

Product data sheet

Characteristics

ILM1001P22A0000

integrated servo motor - 2.5 Nm - 3000 rpm - multiturn - without brake - IP65



Main

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

Complementary

[Us] rated supply voltage	250...700 V
Continuous stall current	1.8 A
Continuous stall torque	2.5 N.m
Peak stall torque	9.6 N.m
Nominal output power	600 W
Nominal torque	1.9 N.m
Nominal speed	3000 rpm
Maximum current I_{rms}	7.4 A
[In] rated current	1.4 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	Without
Mounting support	International standard flange
Motor flange size	100 mm
Torque constant	1.39 N.m/A at 120 °C
Back emf constant	90 V/krpm at 20 °C
Number of motor poles	8
Rotor inertia	1.4 kg.cm ²
Stator resistance	9.8 Ohm at 20 °C for Ph/Ph 6.82 Ohm at 120 °C for Ph/N
Stator inductance	45.7 mH at 20 °C for Ph/Ph 22.85 mH at 120 °C for Ph/N
Maximum radial force F_r	900 N at 1000 rpm 720 N at 2000 rpm 630 N at 3000 rpm
Maximum axial force F_a	0.2 x F_r
Type of cooling	Natural convection
Length	215 mm
Number of motor stacks	1

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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	4.9 kg

Environment

IP degree of protection	IP65
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	59.0 cm
Package 1 Weight	5.53 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
PVC free	Yes