

Product data sheet

Characteristics

BMH1002P22F1A

servo motor BMH - 6.2 Nm - 6000 rpm -
untapped shaft - with brake - IP65/IP67



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	6.2 N.m for LXM32.D18N4 6 A at 400 V three phase 6.2 N.m for LXM32.D18N4 6 A at 480 V three phase
Peak stall torque	18.4 N.m for LXM32.D18N4 6 A at 400 V three phase 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	3.9 N.m for LXM32.D18N4 6 A at 400 V three phase 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	Untapped
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	131072 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
Network number of phases	Three phase
Continuous stall current	5.04 A
Continuous power	2.36 W
Maximum current I_{rms}	18 A for LXM32.D18N4
Maximum permanent current	18.23 A
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	5.5 N.m (holding brake)
Motor flange size	100 mm
Number of motor stacks	2
Torque constant	1.2 N.m/A at 120 °C
Back emf constant	77 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	6.77 kg.cm²
Stator resistance	1.51 Ohm at 20 °C

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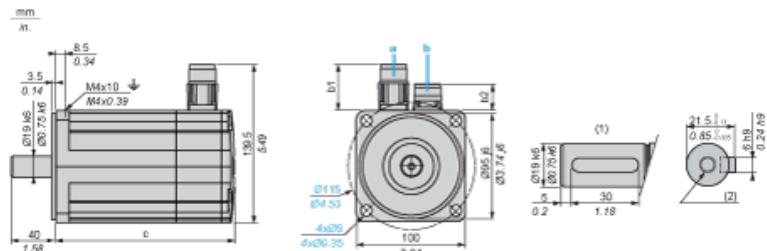
Stator inductance	7.5 mH at 20 °C
Stator electrical time constant	5 ms at 20 °C
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	12 W
Type of cooling	Natural convection
Length	202.3 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Product weight	6.4 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 -  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available  Download Product Environmental
Product end of life instructions	Need no specific recycling operations

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

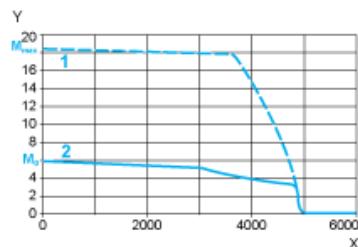
Dimensions in in.

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

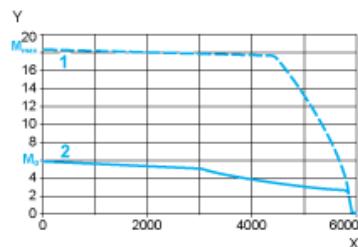


X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

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