

Product data sheet

Specifications



Motion integrated drive, Lexium integrated drive, ILT with stepper motor, 24VDC to 48VDC, CANopen, 0.86Nm

ILT2A572MB1A

! Discontinued

! Discontinued on: Sep 15, 2023

Main

Range Of Product	Lexium integrated drive
Product Or Component Type	Motion integrated drive
Device Short Name	ILT
Motor Type	2-phase stepper motor
Network Type	DC
Electrical Connection	Flying leads
[Us] Rated Supply Voltage	24...48 V
Communication Interface	CANopen DS402
Length	76.71 mm
Winding Type	Medium speed of rotation and medium torque
Holding Brake	Without
Gear Box Type	Without
Nominal Speed	400 rpm at 24 V 400 rpm at 48 V
Holding Torque	0.86 N.m

Complementary

Transmission Rate	10, 20, 50, 100, 125, 250, 800, 1000 kbauds
Mounting Support	Flange
Motor Flange Size	57 mm
Feedback Type	Index pulse
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
Discrete Output Voltage	5...24 V
Maximum Switching Current	275 mA four channels 600 mA single channel

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

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
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 61000-4-4 EN 61000-3-3:1995, A1:2001, A2:2005 IEC 61000-4-5 IEC 61000-4-3 EN 55011:2007, A2:2007 for Group 1, Class A EMC immunity IEC 61000-4-2 IEC 61000-4-6 EN 61000-3-2 : 2006 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	8.600 cm
Package 1 Width	13.600 cm
Package 1 Length	19.700 cm
Package 1 Weight	928.000 g
Unit Type Of Package 2	S03

Number Of Units In Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.844 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	64
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	70.752 kg

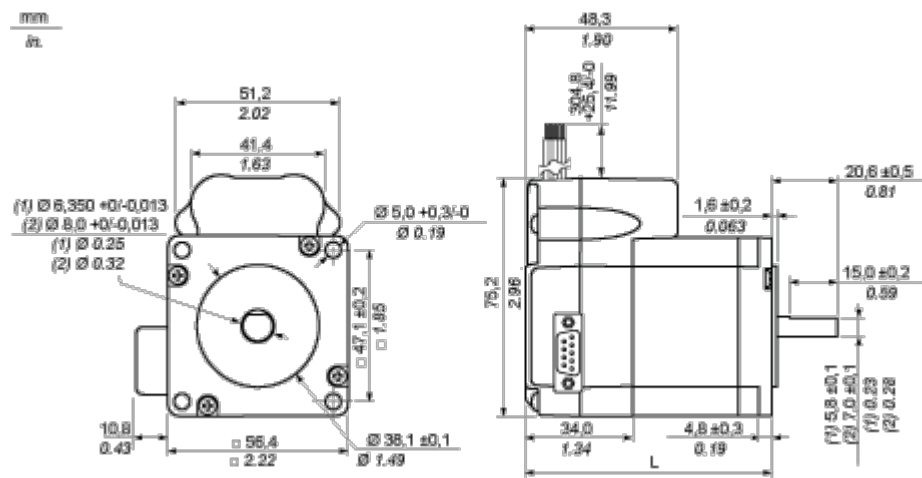
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Integrated Drive with Flying Leads

Dimensions

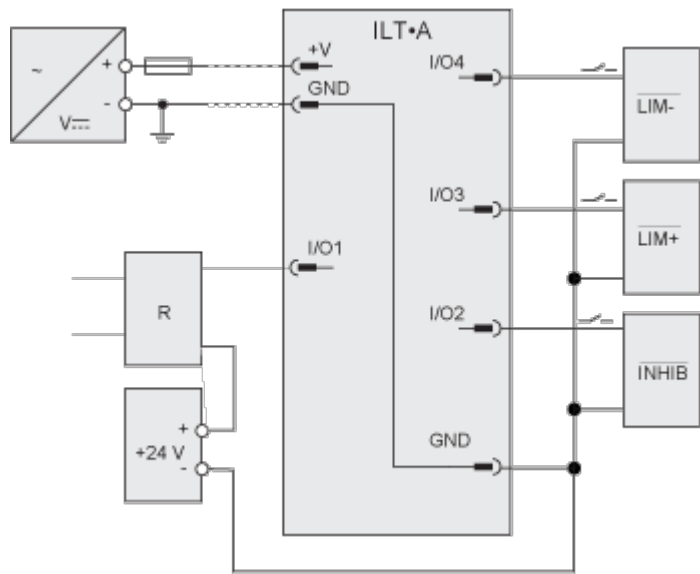


- (1) Single, Double & Triple Length Motors
 - (2) Quad Length Motor
- L 76.71 mm/3.02 in.

Connections and Schema

Connection Example with 4 I/O Signals

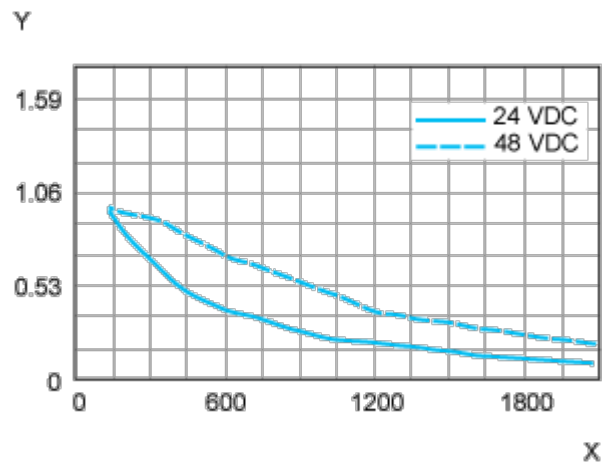
Three sinking inputs (I/O4 - I/O2) and a sourcing output (I/O1).



R Relay

Performance Curves

Torque Characteristics



X Speed of rotation in rpm
Y Torque in Nm