

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

BMH1003T16A2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485198019

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	Keyed	
IP degree of protection	IP54 standard	
Speed feedback resolution	32768 points/turn	
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	
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	
key width	30 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.cm²		
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	19.900 cm
Package 1 Width	22.900 cm
Package 1 Length	40.600 cm
Package 1 Weight	7.608 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