# Product data sheet
## Characteristics

# ILM1001P11A0000
integrated servo motor - 2.5 Nm - 3000 rpm - keyed shaft - 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 | 1.8 A |
| Continuous stall torque | 2.5 N.M |
| Peak stall torque | 9.6 N.M |
| Nominal output power | 600 W |
| Nominal torque | 1.9 N.M |
| Nominal speed | 3000 rpm |
| Maximum current Irms | 7.4 A |
| [In] rated current | 1.4 A |
| Shaft end | Keyed |
| Second shaft | Without second shaft end |
| Shaft diameter | 19 Mm |
| Shaft length | 40 Mm |
| Key width | 30 Mm |
| Feedback type | Absolute single turn SinCos Hiperface |
| Speed feedback resolution | 128 periods |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 100 Mm |
| Torque constant | 1.39 N.M/A at 120 °C |
| Back emf constant | 90 V/Krpm at 20 °C |
| Number of motor poles | 8 |
| Rotor inertia | 1.4 Kg.Cm² |
| Stator resistance | 9.8 Ohm at 20 °C for Ph/Ph<br>6.82 Ohm at 120 °C for Ph/N |
| Stator inductance | 45.7 MH at 20 °C for Ph/Ph<br>22.85 MH at 120 °C for Ph/N |
| Maximum radial force Fr | 900 N at 1000 rpm<br>720 N at 2000 rpm<br>630 N at 3000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 215 Mm |

| | |
|---|---|
| Number of motor stacks | 1 |
| Centring collar diameter | 95 Mm |
| Centring collar depth | 3.5 Mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 9 Mm |
| Circle diameter of the mounting holes | 115 Mm |
| Net weight | 4.9 Kg |

## Environment

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

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 15.6 Cm |
| Package 1 Width | 22.1 Cm |
| Package 1 Length | 44.6 Cm |
| Package 1 Weight | 5.530 Kg |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 73.5 Cm |
| Package 2 Width | 60 Cm |
| Package 2 Length | 80 Cm |
| Package 2 Weight | 59.8 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 0.8140238421222216 |
| Total lifecycle Carbon footprint | 2 838 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 42.37322110211155 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 42 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.6693249847980522 |
| Carbon footprint of the distribution phase [A4] | 0.7 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.9139015086430503 |
| Carbon footprint of the installation phase [A5] | 0.9 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 2791.0688729364747 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 2 791 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 2.944733150046209 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 3 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 2838 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which |
| PVC free | Yes |
| End of life manual availability | End Of Life Information |
| Take-back | No |

## Contractual warranty

| | |
|---|---|
| Warranty (in months) | 18 |

| | |
|---|---|
| Product Life Status : | Commercialised |