# BMH1003P06A1A

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





#### Main

Device short name	ВМН
Product or Component Type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	74.35 Lbf.In (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase
Peak stall torque	222.15 Lbf.In (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.15 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	54.87 Lbf.In (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.87 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	Straight connectors

### Complementary

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)	
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)	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	7.58 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	8282	
Discount Schedule	PC53		
GTIN	3606485196503		
Returnability	No		
Country of origin	DE		

# Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	8.3 in (21.0 cm)	
Package 1 Width	7.5 in (19.0 cm)	
Package 1 Length	15.7 in (40.0 cm)	
Package 1 Weight	16.50 lb(US) (7.484 kg)	
Unit Type of Package 2	P06	
Number of Units in Package 2	6	
Package 2 Height	30.3 in (77.0 cm)	
Package 2 Width	31.5 in (80.0 cm)	
Package 2 Length	23.6 in (60.0 cm)	
Package 2 Weight	117.74 lb(US) (53.404 kg)	

# Offer Sustainability

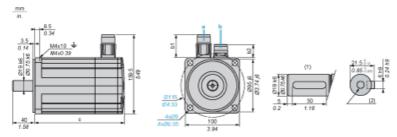
Sustainable offer status	Green Premium product			
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov			
REACh Regulation	REACh Declaration			
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Mercury free	Yes			
China RoHS Regulation	☑ China RoHS Declaration			
RoHS exemption information	₫Yes			
Environmental Disclosure	Product Environmental Profile			
Circularity Profile	No need of specific recycling operations			
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.			
PVC free	Yes			

Warranty 18 months

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## Servo Motors Dimensions

## **Example with Straight Connectors**



- Power supply for servo motor brake
- Power supply for servo motor encoder
- (1)
- Shaft end, keyed slot (optional) For screw M6 x 21 mm/M6 x 0.83 in.

#### Dimensions in mm

Straight connectors	5	Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	192	234

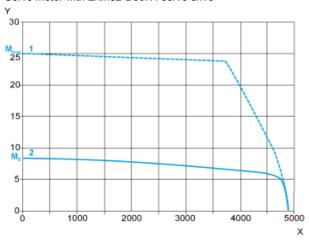
#### Dimensions in in.

Straight connectors	3	Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

### 400 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

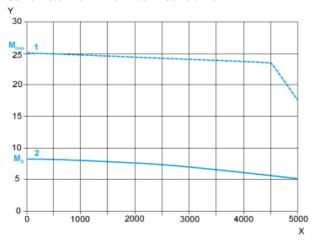


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

# 480 V 3-Phase Supply Voltage

### Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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