



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	8000 rpm
Continuous stall torque	22.12 lbf.in (2.5 N.m) for LXM32.D12N4 3 A at 400 V three phase 22.12 lbf.in (2.5 N.m) for LXM32.D12N4 3 A at 480 V three phase
Peak stall torque	65.49 lbf.in (7.4 N.m) for LXM32.D12N4 3 A at 400 V three phase 65.49 lbf.in (7.4 N.m) for LXM32.D12N4 3 A at 480 V three phase
Nominal output power	700 W LXM32.D12N4 3 A at 400 V three phase 700 W LXM32.D12N4 3 A at 480 V three phase
Nominal torque	19.47 lbf.in (2.2 N.m) for LXM32.D12N4 3 A at 400 V three phase 19.47 lbf.in (2.2 N.m) for LXM32.D12N4 3 A at 480 V three phase
Nominal speed	3000 rpm for LXM32.D12N4 3 A at 400 V three phase 3000 rpm for LXM32.D12N4 3 A at 480 V three phase
Product compatibility	LXM32.D12N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 (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 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	2.94 A
Continuous power	1.51 W
Maximum current Irms	9.7 A for LXM32.D12N4
Maximum permanent current	9.68 A
Second shaft	Without second shaft end
Shaft diameter	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Key width	0.71 in (18 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	2.76 in (70 mm)
Number of motor stacks	2
Torque constant	0.84 N.m/A at 248 °F (120 °C)
Back emf constant	54.08 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	1.13 kg.cm ²
Stator resistance	3.8 Ohm at 68 °F (20 °C)
Stator inductance	12.2 mH at 68 °F (20 °C)

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Stator electrical time constant	3.2 ms at 68 °F (20 °C)
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.06 in (154 mm)
Centring collar diameter	2.36 in (60 mm)
Centring collar depth	0.1 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	3.23 in (82 mm)
Product weight	5.07 lb(US) (2.3 kg)

Environment

Offer Sustainability

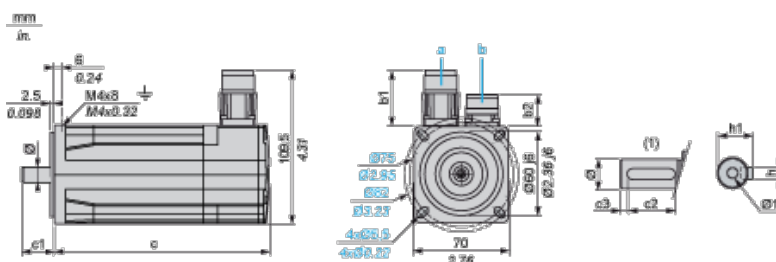
Green Premium product	Green Premium product
Compliant - since 0936 - Schneider Electric declaration of conformity	Compliant - since 0936 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available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

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 ⁺⁰ _{-0.13}	11 k6	M4 x 14

Dimensions in in.

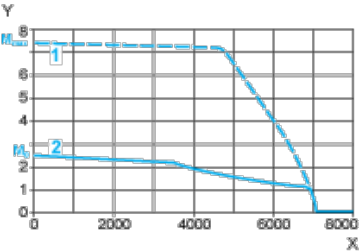
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									

1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	$0.49^{+0}_{-0.0051}$	0.43 k6	M4 x 0.55
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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

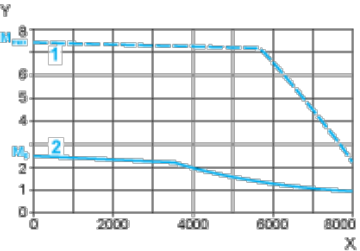


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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