BMH0702P12A2A

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, keyed shaft, without brake, IP54, 128 multiturn encoder, 3 phases





Main Product or component Servo motor type вмн Device short name Maximum mechanical 8000 rpm 2.5 N.M for LXM32.D12N4 at 3 A, 400 V, three Continuous stall torque 2.5 N.m for LXM32.D12N4 at 3 A, 480 V, three Peak stall torque 7.4 N.M for LXM32.D12N4 at 3 A, 400 V, three 7.4 N.m for LXM32.D12N4 at 3 A, 480 V, three phase Nominal output power 700 W for LXM32.D12N4 at 3 A, 400 V, three phase 700 W for LXM32.D12N4 at 3 A, 480 V, three phase 2.2 N.M for LXM32.D12N4 at 3 A, 400 V, three Nominal torque 2.2 N.m for LXM32.D12N4 at 3 A, 480 V, three phase 3000 rpm for LXM32.D12N4 at 3 A, 400 V, three Nominal speed phase 3000 rpm for LXM32.D12N4 at 3 A, 480 V, three Product compatibility LXM32.D12N4 at 400...480 V three phase Shaft end IP degree of protection IP54 standard Speed feedback 131072 points/turn x 4096 turns resolution Holding brake

International standard flange

Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	2.94 A
Continuous power	1.51 W
Maximum current Irms	9.7 A for LXM32.D12N4
Maximum permanent current	9.68 A
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Key width	18 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	70 mm
Number of motor stacks	2
Torque constant	0.84 N.m/A at 120 °C
Back emf constant	54.08 V/krpm at 120 °C

Mounting support

Electrical connection

Number of motor poles	10
Rotor inertia	1.13 kg.cm²
Stator resistance	3.8 Ohm at 20 °C
Stator inductance	12.2 mH at 20 °C
Stator electrical time constant	3.2 ms at 20 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm 410 N at 5000 rpm 390 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	154 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	2.3 kg

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.000 cm
Package 1 Width	19.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	2.941 kg
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6.142 kg
Unit Type of Package 3	P06
Number of Units in Package 3	32
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	106.272 kg

Offer Sustainability

Sustainable offer status	Green Premium product				
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

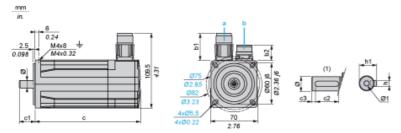
Warranty	18 months
Trainanty	To monate

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	сЗ	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.

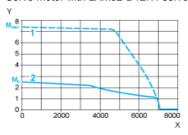
Straight		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2									
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

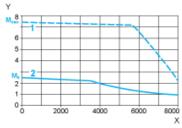


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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