# **Product datasheet**

Specifications





servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, keyed shaft, without brake, IP54, 128bit encoder

BMH1003P11A2A

### Main

Product Or Component Type	Servo motor	
Device Short Name	вмн	
Maximum Mechanical Speed	6000 rpm	
Continuous Stall Torque	8.4 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 8.4 N.m for LXM32.D30N4 at 10 A, 480 V, three phase	
Peak Stall Torque	25.1 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 25.1 N.m for LXM32.D30N4 at 10 A, 480 V, three phase	
Nominal Output Power	2700 W for LXM32.D30N4 at 10 A, 400 V, three phase 2700 W for LXM32.D30N4 at 10 A, 480 V, three phase	
Nominal Torque	6.2 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 6.2 N.m for LXM32.D30N4 at 10 A, 480 V, three phase	
Nominal Speed	4000 rpm for LXM32.D30N4 at 10 A, 400 V, three phase 4000 rpm for LXM32.D30N4 at 10 A, 480 V, three phase	
Product Compatibility	LXM32.D30N4 at 400480 V three phase	
Shaft End	Keyed	
Ip Degree Of Protection	IP54 standard	
Speed Feedback Resolution	131072 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
Network Number Of Phases	Three phase
Continuous Stall Current	7.69 A
Continuous Power	3.3 W
Maximum Current Irms	29.1 A for LXM32.D30N4
Maximum Permanent Current	29.1 A
Second Shaft	Without second shaft end
Shaft Diameter	19 mm
Shaft Length	40 mm
Key Width	30 mm
Feedback Type	Single turn SinCos Hiperface

Motor Flange Size	100 mm		
Number Of Motor Stacks	3		
Torque Constant	1 N.m/A at 120 °C		
Back Emf Constant	63.5 V/krpm at 120 °C		
Number Of Motor Poles	10		
Rotor Inertia	9.37 kg.cm²		
Stator Resistance	0.63 Ohm at 20 °C		
Stator Inductance	4 mH at 20 °C		
Stator Electrical Time Constant	6.3 ms at 20 °C		
Maximum Radial Force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm		
Maximum Axial Force Fa	0.2 x Fr		
Type Of Cooling	Natural convection		
Length	192.6 mm		
Centring Collar Diameter	95 mm		
Centring Collar Depth	3.5 mm		
Number Of Mounting Holes	4		
Mounting Holes Diameter	9 mm		
Circle Diameter Of The Mounting Holes	115 mm		
Net Weight	6.5 kg		

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	22.500 cm
Package 1 Width	19.500 cm
Package 1 Length	40.000 cm
Package 1 Weight	7.692 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	12
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	100.684 kg

# **Contractual warranty**

Warranty 18 months



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

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Transparency RoHS/REACh

### Well-being performance

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

#### **Certifications & Standards**

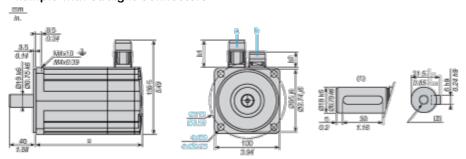
Circularity Profile	No need of specific recycling operations			
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
<b>Environmental Disclosure</b>	Product Environmental Profile			
China Rohs Regulation	China RoHS declaration			
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)			
Reach Regulation	REACh Declaration			

### BMH1003P11A2A

#### **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		ectors Rotatable angled connectors		a (without broke)	o (with broke)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	192	234

#### Dimensions in in.

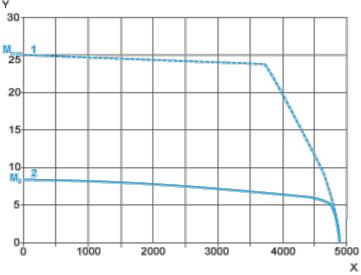
Straight o	raight connectors Rotatable angled connectors		a (without broke)	a (with handsa)	
b1	b2	b1	b2	c (without brake)	c (with brake)
1.55	1.00	1.55	1.55	7.55	9.21

#### Performance Curves

## 400 V 3-Phase Supply Voltage

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

Servo motor with LXM32•D30N4 servo drive

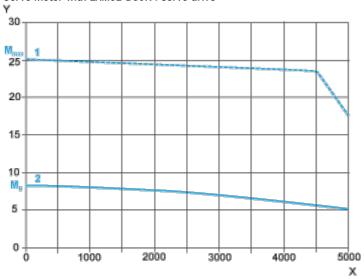


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

#### 480 V 3-Phase Supply Voltage

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

Servo motor with LXM32•D30N4 servo drive



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