



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	<p>8 N.m for LXM32.D30N4 10 A at 400 V three phase</p> <p>8 N.m for LXM32.D30N4 10 A at 480 V three phase</p> <p>7.8 N.m for LXM05CD28M2 at 200...240 V single phase</p> <p>7.8 N.m for LXM05AD28M2 at 200...240 V single phase</p> <p>7.8 N.m for LXM05BD28M2 at 200...240 V single phase</p> <p>7.8 N.m for LXM05BD34N4 at 380...480 V three phase</p> <p>7.8 N.m for LXM05BD42M3X at 200...240 V three phase</p> <p>7.8 N.m for LXM05CD34N4 at 380...480 V three phase</p> <p>7.8 N.m for LXM05CD42M3X at 200...240 V three phase</p> <p>6.7 N.m for LXM15LD21M3 at 230 V three phase</p> <p>6.7 N.m for LXM15LD17N4 at 230 V three phase</p> <p>6.7 N.m for LXM15LD17N4 at 400 V three phase</p> <p>6.7 N.m for LXM15LD17N4 at 480 V three phase</p> <p>7.8 N.m for LXM15LD28M3 at 230 V three phase</p> <p>7.8 N.m for LXM15MD28N4 at 400 V three phase</p> <p>7.8 N.m for LXM15MD28N4 at 480 V three phase</p> <p>7.8 N.m for LXM15MD40N4 at 400 V three phase</p> <p>7.8 N.m for LXM15MD40N4 at 480 V three phase</p> <p>7.8 N.m for LXM05AD34N4 at 380...480 V three phase</p> <p>7.8 N.m for LXM05AD42M3X at 200...240 V three phase</p>
Peak stall torque	<p>28.3 N.m for LXM32.D30N4 10 A at 400 V three phase</p> <p>28.3 N.m for LXM32.D30N4 10 A at 480 V three phase</p> <p>19.69 N.m for LXM05AD28M2 at 200...240 V single phase</p> <p>19.69 N.m for LXM05BD28M2 at 200...240 V single phase</p> <p>19.69 N.m for LXM05CD28M2 at 200...240 V single phase</p> <p>15.5 N.m for LXM15LD21M3 at 230 V three phase</p> <p>12.5 N.m for LXM15LD17N4 at 230 V three phase</p> <p>12.5 N.m for LXM15LD17N4 at 400 V three phase</p> <p>12.5 N.m for LXM15LD17N4 at 480 V three phase</p> <p>19.69 N.m for LXM15LD28M3 at 230 V three phase</p> <p>19.69 N.m for LXM15MD28N4 at 400 V three phase</p> <p>19.69 N.m for LXM15MD28N4 at 480 V three phase</p> <p>23.17 N.m for LXM15MD40N4 at 400 V three phase</p> <p>23.17 N.m for LXM15MD40N4 at 480 V three phase</p> <p>23.01 N.m for LXM05AD34N4 at 380...480 V three phase</p>

Disclaimer: 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

	<p>23.17 N.m for LXM05AD42M3X at 200...240 V three phase 23.01 N.m for LXM05BD34N4 at 380...480 V three phase 23.17 N.m for LXM05BD42M3X at 200...240 V three phase 23.01 N.m for LXM05CD34N4 at 380...480 V three phase 23.17 N.m for LXM05CD42M3X at 200...240 V three phase</p>
Nominal output power	<p>2000 W for LXM32.D30N4 10 A at 400 V three phase 2600 W for LXM32.D30N4 10 A at 480 V three phase 1100 W for LXM05AD28M2 at 200...240 V single phase 1100 W for LXM05BD28M2 at 200...240 V single phase 1100 W for LXM05CD28M2 at 200...240 V single phase 1100 W for LXM05AD42M3X at 200...240 V three phase 1100 W for LXM05BD42M3X at 200...240 V three phase 1100 W for LXM05CD42M3X at 200...240 V three phase 1300 W for LXM15LD28M3 at 230 V three phase 1700 W for LXM15LD17N4 at 230 V three phase 1700 W for LXM15LD21M3 at 230 V three phase 1800 W for LXM05AD34N4 at 380...480 V three phase 1800 W for LXM05BD34N4 at 380...480 V three phase 1800 W for LXM05CD34N4 at 380...480 V three phase 2000 W for LXM15MD28N4 at 400 V three phase 2000 W for LXM15MD40N4 at 400 V three phase 2200 W for LXM15LD17N4 at 400 V three phase 2200 W for LXM15MD28N4 at 480 V three phase 2200 W for LXM15MD40N4 at 480 V three phase 2300 W for LXM15LD17N4 at 480 V three phase</p>
Nominal torque	<p>6.3 N.m for LXM32.D30N4 10 A at 400 V three phase 6.3 N.m for LXM32.D30N4 10 A at 480 V three phase 6.73 N.m for LXM05AD28M2 at 200...240 V single phase 6.73 N.m for LXM05BD28M2 at 200...240 V single phase 6.73 N.m for LXM05CD28M2 at 200...240 V single phase 3.7 N.m for LXM15LD17N4 at 480 V three phase 4.6 N.m for LXM15MD28N4 at 480 V three phase 4.6 N.m for LXM15MD40N4 at 480 V three phase 4.7 N.m for LXM15LD17N4 at 400 V three phase 5 N.m for LXM15MD28N4 at 400 V three phase 5 N.m for LXM15MD40N4 at 400 V three phase 5.7 N.m for LXM05AD34N4 at 380...480 V three phase 5.7 N.m for LXM05BD34N4 at 380...480 V three phase 5.7 N.m for LXM05CD34N4 at 380...480 V three phase 6 N.m for LXM15LD17N4 at 230 V three phase 6 N.m for LXM15LD21M3 at 230 V three phase 6.3 N.m for LXM15LD28M3 at 230 V three phase 6.73 N.m for LXM05AD42M3X at 200...240 V three phase 6.73 N.m for LXM05BD42M3X at 200...240 V three phase 6.73 N.m for LXM05CD42M3X at 200...240 V three phase</p>
Nominal speed	<p>4000 rpm for LXM32.D30N4 10 A at 480 V three phase 3000 rpm for LXM32.D30N4 10 A at 400 V three phase 1500 rpm for LXM05AD28M2 at 200...240 V single phase 1500 rpm for LXM05BD28M2 at 200...240 V single phase 1500 rpm for LXM05CD28M2 at 200...240 V single phase 4500 rpm for LXM15LD17N4 at 400 V three phase 6000 rpm for LXM15LD17N4 at 480 V three phase 1500 rpm for LXM05AD42M3X at 200...240 V three phase 1500 rpm for LXM05BD42M3X at 200...240 V three phase 1500 rpm for LXM05CD42M3X at 200...240 V three phase 2000 rpm for LXM15LD28M3 at 230 V three phase 2500 rpm for LXM15LD17N4 at 230 V three phase 2500 rpm for LXM15LD21M3 at 230 V three phase 3000 rpm for LXM05AD34N4 at 380...480 V three phase 3000 rpm for LXM05BD34N4 at 380...480 V three phase 3000 rpm for LXM05CD34N4 at 380...480 V three phase 4000 rpm for LXM15MD28N4 at 400 V three phase 4000 rpm for LXM15MD40N4 at 400 V three phase 4500 rpm for LXM15MD28N4 at 480 V three phase 4500 rpm for LXM15MD40N4 at 480 V three phase</p>
Product compatibility	<p>LXM05AD28M2 at 200...240 V single phase LXM05BD28M2 at 200...240 V single phase LXM05CD28M2 at 200...240 V single phase LXM15LD21M3 at 230 V three phase LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM15LD17N4 at 230 V three phase LXM15LD17N4 at 400 V three phase</p>

