# Product data sheet

Specifications





## servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, without brake, IP54, 128 multiturn encoder

BMH0703T12A2A

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

## Price\*: 3,161.25 USD

## Main

ВМН
Servo motor
8000 rpm
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
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
650 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase
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
2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase
LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase
Keyed
IP54 standard
131072 points/turn x 4096 turns
Without
International standard flange
Rotatable right-angled 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)
Key width	0.8 in (20 mm)
Feedback type	Multiturn SinCos Hiperface
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	1.67 kg.cm <sup>2</sup>
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
Type of cooling	Natural convection
Length	7.3 in (186 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	6.6 lb(US) (3 kg)

## Ordering and shipping details

Category	US1PC5318282					
Discount Schedule	PC53					
GTIN	3606485195018					
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	4.9 lb(US) (2.2 kg)						

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen 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
Rohs Exemption Information Yes
Pvc Free

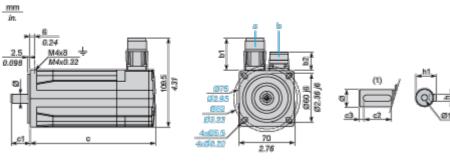
## **Certifications & Standards**

Reach Regulation	REACh Declaration					
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					

### **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	c1 c2		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.

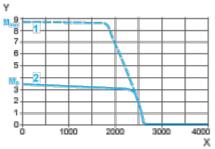
Straigh conneo		Rotata angled connec		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	Diakej								
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 <sup>+0</sup> _ 0.0051	0.55 k6	M5 x 0.67

### Performance Curves

### 115 V Single-Phase Supply Voltage

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

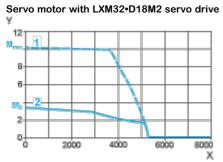
Servo motor with LXM32•D30M2 servo drive



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

#### 230 V Single-Phase Supply Voltage

#### Torque/Speed Curves



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