

Product data sheet

Specifications



Motion integrated drive, Lexium integrated drive, ILP with 2-phase stepper motor, 24VDC to 48VDC, RS485, 0.86Nm

ILP2R572MB1A

Main

Range Of Product	Lexium integrated drive
Product Or Component Type	Motion integrated drive
Device Short Name	ILP
Motor Type	2-phase stepper motor
Network Type	DC
Electrical Connection	Flying leads
[Us] Rated Supply Voltage	24...48 V
Length	76.71 mm
Winding Type	Medium speed of rotation and medium torque
Gear Box Type	Without
Nominal Speed	400 rpm at 24 V 400 rpm at 48 V
Holding Torque	0.86 N.m

Complementary

Communication Interface	RS485
Transmission Rate	4.8, 9.6, 19.2, 38.4, 115 kbauds
Mounting Support	Flange
Motor Flange Size	57 mm
Feedback Type	Index pulse
Holding Brake	Without
Supply Voltage Limits	12...48 V
Current Consumption	3.2 A maximum continuous
Input/Output Type	4 signals (each be used as input or output)
Voltage State 0 Guaranteed	<= 0.8 V
Voltage State 1 Guaranteed	>= 2.2 V
Discrete Input Current	1.75 mA at 24 V for 24 V signal interface
Maximum Switching Current	275 mA four channels 600 mA single channel
Protection Type	Short circuit of the output voltage Overload of output voltage
Peak Stall Torque	0.86 N.m
Continuous Stall Torque	0.86 N.m

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Speed Feedback Resolution	1000 steps
	10000 steps
	12800 steps
	1600 steps
	200 steps
	2000 steps
	20000 steps
	25000 steps
	25600 steps
	3200 steps
	400 steps
	40000 steps
	5000 steps
	50000 steps
	51200 steps
	6400 steps
	800 steps
Accuracy Error	+/- 0.3 arc/min
Rotor Inertia	0.26 kg.cm²
Service Life In Hours	20000 h
Marking	CE
Net Weight	0.75 kg

Environment

Standards	IEC 61000-4-5
	IEC 61000-4-4
	EMC immunity IEC 61000-4-2
	EN 61000-3-2 : 2006
	EN 55011:2007, A2:2007 for Group 1, Class A
	EN 61000-3-3:1995, A1:2001, A2:2005
	IEC 61000-4-3
	IEC 61000-4-11
Ambient Air Temperature For Operation	50...65 °C (with power derating of 2 % per °C)
	0...50 °C (without derating)
Permissible Ambient Air Temperature Around The Device	100 °C
Ambient Air Temperature For Storage	-25...70 °C
Operating Altitude	<= 1000 m without derating
Relative Humidity	15...85 % without condensation
Ip Degree Of Protection	IP20 total except shaft bushing: conforming to EN/IEC 60034-5
	IP41 shaft bushing: conforming to EN/IEC 60034-5

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.0 cm
Package 1 Width	13.5 cm
Package 1 Length	19.8 cm
Package 1 Weight	952.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm

Package 2 Weight	8.329 kg
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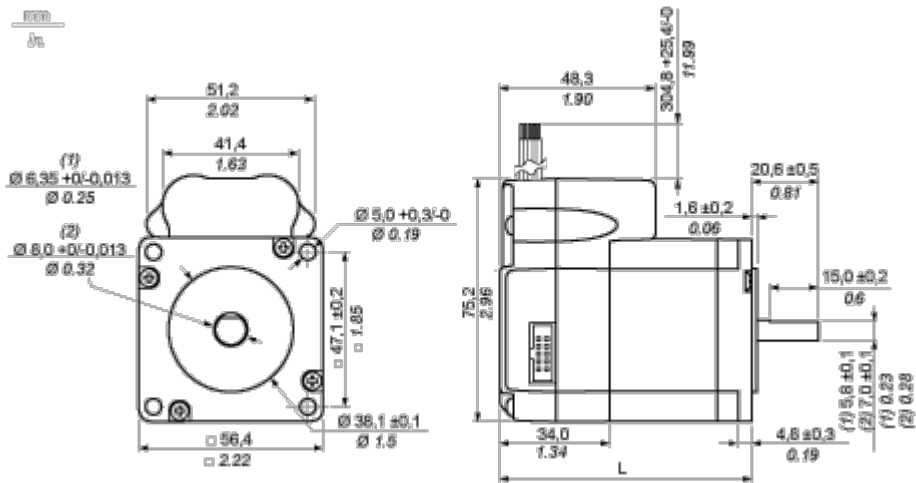
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Integrated Drive with Flying Leads

Dimensions



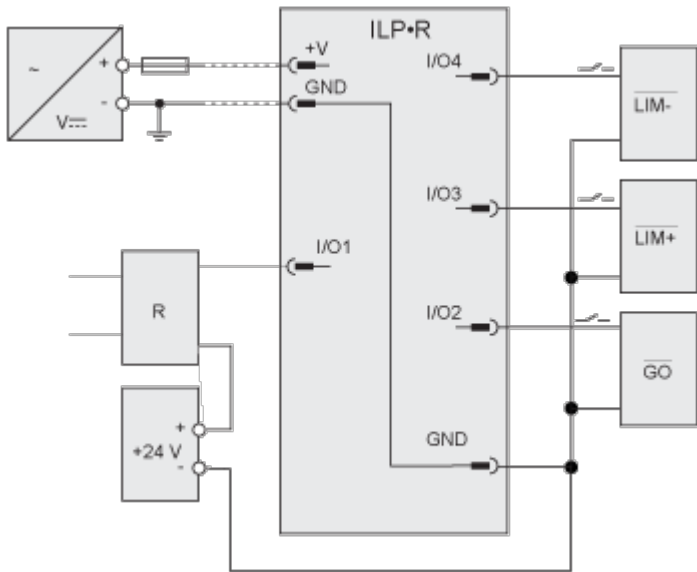
- (1) Single, Double & Triple Length Motors
- (2) Quad Length Motor

L 76.71 mm/3.02 in.

Connections and Schema

Connection Example with 4 I/O Signals

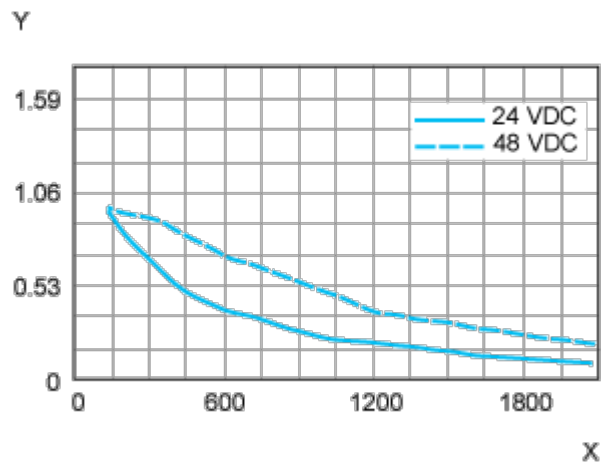
Three sinking inputs (I/O4 - I/O2) and a sourcing output (I/O1).



R Relay

Performance Curves

Torque Characteristics



X Speed of rotation in rpm
Y Torque in Nm