BMH0701T31F2A

servo motor BMH, Lexium 32, 1.4Nm, 8000rpm, keyed shaft, with brake, IP65, IP67, 128bit encoder





Main						
Product or Component Type	Servo motor					
Device short name	ВМН					
Maximum mechanical speed	8000 rpm					
Continuous stall torque	12.39 Lbf.In (1.4 N.m) LXM32.U90M2 3 A, 230 V, single phase 12.39 lbf.in (1.4 N.m) LXM32.D18M2 6 A, 115 V, single phase					
Peak stall torque	35.40 Lbf.In (4 N.m) LXM32.U90M2 3 A, 230 V, single phase 37.17 lbf.in (4.2 N.m) LXM32.D18M2 6 A, 115 V, single phase					
Nominal output power	450 W LXM32.U90M2 3 A, 230 V, single phase 350 W LXM32.D18M2 6 A, 115 V, single phase					
Nominal torque	9.74 Lbf.In (1.1 N.m) LXM32.U90M2 3 A, 230 V, single phase 11.95 lbf.in (1.35 N.m) LXM32.D18M2 6 A, 115 V, single phase					
Nominal speed	4000 rpm LXM32.U90M2 3 A, 230 V, single phase 2500 rpm LXM32.D18M2 6 A, 115 V, single phase					
Product compatibility	LXM32.D18M2 115 V single phase LXM32.U90M2 230 V single phase					
Shaft end	Keyed					
IP Degree of Protection	IP65 standard IP67 with IP67 kit					
Speed feedback resolution	131072 points/turn					
Holding brake	With					
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	2.85 A
Continuous power	1.05 W
Maximum current Irms	9.6 A LXM32.D18M2 9.6 A LXM32.U90M2
Maximum permanent current	9.56 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
Holding torque	26.55 lbf.in (3 N.m) holding brake
Motor flange size	2.76 in (70 mm)
Number of motor stacks	1
Torque constant	0.49 N.m/A 248 °F (120 °C)

Electrical Connection

Back emf constant	31.17 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	0.7 kg.cm²
Stator resistance	3.2 Ohm 68 °F (20 °C)
Stator inductance	9.1 mH 68 °F (20 °C)
Stator electrical time constant	2.8 ms 68 °F (20 °C)
Maximum radial force Fr	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
Type of cooling	Natural convection
Length	6.34 in (161 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	5.73 lb(US) (2.6 kg)

Ordering and shipping details

18282-LEXIUM 32 MOTORS
PC53
3606485199825
No
DE

Packing Units

PCE	
1	
4.33 in (11.0 cm)	
7.87 in (20.0 cm)	
15.75 in (40.0 cm)	
3.97 lb(US) (1.8 kg)	
	1 4.33 in (11.0 cm) 7.87 in (20.0 cm) 15.75 in (40.0 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		
na 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		

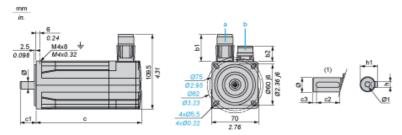
Warranty 18 months

Product data sheet **Dimensions Drawings**

BMH0701T31F2A

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	traight 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	122	161	23	18	2.5	4 h9	12.5 ⁺⁰ _{-0.13}	11 k6	M4 x 14

Dimensions in in.

Straight	Straight Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	c3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2									
1.55	1	1.55	1.55	4.80	6.33	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _{-0.0051}	0.43 k6	M4 x 0.55

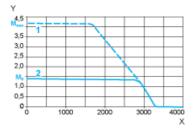
Product data sheet Performance Curves

BMH0701T31F2A

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive

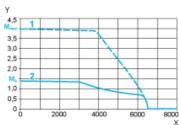


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•U90M2 servo drive



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