BMH0702P31A2A

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





Main **Product or Component** Servo motor Type Device short name вмн Maximum mechanical 8000 rpm speed Continuous stall torque 22.13 Lbf.In (2.5 N.m) LXM32.D12N4 3 A, 400 V, 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 700 W LXM32.D12N4 3 A, 400 V, three phase Nominal output power 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, 19.47 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 480 V, three phase 3000 rpm LXM32.D12N4 3 A, 400 V, three phase Nominal speed 3000 rpm LXM32.D12N4 3 A, 480 V, three phase Product compatibility LXM32.D12N4 400...480 V three phase Shaft end Keyed IP Degree of Protection IP65 standard IP67 with IP67 kit Speed feedback 131072 points/turn resolution Without Holding brake Mounting Support International standard flange

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	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

Electrical Connection

specific user applications. s with respect to the relevant specific application or use thereof. contained herein technical characteristics of the performance of the products contained mining suitability or reliability of these products for specific user applicatists analysis, evaluation and testing of the products with respect to the up the responsible or liable for misuse of the information contained herein the responsible or liable for misuse of the information contained herein r and is not to be u the appropriate a The information

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	18282-LEXIUM 32 MOTORS					
Discount Schedule	PC53					
GTIN	3606485198989					
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)	

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	₽					
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

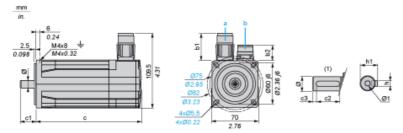
Warranty	18 months
Trantanty	To monate

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)	c (with 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)	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 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

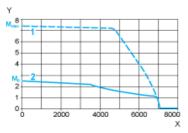
Product data sheet **Performance Curves**

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

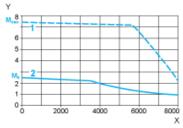


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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