Product data sheet

Specifications

servo motor BMH, Lexium 32, 65Nm, 3500rpm, untapped shaft, with brake, IP65, IP67, 128bit encoder, straight

BMH1903P21F2A

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

Price*: 8,488.50 USD

Main

Product Or Component Type	Servo motor
Device Short Name	BMH
Maximum Mechanical Speed	3500 rpm
Continuous Stall Torque	382.35 lbf.in (43.2 N.m) LXM32.D72N4 24 A, 400 V, three phase 382.35 lbf.in (43.2 N.m) LXM32.D72N4 24 A, 480 V, three phase 509.80 lbf.in (57.6 N.m) LXM32MD85N4 32 A, 400 V, three phase 509.80 lbf.in (57.6 N.m) LXM32MD85N4 32 A, 480 V, three phase 575.30 lbf.in (65 N.m) LXM32MC10N4 40 A, 400 V, three phase 575.30 lbf.in (65 N.m) LXM32MC10N4 40 A, 480 V, three phase
Peak Stall Torque	1086.87 lbf.in (122.8 N.m) LXM32.D72N4 24 A, 400 V, three phase 1086.87 lbf.in (122.8 N.m) LXM32.D72N4 24 A, 480 V, three phase 1250.61 lbf.in (141.3 N.m) LXM32MD85N4 32 A, 400 V, three phase 1250.61 lbf.in (141.3 N.m) LXM32MD85N4 32 A, 480 V, three phase 1440.01 lbf.in (162.7 N.m) LXM32MC10N4 40 A, 400 V, three phase 1440.01 lbf.in (162.7 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal Output Power	5700 W LXM32.D72N4 24 A, 400 V, three phase 5700 W LXM32.D72N4 24 A, 480 V, three phase 7330 W LXM32MD85N4 32 A, 400 V, three phase 7330 W LXM32MD85N4 32 A, 480 V, three phase 7750 W LXM32MC10N4 40 A, 400 V, three phase 7750 W LXM32MC10N4 40 A, 480 V, three phase
Nominal Torque	318.63 lbf.in (36 N.m) LXM32.D72N4 24 A, 400 V, three phase 318.63 lbf.in (36 N.m) LXM32.D72N4 24 A, 480 V, three phase 309.78 lbf.in (35 N.m) LXM32MD85N4 32 A, 400 V, three phase 309.78 lbf.in (35 N.m) LXM32MD85N4 32 A, 480 V, three phase 327.48 lbf.in (37 N.m) LXM32MC10N4 40 A, 400 V, three phase 327.48 lbf.in (37 N.m) LXM32MC10N4 40 A, 480 V, three phase
Nominal Speed	1500 rpm LXM32.D72N4 24 A, 400 V, three phase 1500 rpm LXM32.D72N4 24 A, 480 V, three phase 2000 rpm LXM32MC10N4 40 A, 400 V, three phase 2000 rpm LXM32MC10N4 40 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	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

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

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Phase	Three phase
Continuous Stall Current	36.1 A
Continuous Power	7.95 W
Maximum Current Irms	72 A LXM32.D72N4
Maximum Permanent Current	124.5 A
Second Shaft	Without second shaft end
Shaft Diameter	1.50 in (38 mm)
Shaft Length	3.15 in (80 mm)
Feedback Type	Single turn SinCos Hiperface
Holding Torque	708.06 lbf.in (80 N.m) holding brake
Motor Flange Size	7.48 in (190 mm)
Number Of Motor Stacks	3
Torque Constant	1.8 N.m/A 248 °F (120 °C)
Back Emf Constant	129.2 V/krpm 248 °F (120 °C)
Number Of Motor Poles	10
Rotor Inertia	208.8 kg.cm²
Stator Resistance	0.13 Ohm 68 °F (20 °C)
Stator Inductance	3.62 mH 68 °F (20 °C)
Stator Electrical Time Constant	27.8 ms 68 °F (20 °C)
Maximum Radial Force Fr	4500 N 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	40 W
Type Of Cooling	Natural convection
Length	14.57 in (370 mm)
Centring Collar Diameter	7.09 in (180 mm)
Centring Collar Depth	0.16 in (4 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.55 in (14 mm)
Circle Diameter Of The Mounting Holes	8.46 in (215 mm)
Net Weight	98.11 lb(US) (44.5 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
Gtin	3606485264288
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 (30.0 cm)
Package 1 Width	15.75 in (40.0 cm)
Package 1 Length	31.30 in (79.5 cm)
Package 1 Weight	69.45 lb(US) (31.5 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
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