

Product data sheet

Characteristics

ILM1401P01F0000

integrated servo motor - 7.5 Nm - 3000 rpm -
with brake



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	4.7 A
Continuous stall torque	7.5 N.m
Peak stall torque	27 N.m
Nominal output power	1450 W
Nominal torque	4.6 N.m
Nominal speed	3000 rpm
Maximum current I_{rms}	18.8 A
[In] rated current	2.9 A
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Key width	40 mm
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	18 N.m holding brake
Mounting support	International standard flange
Motor flange size	140 mm
Torque constant	1.6 N.m/A at 120 °C
Back emf constant	108 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	7.41 kg.cm²
Stator resistance	1.81 Ohm at 20 °C for Ph/Ph 1.26 Ohm at 120 °C for Ph/N
Stator inductance	19.1 mH at 20 °C for Ph/Ph 9.55 mH at 120 °C for Ph/N
Maximum radial force F_r	2210 N at 1000 rpm 1760 N at 2000 rpm 1530 N at 3000 rpm
Maximum axial force F_a	0.2 x F_r
Type of cooling	Natural convection
Length	292 mm

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Number of motor stacks	1
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Net weight	13.8 kg

Environment

IP degree of protection	IP54
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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	14.53 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