

servo motor BMH, Lexium 32, 1.2Nm, 8000rpm, untapped shaft, with brake, IP54, 16 multiturn encoder

BMH0701P07F2A

Product availability: Stock - Normally stocked in distribution facility

Main

Device short name	вмн
Product or Component Type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	10.6 lbf.in (1.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 10.6 lbf.in (1.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 12.4 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 12.4 lbf.in (1.4 N.m) LXM32.D12N4 3 A, 480 V, three phase
Peak stall torque	37.2 lbf.in (4.2 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 37.2 lbf.in (4.2 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 37.2 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 37.2 lbf.in (4.2 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal output power	350 W LXM32.U60N4 1.5 A, 400 V, three phase 350 W LXM32.U60N4 1.5 A, 480 V, three phase 700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase
Nominal torque	9.7 lbf.in (1.1 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 9.7 lbf.in (1.1 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 11.5 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 400 V, three phase 11.5 lbf.in (1.3 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal speed	3000 rpm LXM32.U60N4 1.5 A, 400 V, three phase 3000 rpm LXM32.U60N4 1.5 A, 480 V, three phase 5000 rpm LXM32.D12N4 3 A, 400 V, three phase 5000 rpm LXM32.D12N4 3 A, 480 V, three phase
Product compatibility	LXM32.U60N4 400480 V three phase LXM32.D12N4 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

Range Compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	1.78 A
Continuous power	1.05 W

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

Maximum current Irms	5.97 A LXM32.U60N4 6 A LXM32.D12N4
Maximum permanent current	5.97 A
Second shaft	Without second shaft end
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	26.6 lbf.in (3 N.m) holding brake
Motor flange size	2.8 in (70 mm)
Number of motor stacks	1
Torque constant	0.79 N.m/A 248 °F (120 °C)
Back emf constant	50.72 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	0.7 kg.cm²
Stator resistance	8.3 Ohm 68 °F (20 °C)
Stator inductance	10.35 mH 68 °F (20 °C)
Stator electrical time constant	2.8 ms 68 °F (20 °C)
Maximum radial force Fr	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm 380 N 5000 rpm 360 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
type of cooling	Natural convection
Length	6.3 in (161 mm)
Centring collar diameter	2.4 in (60 mm)
centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net Weight	5.7 lb(US) (2.6 kg)
Sizing reference	BMH0701P
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	3606485193489

Returnability	Yes
Country of origin	DE

Packing Units

•	
Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.57 in (11.600 cm)
Package 1 Width	7.60 in (19.300 cm)
Package 1 Length	15.59 in (39.600 cm)
Package weight(Lbs)	5.767 lb(US) (2.616 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	14.568 lb(US) (6.608 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	12
Package 3 Height	30.31 in (77.000 cm)
Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	89.587 lb(US) (40.636 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)	784							
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

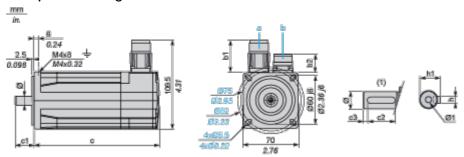
○ Repack and remanufacture								
Circularity Profile	No need of specific recycling operations							
Take-back	No							

BMH0701P07F2A

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

Straigh					c (with	c1	c2	с3	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 _ 0.13	11 k6	M4 x 14	

Dimensions in in.

_	Straight connectors		Rotatable angled connectors		c (with brake)	c1	c2	с3	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

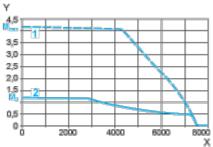
BMH0701P07F2A

Performance Curves

400 V 3-Phase Supply Voltage

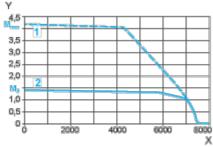
Torque/Speed Curves

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

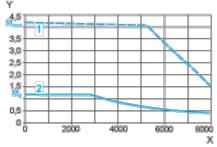


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

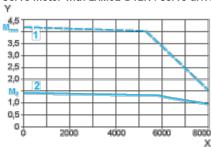
Torque/Speed Curves

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