Product data sheet
Characteristics

ILM1003P21A0000
integrated servo motor - 5.8 Nm - 3000 rpm - without brake - IP65

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	5.8 N.m
Peak stall torque	28.3 N.m
Nominal output power	1100 W
Nominal torque	3.5 N.m
Nominal speed	3000 rpm
Maximum current Irms	21.2 A
[In] rated current	2.4 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 single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	100 mm
Torque constant	1.61 N.m/A at 120 °C
Back emf constant	103 V/krpm at 20 °C
Number of motor poles	8
Rotor inertia	3.22 kg.cm²
Stator resistance	2.6 Ohm at 20 °C for Ph/Ph 1.81 Ohm at 120 °C for Ph/N
Stator inductance	15.6 MH at 20 °C for Ph/Ph 7.8 mH at 120 °C for Ph/N
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	285 mm
Number of motor stacks	3

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	8.1 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	8.79 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