



## Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	3.3 N.m for LXM32.D18N4 6 A at 400 V three phase 3.3 N.m for LXM32.D18N4 6 A at 480 V three phase 3.39 N.m for LXM15LD21M3 at 230 V single phase 2.7 N.m for LXM15LD10N4 at 230 V three phase 3.39 N.m for LXM15LD10N4 at 400 V three phase 3.39 N.m for LXM15LD10N4 at 480 V three phase 3.39 N.m for LXM15LD21M3 at 230 V three phase 3.39 N.m for LXM15LD17N4 at 230 V three phase 3.39 N.m for LXM15LD17N4 at 400 V three phase 3.39 N.m for LXM15LD17N4 at 480 V three phase 3.4 N.m for LXM05AD17M3X at 200...240 V three phase 3.4 N.m for LXM05AD22N4 at 380...480 V three phase 3.4 N.m for LXM05BD17M3X at 200...240 V three phase 3.4 N.m for LXM05BD22N4 at 380...480 V three phase 3.4 N.m for LXM05CD17M3X at 200...240 V three phase 3.4 N.m for LXM05CD22N4 at 380...480 V three phase
Peak stall torque	9.6 N.m for LXM32.D18N4 6 A at 480 V three phase 9.6 N.m for LXM32.D18N4 6 A at 400 V three phase 7.08 N.m for LXM15LD21M3 at 230 V single phase 6.19 N.m for LXM15LD10N4 at 230 V three phase 6.19 N.m for LXM15LD10N4 at 400 V three phase 6.19 N.m for LXM15LD10N4 at 480 V three phase 7.08 N.m for LXM15LD21M3 at 230 V three phase 7.08 N.m for LXM15LD17N4 at 230 V three phase 7.08 N.m for LXM15LD17N4 at 400 V three phase 7.08 N.m for LXM15LD17N4 at 480 V three phase 7.1 N.m for LXM05AD17M3X at 200...240 V three phase 7.1 N.m for LXM05AD22N4 at 380...480 V three phase 7.1 N.m for LXM05BD17M3X at 200...240 V three phase 7.1 N.m for LXM05BD22N4 at 380...480 V three phase 7.1 N.m for LXM05CD17M3X at 200...240 V three phase 7.1 N.m for LXM05CD22N4 at 380...480 V three phase
Nominal output power	1100 W for LXM32.D18N4 6 A at 400 V three phase 1100 W for LXM32.D18N4 6 A at 480 V three phase

