Product data sheet

Specifications

Green Premium™

integrated servo motor - 5.8 Nm - 3000 rpm - keyed shaft - with brake - IP65

ILM1003P31F0000

Discontinued on: Sep 30, 2023

To be end-of-service on: Mar 31, 2025

Discontinued - Service only

Product availability: Non-Stock - Not normally stocked in distribution facility

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	3.6 A
Continuous Stall Torque	51.33 lbf.in (5.8 N.m)
Peak Stall Torque	250.48 lbf.in (28.3 N.m)
Nominal Output Power	1100 W
Nominal Torque	30.98 lbf.in (3.5 N.m)
Nominal Speed	3000 rpm
Maximum Current Irms	21.2 A
Line Rated Current	2.4 A
Shaft End	Keyed
Second Shaft	Without second shaft end
Shaft Diameter	0.75 in (19 mm)
Shaft Length	1.57 in (40 mm)
Key Width	1.18 in (30 mm)
Feedback Type	Absolute single turn SinCos Hiperface
Speed Feedback Resolution	128 periods
Holding Brake	With
Holding Torque	79.66 lbf.in (9 N.m) holding brake
Mounting Support	International standard flange
Motor Flange Size	3.94 in (100 mm)
Torque Constant	1.61 N.m/A 248 °F (120 °C)
Back Emf Constant	103 V/krpm 68 °F (20 °C)
Number Of Motor Poles	8

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Rotor Inertia	3.92 kg.cm²
Stator Resistance	2.6 Ohm 68 °F (20 °C) Ph/Ph 1.81 Ohm 248 °F (120 °C) Ph/N
Stator Inductance	15.6 mH 68 °F (20 °C) Ph/Ph 7.8 mH 248 °F (120 °C) Ph/N
Maximum Radial Force Fr	1050 N 1000 rpm 830 N 2000 rpm 730 N 3000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	12.40 in (315 mm)
Number Of Motor Stacks	3
Centring Collar Diameter	3.74 in (95 mm)
Centring Collar Depth	0.14 in (3.5 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.35 in (9 mm)
Circle Diameter Of The Mounting Holes	4.53 in (115 mm)
Net Weight	19.62 lb(US) (8.9 kg)

Environment

Ip Degree Of Protection	IP65

Ordering and shipping details

Category	US1PC5218351
Discount Schedule	PC52
Gtin	3606485294520
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.23 in (59.0 cm)
Package 1 Weight	21.14 lb(US) (9.59 kg)

Contractual warranty

Warranty	18 months

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
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov