Product data sheet
Characteristics

ILM0701P01A0000
ILM integrated drive, 70mm, 1 stack, 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	1.55 A
Continuous stall torque	1.1 N.M
Peak stall torque	3.5 N.M
Nominal output power	310 W
Nominal torque	0.5 N.M
Nominal speed	6000 rpm
Maximum current Irms	5.7 A
[In] rated current	0.6 A
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	11 Mm
Shaft length	23 Mm
Key width	18 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	0.71 N.M/A at 120 °C
Back emf constant	46 V/Krpm at 20 °C
Number of motor poles	6
Rotor inertia	0.25 Kg.Cm²
Stator resistance	10.4 Ohm at 20 °C for Ph/Ph 7.23 Ohm at 120 °C for Ph/N
Stator inductance	38.8 MH at 20 °C for Ph/Ph 19.4 MH at 120 °C for Ph/N
Maximum radial force Fr	660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm
Maximum axial force Fa	0.2 x Fr

Type of cooling	Natural convection
Length	212 Mm
Number of motor stacks	1
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	2.7 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	20.000 Cm
Package 1 Width	41.100 Cm
Package 1 Length	22.700 Cm
Package 1 Weight	3.544 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	89.46 Kg

Offer Sustainability

Recyclability potential, in %	0.8140238421222216
Total lifecycle Carbon footprint	1 470 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	25.2860089759436
Carbon footprint of the manufacturing phase [A1 to A3]	25 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3994163562086026
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.5453661805645689
Carbon footprint of the installation phase [A5]	0.5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1442.0522510171802
Carbon footprint of the use phase [B2, B3, B4, B6]	1 442 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	1.757254863499546
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1470
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