## BMH1003P01F2A

servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, untapped shaft, with brake, IP54, 128bit encoder





Servo motor
ВМН
6000 rpm
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
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
2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase
54.87 Lbf.In (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
4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase
LXM32.D30N4 400480 V three phase
Smooth shaft
IP54 standard
131072 points/turn
With
International standard flange

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	Single turn 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	
Rotor inertia	10.3 kg.cm²	

**Electrical Connection** 

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

<u> </u>		
Category	18282-LEXIUM 32 MOTORS	
Discount Schedule	PC53	
GTIN	3606485200606	
Returnability	No	
Country of origin	DE	

### Packing Units

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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	18.89 lb(US) (8.57 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 spec waste collection and never end up in rubbish bins.		
PVC free	Yes		

### Contractual warranty

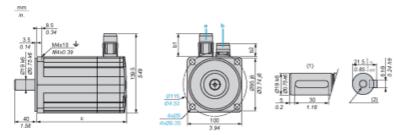
Warranty	18 months		

# Product data sheet **Dimensions Drawings**

# BMH1003P01F2A

#### 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

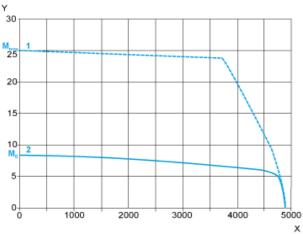
## Product data sheet **Performance Curves**

## BMH1003P01F2A

#### 400 V 3-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

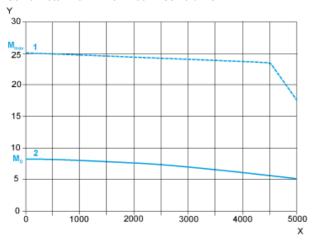


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

### 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