

servo motor BMH, Lexium 32, 3.4Nm, 8000rpm, keyed shaft, with brake, IP54, 128 multiturn encoder, 3 phases

BMH0703P12F2A

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Device short name	ВМН
Product or Component Type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 30.09 lbf.in (3.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Peak stall torque	90.3 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 400 V, three phase 90.3 lbf.in (10.2 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal output power	1300 W LXM32.D18N4 6 A, 400 V, three phase 1300 W LXM32.D18N4 6 A, 480 V, three phase
Nominal torque	21.2 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 400 V, three phase 21.2 lbf.in (2.4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal speed	5000 rpm LXM32.D18N4 6 A, 400 V, three phase 5000 rpm LXM32.D18N4 6 A, 480 V, three phase
Product compatibility	LXM32.D18N4 400480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP54 standard
Speed feedback resolution	131072 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	3.91 A
Continuous power	1.68 W
Maximum current Irms	12.57 A LXM32.D18N4
Maximum permanent current	12.57 A
Second shaft	Without second shaft end
Shaft diameter	0.6 in (14 mm)
Shaft length	1.2 in (30 mm)
key width	0.8 in (20 mm)

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

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	3
Torque constant	0.87 N.m/A 248 °F (120 °C)
Back emf constant	55.8 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	1.78 kg.cm²
Stator resistance	2.65 Ohm 68 °F (20 °C)
Stator inductance	4.175 mH 68 °F (20 °C)
Stator electrical time constant	3.2 ms 68 °F (20 °C)
Maximum radial force Fr	730 N 1000 rpm 580 N 2000 rpm 510 N 3000 rpm 460 N 4000 rpm 430 N 5000 rpm 400 N 6000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	7 W
type of cooling	Natural convection
Length	8.9 in (225 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	8.8 lb(US) (4 kg)
Sizing reference	BMH0703P
Network number of phases	3
Accuracy error [angular]	1.4°
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	3606485199320
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1 PCE

Nbr. of units in pkg.	1
Package 1 Height	4.33 in (11.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	15.75 in (40.0 cm)
Package weight(Lbs)	7.05 lb(US) (3.2 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	36
Package 2 Height	41.34 in (105.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	269.4 lb(US) (122.2 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)	1432							
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

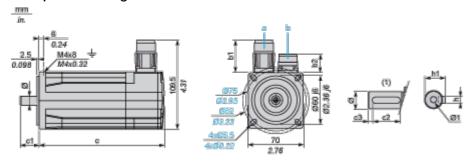
○ Repack and remanufacture									
Circularity Profile	No need of specific recycling operations								
Take-back	No								

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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 connectors		c (without c (with		c1	c2	сЗ	h	h1	Ø	Ø1 for	
b1	b2	b1	b2	brake)	brake)							screws
39.5	25.5	39.5	39.5	186	225	30	20	5	5 h9	16 ⁺⁰ _ 0.13	14 k6	M5 x 17

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	biake)								
1.55	1	1.55	1.55	7.32	8.85	1.18	0.78	0.19	0.20 h9	0.63 ⁺⁰ _ 0.0051	0.55 k6	M5 x 0.67

Product data sheet

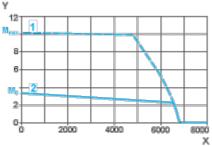
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Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

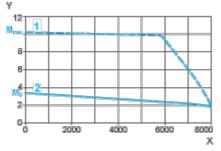


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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