Product data sheet
Characteristics

ILM1002P02F0000
ILM integrated drive, 100mm, 2 stacks, smooth Shaft, SinCos Multiturn 128, 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	2.9 A
Continuous stall torque	4.4 N.M
Peak stall torque	18.3 N.M
Nominal output power	910 W
Nominal torque	2.9 N.M
Nominal speed	3000 rpm
Maximum current Irms	13.1 A
[In] rated current	2 A
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	19 Mm
Shaft length	40 Mm
Key width	30 Mm
Feedback type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	5.5 N.M holding brake
Mounting support	International standard flange
Motor flange size	100 Mm
Torque constant	1.52 N.M/A at 120 °C
Back emf constant	100 V/Krpm at 20 °C
Number of motor poles	8
Rotor inertia	3.01 Kg.Cm²
Stator resistance	4.12 Ohm at 20 °C for Ph/Ph 2.86 Ohm at 120 °C for Ph/N
Stator inductance	21.8 MH at 20 °C for Ph/Ph 10.9 MH at 120 °C for Ph/N
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection

Length	280 Mm
Number of motor stacks	2
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	7.2 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	26.162 Cm
Package 1 Width	20.320 Cm
Package 1 Length	59.690 Cm
Package 1 Weight	8.373 Kg

Offer Sustainability

Recyclability potential, in %	0.8140238421222216
Total lifecycle Carbon footprint	4 301 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	61.52928850812943
Carbon footprint of the manufacturing phase [A1 to A3]	62 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.9719131334409331
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	1.327057706040451
Carbon footprint of the installation phase [A5]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	4233.121123953654
Carbon footprint of the use phase [B2, B3, B4, B6]	4 233 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	4.275986834515562
Carbon footprint of the end-of-life phase [C1 to C4]	4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	4301
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