

Product data sheet

Specifications



servo motor BMH, Lexium 32, 24Nm, 4000rpm, keyed shaft, without brake, IP54, 16bit encoder, 3 phases

BMH1403P16A2A

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

Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	212.4 lbf.in (24 N.m) LXM32.D72N4 24 A, 400 V, three phase 212.4 lbf.in (24 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	635.5 lbf.in (71.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 635.5 lbf.in (71.8 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	4700 W LXM32.D72N4 24 A, 400 V, three phase 4700 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	123.20 lbf.in (13.92 N.m) LXM32.D72N4 24 A, 400 V, three phase 123.20 lbf.in (13.92 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal speed	3000 rpm LXM32.D72N4 24 A, 400 V, three phase 3000 rpm LXM32.D72N4 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Keyed
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	18 A
Continuous power	4.8 W
Maximum current Irms	57.66 A LXM32.D72N4
Maximum permanent current	62.3 A
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
key width	1.6 in (40 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	Single turn SinCos Hiperface
Motor flange size	5.5 in (140 mm)
Number of motor stacks	3
Torque constant	1.3 N.m/A 248 °F (120 °C)
Back emf constant	85.9 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	47.5 kg.cm ²
Stator resistance	0.22 Ohm 68 °F (20 °C)
Stator inductance	2.165 mH 68 °F (20 °C)
Stator electrical time constant	13.6 ms 68 °F (20 °C)
Maximum radial force Fr	2420 N 1000 rpm 1920 N 2000 rpm 1680 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
type of cooling	Natural convection
Length	9.1 in (232 mm)
Centring collar diameter	5.1 in (130 mm)
centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	35.3 lb(US) (16 kg)
Sizing reference	BMH1403P
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	3606485208237
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	8.07 in (20.500 cm)
Package 1 Width	10.63 in (27.000 cm)
Package 1 Length	23.62 in (60.000 cm)

Package weight(Lbs)	38.748 lb(US) (17.576 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	41.34 in (105.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	485.017 lb(US) (220.000 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

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)	5187
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Environmental Disclosure	Product Environmental Profile
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	No
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
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REACH Regulation	REACH Declaration
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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
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PVC free	Yes
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Use Again

Repack and remanufacture

Circularity Profile	No need of specific recycling operations
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Take-back	No
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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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