

servo motor BMH - 6.2 Nm - 6000 rpm - untapped shaft - with brake - IP54

BMH1002P07F2A

EAN Code: 3606485196305

Main

Device short name	ВМН	
Product or component type	Servo motor	
Maximum mechanical speed	6000 rpm	
Continuous stall torque	6.2 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 6.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase	
Peak stall torque	18.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 18.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase	
Nominal output power	1600 W for LXM32.D18N4 at 6 A, 400 V, three phase 1600 W for LXM32.D18N4 at 6 A, 480 V, three phase	
Nominal torque	3.9 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.9 N.m for LXM32.D18N4 at 6 A, 480 V, three phase	
Nominal speed	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.D18N4 at 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	With	
Mounting support	International standard flange	
Electrical connection	Rotatable right-angled connectors	

Complementary

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Range compatibility	Lexium 32		
[Us] rated supply voltage	480 V		
Network number of phases	Three phase		
Continuous stall current	5.04 A		
Continuous power	2.36 W		
Maximum current Irms	18 A for LXM32.D18N4		
Maximum permanent current	18.23 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	1.2 N.m/A at 120 °C			
Back emf constant	77 V/krpm at 120 °C			
Number of motor poles	10			
Rotor inertia	6.77 kg.cm ²			
Stator resistance	1.51 Ohm at 20 °C			
Stator inductance	7.5 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			
Length Centring collar diameter	202.3 mm 95 mm			
Centring collar diameter	95 mm			
Centring collar diameter centring collar depth	95 mm 3.5 mm			
Centring collar diameter centring collar depth Number of mounting holes	95 mm 3.5 mm			
Centring collar diameter centring collar depth Number of mounting holes Mounting holes diameter Circle diameter of the mounting	95 mm 3.5 mm 4 9 mm			
Centring collar diameter centring collar depth Number of mounting holes Mounting holes diameter Circle diameter of the mounting holes	95 mm 4 9 mm 115 mm			
Centring collar diameter centring collar depth Number of mounting holes Mounting holes diameter Circle diameter of the mounting holes Product weight	95 mm 3.5 mm 4 9 mm 115 mm 6.4 kg			
Centring collar diameter centring collar depth Number of mounting holes Mounting holes diameter Circle diameter of the mounting holes Product weight Sizing reference	95 mm 3.5 mm 4 9 mm 115 mm 6.4 kg BMH1002P			
Centring collar diameter centring collar depth Number of mounting holes Mounting holes diameter Circle diameter of the mounting holes Product weight Sizing reference Network number of phases	95 mm 3.5 mm 4 9 mm 115 mm 6.4 kg BMH1002P			
Centring collar diameter centring collar depth Number of mounting holes Mounting holes diameter Circle diameter of the mounting holes Product weight Sizing reference Network number of phases Accuracy error [angular]	95 mm 3.5 mm 4 9 mm 115 mm 6.4 kg BMH1002P 3 4.8 °			

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.500 cm
Package 1 Width	22.000 cm
Package 1 Length	40.000 cm
Package 1 Weight	6.900 kg
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm

Package 2 Weight	14.450 kg
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	65.800 kg

Logistical informations

Country of origin DE

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)	1781
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

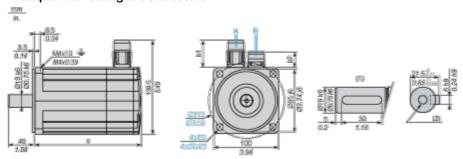
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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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 o	onnectors	Rotatable angled connectors		c (without brake)	a (with brake)
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)	a (with brake)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.29	7.95	

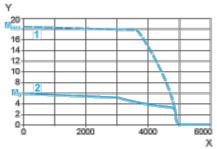
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

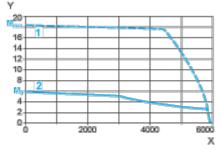


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



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