# BMH1002P16F2A

servo motor BMH - 6.2 Nm - 6000 rpm - keyed shaft - with brake - IP54





# Main

Product or component type	Servo motor		
Device short name	ВМН		
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 phas 1600 W for LXM32.D18N4 6 A at 480 V three phas		
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 400480 V three phase		
Shaft end	Keyed		
IP degree of protection	IP54 (standard)		
Speed feedback resolution	32768 points/turn		
Holding brake	With		
Mounting support	International standard flange		
Electrical connection	Rotatable right-angled connectors		

#### Complementary

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 Irms	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		
Key width	30 mm		
Feedback type	Single turn 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		

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		

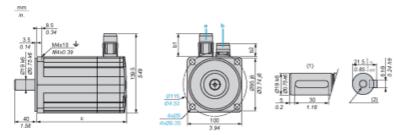


# Product data sheet **Dimensions Drawings**

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## Servo Motors Dimensions

## **Example with Straight Connectors**



- Power supply for servo motor brake
- 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.

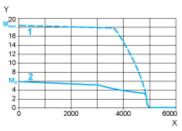
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	6.29	7.95

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### 400 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

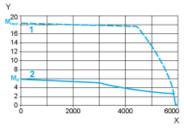


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

## 480 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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