

servo motor BMH - 1.2 Nm - 8000 rpm - untapped shaft - without brake - IP65/IP67

BMH0701P27A2A

Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485193465

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	IP65 standard
	IP67 with IP67 kit
Speed feedback resolution	32768 points/turn x 4096 turns
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	5.97 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	Multiturn 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	5.0
Rotor inertia	0.59 kg.cm²
Stator resistance	8.3 Ohm at 20 °C
Stator inductance	10.35 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 °
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	11.0 cm
Package 1 Width	20.0 cm

Package 1 Length	40.0 cm
Package 1 Weight	1.8 kg
Unit Type of Package 2	P06
Number of Units in Package 2	36
Package 2 Height	105.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	71.8 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)	777							
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

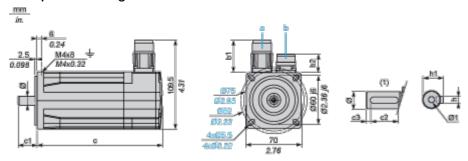
○ Repack and remanufacture										
Circularity Profile	No need of specific recycling operations									
Take-back	No									
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins									

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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)

Dimensions in mm

Straight Rotatable angled connectors		c (without	, ,		c2	сЗ	h	h1	Ø	Ø1 for			
b1	b2	b1	b2	brake) 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.

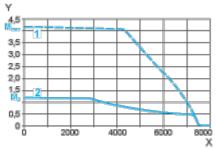
_	Straight connectors		ble ctors	c (without	c (with brake)	c1	c2	сЗ	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake)								
1.55	1	1.55	1.55	4.80	6.33	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

Performance Curves

400 V 3-Phase Supply Voltage

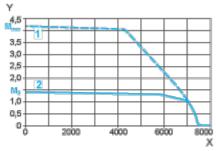
Torque/Speed Curves

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

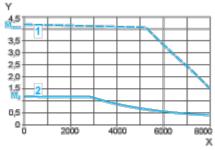


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

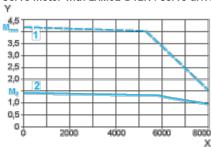
Torque/Speed Curves

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