BMH0702T12A2A

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





Main **Product or Component** Servo motor Type Device short name вмн 8000 rpm Maximum mechanical speed Continuous stall torque 22.13 Lbf.In (2.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 22.13 lbf.in (2.5 N.m) LXM32.D18M2 6 A, 230 V, single phase Peak stall torque 56.64 Lbf.In (6.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 65.50 lbf.in (7.4 N.m) LXM32.D18M2 6 A, 230 V, single phase 600 W LXM32.D30M2 10 A, 115 V, single phase Nominal output power 900 W LXM32.D18M2 6 A, 230 V, single phase Nominal torque 20.36 Lbf.In (2.3 N.m) LXM32.D30M2 10 A, 115 V, 18.59 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase 2500 rpm LXM32.D30M2 10 A, 115 V, single phase Nominal speed 4000 rpm LXM32.D18M2 6 A, 230 V, single phase Product compatibility LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single phase Shaft end IP Degree of Protection IP54 standard Speed feedback 131072 points/turn x 4096 turns resolution Holding brake Without Mounting Support International standard flange

Rotatable right-angled connectors

Complementary

Complementary	
Range Compatibility	Lexium 32
[Us] rated supply voltage	240 V
Phase	Three phase
Continuous stall current	5.38 A
Continuous power	1.51 W
Maximum current Irms	15 A LXM32.D30M2 17.5 A LXM32.D18M2
Maximum permanent current	17.71 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	0.46 N.m/A 248 °F (120 °C)
Back emf constant	29.6 V/krpm 248 °F (120 °C)
Number of motor poles	10

Electrical Connection

Rotor inertia	1.13 kg.cm²
Stator resistance	1.15 Ohm 68 °F (20 °C)
- Statol resistance	, ,
Stator inductance	3.6 mH 68 °F (20 °C)
Stator electrical time constant	3.1 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)
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Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS					
Discount Schedule	PC53					
GTIN	3606485194554					
Returnability	No					
Country of origin	DE					

Packing Units

PCE
1
4.33 in (11.0 cm)
7.87 in (20.0 cm)
15.75 in (40.0 cm)
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	€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

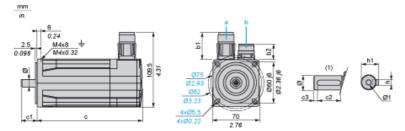
Warranty	18 months

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

_	Straight Rotatable connectors 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	•			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

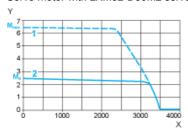
Product data sheet **Performance Curves**

BMH0702T12A2A

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

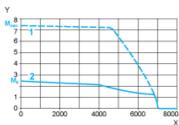


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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