

servo motor BMH, Lexium 32, 3.3Nm, 6000rpm, untapped shaft, without brake, IP54, 16bit encoder

BMH1001P06A2A

Main

Device short name	ВМН				
Product or component type	Servo motor				
Maximum mechanical speed	6000 rpm				
Continuous stall torque	3.3 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 3.3 N.m for LXM32.D12N4 at 3 A, 480 V, three phase 3.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase				
Peak stall torque	10.8 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 10.8 N.m for LXM32.D12N4 at 3 A, 480 V, three phase 10.8 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 10.8 N.m for LXM32.D18N4 at 6 A, 480 V, three phase				
Nominal output power	800 W for LXM32.D12N4 at 3 A, 400 V, three phase 800 W for LXM32.D12N4 at 3 A, 480 V, three phase 1300 W for LXM32.D18N4 at 6 A, 400 V, three phase 1300 W for LXM32.D18N4 at 6 A, 480 V, three phase				
Nominal torque	1.9 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 1.9 N.m for LXM32.D12N4 at 3 A, 480 V, three phase 3.1 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.1 N.m for LXM32.D18N4 at 6 A, 480 V, three phase				
Nominal speed	4000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase 4000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase				
Product compatibility	LXM32.D12N4 at 400480 V three phase LXM32.D18N4 at 400480 V three 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	Rotatable right-angled connectors				

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	3.15 A
Continuous power	1.76 W
Maximum current Irms	11.2 A for LXM32.D12N4 11.9 A for LXM32.D18N4

Maximum permanent current	11.93 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	1			
Torque constant	1.08 N.m/A at 120 °C			
Back emf constant	70.3 V/krpm at 120 °C			
Number of motor poles	5.0			
Rotor inertia	3.19 kg.cm ²			
Stator resistance	3.1 Ohm at 20 °C			
Stator inductance	7.45 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			
type of cooling	Natural convection			
Length	128.6 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	3.34 kg			
Sizing reference	BMH1001P			
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	19.500 cm
Package 1 Width	21.800 cm
Package 1 Length	40.000 cm
Package 1 Weight	4.578 kg
Unit Type of Package 2	S04

Number of Units in Package 2	2
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	9.806 kg
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	47.224 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	1441
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

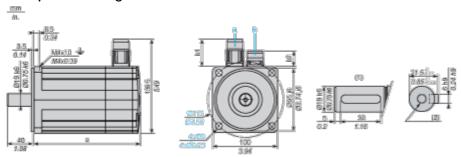
○ Repack and remanufacture					
End of life manual availability	No need of specific recycling operations				
Take-back	No				

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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		(د د احد الله د د الله د د د الله د د د الله د د د د د د د د د د د د د د د د د د	(د العبر الطاند)
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	128	170

Dimensions in in

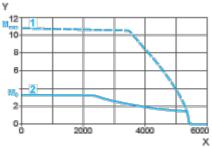
Straight c	onnectors	Rotatable angled connectors		c (without brake)	a (with hands)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	5.03	6.69	

Performance Curves

400 V 3-Phase Supply Voltage

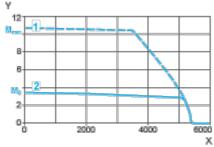
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive

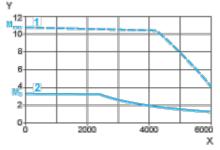


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

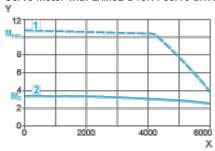
Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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

Servo motor with LXM32•D18N4 servo drive



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