# Product data sheet





servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, untapped shaft, without brake, IP65, IP67, 128bit encoder, straight, 3 phases

BMH0702P21A1A

(!) Discontinued on: Jun 30, 2023

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

## Main

Product Or Component Type	Servo motor						
Device Short Name	вмн						
Maximum Mechanical Speed	8000 rpm						
Continuous Stall Torque	22.13 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 400 V, three phase 22.13 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 480 V, three phase						
Peak Stall Torque	65.50 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 65.50 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 480 V, three phase						
Nominal Output Power	700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase						
Nominal Torque	19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 480 V, three phase						
Nominal Speed	3000 rpm LXM32.D12N4 3 A, 400 V, three phase 3000 rpm LXM32.D12N4 3 A, 480 V, three phase						
Product Compatibility	LXM32.D12N4 400480 V three phase						
Shaft End	Smooth shaft						
Ip Degree Of Protection	IP65 standard IP67 with IP67 kit						
Speed Feedback Resolution	131072 points/turn						
Holding Brake	Without						
Mounting Support	International standard flange						
Electrical Connection	Straight connectors						

## Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	2.94 A
Continuous Power	1.51 W
Maximum Current Irms	9.7 A LXM32.D12N4
Maximum Permanent Current	9.68 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	0.43 in (11 mm)						
Shaft Length	0.91 in (23 mm)						
Feedback Type	Single turn SinCos Hiperface						
Motor Flange Size	2.76 in (70 mm)						
Number Of Motor Stacks	2						
Torque Constant	0.84 N.m/A 248 °F (120 °C)						
Back Emf Constant	54.08 V/krpm 248 °F (120 °C)						
Number Of Motor Poles	10						
Rotor Inertia	1.13 kg.cm²						
Stator Resistance	3.8 Ohm 68 °F (20 °C)						
Stator Inductance	12.2 mH 68 °F (20 °C)						
Stator Electrical Time Constant	3.2 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	2.36 in (60 mm)						
Centring Collar Depth	0.10 in (2.5 mm)						
Number Of Mounting Holes	4						
Mounting Holes Diameter	0.22 in (5.5 mm)						
Circle Diameter Of The Mounting Holes	3.23 in (82 mm)						
Net Weight	5.07 lb(US) (2.3 kg)						

# Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485198897
Returnability	No
Country Of Origin	DE

# **Packing Units**

Unit Type Of Package 1	PCE					
Number Of Units In Package 1	1					
Package 1 Height	4.33 in (11.0 cm)					
Package 1 Width	7.87 in (20.0 cm)					
Package 1 Length	15.75 in (40.0 cm)					
Package 1 Weight	4.41 lb(US) (2.0 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

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

## **Certifications & Standards**

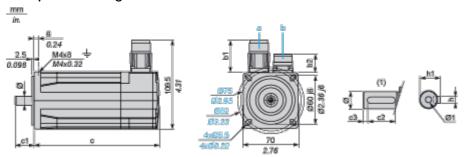
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

# BMH0702P21A1A

## **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)

#### Dimensions in mm

		Rotatable angled connectors		c (without c (with	c1 c	c2	c2 c3	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> _	11 k6	M4 x 14

#### Dimensions in in.

_	Straight Rotatable angled connectors		angled C (with c (with		c1	c1 c2	c3 h	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2	Diake)								
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

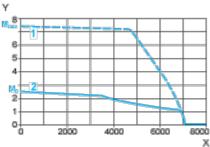
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#### Performance Curves

# 400 V 3-Phase Supply Voltage

## **Torque/Speed Curves**

Servo motor with LXM32•D12N4 servo drive

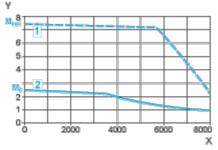


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

## 480 V 3-Phase Supply Voltage

### **Torque/Speed Curves**

Servo motor with LXM32•D12N4 servo drive



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