



servo motor MH3 190 94,4Nm,no key,multi,no brake,IP65/ IP67,2kRPM

MH31903P02A2200

! Discontinued on: 30 Aug 2022



Main

| Range Compatibility | PacDrive 3 |
|---------------------------|-----------------|
| Product Or Component Type | AC servo motors |
| Device Short Name | MH3 |

Complementary

| Maximum Mechanical Speed | 3800 rpm |
|---------------------------|--|
| [Us] Rated Supply Voltage | 115480 V |
| Network Number Of Phases | Three phase |
| Continuous Stall Current | 36.1 A |
| Continuous Stall Torque | 65 N.m, 115480 V, three phase |
| Continuous Power | 9560 W |
| Peak Stall Torque | 330 N.m, 115480 V, three phase |
| Nominal Output Power | 7.75 W, 400 V 7.75 W, 480 V |
| Nominal Torque | 37 N.m for LXM52 at 21.3 mA, 400 V, 3 phases 37 N.m for LXM52 at 21.3 mA, 480 V, 3 phases 37 N.m for LXM62 at 21.3 mA, 400 V, 3 phases 37 N.m for LXM62 at 21.3 mA, 480 V, 3 phases |
| Nominal Speed | 2000 rpm for LXM52 at 21.3 mA, 400 V, 3 phases 2000 rpm for LXM52 at 21.3 mA, 480 V, 3 phases 2000 rpm for LXM62 at 21.3 mA, 400 V, 3 phases 2000 rpm for LXM62 at 21.3 mA, 480 V, 3 phases |
| Maximum Current Irms | 124.5 A |
| Shaft End | Smooth shaft |
| Second Shaft | Without second shaft end |
| Shaft Diameter | 38 mm |
| Shaft Length | 80 mm |
| Ip Degree Of Protection | IP65 standard |
| Encoder Type | Multiturn SinCos Hiperface |
| Speed Feedback Resolution | 128 periods |
| Holding Brake | Without |
| Mounting Support | International standard flange |
| Motor Flange Size | 190 mm |
| Electrical Connection | Rotatable right-angled connectors |

| Torque Constant | 1.8 N.m/A at 120 °C |
|---------------------------------------|--|
| Back Emf Constant | 129.2 V/krpm |
| Number Of Motor Poles | 10 |
| Rotor Inertia | 194.1 kg.cm² |
| Stator Resistance | 0.13 Ohm |
| Stator Inductance | 3.62 mH |
| Stator Electrical Time Constant | 21.6 ms |
| Maximum Radial Force Fr | 3300 N at 1000 rpm 3250 N at 2000 rpm 3150 N at 3000 rpm 3100 N at 4000 rpm |
| Type Of Cooling | Natural convection |
| Length | 310 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 | 67 kg |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|---------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 40.0 cm |
| Package 1 Width | 30.0 cm |
| Package 1 Length | 79.5 cm |
| Package 1 Weight | 43.2 kg |



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Transparency RoHS/REACh

Well-being performance

| | Mercury Free | |
|----------|----------------------------|-----|
| | Rohs Exemption Information | Yes |
| ⊘ | Pvc Free | |

Certifications & Standards

| 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 |
| Environmental Disclosure | Product Environmental Profile |
| China Rohs Regulation | China RoHS declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Reach Regulation | REACh Declaration |