LXM15LD17N4 at 480 V three phase
 LXM15LD28M3 at 230 V three phase
 LXM05AD34N4 at 380...480 V three phase
 LXM05BD34N4 at 380...480 V three phase
 LXM05CD34N4 at 380...480 V three phase
 LXM15MD28N4 at 400 V three phase
 LXM15MD28N4 at 480 V three phase
 LXM15MD40N4 at 400 V three phase
 LXM15MD40N4 at 480 V three phase
 LXM32.D30N4 at 400 V three phase
 LXM32.D30N4 at 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	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	6.6 A
Maximum continuous power	3.14 W
Maximum current Irms	28.3 A for LXM05AD28M2 28.3 A for LXM05AD34N4 28.3 A for LXM05AD42M3X 28.3 A for LXM05BD28M2 28.3 A for LXM05BD34N4 28.3 A for LXM05BD42M3X 28.3 A for LXM05CD28M2 28.3 A for LXM05CD34N4 28.3 A for LXM05CD42M3X 28.3 A for LXM15LD17N4 28.3 A for LXM15LD21M3 28.3 A for LXM15LD28M3 28.3 A for LXM15MD28N4 28.3 A for LXM15MD40N4 28.3 A for LXM32.D30N4
Maximum permanent current	28.3 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Key width	30 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	100 mm
Number of motor stacks	3
Torque constant	1.22 N.m/A at 120 °C
Back emf constant	77 V/krpm at 120 °C
Number of motor poles	8
Rotor inertia	3.22 kg.cm ²
Stator resistance	1.43 Ohm at 20 °C
Stator inductance	8.8 mH at 20 °C
Stator electrical time constant	6.15 ms at 20 °C
Maximum radial force Fr	1050 N at 1000 rpm 660 N at 4000 rpm 730 N at 3000 rpm 830 N at 2000 rpm

Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	240.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Product weight	7.4 kg

Offer Sustainability

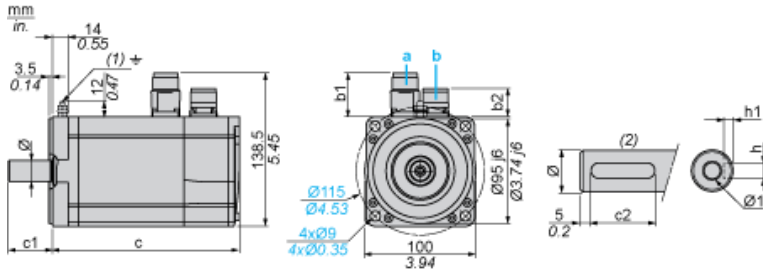
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
-----------------	-----------

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	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
39.5	25.5	39.5	39.5	241	272	40	30	6 N9	$3.5^{+0.1}_0$	19 k6	M6 x 16

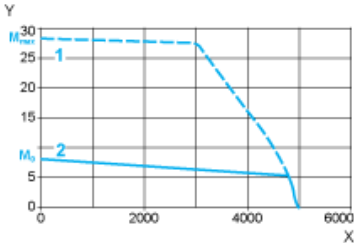
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
1.55	1.00	1.55	1.55	9.48	10.70	1.57	1.18	0.24 N9	$0.14^{+0.1}_0$	0.75 k6	M6 x 0.63

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D30N4 servo drive

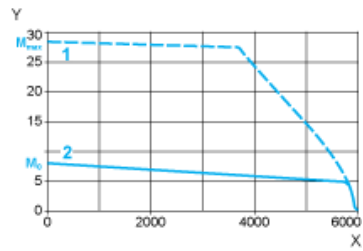


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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