# Product data sheet

Specifications





## servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, untapped shaft, without brake, IP54, 16bit encoder

BMH1003P06A2A

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

## Price\*: 1,320.00 USD

## Main

Device short name	ВМН			
Product or Component Type	Servo motor			
Maximum mechanical speed	6000 rpm			
Continuous stall torque	74.3 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.3 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Peak stall torque	222.2 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.2 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal output power	2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase			
Nominal torque	54.9 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.9 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal speed	4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase			
Product compatibility	LXM32.D30N4 400480 V three phase			
Shaft end	Smooth shaft			
IP Degree of Protection	IP54 standard			
Speed feedback resolution	32768 points/turn			
Holding brake	Without			
Mounting Support	International standard flange			
Electrical Connection	Rotatable right-angled connectors			

## Complementary

Range Compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Phase	Three phase	
Continuous stall current	7.69 A	
Continuous power	3.3 W	
Maximum current Irms	29.1 A LXM32.D30N4	
Maximum permanent current	29.1 A	
Second shaft	Without second shaft end	
Shaft diameter	0.7 in (19 mm)	
Shaft length	1.6 in (40 mm)	

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

Feedback type	Single turn SinCos Hiperface		
Motor flange size	3.9 in (100 mm)		
Number of motor stacks	3		
Torque constant	1 N.m/A 248 °F (120 °C)		
Back emf constant	63.5 V/krpm 248 °F (120 °C)		
Number of motor poles	10		
Rotor inertia	9.37 kg.cm <sup>2</sup>		
Stator resistance	0.63 Ohm 68 °F (20 °C)		
Stator inductance	4 mH 68 °F (20 °C)		
Stator electrical time constant	6.3 ms 68 °F (20 °C)		
Maximum radial force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm 610 N 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Type of cooling	Natural convection		
Length	7.6 in (192.6 mm)		
Centring collar diameter	3.7 in (95 mm)		
Centring collar depth	0.1 in (3.5 mm)		
Number of mounting holes	4		
Mounting holes diameter	0.4 in (9 mm)		
Circle diameter of the mounting holes	4.5 in (115 mm)		
Net Weight	14.3 lb(US) (6.5 kg)		

## Ordering and shipping details

Category	US1PC5318282		
Discount Schedule	PC53		
GTIN	3606485196589		
Returnability	No		
Country of origin	DE		

## **Packing Units**

Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	7.638 in (19.400 cm)		
Package 1 Width	8.740 in (22.200 cm)		
Package 1 Length	15.748 in (40.000 cm)		
Package 1 Weight	16.918 lb(US) (7.674 kg)		
Unit Type of Package 2	P06		
Number of Units in Package 2	18		
Package 2 Height	41.339 in (105.000 cm)		
Package 2 Width	23.622 in (60.000 cm)		

Package 2 Length

31.496 in (80.000 cm)

Package 2 Weight

317.466 lb(US) (144.000 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

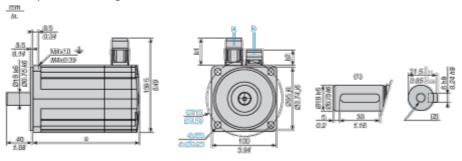
### **Certifications & Standards**

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)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		a (without braka)	o (with broko)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	192	234

Dimensions in in.

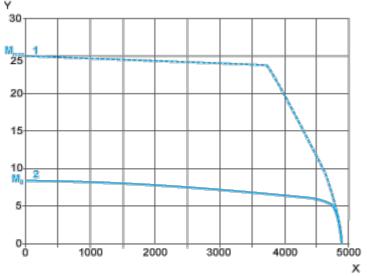
Straight connectors		Rotatable angled connectors		a (without braka)	o (with broko)
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	7.55	9.21

### Performance Curves

### 400 V 3-Phase Supply Voltage

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

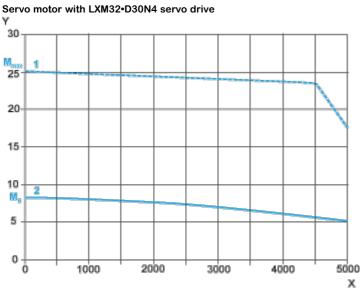
Servo motor with LXM32•D30N4 servo drive



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

#### 480 V 3-Phase Supply Voltage

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



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque