Product datasheet

Specifications

Green Premium™

integrated servo motor - 7.5 Nm - 3000 rpm - keyed shaft - with brake - IP65

ILM1401P31F0000

Discontinued on: 30 Aug 2022

Discontinued

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 Irms	18.8 A
[In] Rated Current	2.9 A
Shaft End	Keyed
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Stator Inductance	19.1 mH at 20 °C for Ph/Ph 9.55 mH at 120 °C for Ph/N
Maximum Radial Force Fr	2210 N at 1000 rpm 1760 N at 2000 rpm 1530 N at 3000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	292 mm
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	IP65

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

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information