# BMH0702P06F1A

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, untapped shaft, with brake, IP54, 16bit encoder, straight, 3 phases





#### Main

Device short name	ВМН					
Product or Component Type	Servo motor					
Maximum mechanical speed	8000 rpm					
Continuous stall torque	22.1 Lbf.In (2.5 N.m) LXM32.D12N4 3 A, 400 V, three phase 22.1 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 480 V, three phase					
Peak stall torque	65.5 Lbf.In (7.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 65.5 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	19.5 Lbf.In (2.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 19.5 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	IP54 standard					
Speed feedback resolution	32768 points/turn					
Holding brake	With					
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	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					
Shaft diameter	0.4 in (11 mm)					
Shaft length	0.9 in (23 mm)					
Feedback type	Single turn SinCos Hiperface					
Holding torque	26.6 lbf.in (3 N.m) holding brake					
Motor flange size	2.8 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	1.24 kg.cm²					

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 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						
Maximum axial force Fa	390 N 6000 rpm 0.2 x Fr						
Brake pull-in power	7 W						
Type of cooling	Natural convection						
Length	7.6 in (193 mm)						
Centring collar diameter	2.4 in (60 mm)						
Centring collar depth	0.10 in (2.5 mm)						
Number of mounting holes	4						
Mounting holes diameter	0.2 in (5.5 mm)						
Circle diameter of the mounting holes	3.2 in (82 mm)						
Net Weight	7.3 lb(US) (3.3 kg)						

#### Ordering and shipping details

US1PC5318282
PC53
3606485193724
No
DE

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.3 in (11 cm)
Package 1 Width	7.9 in (20 cm)
Package 1 Length	15.7 in (40 cm)
Package 1 Weight	6.2 lb(US) (2.8 kg)
Package 1 Weight	6.2 lb(US) (2.8 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

#### Contractual warranty

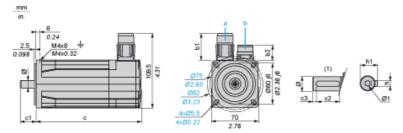
Warranty	18 months

# Product data sheet **Dimensions Drawings**

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#### Servo Motors Dimensions

#### **Example with Straight Connectors**



- Power supply for servo motor brake
- Power supply for servo motor encoder Shaft end, keyed slot (optional) b:

#### Dimensions in mm

Straigh connec	Straight Rotatable angled connectors		c (without c (with brake)	l ,	c1	c2	с3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 <sup>+0</sup> <sub>-0.13</sub>	11 k6	M4 x 14

#### Dimensions in in.

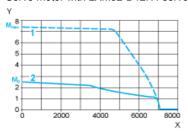
Straight				c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 <sup>+0</sup> <sub>-0.0051</sub>	0.43 k6	M4 x 0.55

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#### 400 V 3-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

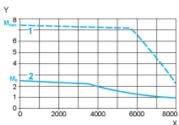


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

#### 480 V 3-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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