BMH0701T12F2A

servo motor BMH, Lexium 32, 1.4Nm, 8000rpm, keyed shaft, with brake, IP54, 128 multiturn 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.ln (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	IP54 standard						
Speed feedback resolution	131072 points/turn x 4096 turns						
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	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	1	
Torque constant	0.49 N.m/A 248 °F (120 °C)	
Back emf constant	31.17 V/krpm 248 °F (120 °C)	

Electrical Connection

10						
0.7 kg.cm ²						
3.2 Ohm 68 °F (20 °C)						
3.2 OHIII 00 F (20 G)						
9.1 mH 68 °F (20 °C)						
2.8 ms 68 °F (20 °C)						
660 N 1000 rpm						
520 N 2000 rpm						
460 N 3000 rpm						
410 N 4000 rpm						
380 N 5000 rpm						
360 N 6000 rpm						
0.2 x Fr						
7 W						
Natural convection						
6.34 in (161 mm)						
2.36 in (60 mm)						
0.10 in (2.5 mm)						
4						
0.22 in (5.5 mm)						
3.23 in (82 mm)						
5.73 lb(US) (2.6 kg)						

Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485194127
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.53 in (11.500 cm)
Package 1 Width	7.68 in (19.500 cm)
Package 1 Length	15.55 in (39.500 cm)
Package 1 Weight	5.94 lb(US) (2.693 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	31.50 in (80.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	47.12 lb(US) (21.372 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					

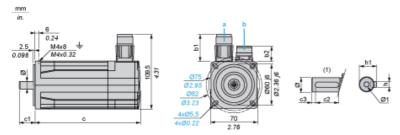
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes
Contractual warranty	
Warranty	18 months

Product data sheet **Dimensions Drawings**

BMH0701T12F2A

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:
- (1)

Dimensions in mm

_	Straight Rotatable angled connectors		c (without c (with brake)	c1	c2	c3	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

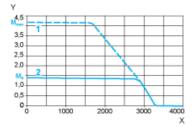
Product data sheet Performance Curves

BMH0701T12F2A

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive

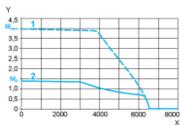


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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
- Continuous torque