Product data sheet

Specifications

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

ILM1003P21F0000

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	51.3 lbf.in (5.8 N.m)
Peak stall torque	250.5 lbf.in (28.3 N.m)
Nominal Output Power	1100 W
nominal torque	31.0 lbf.in (3.5 N.m)
Nominal speed	3000 rpm
Maximum current Irms	21.2 A
Line Rated Current	2.4 A
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	0.7 in (19 mm)
Shaft length	1.6 in (40 mm)
Key width	1.2 in (30 mm)
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	79.7 lbf.in (9 N.m) holding brake
Mounting Support	International standard flange
Motor flange size	3.9 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
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

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

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	12.4 in (315 mm)
Number of motor stacks	3
Centring collar diameter	3.7 in (95 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	19.6 lb(US) (8.9 kg)

Environment

IP Degree of Protection	IP65

Ordering and shipping details

Category	US1PC5218351
Discount Schedule	PC52
GTIN	3606485294483
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	23.2 in (59.0 cm)
Package weight(Lbs)	21.14 lb(US) (9.59 kg)

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained

How we assess product sustainability

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	1
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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
PVC free	Yes

Use Again

Repack and remanufacture

Recyclability potential, in %	1
Circularity Profile	End of Life Information
Take-back	No