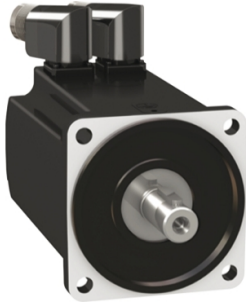


# Product data sheet

Specifications



servo motor BMH, Lexium 32,  
3.4Nm, 6000rpm, untapped shaft,  
without brake, IP65, IP67, 16  
multiturn encoder

BMH1001T27A2A

**Product availability: Non-Stock - Not normally stocked in  
distribution facility**

## Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	30.09 lbf.in (3.4 N.m) LXM32.D30M2 10 A, 115 V, single phase 30.09 lbf.in (3.4 N.m) LXM32.D18M2 6 A, 230 V, single phase
Peak stall torque	78.8 lbf.in (8.9 N.m) LXM32.D30M2 10 A, 115 V, single phase 90.3 lbf.in (10.2 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal output power	700 W LXM32.D30M2 10 A, 115 V, single phase 900 W LXM32.D18M2 6 A, 230 V, single phase
Nominal torque	29.2 lbf.in (3.3 N.m) LXM32.D30M2 10 A, 115 V, single phase 24.8 lbf.in (2.8 N.m) LXM32.D18M2 6 A, 230 V, single phase
Nominal speed	2000 rpm LXM32.D30M2 10 A, 115 V, single phase 3000 rpm LXM32.D18M2 6 A, 230 V, single phase
Product compatibility	LXM32.D30M2 115 V single phase LXM32.D18M2 230 V single 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	Without
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

## Complementary

Range Compatibility	Lexium 32
[Us] rated supply voltage	240 V
Phase	Three phase
Continuous stall current	5.11 A
Continuous power	1.74 W
Maximum current Irms	18.2 A LXM32.D30M2 19.4 A LXM32.D18M2
Maximum permanent current	19.38 A
Second shaft	Without second shaft end
Shaft diameter	0.7 in (19 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Shaft length	1.6 in (40 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	3.9 in (100 mm)
Number of motor stacks	1
Torque constant	0.67 N.m/A 248 °F (120 °C)
Back emf constant	43.3 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	3.19 kg.cm <sup>2</sup>
Stator resistance	1.19 Ohm 68 °F (20 °C)
Stator inductance	2.72 mH 68 °F (20 °C)
Stator electrical time constant	4.5 ms 68 °F (20 °C)
Maximum radial force Fr	900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	5.06 in (128.6 mm)
Centring collar diameter	3.7 in (95 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	7.36 lb(US) (3.34 kg)
Sizing reference	BMH1001T
Network number of phases	3
Accuracy error [angular]	4.8 °
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)
Output current 3s peak	18.2 A
Inertia	0.0 kg.cm <sup>2</sup> of brake 3.186 kg.cm <sup>2</sup> of motor

## Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485197234
Returnability	No
Country of origin	DE

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	8.7 in (22.0 cm)
<b>Package 1 Width</b>	7.9 in (20.0 cm)
<b>Package 1 Length</b>	15.7 in (40.0 cm)
<b>Package weight(Lbs)</b>	8.02 lb(US) (3.64 kg)
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	24
<b>Package 2 Height</b>	41.3 in (105.0 cm)
<b>Package 2 Width</b>	31.496 in (80.000 cm)
<b>Package 2 Length</b>	23.622 in (60.000 cm)
<b>Package 2 Weight</b>	76.37 lb(US) (34.64 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	1 006 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	26 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.5 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	979 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACH Regulation	<a href="#">REACH Declaration</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
PVC free	Yes

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

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 connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
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

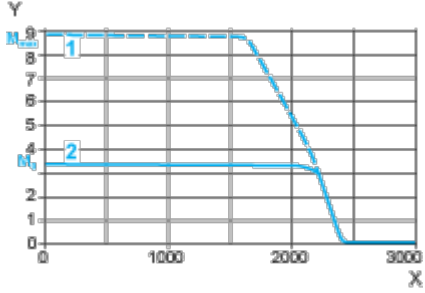
Performance Curves

115 V Single-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32-D30M2 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

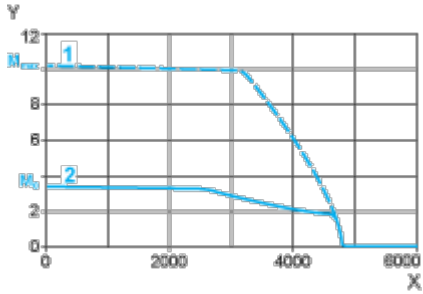
2 Continuous torque

230 V Single-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque