Product data sheet

Specifications



servo motor BMH, Lexium 32, 48Nm, 4000rpm, untapped shaft, without brake, IP65, IP67, 128bit encoder

BMH1902P21A2A

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	331.02 lbf.in (37.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 331.02 lbf.in (37.4 N.m) LXM32.D72N4 24 A, 480 V, three phase 424.8 lbf.in (48 N.m) LXM32MD85N4 32 A, 400 V, three phase 424.8 lbf.in (48 N.m) LXM32MD85N4 32 A, 480 V, three phase 424.8 lbf.in (48 N.m) LXM32MC10N4 40 A, 400 V, three phase 424.8 lbf.in (48 N.m) LXM32MC10N4 40 A, 480 V, three phase
Peak stall torque	893.9 lbf.in (101 N.m) LXM32.D72N4 24 A, 400 V, three phase 893.9 lbf.in (101 N.m) LXM32.D72N4 24 A, 480 V, three phase 1022.3 lbf.in (115.5 N.m) LXM32MD85N4 32 A, 400 V, three phase 1022.3 lbf.in (115.5 N.m) LXM32MD85N4 32 A, 480 V, three phase 1156.8 lbf.in (130.7 N.m) LXM32MC10N4 40 A, 400 V, three phase 1156.8 lbf.in (130.7 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal output power	5900 W LXM32.D72N4 24 A, 400 V, three phase 5900 W LXM32.D72N4 24 A, 480 V, three phase 6070 W LXM32MD85N4 32 A, 400 V, three phase 6070 W LXM32MD85N4 32 A, 480 V, three phase 6070 W LXM32MC10N4 40 A, 400 V, three phase 6070 W LXM32MC10N4 40 A, 480 V, three phase
Nominal torque	197.4 lbf.in (22.3 N.m) LXM32.D72N4 24 A, 400 V, three phase 197.4 lbf.in (22.3 N.m) LXM32.D72N4 24 A, 480 V, three phase 256.7 lbf.in (29 N.m) LXM32MD85N4 32 A, 400 V, three phase 256.7 lbf.in (29 N.m) LXM32MD85N4 32 A, 480 V, three phase 256.7 lbf.in (29 N.m) LXM32MC10N4 40 A, 400 V, three phase 256.7 lbf.in (29 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal speed	2000 rpm LXM32MC10N4 40 A, 400 V, three phase 2000 rpm LXM32MC10N4 40 A, 480 V, three phase 2500 rpm LXM32.D72N4 24 A, 400 V, three phase 2500 rpm LXM32.D72N4 24 A, 480 V, three phase 2000 rpm LXM32MD85N4 32 A, 400 V, three phase 2000 rpm LXM32MD85N4 32 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Smooth shaft
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary

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

Range Compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	30.8 A
Continuous power	6.1 W
Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	114 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	7.5 in (190 mm)
Number of motor stacks	2
Torque constant	1.56 N.m/A 248 °F (120 °C)
Back emf constant	108.3 V/krpm 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	130.1 kg.cm²
Stator resistance	0.15 Ohm 68 °F (20 °C)
Stator inductance	3.86 mH 68 °F (20 °C)
Stator electrical time constant	25.7 ms 68 °F (20 °C)
Maximum radial force Fr	4200 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
type of cooling	Natural convection
Length	9.8 in (250 mm)
Centring collar diameter	7.09 in (180 mm)
centring collar depth	0.2 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.6 in (14 mm)
Circle diameter of the mounting holes	8.5 in (215 mm)
Net Weight	68.3 lb(US) (31 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485264141
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	11.81 in (30.000 cm)
Package 1 Width	15.75 in (40.000 cm)
Package 1 Length	31.30 in (79.500 cm)
Package 1 Weight	80.337 lb(US) (36.440 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	31.50 in (80.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	338.983 lb(US) (153.760 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)	6698
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
China RoHS Regulation	China RoHS 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