# Product data sheet





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

BMH0703T06F1A

! Discontinued on: Oct 9, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

## Main

Device short name	вмн						
Product or Component Type	Servo motor						
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	77.001 lbf.in (8.7 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.3 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	27.4 lbf.in (3.1 N.m) LXM32.D30M2 10 A, 115 V, single phase 25.7 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	Smooth shaft						
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

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

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (30 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	26.6 lbf.in (3 N.m) holding brake
Motor flange size	2.8 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
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	8.9 in (225 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net Weight	8.8 lb(US) (4 kg)

# Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485195124
Returnability	No
Country of origin	DE

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.3 in (11.0 cm)
Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	15.7 in (40.0 cm)

Package 1 Weight

7.05 lb(US) (3.2 kg)

# **Contractual warranty**

Warranty

18 months

# Sustainability Green Premium\*

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance

	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes
	Pvc Free	

## **Certifications & Standards**

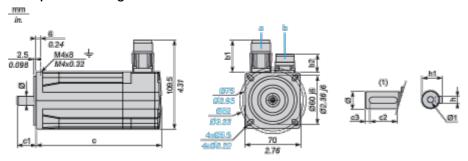
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)					
China Rohs Regulation	China RoHS declaration					
Environmental Disclosure	Product Environmental Profile					
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.					
Circularity Profile	No need of specific recycling operations					
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 cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov					

## BMH0703T06F1A

## **Dimensions Drawings**

#### **Servo Motors Dimensions**

## **Example with Straight Connectors**



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

#### Dimensions in mm

Straight Rotatable angled connectors connectors		c (without c (with	c1 c2	c2	2 c3	h	h1	Ø	Ø1 for			
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	186	225	30	20	5	5 h9	16 <sup>+0</sup> _ 0.13	14 k6	M5 x 17

#### Dimensions in in.

Straigh		Rotata angled connec		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
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> _ 0.0051	0.55 k6	M5 x 0.67

## **Product data sheet**

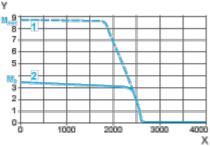
## BMH0703T06F1A

#### Performance Curves

## 115 V Single-Phase Supply Voltage

## **Torque/Speed Curves**

Servo motor with LXM32•D30M2 servo drive

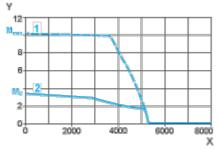


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

## 230 V Single-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D18M2 servo drive



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