BMH1003T07F2A

servo motor BMH, Lexium 32, 8.2Nm, 6000rpm, untapped shaft, with brake, IP54, 16 multiturn encoder





Main

Device short name	ВМН
Product or Component Type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	72.58 lbf.in (8.2 N.m) LXM32.D30M2 10 A, 230 V, single phase
Peak stall torque	201.80 lbf.in (22.8 N.m) LXM32.D30M2 10 A, 230 V, single phase
Nominal output power	1450 W LXM32.D30M2 10 A, 230 V, single phase
Nominal torque	49.56 lbf.in (5.6 N.m) LXM32.D30M2 10 A, 230 V, single phase
Nominal speed	2500 rpm LXM32.D30M2 10 A, 230 V, single phase
Product compatibility	LXM32.D30M2 230 V single phase
Shaft end	Smooth shaft
IP Degree of Protection	IP54 standard
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary

Complementary			
Range Compatibility	Lexium 32		
[Us] rated supply voltage	240 V		
Phase	Three phase		
Continuous stall current	10 A		
Continuous power	2.62 W		
Maximum current Irms	30 A LXM32.D30M2		
Maximum permanent current	33.85 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	79.66 lbf.in (9 N.m) holding brake		
Motor flange size	3.94 in (100 mm)		
Number of motor stacks	3		
Torque constant	0.851 N.m/A 248 °F (120 °C)		
Back emf constant	54.8 V/krpm 248 °F (120 °C)		
Number of motor poles	10		
Rotor inertia	10.3 kg.cm²		
Stator resistance	0.47 Ohm 68 °F (20 °C)		
Stator inductance	3 mH 68 °F (20 °C)		
Stator electrical time constant	6.4 ms 68 °F (20 °C)		

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Maximum radial force Fr	1050 N 1000 rpm		
	830 N 2000 rpm		
	730 N 3000 rpm		
	660 N 4000 rpm		
	610 N 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Brake pull-in power	18 W		
Type of cooling	Natural convection		
Length	9.22 in (234.3 mm)		
Centring collar diameter	3.74 in (95 mm)		
Centring collar depth	0.14 in (3.5 mm)		
Number of mounting holes	4		
Mounting holes diameter	0.35 in (9 mm)		
Circle diameter of the mounting holes	4.53 in (115 mm)		
Net Weight	17.97 lb(US) (8.15 kg)		

Ordering and shipping details

US1PC5318282	
PC53	
3606485198200	
No	
DE	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	8.7 in (22.0 cm)	
Package 1 Width	7.9 in (20.0 cm)	
Package 1 Length	15.7 in (40.0 cm)	
Package 1 Weight	18.63 lb(US) (8.45 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

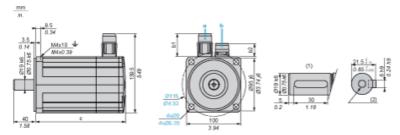
Warranty	18 months		

Product data sheet **Dimensions Drawings**

BMH1003T07F2A

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 connectors		Rotatable angled connectors		c (without brake)	c (with brake)	
	b1	b2	b1	b2		
	39.5	25.5	39.5	39.5	192	234

Dimensions in in.

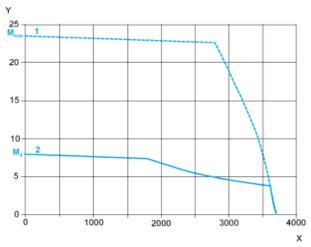
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

BMH1003T07F2A

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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