

servo motor BMH, Lexium 32, 3.4Nm, 6000rpm, untapped shaft, with brake, IP54, 128bit encoder, straight

BMH1001T01F1A

Main

Device short name	ВМН					
Product or component type	Servo motor					
Maximum mechanical speed	6000 rpm					
Continuous stall torque	3.4 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 3.4 N.m for LXM32.D18M2 at 6 A, 230 V, single phase					
Peak stall torque	8.9 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 10.2 N.m for LXM32.D18M2 at 6 A, 230 V, single phase					
Nominal output power	700 W for LXM32.D30M2 at 10 A, 115 V, single phase 900 W for LXM32.D18M2 at 6 A, 230 V, single phase					
Nominal torque	3.3 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 2.8 N.m for LXM32.D18M2 at 6 A, 230 V, single phase					
Nominal speed	2000 rpm for LXM32.D30M2 at 10 A, 115 V, single phase 3000 rpm for LXM32.D18M2 at 6 A, 230 V, single phase					
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase					
Shaft end	Smooth shaft					
IP degree of protection	IP54 standard					
Speed feedback resolution	131072 points/turn					
Holding brake	With					
Mounting support	International standard flange					
Electrical connection	Straight connectors					

Complementary

Range compatibility	Lexium 32	
[Us] rated supply voltage	240 V	
Network number of phases	Three phase	
Continuous stall current	5.11 A	
Continuous power	1.74 W	
Maximum current Irms	18.2 A for LXM32.D30M2 19.4 A for LXM32.D18M2	
Maximum permanent current	19.38 A	
Second shaft	Without second shaft end	
Shaft diameter	19 mm	
Shaft length	40 mm	
Feedback type	Single turn SinCos Hiperface	

Holding torque	5.5 N.m holding brake				
Motor flange size	100 mm				
Number of motor stacks	1				
Torque constant	0.67 N.m/A at 120 °C				
Back emf constant	43.3 V/krpm at 120 °C				
Number of motor poles	5.0				
Rotor inertia	3.68 kg.cm²				
Stator resistance	1.19 Ohm at 20 °C				
Stator inductance	2.72 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				
Sizing reference	BMH1001T				
Network number of phases	3				
Accuracy error [angular]	1.4 °				
Temperature copper hot	135 °C				
Temperature magnet hot	100 °C				
Temperature magnet rt	20 °C				

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.0 cm
Package 1 Width	20.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	5.1 kg
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	105.0 cm
Package 2 Width	80.000 cm

Package 2 Length	60.000 cm
Package 2 Weight	36.1 kg

Contractual warranty

Warranty 18 months



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	1017
Environmental Disclosure	Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACh Regulation	REACh Declaration
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
PVC free	Yes

Use Again

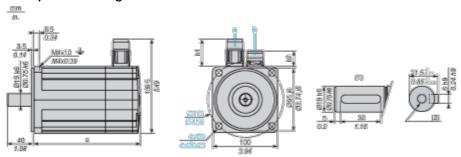
○ Repack and remanufacture					
End of life manual availability	No need of specific recycling operations				
Take-back	No				
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				

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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)	- (ith h
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	128	170

Dimensions in in

Dimonololic in in.						
Straight c	onnectors	Rotatable angled connectors		c (without brake)	a (with hardsa)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	5.03	6.69	

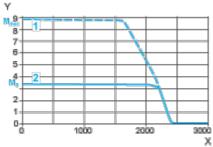
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

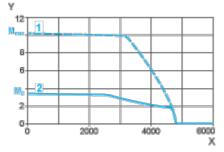


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



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