

# Product data sheet

## Characteristics

### ILM0703P21F0000

integrated servo motor - 2.2 Nm - 6000 rpm -  
with 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 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 Irms	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 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	0.76 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	1.88 Ohm at 120 °C for Ph/N 2.7 Ohm at 20 °C for Ph/Ph
Stator inductance	6.5 mH at 120 °C for Ph/N 13 mH at 20 °C for Ph/Ph
Maximum radial force Fr	400 N at 6000 rpm 430 N at 5000 rpm 460 N at 4000 rpm 510 N at 3000 rpm 580 N at 2000 rpm 730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	293 mm

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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
Product weight	4.7 kg

## Environment

IP degree of protection	IP65
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## Offer Sustainability

Sustainable offer status	Not Green Premium product
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