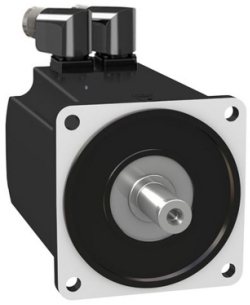
Product data sheet

Specifications



servo motor BMH, Lexium 32, 24Nm, 4000rpm, untapped shaft, with brake, IP54, 16 multiturn encoder, 3 phases

BMH1403P07F2A

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	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	18 A
Continuous power	4.8 W
Maximum current Irms	62.3 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)
Feedback type	Multiturn SinCos Hiperface

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Holding torque	203.6 lbf.in (23 N.m) holding brake
Motor flange size	5.5 in (140 mm)
Number of motor stacks	3
Torque constant	1.34 N.m/A 248 °F (120 °C)
Back emf constant	85.9 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	50.27 kg.cm²
Stator resistance	0.22 Ohm 68 °F (20 °C)
Stator inductance	3 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
Brake pull-in power	19 W
type of cooling	Natural convection
Length	10.5 in (267 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	40.8 lb(US) (18.5 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485208428
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.24 in (26.000 cm)
Package 1 Width	7.87 in (20.000 cm)
Package 1 Length	23.62 in (60.000 cm)
Package 1 Weight	41.513 lb(US) (18.830 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	6
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)

Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	282.487 lb(US) (128.134 kg)

Contractual warranty

Warranty	18 months

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)	5196
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Take-back	No