

servo motor BMH, Lexium 32, 2.5Nm, 8000rpm, untapped shaft, without brake, IP54, 16bit encoder, 3 phases

BMH0702P06A2A

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	22.1 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 400 V, three phase 22.1 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 480 V, three phase
Peak stall torque	65.5 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 65.5 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal output power	700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase
Nominal torque	19.5 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 19.5 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 480 V, three phase
Nominal speed	3000 rpm LXM32.D12N4 3 A, 400 V, three phase 3000 rpm LXM32.D12N4 3 A, 480 V, three phase
Product compatibility	LXM32.D12N4 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
Phase	Three phase
Continuous stall current	2.94 A
Continuous power	1.51 W
Maximum current Irms	9.65 A LXM32.D12N4
Maximum permanent current	9.68 A
Second shaft	Without second shaft end
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)
Feedback type	Single turn SinCos Hiperface

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

Motor flange size	2.8 in (70 mm)
Number of motor stacks	2
Torque constant	0.84 N.m/A 248 °F (120 °C)
Back emf constant	54.08 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	1.13 kg.cm²
Stator resistance	3.8 Ohm 68 °F (20 °C)
Stator inductance	5.89 mH 68 °F (20 °C)
Stator electrical time constant	3.2 ms 68 °F (20 °C)
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
type of cooling	Natural convection
Length	6.06 in (154 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	5.07 lb(US) (2.3 kg)
Sizing reference	BMH0702P
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	3606480160837
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.41 in (11.200 cm)
Package 1 Width	7.48 in (19.000 cm)

Package 1 Length	15.55 in (39.500 cm)
Package weight(Lbs)	6.376 lb(US) (2.892 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	14.37 in (36.500 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	95.249 lb(US) (43.204 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)	785
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
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

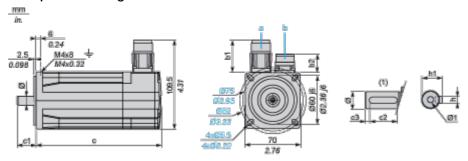
○ Repack and remanufacture					
Circularity Profile	No need of specific recycling operations				
Take-back	No				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.				

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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 c (with		c1	c2	c2 c3	h	h1	Ø	Ø1 for screws	
b1	b2	b1	b2	brake) brake)								
39.5	25.5	39.5	39.5	154	193	23	18	2.5	4 h9	12.5 ⁺⁰ _ 0.13	11 k6	M4 x 14

Dimensions in in.

Straigh		Rotata angled connec		c (without brake)	c (with brake)	c1	c2	с3	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2	brake))							
1.55	1	1.55	1.55	6.06	7.59	0.90	0.70	0.09	0.16 h9	0.49 ⁺⁰ _ 0.0051	0.43 k6	M4 x 0.55

Product data sheet

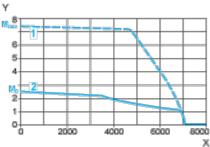
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive

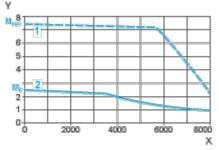


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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