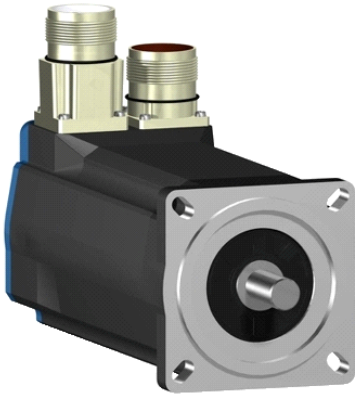




Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	24.78 lbf.in (2.8 N.m) LXM05AD28M2 at 200...240 V single phase 24.78 lbf.in (2.8 N.m) LXM05BD28M2 at 200...240 V single phase 24.78 lbf.in (2.8 N.m) LXM05CD28M2 at 200...240 V single phase 24.78 lbf.in (2.8 N.m) LXM05AD28F1 at 110...120 V single phase 24.78 lbf.in (2.8 N.m) LXM05BD28F1 at 110...120 V single phase 24.78 lbf.in (2.8 N.m) LXM05CD28F1 at 110...120 V single phase 25.04 lbf.in (2.83 N.m) LXM15LD28M3 at 230 V three phase 24.78 lbf.in (2.8 N.m) LXM05AD42M3X at 200...240 V three phase 24.78 lbf.in (2.8 N.m) LXM05BD42M3X at 200...240 V three phase 24.78 lbf.in (2.8 N.m) LXM05CD42M3X at 200...240 V three phase 23.01 lbf.in (2.6 N.m) for LXM32.D18M2 6 A at 230 V single phase
Peak stall torque	65.31 lbf.in (7.38 N.m) LXM05AD28F1 at 110...120 V single phase 65.31 lbf.in (7.38 N.m) LXM05AD28M2 at 200...240 V single phase 65.31 lbf.in (7.38 N.m) LXM05BD28F1 at 110...120 V single phase 65.31 lbf.in (7.38 N.m) LXM05BD28M2 at 200...240 V single phase 65.31 lbf.in (7.38 N.m) LXM05CD28F1 at 110...120 V single phase 65.31 lbf.in (7.38 N.m) LXM05CD28M2 at 200...240 V single phase 65.31 lbf.in (7.38 N.m) LXM15LD28M3 at 230 V three phase 90.71 lbf.in (10.25 N.m) LXM05AD42M3X at 200...240 V three phase 90.71 lbf.in (10.25 N.m) LXM05BD42M3X at 200...240 V three phase 90.71 lbf.in (10.25 N.m) LXM05CD42M3X at 200...240 V three phase 65.49 lbf.in (7.4 N.m) for LXM32.D18M2 6 A at 230 V single phase
Nominal output power	750 W LXM05AD28F1 at 110...120 V single phase 750 W LXM05AD28M2 at 200...240 V single phase 750 W LXM05BD28F1 at 110...120 V single phase 750 W LXM05BD28M2 at 200...240 V single phase 750 W LXM05CD28F1 at 110...120 V single phase 750 W LXM05CD28M2 at 200...240 V single phase 1250 W LXM15LD28M3 at 230 V three phase 750 W LXM05AD42M3X at 200...240 V three phase 750 W LXM05BD42M3X at 200...240 V three phase 750 W LXM05CD42M3X at 200...240 V three phase 900 W for LXM32.D18M2 6 A at 230 V single phase
Nominal torque	21.24 lbf.in (2.4 N.m) LXM05AD28F1 at 110...120 V single phase 21.24 lbf.in (2.4 N.m) LXM05AD28M2 at 200...240 V single phase 21.24 lbf.in (2.4 N.m) LXM05BD28F1 at 110...120 V single 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.

