Product data sheet

Specifications

integrated drive ILT with stepper motor - 24..48 V DC - CANopen - 3.12 N.m

ILT2A852MB1A

⊘ Discontinued on: Dec 31, 2020

⊘ Discontinued

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	116.84 mm
Winding Type	Medium speed of rotation and medium torque
Holding Brake	Without
Gear Box Type	Without
Nominal Speed	150 rpm at 24 V 300 rpm at 48 V
Holding Torque	3.12 N.m

Complementary

Transmission Rate	10, 20, 50, 100, 125, 250, 800, 1000 kbauds
Mounting Support	Flange
Motor Flange Size	85 mm
Feedback Type	Index pulse
Supply Voltage Limits	12…48 V
Current Consumption	3.4 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
Protection Type	Short circuit of the output voltage Overload of output voltage

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Peak Stall Torque	3.12 N.m
Continuous Stall Torque	3.12 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	1.6 kg.cm²
Service Life In Hours	20000 h
Marking	CE
Net Weight	2.5 kg

Environment

Standards	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 61000-4-6 IEC 61000-4-3 IEC 61000-4-11 EMC immunity IEC 61000-4-2 IEC 61000-4-4 IEC 61000-4-5
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	22.9 cm
Package 1 Width	25.1 cm
Package 1 Length	31.8 cm
Package 1 Weight	2.7 kg

Contractual warranty

Warranty	18 months

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Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information   Yes

✅ Pvc Free

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Integrated Drive with Flying Leads
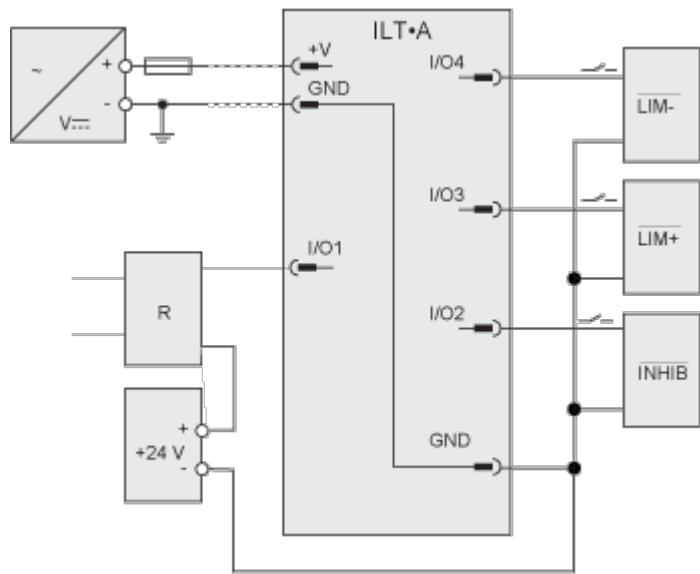
Dimensions
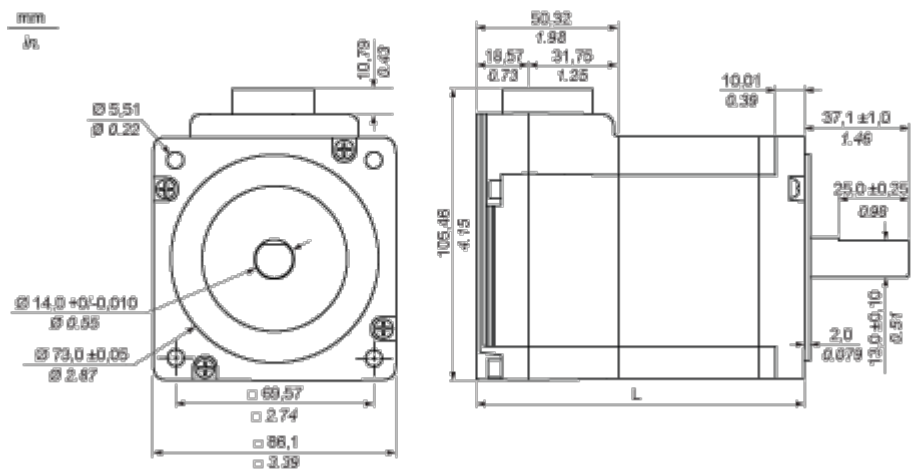
L   116.84 mm/4.60 in.

Connections and Schema

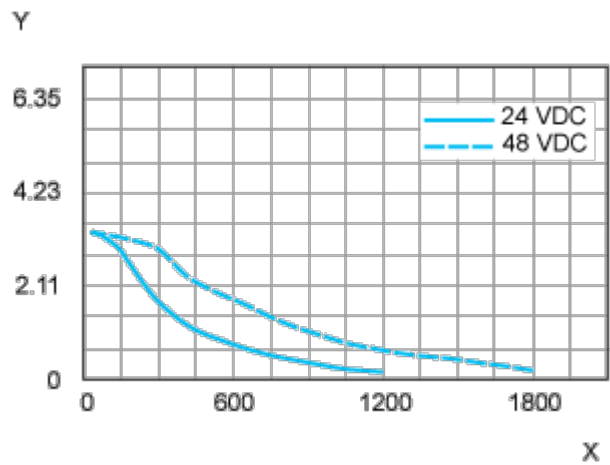### Connection Example with 4 I/O Signals

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