

BMH1003P02A1A

servo motor BMH, Lexium 32, 8.4Nm,
6000rpm, untapped shaft, without brake, IP54,
128 multiturn encoder, straight



Main

Product or Component Type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	74.35 Lbf.In (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase
Peak stall torque	222.15 Lbf.In (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.15 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 480 V, three phase
Nominal output power	2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase
Nominal torque	54.87 Lbf.In (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 480 V, three phase
Nominal speed	4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase
Product compatibility	LXM32.D30N4 400...480 V three phase
Shaft end	Smooth shaft
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	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 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	Multiturn SinCos Hiperface
Motor flange size	3.94 in (100 mm)
Number of motor stacks	3
Torque constant	1 N.m/A 248 °F (120 °C)
Back emf constant	63.5 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	9.37 kg.cm ²
Stator resistance	0.63 Ohm 68 °F (20 °C)

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Stator inductance	4 mH 68 °F (20 °C)
Stator electrical time constant	6.3 ms 68 °F (20 °C)
Maximum radial force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm 610 N 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	7.58 in (192.6 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)
Net Weight	14.33 lb(US) (6.5 kg)

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485196343
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.68 in (19.500 cm)
Package 1 Width	8.66 in (22.000 cm)
Package 1 Length	15.55 in (39.500 cm)
Package 1 Weight	16.58 lb(US) (7.520 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	34.59 lb(US) (15.690 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	156.00 lb(US) (70.760 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	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. For more information go to www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile

Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	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

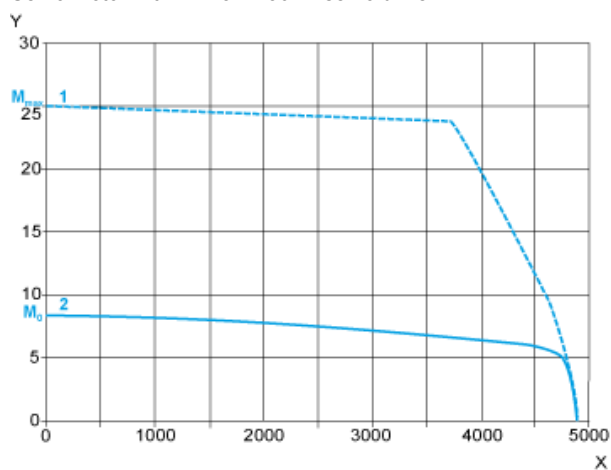
Dimensions in in.

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

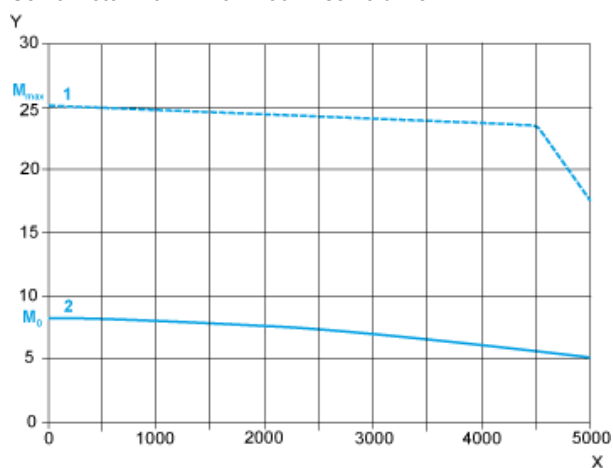


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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