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>950 W for LXM15LD21M3 at 230 V single phase  1300 W for LXM15LD17N4 at 400 V three phase  1500 W for LXM15LD10N4 at 480 V three phase  1300 W for LXM15LD10N4 at 400 V three phase  1500 W for LXM15LD17N4 at 480 V three phase  500 W for LXM05AD17M3X at 200...240 V three phase  500 W for LXM05BD17M3X at 200...240 V three phase  500 W for LXM05CD17M3X at 200...240 V three phase  850 W for LXM15LD10N4 at 230 V three phase  900 W for LXM05AD22N4 at 380...480 V three phase  900 W for LXM05BD22N4 at 380...480 V three phase  900 W for LXM05CD22N4 at 380...480 V three phase  950 W for LXM15LD17N4 at 230 V three phase  950 W for LXM15LD21M3 at 230 V three phase</p>
Nominal torque	<p>2.7 N.m for LXM15LD10N4 at 230 V three phase  2.7 N.m for LXM32.D18N4 6 A at 400 V three phase  2.7 N.m for LXM32.D18N4 6 A at 480 V three phase  3 N.m for LXM15LD21M3 at 230 V single phase  2.5 N.m for LXM15LD10N4 at 480 V three phase  2.5 N.m for LXM15LD17N4 at 480 V three phase  2.7 N.m for LXM15LD10N4 at 400 V three phase  2.7 N.m for LXM15LD17N4 at 400 V three phase  2.92 N.m for LXM05AD22N4 at 380...480 V three phase  2.92 N.m for LXM05BD22N4 at 380...480 V three phase  2.92 N.m for LXM05CD22N4 at 380...480 V three phase  3 N.m for LXM15LD17N4 at 230 V three phase  3 N.m for LXM15LD21M3 at 230 V three phase  3.16 N.m for LXM05AD17M3X at 200...240 V three phase  3.16 N.m for LXM05BD17M3X at 200...240 V three phase  3.16 N.m for LXM05CD17M3X at 200...240 V three phase</p>
Nominal speed	<p>4000 rpm for LXM32.D18N4 6 A at 400 V three phase  4000 rpm for LXM32.D18N4 6 A at 480 V three phase  3000 rpm for LXM15LD21M3 at 230 V single phase  3000 rpm for LXM15LD10N4 at 230 V three phase  3000 rpm for LXM05AD22N4 at 380...480 V three phase  3000 rpm for LXM05BD22N4 at 380...480 V three phase  3000 rpm for LXM05CD22N4 at 380...480 V three phase  3000 rpm for LXM15LD17N4 at 230 V three phase  3000 rpm for LXM15LD21M3 at 230 V three phase  1500 rpm for LXM05AD17M3X at 200...240 V three phase  1500 rpm for LXM05BD17M3X at 200...240 V three phase  1500 rpm for LXM05CD17M3X at 200...240 V three phase  4500 rpm for LXM15LD10N4 at 400 V three phase  4500 rpm for LXM15LD17N4 at 400 V three phase  6000 rpm for LXM15LD10N4 at 480 V three phase  6000 rpm for LXM15LD17N4 at 480 V three phase</p>
Product compatibility	<p>LXM15LD21M3 at 230 V single 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  LXM15LD10N4 at 230 V three phase  LXM15LD10N4 at 480 V three phase  LXM15LD21M3 at 230 V three phase  LXM15LD17N4 at 230 V three phase  LXM05AD22N4 at 380...480 V three phase  LXM05BD22N4 at 380...480 V three phase  LXM05CD22N4 at 380...480 V three phase  LXM15LD17N4 at 400 V three phase  LXM15LD17N4 at 480 V three phase  LXM32.D18N4 at 400 V three phase  LXM32.D18N4 at 480 V three phase</p>
Shaft end	Untapped
IP degree of protection	IP50 (standard)
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	3.5 A
Maximum continuous power	1.6 W
Maximum current Irms	12 A for LXM05AD17M3X 12 A for LXM05AD22N4 12 A for LXM05BD17M3X 12 A for LXM05BD22N4 12 A for LXM05CD17M3X 12 A for LXM05CD22N4 12 A for LXM15LD10N4 12 A for LXM15LD17N4 12 A for LXM15LD21M3 12 A for LXM32.D18N4
Maximum permanent current	12 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	100 mm
Number of motor stacks	1
Torque constant	0.89 N.m/A at 120 °C
Back emf constant	60 V/krpm at 120 °C
Number of motor poles	8
Rotor inertia	1.4 kg.cm <sup>2</sup>
Stator resistance	3.8 Ohm at 20 °C
Stator inductance	17.6 mH at 20 °C
Stator electrical time constant	4.63 ms at 20 °C
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	168.5 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	4.2 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0850 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available

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Product end of life instructions	Need no specific recycling operations
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**Contractual warranty**

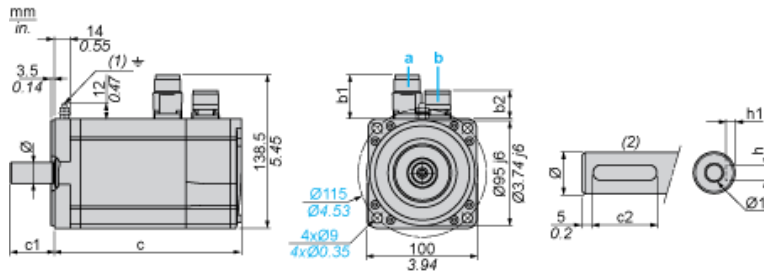
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Warranty period	18 months
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Servo Motors Dimensions

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	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
39.5	25.5	39.5	39.5	169	200	40	30	6 N9	3.5 <sup>+0.1</sup> <sub>0</sub>	19 k6	M6 x 16

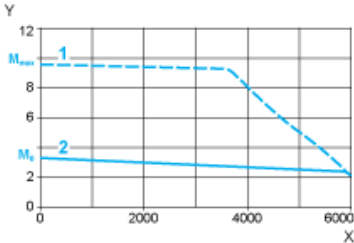
Dimensions in in.

Straight connector		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	6.65	7.87	1.57	1.18	0.24 N9	0.14 <sup>+0.1</sup> <sub>0</sub>	0.75 k6	M6 x 0.63

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D18N4 servo drive



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

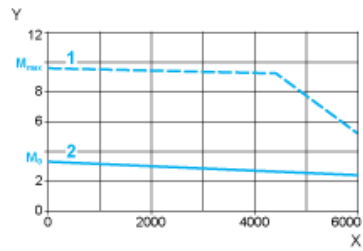
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480 V 3-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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