Product data sheet
Characteristics

ILM0702P01A0000
integrated servo motor - 1.7 Nm - 6000 rpm - without 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	2.5 A
Continuous stall torque	1.7 N.m
Peak stall torque	7.6 N.m
Nominal output power	720 W
Nominal torque	1.15 N.m
Nominal speed	6000 rpm
Maximum current Irms	11.8 A
[In] rated current	1.5 A
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	11 mm
Shaft length	23 mm
Key width	18 mm
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 mm
Torque constant	0.76 N.m/A at 120 °C
Back emf constant	48 V/krpm at 20 °C
Number of motor poles	6
Rotor inertia	0.41 kg.cm²
Stator resistance	2.92 Ohm at 120 °C for Ph/N 4.2 Ohm at 20 °C for Ph/Ph
Stator inductance	9.5 mH at 120 °C for Ph/N 19 mH at 20 °C for Ph/Ph
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	226 mm
Number of motor stacks	2

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
Product weight	3.4 kg

Environment

IP degree of protection	IP54

Offer Sustainability

Sustainable offer status	Not Green Premium product