## BMH0703P16F1A

servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, with brake, IP54, 16bit encoder, straight, 3 phases





# Main

Product or Component Type	Servo motor
Device short name	ВМН
Maximum mechanical speed	8000 rpm
Continuous stall torque	30.09 Lbf.ln (3.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Peak stall torque	90.28 Lbf.In (10.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 90.28 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal output power	1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase
Nominal torque	21.24 Lbf.In (2.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 21.24 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal speed	5000 rpm LXM32.D18N4 6 A, 400 V, three phase 5000 rpm LXM32.D18N4 6 A, 480 V, three phase
Product compatibility	LXM32.D18N4 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	Straight connectors

### Complementary

Complementary	
Range Compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	3.91 A
Continuous power	1.68 W
Maximum current Irms	12.6 A LXM32.D18N4
Maximum permanent current	12.57 A
Second shaft	Without second shaft end
Shaft diameter	0.55 in (14 mm)
Shaft length	1.18 in (30 mm)
Key width	0.79 in (20 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	26.55 lbf.in (3 N.m) holding brake
Motor flange size	2.76 in (70 mm)
Number of motor stacks	3
Torque constant	0.87 N.m/A 248 °F (120 °C)
Back emf constant	55.8 V/krpm 248 °F (120 °C)
Number of motor poles	10
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Rotor inertia	1.78 kg.cm²					
Stator resistance	2.65 Ohm 68 °F (20 °C)					
Stator inductance	8.6 mH 68 °F (20 °C)					
Stator electrical time constant	3.2 ms 68 °F (20 °C)					
Maximum radial force Fr	730 N 1000 rpm					
	580 N 2000 rpm					
	510 N 3000 rpm					
	460 N 4000 rpm					
	430 N 5000 rpm					
	400 N 6000 rpm					
Maximum axial force Fa	0.2 x Fr					
Brake pull-in power	7 W					
Type of cooling	Natural convection					
Length	8.86 in (225 mm)					
Centring collar diameter	2.36 in (60 mm)					
Centring collar depth	0.10 in (2.5 mm)					
Number of mounting holes	4					
Mounting holes diameter	0.22 in (5.5 mm)					
Circle diameter of the mounting holes	3.23 in (82 mm)					
Net Weight	8.82 lb(US) (4 kg)					

## Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485199405
Returnability	No
Country of origin	DE

### Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.33 in (11.0 cm)	
Package 1 Width	7.87 in (20.0 cm)	
Package 1 Length	15.75 in (40.0 cm)	
Package 1 Weight	7.05 lb(US) (3.2 kg)	

### Offer Sustainability

Sustainable offer status	Green Premium product  WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov					
California proposition 65						
REACh Regulation	☑ REACh Declaration					
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)					
Mercury free	Yes					
China RoHS Regulation	China RoHS Declaration					
RoHS exemption information	₽¥Yes					
Environmental Disclosure	Product Environmental Profile					
Circularity Profile	No need of specific recycling operations					
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

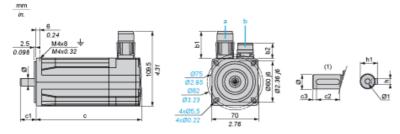
Warranty	18 months

## Product data sheet **Dimensions Drawings**

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### 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

_	Straight Rotatable connectors angled connectors		c (without brake)	c (with brake)	c1	c2	c3	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.

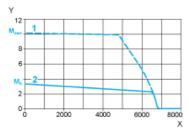
Straight				c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 <sup>+0</sup> <sub>-0.0051</sub>	0.55 k6	M5 x 0.67

## BMH0703P16F1A

#### 400 V 3-Phase Supply Voltage

### Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

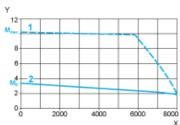


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

### 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