

Product data sheet

Characteristics

ILM0703P02A0000

integrated servo motor - 2.2 Nm - 6000 rpm - multiturn - 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	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	Without
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	0.58 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
Type of cooling	Natural convection

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Length	259 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	4.2 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	26.5 cm
Package 1 Length	59.0 cm
Package 1 Weight	5.645 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	53.66 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> 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	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> End Of Life Information
PVC free	Yes