## BMH0703P16F2A

servo motor BMH - 3.4 Nm - 8000 rpm - keyed shaft - with brake - IP54





#### Main Product or component Servo motor type ВМН Device short name Maximum mechanical 8000 rpm speed Continuous stall torque 3.4 N.M for LXM32.D18N4 at 6 A, 400 V, three 3.4 N.m for LXM32.D18N4 at 6 A, 480 V, three Peak stall torque 10.2 N.M for LXM32.D18N4 at 6 A, 400 V, three phase 10.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase 1300 W for LXM32.D18N4 at 6 A, 400 V, three Nominal output power phase 1300 W for LXM32.D18N4 at 6 A, 480 V, three phase Nominal torque 2.4 N.M for LXM32.D18N4 at 6 A, 400 V, three

phase

Keyed IP54 standard

With

32768 points/turn

International standard flange

Rotatable right-angled connectors

2.4 N.m for LXM32.D18N4 at 6 A, 480 V, three

5000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 5000 rpm for LXM32.D18N4 at 6 A, 480 V, three

LXM32.D18N4 at 400...480 V three phase

# Complementary

Complementary	
Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	3.91 A
Continuous power	1.68 W
Maximum current Irms	12.6 A for LXM32.D18N4
Maximum permanent current	12.57 A
Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	30 mm
Key width	20 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	3 N.m holding brake
Motor flange size	70 mm
Number of motor stacks	3
Torque constant	0.87 N.m/A at 120 °C
Back emf constant	55.8 V/krpm at 120 °C

Nominal speed

Shaft end

resolution

Holding brake

Mounting support

Product compatibility

IP degree of protection
Speed feedback

Electrical connection

contained herein The information

Number of motor poles	10
Rotor inertia	1.78 kg.cm²
Stator resistance	2.65 Ohm at 20 °C
Stator inductance	8.6 mH at 20 °C
Stator electrical time constant	3.2 ms at 20 °C
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	225 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	4 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	4.142 kg
Package 1 Height	11.5 cm
Package 1 width	19.0 cm
Package 1 Length	39.5 cm
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Weight	83.056 kg
Package 2 Height	75.0 cm
Package 2 width	60.0 cm
Package 2 Length	80.0 cm

## Offer Sustainability

Sustainable offer status	Green Premium product  REACh Declaration					
REACh Regulation						
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV RoHS  Declaration					
Mercury free	Yes					
RoHS exemption information	₫Yes					
China RoHS Regulation	<sup>™</sup> China RoHS Declaration					
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

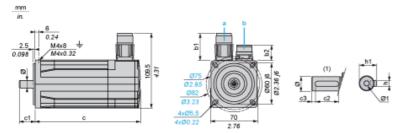
Warranty	18 months
,	

## Product data sheet **Dimensions Drawings**

# BMH0703P16F2A

### Servo Motors Dimensions

### **Example with Straight Connectors**



- Power supply for servo motor brake
- Power supply for servo motor encoder Shaft end, keyed slot (optional) b:

#### Dimensions in mm

Straigh connec		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	сЗ	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	186	225	30	20	5	5 h9	16 <sup>+0</sup> <sub>-0.13</sub>	14 k6	M5 x 17

#### Dimensions in in.

Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 <sup>+0</sup> <sub>-0.0051</sub>	0.55 k6	M5 x 0.67

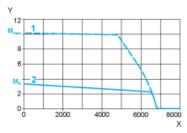
## Product data sheet **Performance Curves**

# BMH0703P16F2A

### 400 V 3-Phase Supply Voltage

### Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

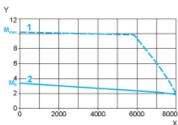


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

### 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