

# Product data sheet

## Characteristics

# ILM1401P11A0000

integrated servo motor - 7.5 Nm - 3000 rpm - keyed shaft - 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	4.7 A
Continuous stall torque	7.5 N.m
Peak stall torque	27 N.m
Nominal output power	1450 W
Nominal torque	4.6 N.m
Nominal speed	3000 rpm
Maximum current $I_{rms}$	18.8 A
[In] rated current	2.9 A
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Key width	40 mm
Feedback type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting support	International standard flange
Motor flange size	140 mm
Torque constant	1.6 N.m/A at 120 °C
Back emf constant	108 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	7.41 kg.cm²
Stator resistance	1.81 Ohm at 20 °C for Ph/Ph 1.26 Ohm at 120 °C for Ph/N
Stator inductance	19.1 mH at 20 °C for Ph/Ph 9.55 mH at 120 °C for Ph/N
Maximum radial force $F_r$	2210 N at 1000 rpm 1760 N at 2000 rpm 1530 N at 3000 rpm
Maximum axial force $F_a$	0.2 x $F_r$
Type of cooling	Natural convection
Length	254 mm
Number of motor stacks	1

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Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Net weight	12.5 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	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	59.0 cm
Package 1 Weight	13.13 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
PVC free	Yes