BMH1003P27F2A

servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, untapped shaft, with brake, IP65, IP67, 16 multiturn encoder





Main

Product or Component Type	Servo motor		
Device short name	ВМН		
Maximum mechanical speed	6000 rpm		
Continuous stall torque	74.35 Lbf.In (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.35 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase		
Peak stall torque	222.15 Lbf.In (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.15 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 480 V, three phase		
Nominal output power	2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase		
Nominal torque	54.87 Lbf.ln (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.87 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 480 V, three phase		
Nominal speed	4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase		
Product compatibility	LXM32.D30N4 400480 V three phase		
Shaft end	Smooth shaft		
IP Degree of Protection	IP65 standard IP67 with IP67 kit		
Speed feedback resolution	32768 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	480 V	
Phase	Three phase	
Continuous stall current	7.69 A	
Continuous power	3.3 W	
Maximum current Irms	29.1 A LXM32.D30N4	
Maximum permanent current	29.1 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	1 N.m/A 248 °F (120 °C)	
Back emf constant	63.5 V/krpm 248 °F (120 °C)	
Number of motor poles	10	

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Rotor inertia	10.3 kg.cm²		
Stator resistance	0.63 Ohm 68 °F (20 °C)		
Stator inductance	4 mH 68 °F (20 °C)		
Stator electrical time constant	6.3 ms 68 °F (20 °C)		
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

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485196800
Returnability	No
Country of origin	DE

Packing Units

3			
Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	8.66 in (22.0 cm)	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	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 specifi waste collection and never end up in rubbish bins.			
PVC free	Yes			

Contractual warranty

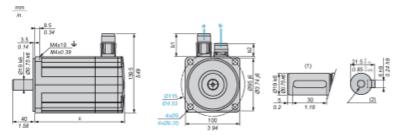
Warranty	18 months

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 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.

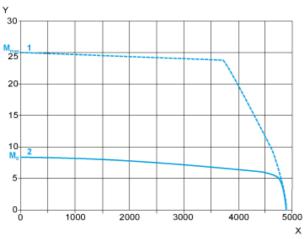
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

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400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

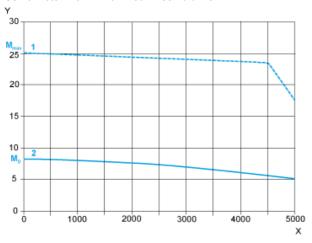


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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