BMH1002T16A2A

servo motor BMH, Lexium 32, 6Nm, 6000rpm, keyed shaft, without brake, IP54, 16bit encoder





Main

Device short name	ВМН
Product or component type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	6 N.M for LXM32.D30M2 at 10 A, 115 V, single
	phase 6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Peak stall torque	10.3 N.M for LXM32.D30M2 at 10 A, 115 V, single
	phase 18.4 N.m for LXM32.D30M2 at 10 A, 230 V, single phase
Nominal output power	750 W for LXM32.D30M2 at 10 A, 115 V, single
	phase 1450 W for LXM32.D30M2 at 10 A, 230 V, single
	phase
Nominal torque	3.5 N.M for LXM32.D30M2 at 10 A, 115 V, single phase
	4.6 N.m for LXM32.D30M2 at 10 A, 230 V, single
	phase
Nominal speed	2000 rpm for LXM32.D30M2 at 10 A, 115 V, single phase
	3000 rpm for LXM32.D30M2 at 10 A, 230 V, single
	phase
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D30M2 at 230 V single phase
Shaft end	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Complementary	
Range compatibility	Lexium 32
[Us] rated supply voltage	240 V
Network number of phases	Three phase
Continuous stall current	8.65 A
Continuous power	2.39 W
Maximum current Irms	15 A for LXM32.D30M2 at 115 V 30 A for LXM32.D30M2 at 230 V
Maximum permanent current	30.24 A
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Key width	30 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	100 mm
Number of motor stacks	2
Torque constant	0.72 N.m/A at 120 °C

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Back emf constant	46.2 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	6.28 kg.cm ²
Stator resistance	0.54 Ohm at 20 °C
Stator inductance	2.7 mH at 20 °C
Stator electrical time constant	5 ms at 20 °C
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	160.6 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Net weight	4.92 kg

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	22.000 cm	
Package 1 Width	19.500 cm	
Package 1 Length	40.000 cm	
Package 1 Weight	6.036 kg	
Unit Type of Package 2	P06	
Number of Units in Package 2	18	
Package 2 Height	80.000 cm	
Package 2 Width	60.000 cm	
Package 2 Length	80.000 cm	
Package 2 Weight	115.000 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

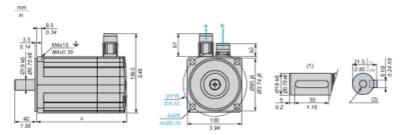
Warranty 18 months		
	Warranty	18 months

Product data sheet Dimensions Drawings

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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)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	160	202

Dimensions in in.

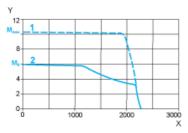
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	6.29	7.95

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115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

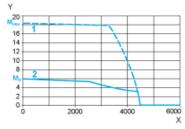


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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