Product datasheet

Specifications

Green Premium™

servo motor BMH, Lexium 32, 84Nm, 3800rpm, keyed shaft, with brake, IP65, IP67, 128bit encoder, straight

BMH2053P31F1A

Main

Product Or Component Type	Servo motor
Device Short Name	BMH
Maximum Mechanical Speed	3800 rpm
Continuous Stall Torque	84 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 84 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Peak Stall Torque	232 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 232 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal Output Power	6500 W for LXM32.D72N4 at 24 A, 400 V, three phase 6500 W for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal Torque	52.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 52.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase
Nominal Speed	1200 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 1200 rpm for LXM32.D72N4 at 24 A, 480 V, three phase
Product Compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft End	Keyed
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	Straight connectors

Complementary

Range Compatibility	Lexium 32
[Us] Rated Supply Voltage	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	25.2 A
Continuous Power	9.6 W
Maximum Current Irms	72 A for LXM32.D72N4
Maximum Permanent Current	107.4 A
Second Shaft	Without second shaft end
Shaft Diameter	38 mm
Shaft Length	80 mm
Key Width	70 mm

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	80 N.m holding brake
Motor Flange Size	205 mm
Number Of Motor Stacks	3
Torque Constant	3.5 N.m/A at 120 °C
Back Emf Constant	218 V/krpm at 120 °C
Number Of Motor Poles	10
Rotor Inertia	206 kg.cm²
Stator Resistance	0.32 Ohm at 20 °C
Stator Inductance	6.9 mH at 20 °C
Stator Electrical Time Constant	21.6 ms at 20 °C
Maximum Radial Force Fr	4500 N at 1000 rpm 3570 N at 2000 rpm 3120 N at 3000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	40 W
Type Of Cooling	Natural convection
Length	538.5 mm
Centring Collar Diameter	180 mm
Centring Collar Depth	4 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	14 mm
Circle Diameter Of The Mounting Holes	215 mm
Net Weight	71.9 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	36.0 cm
Package 1 Width	31.0 cm
Package 1 Length	73.0 cm
Package 1 Weight	75.0 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