

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

BMH1002P17F2A

V	aı	n

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 at 6 A, 400 V, three phase 6.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase	
Peak stall torque	18.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 18.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase	
Nominal output power	1600 W for LXM32.D18N4 at 6 A, 400 V, three phase 1600 W for LXM32.D18N4 at 6 A, 480 V, three phase	
Nominal torque	3.9 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.9 N.m for LXM32.D18N4 at 6 A, 480 V, three phase	
Nominal speed	4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 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 x 4096 turns	
Holding brake	With	
Mounting support	International standard flange	
Electrical connection	Rotatable right-angled connectors	

## Complementary

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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	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
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
Net weight	6.4 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	6.68 kg
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	

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

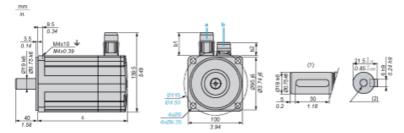
## **Product datasheet**

## BMH1002P17F2A

**Dimensions Drawings** 

#### **Servo Motors Dimensions**

#### **Example with Straight Connectors**



a: Power supply for servo motor brake Power supply for servo motor encoder Shaft end, keyed slot (optional) For screw M6 x 21 mm/M6 x 0.83 in. b: (1) (2)

#### 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		
ĺ	1.55	1.00	1.55	1.55	6.29	7.95

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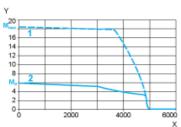
# BMH1002P17F2A

Performance Curves

## 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

## **Product datasheet**

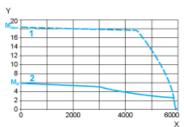
## BMH1002P17F2A

**Performance Curves** 

## 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

## Recommended replacement(s)