

servo motor BMH - 1.2 Nm - 8000 rpm - untapped shaft - without brake - IP54

BMH0701P06A2A

EAN Code: 3606480160820

Main

Device short name	вмн
Product or component type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	1.2 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 1.2 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 1.4 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 1.4 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
Peak stall torque	4.2 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 4.2 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 4.2 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 4.2 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal output power	350 W for LXM32.U60N4 at 1.5 A, 400 V, three phase 350 W for LXM32.U60N4 at 1.5 A, 480 V, three phase 700 W for LXM32.D12N4 at 3 A, 400 V, three phase 700 W for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal torque	1.1 N.m for LXM32.U60N4 at 1.5 A, 400 V, three phase 1.1 N.m for LXM32.U60N4 at 1.5 A, 480 V, three phase 1.3 N.m for LXM32.D12N4 at 3 A, 400 V, three phase 1.3 N.m for LXM32.D12N4 at 3 A, 480 V, three phase
Nominal speed	3000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase 3000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase 5000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase 5000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase
Product compatibility	LXM32.U60N4 at 400480 V three phase LXM32.D12N4 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	1.78 A
Continuous power	1.05 W
Maximum current Irms	6 A for LXM32.U60N4 6 A for LXM32.D12N4

Maximum permanent current	5.97 A
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	70 mm
Number of motor stacks	1
Torque constant	0.79 N.m/A at 120 °C
Back emf constant	50.72 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	0.59 kg.cm²
Stator resistance	8.3 Ohm at 20 °C
Stator inductance	23.4 mH at 20 °C
Stator electrical time constant	2.8 ms at 20 °C
Maximum radial force Fr	660 N at 1000 rpm 520 N at 2000 rpm
	460 N at 3000 rpm
	410 N at 4000 rpm
	380 N at 5000 rpm 360 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr
type of cooling	Natural convection
Length	122 mm
Centring collar diameter	60 mm
centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	1.6 kg
Sizing reference	BMH0701P
Network number of phases	3
Accuracy error [angular]	4.8 °
Coefficient 1_1	-0.0000187500000003 N.m/rpm
	·
Coefficient 1_2	0.0000000000000000562440546 N.m/rpm²
Coefficient 1_2 Coefficient 1_3	<u> </u>
	0.000000000000000000562440546 N.m/rpm²
Coefficient 1_3	0.000000000000000000562440546 N.m/rpm² -0.00000000000000000000002965143 N.m/rpm3
Coefficient 1_3 Coefficient 1_4	0.000000000000000000000000000000000000
Coefficient 1_4 Coefficient 1_5	0.000000000000000000000000000000000000
Coefficient 1_3 Coefficient 1_4 Coefficient 1_5 Coefficient 1_6	0.000000000000000000000000000000000000
Coefficient 1_3 Coefficient 1_4 Coefficient 1_5 Coefficient 1_6 Saturation coefficient 1	0.000000000000000000000000000000000000
Coefficient 1_3 Coefficient 1_4 Coefficient 1_5 Coefficient 1_6 Saturation coefficient 1 Saturation coefficient 2	0.000000000000000000000000000000000000

Temperature magnet hot	100 °C
Temperature magnet rt	20 °C
Motor voltage drop coefficient	1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.000 cm
Package 1 Width	19.000 cm
Package 1 Length	40.000 cm
Package 1 Weight	2.147 kg
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	61.540 kg

Logistical informations

Country of origin

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)	780							
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

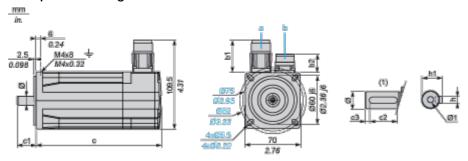
○ Repack and remanufacture										
Circularity Profile	No need of specific recycling operations									
Take-back	No									
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins									

BMH0701P06A2A

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)

Dimensions in mm

Straight Rotatable angled connectors connectors		•	c (without	, , ,		c2	сЗ	h	h1	Ø	Ø1 for	
b1	b2	b1	b2	brake)	ake) brake)							screws
39.5	25.5	39.5	39.5	122	161	23	18	2.5	4 h9	12.5 ⁺⁰ _	11 k6	M4 x 14

Dimensions in in.

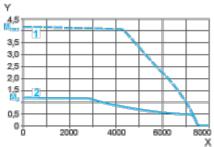
_	Straight connectors		ble ctors	c (without	c (with brake)	c1	c2	сЗ	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	4.80	6.33	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

Performance Curves

400 V 3-Phase Supply Voltage

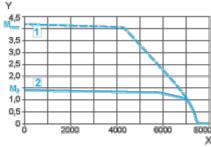
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive

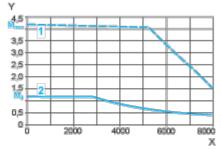


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

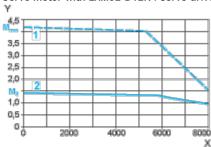
Torque/Speed Curves

Servo motor with LXM32•U60N4 servo drive



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

Servo motor with LXM32•D12N4 servo drive



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