# Product data sheet
## Characteristics

# ILM0703P01A0000
ILM integrated drive, 70mm, 3 stacks, smooth Shaft, SinCos Singleturn 128, no Brake



## Main

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

## Complementary

| | |
|---|---|
| [Us] rated supply voltage | 24 V |
| Continuous stall current | 3 A |
| Continuous stall torque | 2.2 N.M |
| Peak stall torque | 8.7 N.M |
| Nominal output power | 720 W |
| Nominal torque | 1.15 N.M |
| Nominal speed | 6000 rpm |
| Maximum current Irms | 12 A |
| [In] rated current | 1.5 A |
| Shaft end | Untapped |
| Second shaft | Without second shaft end |
| Shaft diameter | 14 Mm |
| Shaft length | 30 Mm |
| Key width | 20 Mm |
| Feedback type | Absolute single turn SinCos Hiperface |
| Speed feedback resolution | 128 periods |
| Holding brake | Without |
| Mounting support | International standard flange |
| Motor flange size | 70 Mm |
| Torque constant | 0.76 N.M/A at 120 °C |
| Back emf constant | 49 V/Krpm at 20 °C |
| Number of motor poles | 6 |
| Rotor inertia | 0.58 Kg.Cm² |
| Stator resistance | 2.7 Ohm at 20 °C for Ph/Ph<br>1.88 Ohm at 120 °C for Ph/N |
| Stator inductance | 13 MH at 20 °C for Ph/Ph<br>6.5 MH at 120 °C for Ph/N |
| Maximum radial force Fr | 730 N at 1000 rpm<br>580 N at 2000 rpm<br>510 N at 3000 rpm<br>460 N at 4000 rpm<br>430 N at 5000 rpm<br>400 N at 6000 rpm |
| Maximum axial force Fa | 0.2 x Fr |

| | |
|---|---|
| Type of cooling | Natural convection |
| Length | 259 Mm |
| Number of motor stacks | 3 |
| 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 | 4.2 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 | 11.8 Cm |
| Package 1 Width | 17.5 Cm |
| Package 1 Length | 37.8 Cm |
| Package 1 Weight | 4.78 Kg |
| Unit Type of Package 2 | S06 |
| Number of Units in Package 2 | 24 |
| Package 2 Height | 73.5 Cm |
| Package 2 Width | 60 Cm |
| Package 2 Length | 80 Cm |
| Package 2 Weight | 119.22 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 0.8140238421222216 |
| Total lifecycle Carbon footprint | 3 390 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 36.626400880306186 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 37 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.5785485402051881 |
| Carbon footprint of the distribution phase [A4] | 0.6 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.7899546494238301 |
| Carbon footprint of the installation phase [A5] | 0.8 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 3349.28264752377 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 3 349 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 2.545357044705403 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 3 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 3390 |
| 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

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

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