# Product data sheet

Specification





servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP65, IP67, 128 multiturn encoder

BMH0702T32A2A

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

Price\*: 2,100.00 USD

#### Main

Device short name	вмн
Product or Component Type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	22.1 lbf.in (2.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 22.1 lbf.in (2.5 N.m) LXM32.D18M2 6 A, 230 V, single phase
Peak stall torque	56.6 lbf.in (6.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 65.5 lbf.in (7.4 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal output power	600 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase
Nominal torque	20.4 lbf.in (2.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 18.6 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal speed	2500 rpm LXM32.D30M2 10 A, 115 V, single phase 4000 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	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

### Complementary

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Range Compatibility	Lexium 32
[Us] rated supply voltage	240 V
Phase	Three phase
Continuous stall current	5.38 A
Continuous power	1.51 W
Maximum current Irms	15 A LXM32.D30M2 17.5 A LXM32.D18M2
Maximum permanent current	17.71 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	0.4 in (11 mm)						
Shaft length	0.9 in (23 mm)						
Key width	0.7 in (18 mm)						
Feedback type	Multiturn SinCos Hiperface						
Motor flange size	2.8 in (70 mm)						
Number of motor stacks	2						
Torque constant	0.46 N.m/A 248 °F (120 °C)						
Back emf constant	29.6 V/krpm 248 °F (120 °C)						
Number of motor poles	10						
Rotor inertia	1.13 kg.cm²						
Stator resistance	1.15 Ohm 68 °F (20 °C)						
Stator inductance	3.6 mH 68 °F (20 °C)						
Stator electrical time constant	3.1 ms 68 °F (20 °C)						
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm						
Maximum axial force Fa	0.2 x Fr						
Type of cooling	Natural convection						
Length	6.06 in (154 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	5.07 lb(US) (2.3 kg)						

## Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485194578
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	4.4 lb(US) (2.0 kg)

## **Contractual warranty**

Warranty

Aug 23, 2024

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

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

#### **Certifications & Standards**

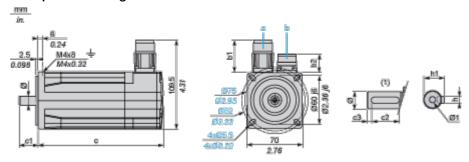
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection 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

### **BMH0702T32A2A**

#### **Dimensions Drawings**

#### **Servo Motors Dimensions**

#### **Example with Straight Connectors**



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

#### Dimensions in mm

_	Straight Rotatable angled connectors		c (without	, ,	c1	c2	сЗ	h	h1	Ø	Ø1 for	
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 <sup>+0</sup> _ 0.13	11 k6	M4 x 14

#### Dimensions in in.

Straigh		Rotata angled connec		c (without	brake)		c2	сЗ	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 <sup>+0</sup> _ 0.0051	0.43 k6	M4 x 0.55

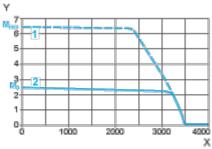
### **BMH0702T32A2A**

#### Performance Curves

### 115 V Single-Phase Supply Voltage

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

Servo motor with LXM32•D30M2 servo drive

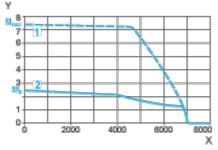


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

#### 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