

servo motor BMH, Lexium 32, 8.4Nm, 6000rpm, untapped shaft, without brake, IP54, 16 multiturn encoder, straight

BMH1003P07A1A

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

Main

Device short name	ВМН			
Product or Component Type	Servo motor			
Maximum mechanical speed	6000 rpm			
Continuous stall torque	74.3 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 400 V, three phase 74.3 lbf.in (8.4 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Peak stall torque	222.2 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 400 V, three phase 222.2 lbf.in (25.1 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal output power	2700 W LXM32.D30N4 10 A, 400 V, three phase 2700 W LXM32.D30N4 10 A, 480 V, three phase			
Nominal torque	54.9 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 400 V, three phase 54.9 lbf.in (6.2 N.m) LXM32.D30N4 10 A, 480 V, three phase			
Nominal speed	4000 rpm LXM32.D30N4 10 A, 400 V, three phase 4000 rpm LXM32.D30N4 10 A, 480 V, three phase			
Product compatibility	LXM32.D30N4 400480 V three phase			
Shaft end	Smooth shaft			
IP Degree of Protection	IP54 standard			
Speed feedback resolution	32768 points/turn x 4096 turns			
Holding brake	Without			
Mounting Support	International standard flange			
Electrical Connection	Straight connectors			

Complementary

Range Compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Phase	Three phase	
Continuous stall current	7.69 A	
Continuous power	3.3 W	
Maximum current Irms	26.71 A LXM32.D30N4	
Maximum permanent current	29.1 A	
Second shaft	Without second shaft end	
Shaft diameter	0.7 in (19 mm)	
Shaft length	1.6 in (40 mm)	
Feedback type	Multiturn SinCos Hiperface	

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

Motor flange size	3.9 in (100 mm)			
Number of motor stacks	3			
Torque constant	1.17 N.m/A 248 °F (120 °C)			
Back emf constant	63.5 V/krpm 248 °F (120 °C)			
Number of motor poles	5.0			
Rotor inertia	9.37 kg.cm ²			
Stator resistance	0.63 Ohm 68 °F (20 °C)			
Stator inductance	2.615 mH 68 °F (20 °C)			
Stator electrical time constant	6.3 ms 68 °F (20 °C)			
Maximum radial force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm 660 N 4000 rpm 610 N 5000 rpm			
Maximum axial force Fa	0.2 x Fr			
type of cooling	Natural convection			
Length	7.6 in (192.6 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	14.3 lb(US) (6.5 kg)			
Sizing reference	BMH1003P			
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)			

Ordering and shipping details

Category	US1PC5318282		
Discount Schedule	PC53		
GTIN	3606485196664		
Returnability	No		
Country of origin	DE		

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	8.66 in (22.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	15.75 in (40.0 cm)

Package weight(Lbs)	15.0 lb(US) (6.8 kg)	
Unit Type of Package 2	P06	
Number of Units in Package 2	24	
Package 2 Height	41.34 in (105.0 cm)	
Package 2 Width	31.50 in (80.000 cm)	
Package 2 Length	23.62 in (60.000 cm)	
Package 2 Weight	83.3 lb(US) (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 CO2 eq, Total Life cycle)	2961
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
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

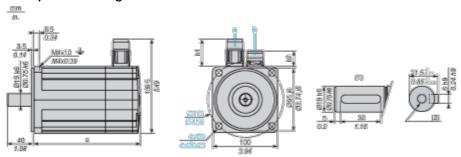
○ Repack and remanufacture					
Circularity Profile	No need of specific recycling operations				
Take-back	No				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.				

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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 o	Straight connectors Rotatable angled connectors		c (without brake)	(د ا د د ا د الله الله الله الله الله ال	
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	192	234

Dimensions in in.

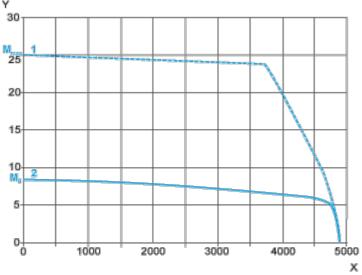
Difficiono in in.						
Straight c	straight connectors Rotatable angled connectors		a (without broke)	- (ith bushs)		
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	7.55	9.21	

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

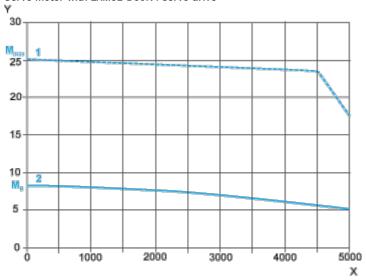


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



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