

Product data sheet

Characteristics

ILM0703P02F0000

integrated servo motor - 2.2 Nm - 6000 rpm - multiturn - 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	3 A
Continuous stall torque	2.2 N.m
Peak stall torque	8.7 N.m
Nominal output power	720 W
Nominal torque	1.15 N.m
Nominal speed	6000 rpm
Maximum current I_{rms}	12 A
[In] rated current	1.5 A
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	14 mm
Shaft length	30 mm
Key width	20 mm
Feedback type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	3 N.m holding brake
Mounting support	International standard flange
Motor flange size	70 mm
Torque constant	0.76 N.m/A at 120 °C
Back emf constant	49 V/krpm at 20 °C
Number of motor poles	6
Rotor inertia	0.88 kg.cm²
Stator resistance	2.7 Ohm at 20 °C for Ph/Ph 1.88 Ohm at 120 °C for Ph/N
Stator inductance	13 mH at 20 °C for Ph/Ph 6.5 mH at 120 °C for Ph/N
Maximum radial force F_r	730 N at 1000 rpm 580 N at 2000 rpm 510 N at 3000 rpm 460 N at 4000 rpm 430 N at 5000 rpm 400 N at 6000 rpm
Maximum axial force F_a	0.2 x F_r

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Type of cooling	Natural convection
Length	293 mm
Number of motor stacks	3
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	4.7 kg

Environment

IP degree of protection	IP54
-------------------------	------

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.5 cm
Package 1 Width	20.0 cm
Package 1 Length	59.5 cm
Package 1 Weight	6.599 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	55.0 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