



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	4000 rpm
Continuous stall torque	91.15 lbf.in (10.3 N.m) for LXM32.D30M2 10 A at 230 V single phase 91.15 lbf.in (10.3 N.m) for LXM32.D30N4 10 A at 400 V three phase 91.15 lbf.in (10.3 N.m) for LXM32.D30N4 10 A at 480 V three phase
Peak stall torque	272.57 lbf.in (30.8 N.m) for LXM32.D30M2 10 A at 230 V single phase 272.57 lbf.in (30.8 N.m) for LXM32.D30N4 10 A at 400 V three phase 272.57 lbf.in (30.8 N.m) for LXM32.D30N4 10 A at 480 V three phase
Nominal output power	1450 W for LXM32.D30M2 10 A at 230 V single phase 2400 W for LXM32.D30N4 10 A at 400 V three phase 2400 W for LXM32.D30N4 10 A at 480 V three phase
Nominal torque	61.06 lbf.in (6.9 N.m) for LXM32.D30M2 10 A at 230 V single phase 68.14 lbf.in (7.7 N.m) for LXM32.D30N4 10 A at 480 V three phase 68.14 lbf.in (7.7 N.m) for LXM32.D30N4 10 A at 400 V three phase
Nominal speed	2000 rpm for LXM32.D30M2 10 A at 230 V single phase 3000 rpm LXM32.D30N4 10 A at 400 V three phase 3000 rpm LXM32.D30N4 10 A at 480 V three phase
Product compatibility	LXM32.D30M2 at 230 V single phase LXM32.D30N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	32768 points/turn x 4096 turns
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	8.58 A
Continuous power	2.85 W
Maximum current Irms	29.8 A for LXM32.D30M2 29.8 A for LXM32.D30N4
Maximum permanent current	29.8 A
Second shaft	Without second shaft end
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 mm)

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Key width	1.57 in (40 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	159.29 lbf.in (18 N.m) (holding brake)
Motor flange size	5.51 in (140 mm)
Number of motor stacks	1
Torque constant	1.2 N.m/A at 248 °F (120 °C)
Back emf constant	77.4 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	17.96 kg.cm ²
Stator resistance	0.69 Ohm at 68 °F (20 °C)
Stator inductance	6.7 mH at 68 °F (20 °C)
Stator electrical time constant	9.7 ms at 68 °F (20 °C)
Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm 1340 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	7.36 in (187 mm)
Centring collar diameter	5.12 in (130 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.43 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Product weight	22.71 lb(US) (10.3 kg)

Environment

Offer Sustainability

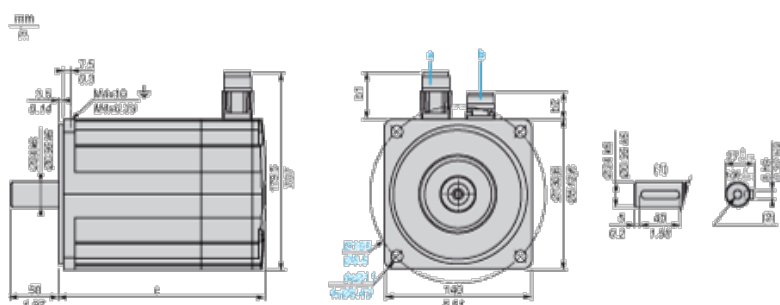
Green Premium product	Green Premium product
Compliant - since 0936 - Schneider Electric declaration of conformity	Compliant - since 0936 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
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 M8 x 25 mm/M8 x 0.98 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	152	187

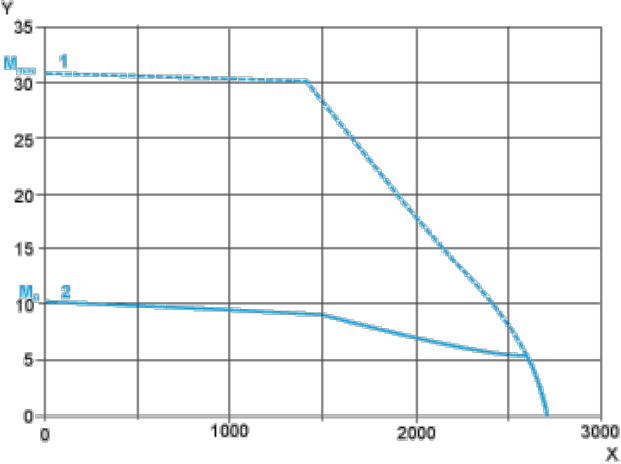
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	5.98	7.36

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

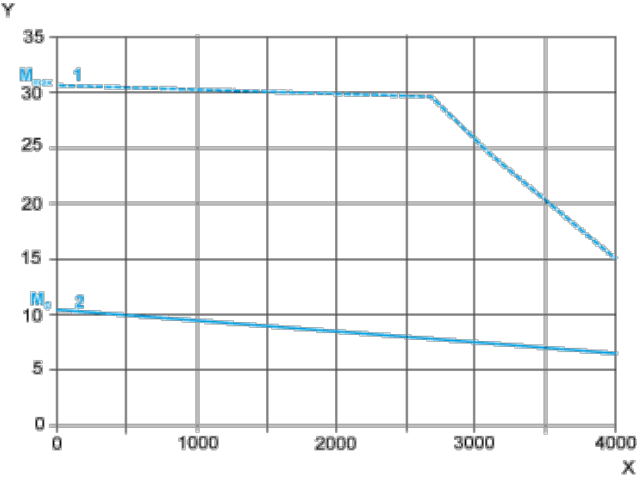


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

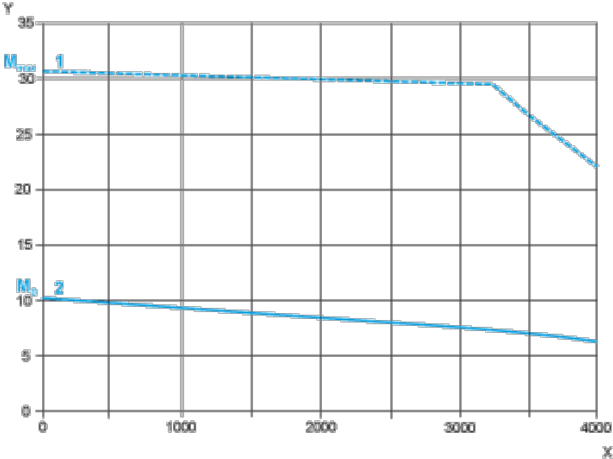


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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