

# servo motor BMH - 8.4 Nm - 6000 rpm - untapped shaft - without brake - IP54

BMH1003P01A1A

EAN Code: 3606485200484

## Main

Device short name	вмн			
Product or component type	Servo motor			
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	Smooth shaft			
IP degree of protection	IP54 standard			
Speed feedback resolution	131072 points/turn			
Holding brake	Without			
Mounting support	International standard flange			
Electrical connection	Straight connectors			

## Complementary

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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	26.71 A for LXM32.D30N4		
Maximum permanent current	29.1 A		
Second shaft	Without second shaft end		
Shaft diameter	19 mm		
Shaft length	40 mm		
Feedback type	Single turn SinCos Hiperface		
Motor flange size	100 mm		

63.5 V/krpm at 120 °C			
5.0			
9.37 kg.cm <sup>2</sup>			
2.615 mH at 20 °C			
6.3 ms at 20 °C			
0.2 x Fr			
Natural convection			
192.6 mm			
95 mm			

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.500 cm
Package 1 Width	22.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	7.516 kg
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	15.817 kg

# **Logistical informations**

Country of origin

DE

# **Contractual warranty**

Warranty

1 Jul 2025

18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint			
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	2966		
Environmental Disclosure	Product Environmental Profile		

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACh Regulation	REACh Declaration
PVC free	Yes

#### **Use Again**

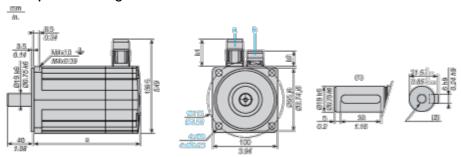
○ Repack and remanufacture				
Circularity Profile	No need of specific recycling operations			
Take-back	No			
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			

### BMH1003P01A1A

#### **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 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

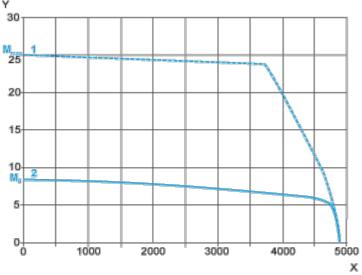
Zaniene at an						
Straight connectors		Rotatable angled connectors		c (without brake)	a (with brake)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	7.55	9.21	

#### Performance Curves

## 400 V 3-Phase Supply Voltage

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

Servo motor with LXM32•D30N4 servo drive

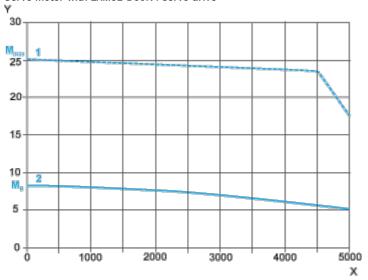


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

#### 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