

servo motor BMH - 6 Nm - 6000 rpm - untapped shaft - with brake - IP65/IP67

BMH1002T27F2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485197746

Main

Device short name	ВМН			
Product or component type	Servo motor			
Maximum mechanical speed	6000 rpm			
Continuous stall torque	6 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase			
Peak stall torque	10.3 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 18.4 N.m for LXM32.D30M2 at 10 A, 230 V, single phase			
Nominal output power	750 W for LXM32.D30M2 at 10 A, 115 V, single phase 1450 W for LXM32.D30M2 at 10 A, 230 V, single phase			
Nominal torque	3.5 N.m for LXM32.D30M2 at 10 A, 115 V, single phase 4.6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase			
Nominal speed	2000 rpm for LXM32.D30M2 at 10 A, 115 V, single phase 3000 rpm for LXM32.D30M2 at 10 A, 230 V, single phase			
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D30M2 at 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	With			
Mounting support	International standard flange			
Electrical connection	Rotatable right-angled connectors			

Complementary

Range compatibility	Lexium 32	
[Us] rated supply voltage	240 V	
Network number of phases	Three phase	
Continuous stall current	8.65 A	
Continuous power	2.39 W	
Maximum current Irms	30 A for LXM32.D30M2 at 115 V 30 A for LXM32.D30M2 at 230 V	
Maximum permanent current	30.24 A	
Second shaft	Without second shaft end	
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	2		
Torque constant	0.71 N.m/A at 120 °C		
Back emf constant	46.2 V/krpm at 120 °C		
Number of motor poles	5.0		
Rotor inertia	6.77 kg.cm²		
Stator resistance	0.54 Ohm at 20 °C		
Stator inductance	1.42 mH at 20 °C		
Stator electrical time constant	5 ms at 20 °C		
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Brake pull-in power	12 W		
type of cooling	Natural convection		
Length	202.3 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		
Net weight	6.4 kg		
Sizing reference	BMH1002T		
Network number of phases	3		
Accuracy error [angular]	4.8 °		
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	6.68 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	37.68 ka

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				
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1618			
Environmental Disclosure	Product Environmental Profile			

Use Better

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
PVC free	Yes

Use Again

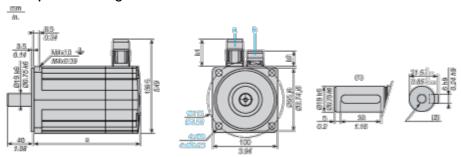
○ Repack and remanufacture					
Circularity Profile	No need of specific recycling operations				
Take-back	No				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				

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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 of	ght connectors Rotatable angled connectors		a (with a standard)	a (with harden)	
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	160	202

Dimensions in in

Straight c	onnectors	Rotatable angled connectors		c (without brake)	(دراوسط طلاندر)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.29	7.95	

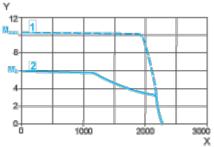
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Performance Curves

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

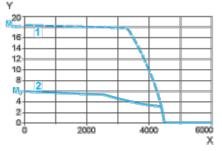


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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