## BMH0703T16F2A

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





Main	
Product or component type	Servo motor
Device short name	ВМН
Maximum mechanical speed	8000 rpm
Continuous stall torque	30.09 Lbf.In (3.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 30.09 lbf.in (3.4 N.m) LXM32.D18M2 6 A, 230 V, single phase
Peak stall torque	77.00 Lbf.In (8.7 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.28 lbf.in (10.2 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal output power	650 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase
Nominal torque	27.44 Lbf.In (3.1 N.m) LXM32.D30M2 10 A, 115 V, single phase 25.67 lbf.in (2.9 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase
Product compatibility	LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	With
Mounting support	International standard flange

Rotatable right-angled connectors

#### Complementary

Complementary						
Range compatibility	Lexium 32					
[Us] rated supply voltage	240 V					
Phase	Three phase					
Continuous stall current	5.55 A					
Continuous power	1.68 W					
Maximum current Irms	15 A LXM32.D30M2 17.8 A LXM32.D18M2					
Maximum permanent current	17.84 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	0.61 N.m/A 248 °F (120 °C)					
Back emf constant	39.3 V/krpm 248 °F (120 °C)					
Number of motor poles	10					
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Electrical connection

Rotor inertia	1.78 kg.cm²
Stator resistance	1.32 Ohm 68 °F (20 °C)
Stator inductance	4.3 mH 68 °F (20 °C)
Stator electrical time constant	3.3 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

0 11 0						
Category	18282 - LEXIUM 32 MOTORS					
Discount Schedule	PC53					
GTIN	00785901861829					
Nbr. of units in pkg.	1					
Package weight(Lbs)	9.2 lb(US) (4.17 kg)					
Returnability	No					
Country of origin	DE					

#### **Packing Units**

Unit Type of Package 1	PCE	
Package 1 Height	4.33 in (11 cm)	
Package 1 width	7.87 in (20 cm)	
Package 1 Length	15.75 in (40 cm)	

### Offer Sustainability

Sustainable offer status	Green Premium product					
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov					
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEU RoHS  Declaration					
Mercury free	Yes					
RoHS exemption information	₫Yes					
China RoHS Regulation	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.					

### Contractual warranty

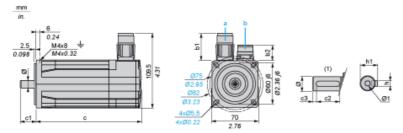
Warranty	18 months

## Product data sheet **Dimensions Drawings**

# BMH0703T16F2A

#### 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			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	•			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

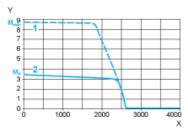
### Product data sheet **Performance Curves**

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#### 115 V Single-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

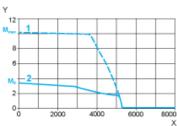


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

#### 230 V Single-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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