

BMH1002P16A2A

servo motor BMH - 6.2 Nm - 6000 rpm - keyed
shaft - without brake - IP54



Product availability: Stock - Normally stocked in distribution facility



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	54.87 lbf.in (6.2 N.m) for LXM32.D18N4 6 A at 400 V three phase 54.87 lbf.in (6.2 N.m) for LXM32.D18N4 6 A at 480 V three phase
Peak stall torque	162.83 lbf.in (18.4 N.m) for LXM32.D18N4 6 A at 400 V three phase 162.83 lbf.in (18.4 N.m) for LXM32.D18N4 6 A at 480 V three phase
Nominal output power	1600 W for LXM32.D18N4 6 A at 400 V three phase 1600 W for LXM32.D18N4 6 A at 480 V three phase
Nominal torque	34.51 lbf.in (3.9 N.m) for LXM32.D18N4 6 A at 400 V three phase 34.51 lbf.in (3.9 N.m) for LXM32.D18N4 6 A at 480 V three phase
Nominal speed	4000 rpm for LXM32.D18N4 6 A at 400 V three phase 4000 rpm for LXM32.D18N4 6 A at 480 V three phase
Product compatibility	LXM32.D18N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 (standard)
Speed feedback resolution	32768 points/turn
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	5.04 A
Continuous power	2.36 W
Maximum current Irms	18 A for LXM32.D18N4
Maximum permanent current	18.23 A
Second shaft	Without second shaft end
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Key width	1.18 in (30 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	3.94 in (100 mm)
Number of motor stacks	2
Torque constant	1.2 N.m/A at 248 °F (120 °C)
Back emf constant	77 V/krpm at 248 °F (120 °C)
Number of motor poles	10

Rotor inertia	6.28 kg.cm ²
Stator resistance	1.51 Ohm at 68 °F (20 °C)
Stator inductance	7.5 mH at 68 °F (20 °C)
Stator electrical time constant	5 ms at 68 °F (20 °C)
Maximum radial force Fr	620 N at 4000 rpm 690 N at 3000 rpm 790 N at 2000 rpm 990 N at 1000 rpm 580 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.32 in (160.6 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)
Product weight	10.85 lb(US) (4.92 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	00785901272922
Nbr. of units in pkg.	1
Package weight(Lbs)	11.48
Returnability	Y
Country of origin	DE

Offer Sustainability

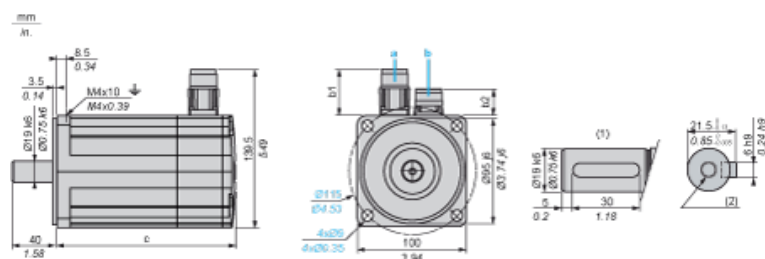
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

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	160	202

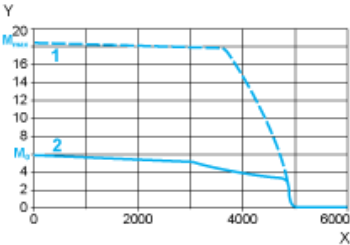
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	6.29	7.95

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

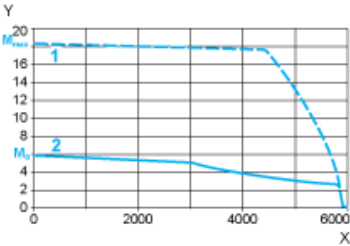


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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