V three phase 600 W LXM05AD17M3X at 200...240 V three phase 600 W LXM05BD10M3X at 200...240 V three phase 600 W LXM05BD14N4 at 380...480 V three phase 600 W LXM05BD17M3X at 200...240 V three phase 600 W LXM05CD10M3X at 200...240 V three phase 600 W LXM05CD14N4 at 380...480 V three phase 600 W LXM05CD17M3X at 200...240 V three phase 850 W LXM32.D12N4 3 A at 400 V three phase 850 W LXM32.D12N4 3 A at 480 V three phase
Nominal torque	16.81 lbf.in (1.9 N.m) LXM05AD10M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM05AD17M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM05BD10M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM05BD17M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM05CD10M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM05CD17M2 at 200...240 V single phase 16.81 lbf.in (1.9 N.m) LXM15LD13M3 at 230 V single phase 13.72 lbf.in (1.55 N.m) LXM15LD10N4 at 480 V three phase 14.6 lbf.in (1.65 N.m) LXM15LD10N4 at 400 V three phase 16.81 lbf.in (1.9 N.m) LXM05AD10M3X at 200...240 V three phase 16.81 lbf.in (1.9 N.m) LXM05AD14N4 at 380...480 V three phase 16.81 lbf.in (1.9 N.m) LXM05AD17M3X at 200...240 V three phase 16.81 lbf.in (1.9 N.m) LXM05BD10M3X at 200...240 V three phase 16.81 lbf.in (1.9 N.m) LXM05BD14N4 at 380...480 V three phase 16.81 lbf.in (1.9 N.m) LXM05BD17M3X at 200...240 V three phase 16.81 lbf.in (1.9 N.m) LXM05CD10M3X at 200...240 V three phase 16.81 lbf.in (1.9 N.m) LXM05CD14N4 at 380...480 V three phase 16.81 lbf.in (1.9 N.m) LXM05CD17M3X at

	200...240 V three phase 16.81 lbf.in (1.9 N.m) LXM15LD10N4 at 230 V three phase 14.51 lbf.in (1.64 N.m) LXM32.D12N4 3 A at 400 V three phase 14.51 lbf.in (1.64 N.m) LXM32.D12N4 3 A at 480 V three phase
Nominal speed	3000 rpm LXM05AD10M2 at 200...240 V single phase 3000 rpm LXM05AD17M2 at 200...240 V single phase 3000 rpm LXM05BD10M2 at 200...240 V single phase 3000 rpm LXM05BD17M2 at 200...240 V single phase 3000 rpm LXM05CD10M2 at 200...240 V single phase 3000 rpm LXM05CD17M2 at 200...240 V single phase 3000 rpm LXM15LD13M3 at 230 V single phase 3000 rpm LXM05AD10M3X at 200...240 V three phase 3000 rpm LXM05AD14N4 at 380...480 V three phase 3000 rpm LXM05BD10M3X at 200...240 V three phase 3000 rpm LXM05BD14N4 at 380...480 V three phase 3000 rpm LXM05CD10M3X at 200...240 V three phase 3000 rpm LXM05CD14N4 at 380...480 V three phase 3000 rpm LXM05AD17M3X at 200...240 V three phase 3000 rpm LXM05BD17M3X at 200...240 V three phase 3000 rpm LXM05CD17M3X at 200...240 V three phase 8000 rpm LXM15LD10N4 at 480 V three phase 3000 rpm LXM15LD10N4 at 230 V three phase 6000 rpm LXM15LD10N4 at 400 V three phase 5000 rpm LXM32.D12N4 3 A at 400 V three phase 5000 rpm LXM32.D12N4 3 A at 480 V three phase
Product compatibility	LXM05AD10M2 at 200...240 V single phase LXM05AD17M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05BD17M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CD17M2 at 200...240 V single phase LXM15LD13M3 at 230 V single phase LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM05AD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05CD14N4 at 380...480 V three phase LXM15LD10N4 at 400 V three phase LXM05AD17M3X at 200...240 V three phase LXM05BD17M3X at 200...240 V three phase LXM05CD17M3X at 200...240 V three phase LXM32.D12N4 at 400 V three phase LXM32.D12N4 at 480 V three phase LXM15LD10N4 at 230 V three phase LXM15LD10N4 at 480 V three phase
Shaft end	Untapped
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 05 Lexium 15
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	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	2.9 A
Continuous power	1.51 W
Maximum current I _{rms}	11.8 A LXM05AD10M2 11.8 A LXM05AD10M3X 11.8 A LXM05AD14N4 11.8 A LXM05AD17M2 11.8 A LXM05AD17M3X 11.8 A LXM05BD10M2 11.8 A LXM05BD10M3X 11.8 A LXM05BD14N4 11.8 A LXM05BD17M2 11.8 A LXM05BD17M3X 11.8 A LXM05CD10M2 11.8 A LXM05CD10M3X 11.8 A LXM05CD14N4 11.8 A LXM05CD17M2 11.8 A LXM05CD17M3X 11.8 A LXM15LD10N4 11.8 A LXM15LD13M3 11.8 A LXM32.D12N4
Maximum permanent current	11.8 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	Single turn SinCos Hiperface
Motor flange size	2.76 in (70 mm)
Number of motor stacks	2
Torque constant	0.77 N.m/A at 248 °F (120 °C)
Back emf constant	48 V/krpm at 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.41 kg.cm ²
Stator resistance	4.2 Ohm at 68 °F (20 °C)
Stator inductance	19 mH at 68 °F (20 °C)
Stator electrical time constant	4.52 ms at 68 °F (20 °C)
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	7.36 in (187 mm)
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.1 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)
Product weight	6.37 lb(US) (2.89 kg)

Environment

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0850 - Schneider Electric declaration of conformity	Compliant - since 0850 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold

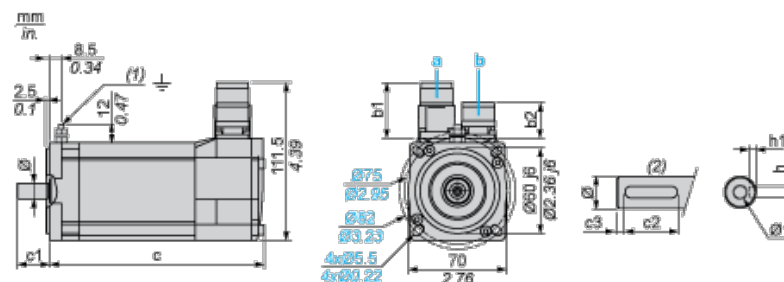
Available	Available
Need no specific recycling operations	Need no specific recycling operations
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	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	187	213	23	18	2.5	4 N9	2.5 ^{+0.1} ₀	11 k6	M4 x 10

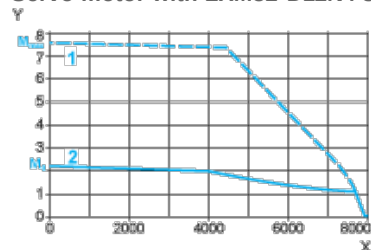
Dimensions in in.

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	7.36	8.38	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

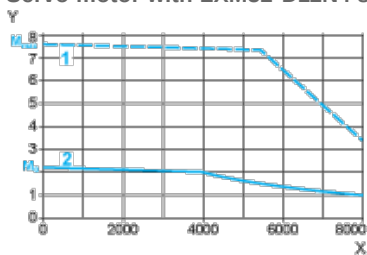


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque

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