Product data sheet
Characteristics

ILM1003P12A0000
ILM integrated drive, 100mm, 3 stacks, keyed Shaft, SinCos Multiturn 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	3.6 A
Continuous stall torque	5.8 N.M
Peak stall torque	28.3 N.M
Nominal output power	1100 W
Nominal torque	3.5 N.M
Nominal speed	3000 rpm
Maximum current Irms	21.2 A
[In] rated current	2.4 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 multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	100 Mm
Torque constant	1.61 N.M/A at 120 °C
Back emf constant	103 V/Krpm at 20 °C
Number of motor poles	8
Rotor inertia	3.22 Kg.Cm²
Stator resistance	2.6 Ohm at 20 °C for Ph/Ph 1.81 Ohm at 120 °C for Ph/N
Stator inductance	15.6 MH at 20 °C for Ph/Ph 7.8 MH at 120 °C for Ph/N
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	285 Mm

Number of motor stacks	3
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	8.1 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	8.79 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	92.4 Kg

Offer Sustainability

Recyclability potential, in %	0.8140238421222216
Total lifecycle Carbon footprint	5 192 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	67.35273299955887
Carbon footprint of the manufacturing phase [A1 to A3]	67 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1.0638999306283687
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	1.4526571900492609
Carbon footprint of the installation phase [A5]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5116.959600383538
Carbon footprint of the use phase [B2, B3, B4, B6]	5 117 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	4.680687954594245
Carbon footprint of the end-of-life phase [C1 to C4]	5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	5192
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