BMH0702P17A2A

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP54, 16 multiturn encoder, 3 phases





Main Product or Component

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	Keyed					
IP Degree of Protection	IP54 standard					
Speed feedback resolution	32768 points/turn x 4096 turns					
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
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	0.43 in (11 mm)
Shaft length	0.91 in (23 mm)
Key width	0.71 in (18 mm)
Feedback type	Multiturn 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

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 intended as a substitute for and is not to be used for determining suitability of these products for specific user applications. This characteristic is not integrated 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						
	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	3606485193922
Returnability	Yes
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	15.75 in (40.0 cm)
Package 1 Length	7.87 in (20.0 cm)
Package 1 Weight	4.41 lb(US) (2.0 kg)

Offer Sustainability

Sustainable offer status	Green Premium product 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					
California proposition 65						
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	₽					
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

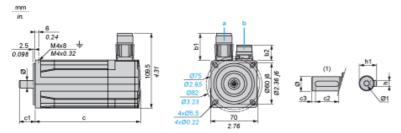
Warranty	18 months
Trantanty	To monate

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

_	Straight Rotatable angled connectors		c (without brake)	'	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 ⁺⁰ _{-0.13}	11 k6	M4 x 14

Dimensions in in.

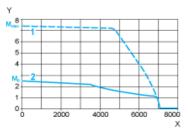
Straight		Rotatable angled connectors		c (without brake)	\		c2	c3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

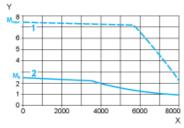


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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