



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	4000 rpm
Continuous stall torque	163.72 lbf.in (18.5 N.m) for LXM32.D72N4 24 A at 400 V three phase 163.72 lbf.in (18.5 N.m) for LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	445.13 lbf.in (50.3 N.m) for LXM32.D72N4 24 A at 400 V three phase 445.13 lbf.in (50.3 N.m) for LXM32.D72N4 24 A at 480 V three phase
Nominal output power	3500 W for LXM32.D72N4 24 A at 400 V three phase 3500 W for LXM32.D72N4 24 A at 480 V three phase
Nominal torque	107.96 lbf.in (12.2 N.m) for LXM32.D72N4 24 A at 480 V three phase 107.96 lbf.in (12.2 N.m) for LXM32.D72N4 24 A at 400 V three phase
Nominal speed	3000 rpm LXM32.D72N4 24 A at 400 V three phase 3000 rpm LXM32.D72N4 24 A at 480 V three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Smooth shaft
IP degree of protection	IP54 (standard)
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	16.83 A
Continuous power	4.44 W
Maximum current Irms	57.4 A for LXM32.D72N4
Maximum permanent current	57.4 A
Second shaft	Without second shaft end
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 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	2
Torque constant	1.1 N.m/A at 248 °F (120 °C)
Back emf constant	70.7 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	33.5 kg.cm ²
Stator resistance	0.23 Ohm at 68 °F (20 °C)

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Stator inductance	3 mH at 68 °F (20 °C)
Stator electrical time constant	13 ms at 68 °F (20 °C)
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	8.94 in (227 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	31.53 lb(US) (14.3 kg)

Environment

Offer Sustainability

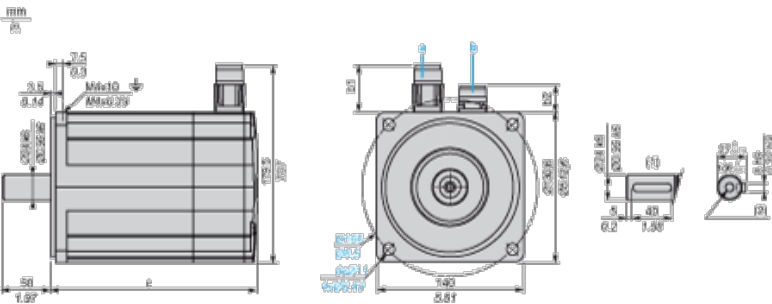
Green Premium product	Green Premium product
Compliant - since 0936 - Schneider Electric declaration of conformity	Compliant - since 0936 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
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	192	227

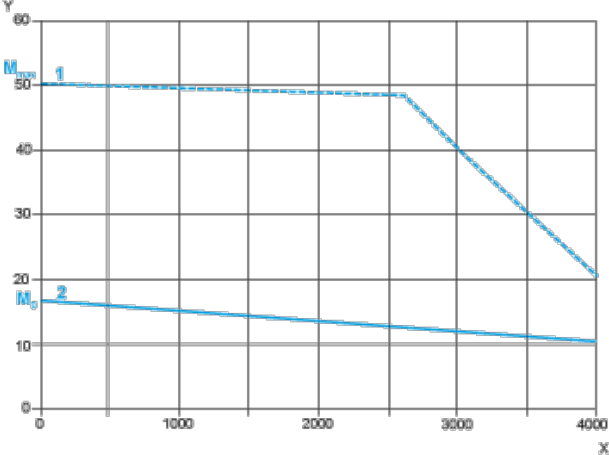
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	7.55	8.93

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

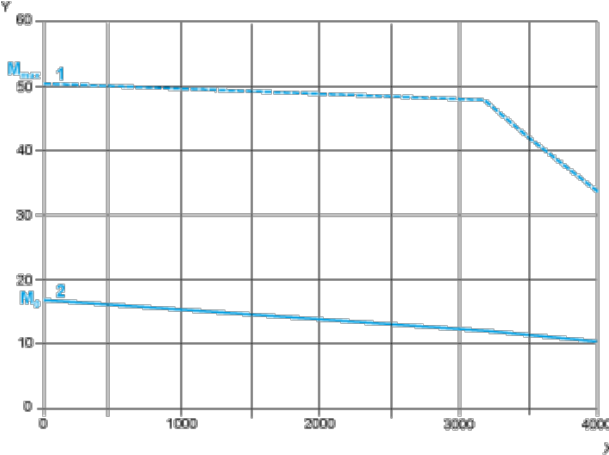


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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