

# Product data sheet

## Characteristics

### ILM0701P11F0000

integrated servo motor - 1.1 Nm - 6000 rpm - keyed shaft - 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	1.55 A
Continuous stall torque	1.1 N.m
Peak stall torque	3.5 N.m
Nominal output power	310 W
Nominal torque	0.5 N.m
Nominal speed	6000 rpm
Maximum current I <sub>rms</sub>	5.7 A
[In] rated current	0.6 A
Shaft end	Keyed
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	With
Holding torque	3 N.m (holding brake)
Mounting support	International standard flange
Motor flange size	70 mm
Torque constant	0.71 N.m/A at 120 °C
Back emf constant	46 V/krpm at 20 °C
Number of motor poles	6
Rotor inertia	0.35 kg.cm <sup>2</sup>
Stator resistance	7.23 Ohm at 120 °C for Ph/N 10.4 Ohm at 20 °C for Ph/Ph
Stator inductance	19.4 mH at 120 °C for Ph/N 38.8 mH at 20 °C for Ph/Ph
Maximum radial force Fr	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	219 mm

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Number of motor stacks	1
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 kg

## Environment

IP degree of protection	IP54
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## Offer Sustainability

Sustainable offer status	Not Green Premium product
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