

servo motor BMH - 8.2 Nm - 6000 rpm - untapped shaft - without brake - IP54

BMH1003T06A1A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485197920

Main

Device short name	вмн		
Product or component type	Servo motor		
Maximum mechanical speed	6000 rpm		
Continuous stall torque	8.2 N.m for LXM32.D30M2 at 10 A, 230 V, single phase		
Peak stall torque	22.8 N.m for LXM32.D30M2 at 10 A, 230 V, single phase		
Nominal output power	1450 W for LXM32.D30M2 at 10 A, 230 V, single phase		
Nominal torque	5.6 N.m for LXM32.D30M2 at 10 A, 230 V, single phase		
Nominal speed	2500 rpm for LXM32.D30M2 at 10 A, 230 V, single phase		
Product compatibility	LXM32.D30M2 at 230 V single phase		
Shaft end	Smooth shaft		
IP degree of protection	IP54 standard		
Speed feedback resolution	32768 points/turn		
Holding brake	Without		
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	10 A	
Continuous power	2.62 W	
Maximum current Irms	34.7 A for LXM32.D30M2	
Maximum permanent current	33.85 A	
Second shaft	Without second shaft end	
Shaft diameter	19 mm	
Shaft length	40 mm	
Feedback type	Single turn SinCos Hiperface	
Motor flange size	100 mm	
Number of motor stacks	3	

Torque constant	0.82 N.m/A at 120 °C		
Back emf constant	54.8 V/krpm at 120 °C		
Number of motor poles	5.0		
Rotor inertia	9.37 kg.cm ²		
Stator resistance	0.47 Ohm at 20 °C		
Stator inductance	1.355 mH at 20 °C		
Stator electrical time constant	6.4 ms at 20 °C		
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
type of cooling	Natural convection		
Length	192.6 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	6.5 kg		
Sizing reference	BMH1003T		
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	6.8 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	37.8 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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1619
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

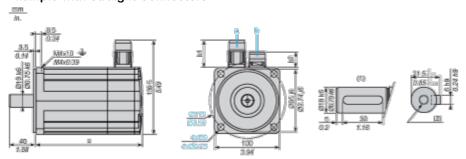
○ Repack and remanufacture				
Circularity Profile	No need of specific recycling operations			
Take-back	No			
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			

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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 c	Straight connectors Rotatable angled connectors		a (without brake)	o (with broke)	
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	192	234

Dimensions in in

Straight connectors		Rotatable angled connectors		c (without brake)	a (with brake)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	7.55	9.21	

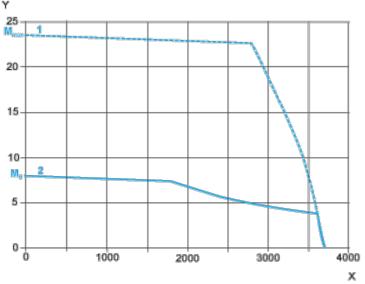
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Performance Curves

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