

Product data sheet

Characteristics

ILM0701P02A0000

integrated servo motor - 1.1 Nm - 6000 rpm - multiturn - without brake



Main

| | |
|---------------------------|------------------------------|
| Range of product | PacDrive 3 |
| Product or component type | Servo motor integrated drive |
| Device short name | ILM |

Complementary

| | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| [Us] rated supply voltage | 250...700 V |
| Continuous stall current | 1.55 A |
| Continuous stall torque | 1.1 N.m |
| Peak stall torque | 3.5 N.m |
| Nominal output power | 310 W |
| Nominal torque | 0.5 N.m |
| Nominal speed | 6000 rpm |
| Maximum current I_{rms} | 5.7 A |
| [In] rated current | 0.6 A |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 11 mm |
| Shaft length | 23 mm |
| Key width | 18 mm |
| Feedback type | Absolute multiturn SinCos Hiperface |
| Speed feedback resolution | 128 periods |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 70 mm |
| Torque constant | 0.71 N.m/A at 120 °C |
| Back emf constant | 46 V/krpm at 20 °C |
| Number of motor poles | 6 |
| Rotor inertia | 0.25 kg.cm² |
| Stator resistance | 10.4 Ohm at 20 °C for Ph/Ph 7.23 Ohm at 120 °C for Ph/N |
| Stator inductance | 38.8 mH at 20 °C for Ph/Ph 19.4 mH at 120 °C for Ph/N |
| Maximum radial force F_r | 660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm |
| Maximum axial force F_a | 0.2 x F_r |
| Type of cooling | Natural convection |

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| | |
|---------------------------------------|--------|
| Length | 212 mm |
| Number of motor stacks | 1 |
| Centring collar diameter | 60 mm |
| Centring collar depth | 2.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.5 mm |
| Circle diameter of the mounting holes | 82 mm |
| Net weight | 2.7 kg |

Environment

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|-------------------------|------|
| IP degree of protection | IP54 |
|-------------------------|------|

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 22.4 cm |
| Package 1 Width | 40.0 cm |
| Package 1 Length | 19.4 cm |
| Package 1 Weight | 3.62 kg |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 77.0 cm |
| Package 2 Width | 60.0 cm |
| Package 2 Length | 80.0 cm |
| Package 2 Weight | 30.268 kg |

Offer Sustainability

| | |
|----------------------------|-------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| REACH Regulation | <input checked="" type="checkbox"/> REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation | <input checked="" type="checkbox"/> China RoHS Declaration |
| RoHS exemption information | <input checked="" type="checkbox"/> Yes |
| Environmental Disclosure | <input checked="" type="checkbox"/> Product Environmental Profile |
| Circularity Profile | <input checked="" type="checkbox"/> End Of Life Information |
| PVC free | Yes |