

# ILP2R573MC1A

Motion integrated drive, Lexium integrated drive, ILP with 2-phase stepper motor, 24VDC to 48VDC, RS485, 1.44 Nm



## 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	Industrial connector
[Us] rated supply voltage	24...48 V
Length	4.67 in (118.62 mm)
Winding type	Medium speed of rotation and medium torque
Gear box type	Without
Nominal speed	300 rpm 24 V 450 rpm 48 V
Holding torque	12.75 lbf.in (1.44 N.m)

## Complementary

Communication interface	RS485
Transmission Rate	4.8, 9.6, 19.2, 38.4, 115 kbauds
Mounting Support	Flange
Motor flange size	2.24 in (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	11 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 24 V signal interface
Maximum switching current	275 MA four channels 600 mA single channel
Protection Type	Overload of output voltage Short circuit of the output voltage
Peak stall torque	12.75 lbf.in (1.44 N.m)
Continuous stall torque	12.75 lbf.in (1.44 N.m)
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Accuracy error	+/- 0.3 arc/min
Rotor inertia	0.46 kg.cm <sup>2</sup>
Service life in hours	20000 h
Marking	CE
Net Weight	2.45 lb(US) (1.11 kg)

## Environment

Standards	EMC immunity IEC 61000-4-2 IEC 61000-4-5 EN 55011:2007, A2:2007 for Group 1, Class A IEC 61000-4-4 EN 61000-3-3:1995, A1:2001, A2:2005 IEC 61000-4-6 IEC 61000-4-11 IEC 61000-4-3 EN 61000-3-2 : 2006
Ambient air temperature for operation	122...149 °F (50...65 °C) with power derating of 2 % per °C) 32...122 °F (0...50 °C) without derating)
Permissible ambient air temperature around the device	212 °F (100 °C)
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating
Relative humidity	15...85 % without condensation
IP degree of protection	Shaft bushing IP41 EN/IEC 60034-5 Total except shaft bushing IP54 EN/IEC 60034-5

## Ordering and shipping details

Category	11300-MISC. ITEMS
Discount Schedule	NET
GTIN	3606480157127
Returnability	No

## Packing Units

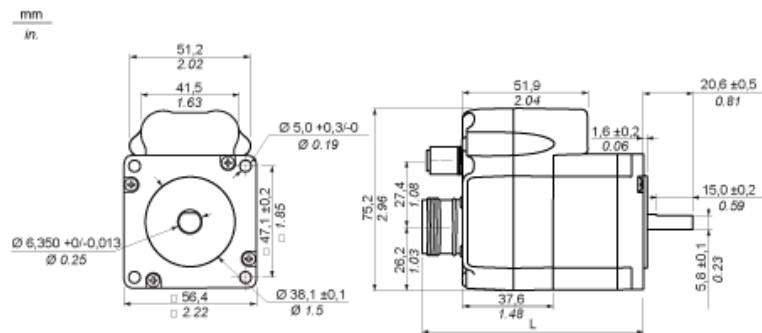
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.54 in (9.0 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	7.80 in (19.8 cm)
Package 1 Weight	3.06 lb(US) (1.386 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	26.02 lb(US) (11.801 kg)

## Contractual warranty

Warranty	18 months
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Integrated Drive with Industrial Connectors

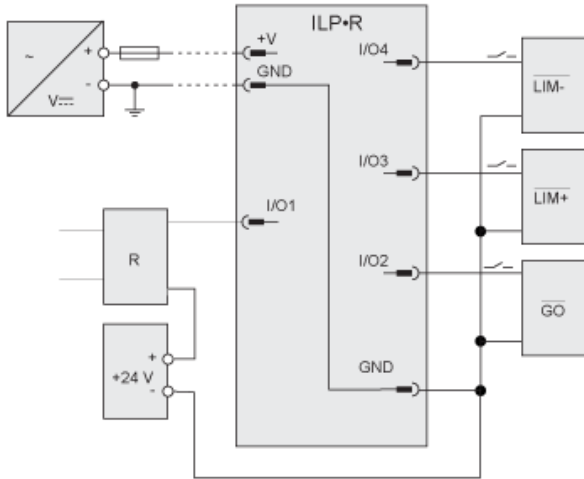
Dimensions



L 118.62 mm/4.67 in.

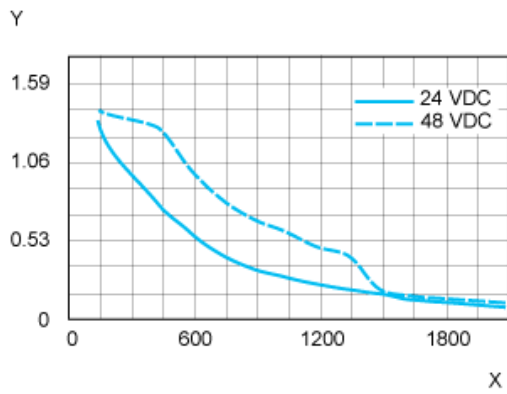
## Connection Example with 4 I/O Signals

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



R Relay

Torque Characteristics



X Speed of rotation in rpm  
Y Torque in Nm