

# Product data sheet

Specifications



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

ILM1001P02A0000

## 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 Irms	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.cm²
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

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

Maximum Radial Force Fr	900 N at 1000 rpm 720 N at 2000 rpm 630 N at 3000 rpm
Maximum Axial Force Fa	0.2 x Fr
Type Of Cooling	Natural convection
Length	215 mm
Number Of Motor Stacks	1
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	IP54
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## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	20.0 cm
Package 1 Width	27.0 cm
Package 1 Length	59.5 cm
Package 1 Weight	6.243 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	8
Package 2 Height	75.0 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	58.444 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<sub>2</sub> 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	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>