BMH0702T12F1A

servo motor BMH - 2.5 Nm - 8000 rpm - keyed shaft - with brake - IP54





Main	
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.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
Nominal output power	600 W LXM32.D30M2 10 A, 115 V, single phase 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, single phase 18.59 lbf.in (2.1 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal speed	2500 rpm LXM32.D30M2 10 A, 115 V, single phase 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	Keyed
IP degree of protection	IP54 standard
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With

International standard flange

Straight 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	
Holding torque	26.55 lbf.in (3 N.m) holding brake	
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	

Mounting support

Electrical connection

Rotor inertia	1.24 kg.cm ²
Stator resistance	1.15 Ohm 68 °F (20 °C)
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
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	7.60 in (193 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	7.28 lb(US) (3.3 kg)

Ordering and shipping details

0 11 0					
Category	18282 - LEXIUM 32 MOTORS				
Discount Schedule	PC53				
GTIN	03606485194516				
Nbr. of units in pkg.	1				
Package weight(Lbs)	1 lb(US) (0.45 kg)				
Returnability	No				
Country of origin	DE				

Packing Units

Unit Type of Package 1	PCE				
Package 1 Height	4.33 in (11 cm)				
Package 1 width	7.87 in (20 cm)				
Package 1 Length	15.75 in (40 cm)				

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
RoHS exemption information	₫Yes
China RoHS Regulation	[™] China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
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

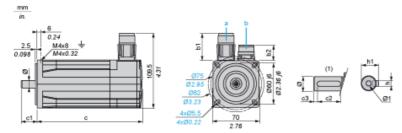
Warranty	18 months

Product data sheet Dimensions Drawings

BMH0702T12F1A

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)

Dimensions in mm

Straight	Straight Rotatable angled connectors		c (without brake)	, ,	c1 c	c2	c3	h	h1		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

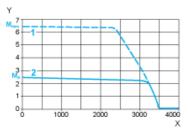
Product data sheet **Performance Curves**

BMH0702T12F1A

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

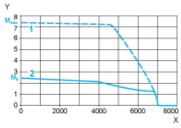


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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