# BMH1002T32A2A

servo motor BMH, Lexium 32, 6Nm, 6000rpm, keyed shaft, without brake, IP65, IP67, 128 multiturn encoder





#### Main **Product or Component** Servo motor Type Device short name вмн 6000 rpm Maximum mechanical speed 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 91.16 Lbf.In (10.3 N.m) LXM32.D30M2 10 A, 115 V, Peak stall torque single phase 162.85 lbf.in (18.4 N.m) LXM32.D30M2 10 A, 230 V, single phase 750 W LXM32.D30M2 10 A, 115 V, single phase Nominal output power 1450 W LXM32.D30M2 10 A, 230 V, single phase Nominal torque 30.98 Lbf.In (3.5 N.m) LXM32.D30M2 10 A, 115 V, 40.71 lbf.in (4.6 N.m) LXM32.D30M2 10 A, 230 V, single phase 2000 rpm LXM32.D30M2 10 A, 115 V, single phase Nominal speed 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 Keyed IP65 standard IP Degree of Protection IP67 with IP67 kit Speed feedback 131072 points/turn x 4096 turns

Without

International standard flange

Rotatable right-angled connectors

### Complementary

ange 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)	
Key width	1.18 in (30 mm)	
Feedback type	Multiturn SinCos Hiperface	
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)	

resolution
Holding brake

Mounting Support

**Electrical Connection** 

Number of motor poles	10		
Rotor inertia	6.28 kg.cm <sup>2</sup>		
Stator resistance	0.54 Ohm 68 °F (20 °C)		
Stator inductance	2.7 mH 68 °F (20 °C)		
Stator electrical time constant	5 ms 68 °F (20 °C)		
Maximum radial force Fr	990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm 580 N 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Type of cooling	Natural convection		
Length	6.32 in (160.6 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	10.85 lb(US) (4.92 kg)		

## Ordering and shipping details

Category	18282-LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3606485197401
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)	
Package 1 Width	7.87 in (20.0 cm)	
Package 1 Length	15.75 in (40.0 cm)	
Package 1 Weight	11.51 lb(US) (5.22 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

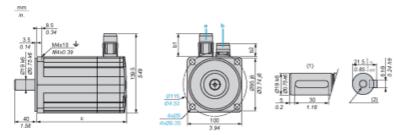
Warranty	18 months

# Product data sheet Dimensions Drawings

# BMH1002T32A2A

#### Servo Motors Dimensions

#### **Example with Straight Connectors**



- a: Power supply for servo motor brake
- b: 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

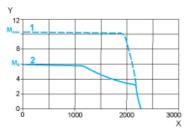
# Product data sheet **Performance Curves**

# BMH1002T32A2A

#### 115 V Single-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

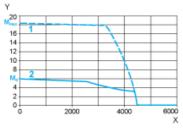


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- 2 Continuous torque

#### 230 V Single-Phase Supply Voltage

#### Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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