BMH1002T02F2A

servo motor BMH, Lexium 32, 6Nm, 6000rpm, untapped shaft, with brake, IP54, 128 multiturn encoder





Main

Product or Component Type	Servo motor		
Device short name	ВМН		
Maximum mechanical speed	6000 rpm		
Continuous stall torque	53.10 Lbf.In (6 N.m) LXM32.D30M2 10 A, 115 V, single phase 53.10 lbf.in (6 N.m) LXM32.D30M2 10 A, 230 V, single phase		
Peak stall torque	91.16 Lbf.In (10.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 162.85 lbf.in (18.4 N.m) LXM32.D30M2 10 A, 230 V, single phase		
Nominal output power	750 W LXM32.D30M2 10 A, 115 V, single phase 1450 W LXM32.D30M2 10 A, 230 V, single phase		
Nominal torque	30.98 Lbf.ln (3.5 N.m) LXM32.D30M2 10 A, 115 V, single phase 40.71 lbf.in (4.6 N.m) LXM32.D30M2 10 A, 230 V, single phase		
Nominal speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D30M2 10 A, 230 V, single phase		
Product compatibility	LXM32.D30M2 115 V single phase LXM32.D30M2 230 V single phase		
Shaft end	Smooth shaft		
IP Degree of Protection	IP54 standard		
Speed feedback resolution	131072 points/turn x 4096 turns		
Holding brake	With		
Mounting Support	International standard flange		
Electrical Connection	Rotatable right-angled connectors		

Complementary

Range Compatibility	Lexium 32	
[Us] rated supply voltage	240 V	
Phase	Three phase	
Continuous stall current	8.65 A	
Continuous power	2.39 W	
Maximum current Irms	15 A LXM32.D30M2 115 V 30 A LXM32.D30M2 230 V	
Maximum permanent current	30.24 A	
Second shaft	Without second shaft end	
Shaft diameter	0.75 in (19 mm)	
Shaft length	1.57 in (40 mm)	
Feedback type	Multiturn SinCos Hiperface	
Holding torque	48.68 lbf.in (5.5 N.m) holding brake	
Motor flange size	3.94 in (100 mm)	
Number of motor stacks	2	
Torque constant	0.72 N.m/A 248 °F (120 °C)	
Back emf constant	46.2 V/krpm 248 °F (120 °C)	

10		
6.77 kg.cm²		
0.54 Ohm 68 °F (20 °C)		
2.7 mH 68 °F (20 °C)		
5 ms 68 °F (20 °C)		
990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm		
0.2 x Fr		
12 W		
Natural convection		
7.96 in (202.3 mm)		
3.74 in (95 mm)		
0.14 in (3.5 mm)		
4		
0.35 in (9 mm)		
4.53 in (115 mm)		
14.11 lb(US) (6.4 kg)		

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485197418
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	8.66 in (22.0 cm)		
Package 1 Width	7.87 in (20.0 cm)		
Package 1 Length	15.75 in (40.0 cm)		
Package 1 Weight	14.73 lb(US) (6.68 kg)		
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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 specif waste collection and never end up in rubbish bins.			
PVC free	Yes			

Contractual warranty

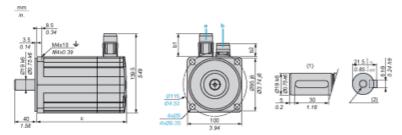
Warranty	18 months		

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
- (1) Shaft end, keyed slot (optional)
 (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connector	S	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	3	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

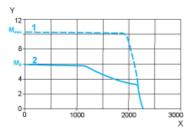
Product data sheet **Performance Curves**

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115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

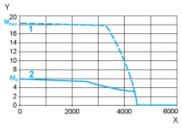


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

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