Product data sheet
Characteristics

ILM0703P12F0000
ILM integrated drive, 70mm, 3 stacks, keyed 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	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	Keyed
Second shaft	Without second shaft end
Shaft diameter	14 Mm
Shaft length	30 Mm
Key width	20 Mm
Feedback type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	3 N.M holding brake
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	0.88 Kg.Cm²
Stator resistance	2.7 Ohm at 20 °C for Ph/Ph 1.88 Ohm at 120 °C for Ph/N
Stator inductance	13 MH at 20 °C for Ph/Ph 6.5 MH at 120 °C for Ph/N
Maximum radial force Fr	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm

Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	293 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	4.7 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	20.700 Cm
Package 1 Width	60.400 Cm
Package 1 Length	26.300 Cm
Package 1 Weight	5.926 Kg

Offer Sustainability

Recyclability potential, in %	0.8140238421222216
Total lifecycle Carbon footprint	3 393 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	39.844620204517184
Carbon footprint of the manufacturing phase [A1 to A3]	40 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.629383349177192
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.8593648905865934
Carbon footprint of the installation phase [A5]	0.9 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]	2.769007663696254
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	3393
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