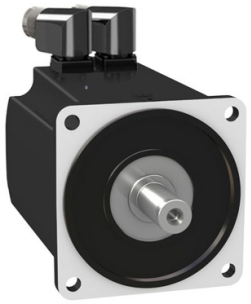
Product data sheet

Specifications



servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, keyed shaft, with brake, IP65, IP67, 16bit encoder

BMH1402P36F2A

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	163.7 lbf.in (18.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 163.7 lbf.in (18.5 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	445.2 lbf.in (50.3 N.m) LXM32.D72N4 24 A, 400 V, three phase 445.2 lbf.in (50.3 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	3500 W LXM32.D72N4 24 A, 400 V, three phase 3500 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	108.0 lbf.in (12.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 108.0 lbf.in (12.2 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	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn
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	16.83 A
Continuous power	4.44 W
Maximum current Irms	46.22 A LXM32.D72N4
Maximum permanent current	57.4 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.

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

Feedback type	Single turn SinCos Hiperface
Holding torque	159.3 lbf.in (18 N.m) holding brake
Motor flange size	5.5 in (140 mm)
Number of motor stacks	2
Torque constant	1.24 N.m/A 248 °F (120 °C)
Back emf constant	70.7 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	33.5 kg.cm²
Stator resistance	0.23 Ohm 68 °F (20 °C)
Stator inductance	2.6 mH 68 °F (20 °C)
Stator electrical time constant	13 ms 68 °F (20 °C)
Maximum radial force Fr	2240 N 1000 rpm 1780 N 2000 rpm 1550 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	8.9 in (227 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)
Product Weight	31.5 lb(US) (14.3 kg)
Sizing reference	BMH1402P
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)
Output current 3s peak	46.22 A
Inertia	1.5 kg.cm² of brake 32.003 kg.cm² of motor

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485207810
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	23.6 in (60.0 cm)
Package weight(Lbs)	32.2 lb(US) (14.6 kg)

Contractual warranty

Warranty (in months)	18

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

Total lifecycle Carbon footprint	**3 877 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**105 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**3 768 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**A7df881f-135f-4256-b8c2-ea55d4c9a151**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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 Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

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