BMH1001P27F1A

servo motor BMH - 3.3 Nm - 6000 rpm - untapped shaft - with brake - IP65/IP67





Main Product or component Servo motor type Device short name ВМН Maximum mechanical 6000 rpm speed Continuous stall torque 3.3 N.m for LXM32.D12N4 3 A at 400 V three phase 3.3 N.m for LXM32.D12N4 3 A at 480 V three phase 3.4 N.m for LXM32.D18N4 6 A at 400 V three phase 3.4 N.m for LXM32.D18N4 6 A at 480 V three phase 10.8 N.m for LXM32.D12N4 3 A at 400 V three Peak stall torque phase 10.8 N.m for LXM32.D12N4 3 A at 480 V three phase 10.8 N.m for LXM32.D18N4 6 A at 400 V three 10.8 N.m for LXM32.D18N4 6 A at 480 V three phase Nominal output power 800 W for LXM32.D12N4 3 A at 400 V three phase 800 W for LXM32.D12N4 3 A at 480 V three phase 1300 W for LXM32.D18N4 6 A at 400 V three phase 1300 W for LXM32.D18N4 6 A at 480 V three phase Nominal torque 1.9 N.m for LXM32.D12N4 3 A at 400 V three phase 1.9 N.m for LXM32.D12N4 3 A at 480 V three phase 3.1 N.m for LXM32.D18N4 6 A at 400 V three phase 3.1 N.m for LXM32.D18N4 6 A at 480 V three phase

phase

phase

phase

Untapped

With

IP65 (standard) IP67 (with IP67 kit)

32768 points/turn x 4096 turns

International standard flange

Straight connectors

4000 rpm for LXM32.D12N4 3 A at 400 V three phase 4000 rpm for LXM32.D12N4 3 A at 480 V three

4000 rpm for LXM32.D18N4 6 A at 400 V three

4000 rpm for LXM32.D18N4 6 A at 480 V three

LXM32.D12N4 at 400...480 V three phase LXM32.D18N4 at 400...480 V three phase

Comp	lement	tarv
- C - 1 - 1 P		,

Lavium 20		
Lexium 32		
480 V		
Three phase		
3.15 A		
1.76 W		
11.9 A for LXM32.D12N4		
11.9 A for LXM32.D18N4		
11.93 A		
Without second shaft end	Without second shaft end	
	480 V Three phase 3.15 A 1.76 W 11.9 A for LXM32.D12N4 11.9 A for LXM32.D18N4 11.93 A	

Nominal speed

Product compatibility

IP degree of protection

Speed feedback resolu-

Shaft end

Holding brake

Mounting support

Electrical connection

tion

Shaft diameter	19 mm		
Shaft length	40 mm		
Feedback type	Multiturn SinCos Hiperface		
Holding torque	5.5 N.m (holding brake)		
Motor flange size	100 mm		
Number of motor stacks	1		
Torque constant	1.1 N.m/A at 120 °C		
Back emf constant	70.3 V/krpm at 120 °C		
Number of motor poles	10		
Rotor inertia	3.68 kg.cm²		
Stator resistance	3.1 Ohm at 20 °C		
Stator inductance	13.9 mH at 20 °C		
Stator electrical time constant	4.5 ms at 20 °C		
Maximum radial force Fr	900 N at 1000 rpm 720 N at 2000 rpm 630 N at 3000 rpm 570 N at 4000 rpm 530 N at 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Brake pull-in power	12 W		
Type of cooling	Natural convection		
Length	170.3 mm		
Centring collar diameter	95 mm		
Centring collar depth	3.5 mm		
Number of mounting holes	4		
Mounting holes diameter	9 mm		
Circle diameter of the mounting holes	115 mm		
Product weight	4.8 kg		

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

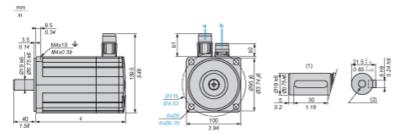


Product data sheet **Dimensions Drawings**

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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		
Î	39.5	25.5	39.5	39.5	128	170

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	5.03	6.69

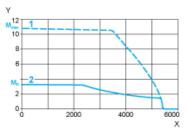
Product data sheet Performance Curves

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400 V 3-Phase Supply Voltage

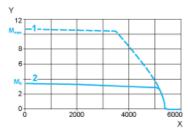
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive

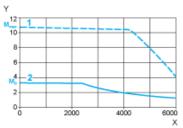


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

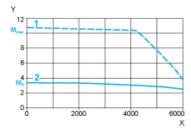
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive



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