



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	74.34 lbf.in (8.4 N.m) for LXM32.D30N4 10 A at 400 V three phase 74.34 lbf.in (8.4 N.m) for LXM32.D30N4 10 A at 480 V three phase
Peak stall torque	222.12 lbf.in (25.1 N.m) for LXM32.D30N4 10 A at 400 V three phase 222.12 lbf.in (25.1 N.m) for LXM32.D30N4 10 A at 480 V three phase
Nominal output power	2700 W for LXM32.D30N4 10 A at 400 V three phase 2700 W for LXM32.D30N4 10 A at 480 V three phase
Nominal torque	54.87 lbf.in (6.2 N.m) for LXM32.D30N4 10 A at 480 V three phase 54.87 lbf.in (6.2 N.m) for LXM32.D30N4 10 A at 400 V three phase
Nominal speed	4000 rpm LXM32.D30N4 10 A at 480 V three phase 4000 rpm for LXM32.D30N4 10 A at 400 V three phase
Product compatibility	LXM32.D30N4 at 400...480 V three phase
Shaft end	Smooth shaft
IP degree of protection	IP54 (standard)
Speed feedback resolution	131072 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	7.69 A
Continuous power	3.3 W
Maximum current Irms	29.1 A for LXM32.D30N4
Maximum permanent current	29.1 A
Second shaft	Without second shaft end
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	79.65 lbf.in (9 N.m) (holding brake)
Motor flange size	3.94 in (100 mm)
Number of motor stacks	3
Torque constant	1 N.m/A at 248 °F (120 °C)
Back emf constant	63.5 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	10.3 kg.cm ²
Stator resistance	0.63 Ohm at 68 °F (20 °C)

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Stator inductance	4 mH at 68 °F (20 °C)
Stator electrical time constant	6.3 ms at 68 °F (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 610 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	9.22 in (234.3 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Product weight	17.97 lb(US) (8.15 kg)

Environment

Offer Sustainability

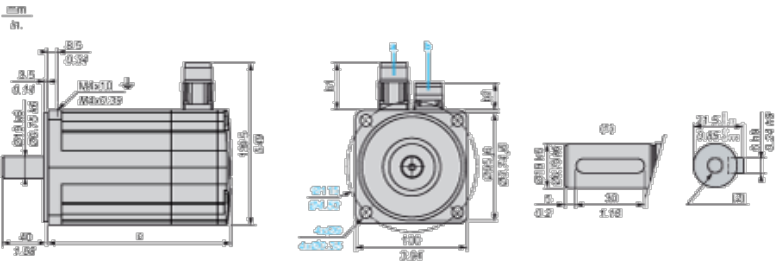
Green Premium product	Green Premium product
Compliant - since 0936 - Schneider Electric declaration of conformity	Compliant - since 0936 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
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) Shaft end, keyed slot (optional)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	192	234

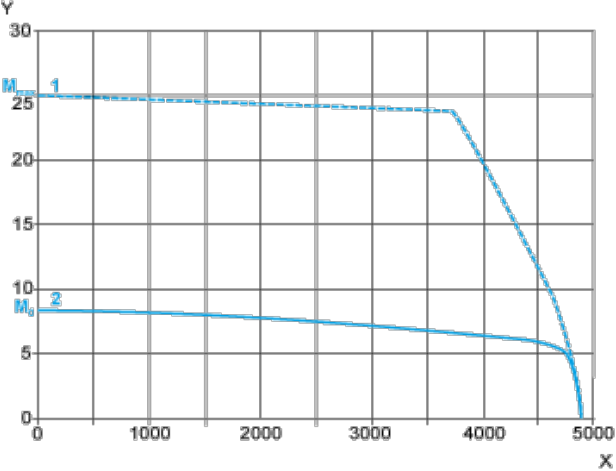
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

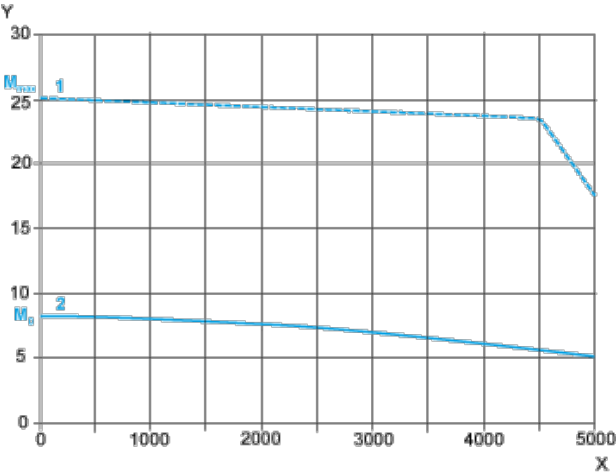


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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