



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000 rpm
Continuous stall torque	4.42 lbf.in (0.5 N.m) LXM15LD13M3 at 230 V single phase 4.42 lbf.in (0.5 N.m) LXM15LU60N4 at 230 V three phase 4.42 lbf.in (0.5 N.m) LXM32.U60N4 1.5 A at 400 V three phase 4.42 lbf.in (0.5 N.m) LXM32.U60N4 1.5 A at 480 V three phase
Peak stall torque	12.39 lbf.in (1.4 N.m) LXM15LD13M3 at 230 V single phase 12.39 lbf.in (1.4 N.m) LXM15LU60N4 at 230 V three phase 13.27 lbf.in (1.5 N.m) LXM32.U60N4 1.5 A at 400 V three phase 13.27 lbf.in (1.5 N.m) LXM32.U60N4 1.5 A at 480 V three phase
Nominal output power	170 W LXM15LD13M3 at 230 V single phase 170 W LXM15LU60N4 at 230 V three phase 300 W LXM32.U60N4 1.5 A at 400 V three phase 300 W LXM32.U60N4 1.5 A at 480 V three phase
Nominal torque	4.07 lbf.in (0.46 N.m) LXM15LD13M3 at 230 V single phase 4.07 lbf.in (0.46 N.m) LXM15LU60N4 at 230 V three phase 4.25 lbf.in (0.48 N.m) LXM32.U60N4 1.5 A at 400 V three phase 4.25 lbf.in (0.48 N.m) LXM32.U60N4 1.5 A at 480 V three phase
Nominal speed	4000 rpm LXM15LD13M3 at 230 V single phase 4000 rpm LXM15LU60N4 at 230 V three phase 6000 rpm LXM32.U60N4 1.5 A at 480 V three phase 6000 rpm LXM32.U60N4 1.5 A at 400 V three phase
Product compatibility	LXM15LD13M3 at 230 V single phase LXM15LU60N4 at 230 V three phase LXM32.U60N4 at 400 V three phase LXM32.U60N4 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 15 Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	0.73 A
Continuous power	0.45 W
Maximum current Irms	3.5 A LXM15LD13M3

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	3.5 A LXM15LU60N4 2.9 A LXM32.U60N4
Maximum permanent current	2.9 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.35 in (9 mm)
Shaft length	0.79 in (20 mm)
Key width	0.47 in (12 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	2.17 in (55 mm)
Number of motor stacks	1
Torque constant	0.7 N.m/A at 248 °F (120 °C)
Back emf constant	40 V/krpm at 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.059 kg.cm ²
Stator resistance	41.8 Ohm at 68 °F (20 °C)
Stator inductance	71.5 mH at 68 °F (20 °C)
Stator electrical time constant	1.09 ms at 68 °F (20 °C)
Maximum radial force Fr	170 N at 8000 rpm 180 N at 7000 rpm 190 N at 6000 rpm 200 N at 5000 rpm 220 N at 4000 rpm 240 N at 3000 rpm 270 N at 2000 rpm 340 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	5.22 in (132.5 mm)
Centring collar diameter	1.57 in (40 mm)
Centring collar depth	0.08 in (2 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	2.48 in (63 mm)
Product weight	2.65 lb(US) (1.2 kg)

Environment

Offer Sustainability

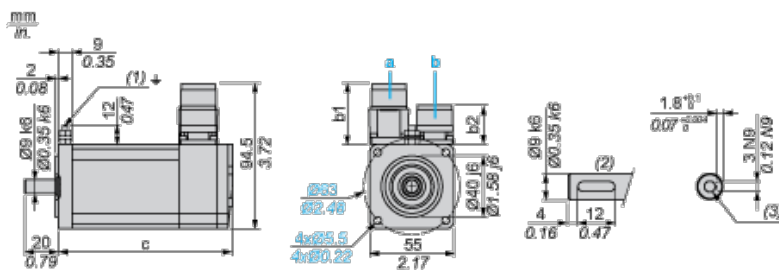
Green Premium product	Green Premium product
Compliant - since 1018 - Schneider Electric declaration of conformity	Compliant - since 1018 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
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)
- (3) For screw M3 x 9 mm/M3 x 0.35 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
39.5	25.5	39.5	39.5	132.5	159

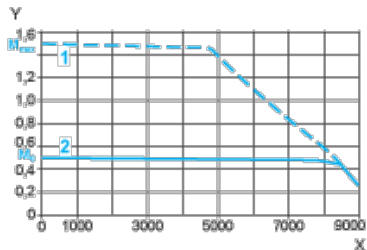
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	5.21	6.25

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive

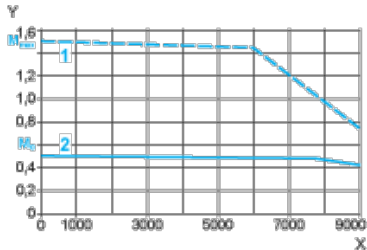


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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