	V single phase 21.24 lbf.in (2.4 N.m) LXM05BD28M2 at 200...240 V single phase 21.24 lbf.in (2.4 N.m) LXM05CD28F1 at 110...120 V single phase 21.24 lbf.in (2.4 N.m) LXM05CD28M2 at 200...240 V single phase 17.7 lbf.in (2 N.m) LXM15LD28M3 at 230 V three phase 21.24 lbf.in (2.4 N.m) LXM05AD42M3X at 200...240 V three phase 21.24 lbf.in (2.4 N.m) LXM05BD42M3X at 200...240 V three phase 21.24 lbf.in (2.4 N.m) LXM05CD42M3X at 200...240 V three phase 18.58 lbf.in (2.1 N.m) for LXM32.D18M2 6 A at 230 V single phase
Nominal speed	3000 rpm LXM05AD28F1 at 110...120 V single phase 3000 rpm LXM05AD28M2 at 200...240 V single phase 3000 rpm LXM05BD28F1 at 110...120 V single phase 3000 rpm LXM05BD28M2 at 200...240 V single phase 3000 rpm LXM05CD28F1 at 110...120 V single phase 3000 rpm LXM05CD28M2 at 200...240 V single phase 3000 rpm LXM05AD42M3X at 200...240 V three phase 3000 rpm LXM05BD42M3X at 200...240 V three phase 3000 rpm LXM05CD42M3X at 200...240 V three phase 6000 rpm LXM15LD28M3 at 230 V three phase 4000 rpm for LXM32.D18M2 6 A at 230 V single phase
Product compatibility	LXM05AD28F1 at 110...120 V single phase LXM05AD28M2 at 200...240 V single phase LXM05BD28F1 at 110...120 V single phase LXM05BD28M2 at 200...240 V single phase LXM05CD28F1 at 110...120 V single phase LXM05CD28M2 at 200...240 V single phase LXM32.D18M2 at 230 V single phase LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM15LD28M3 at 230 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	Straight connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	7 A
Continuous power	1.7 W
Maximum current I _{rms}	29.2 A LXM05AD28F1 29.2 A LXM05AD28M2 29.2 A LXM05AD42M3X 29.2 A LXM05BD28F1 29.2 A LXM05BD28M2 29.2 A LXM05BD42M3X 29.2 A LXM05CD28F1 29.2 A LXM05CD28M2

	29.2 A LXM05CD42M3X 30.9 A LXM15LD28M3 18 A LXM32.D18M2
Maximum permanent current	29.2 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.55 in (14 mm)
Shaft length	1.18 in (30 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.76 in (70 mm)
Number of motor stacks	3
Torque constant	0.44 N.m/A at 248 °F (120 °C)
Back emf constant	29 V/krpm at 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.58 kg.cm ²
Stator resistance	0.91 Ohm at 68 °F (20 °C)
Stator inductance	4.4 mH at 68 °F (20 °C)
Stator electrical time constant	4.84 ms at 68 °F (20 °C)
Maximum radial force Fr	400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	8.66 in (220 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	7.98 lb(US) (3.62 kg)

Environment

Offer Sustainability

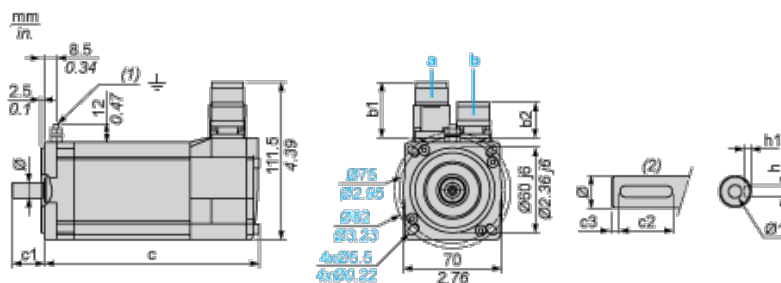
Green Premium product	Green Premium product
Compliant - since 0850 - Schneider Electric declaration of conformity	Compliant - since 0850 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations

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	220	254	30	20	5	5 N9	$3^{+0.1}_0$	14 k6	M5 x 12.5

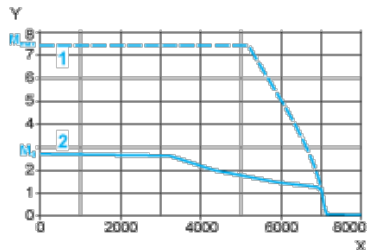
Dimensions in in.

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	8.66	10.00	1.18	0.78	0.19	0.20 N9	$0.12^{+0.004}_0$	0.55 k6	M5 x 0.49

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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