

ILT2A422MC1A

integrated drive ILT with stepper motor - 24..48 V DC - CANopen - 0.33 N.m



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	Industrial connector
[Us] rated supply voltage	24...48 V
Communication interface	CANopen DS402
Length	3.29 in (83.57 mm)
Winding type	Medium speed of rotation and medium torque
Holding brake	Without
Gear box type	Without
Nominal speed	400 rpm at 24 V 600 rpm at 48 V
Holding torque	0.33 N.m

Complementary

Transmission rate	10, 20, 50, 100, 125, 250, 800, 1000 kbauds
Mounting support	Flange
Motor flange size	1.65 in (42 mm)
Feedback type	Index pulse
Supply voltage limits	12...48 V
Current consumption	1.3 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 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
Peak stall torque	0.33 N.m
Continuous stall torque	2.92 lbf.in (0.33 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

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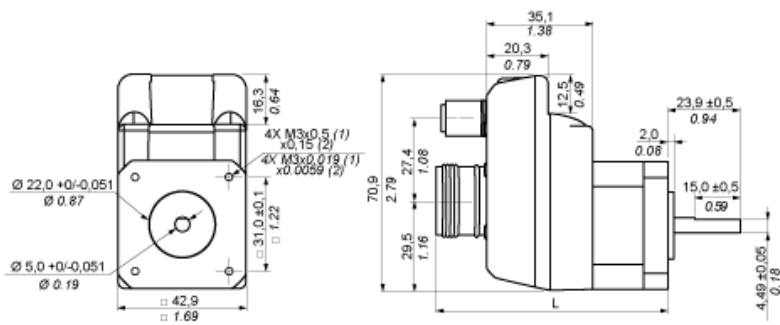
Accuracy error	+/- 0.3 arc/min
Rotor inertia	0.057 kg.cm ²
Service life in hours	20000 h
Marking	CE
Net weight	0.75 lb(US) (0.34 kg)

Environment

Standards	EN 61000-3-2 : 2006 EMC immunity IEC 61000-4-2 EN 61000-3-3:1995, A1:2001, A2:2005 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-6 IEC 61000-4-5 IEC 61000-4-11 EN 55011:2007, A2:2007 for Group 1, Class A
Ambient air temperature for operation	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	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 IP54 total except shaft bushing: conforming to EN/IEC 60034-5

Integrated Drive with Industrial Connectors

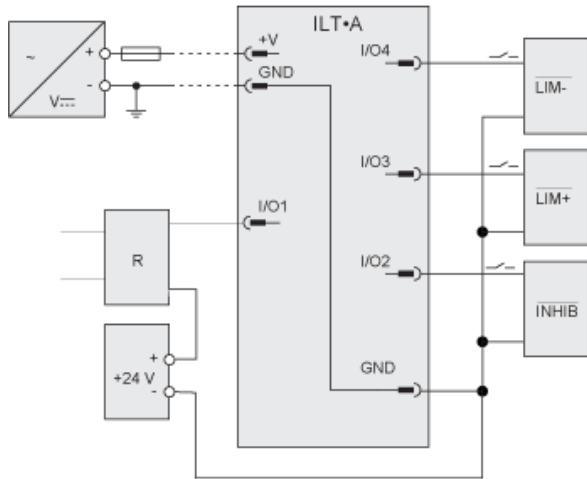
Dimensions

$$\frac{\text{miles}}{\text{hr.}}$$


- (1) Thread
(2) Depth
L 83.57 mm/3.29 in.

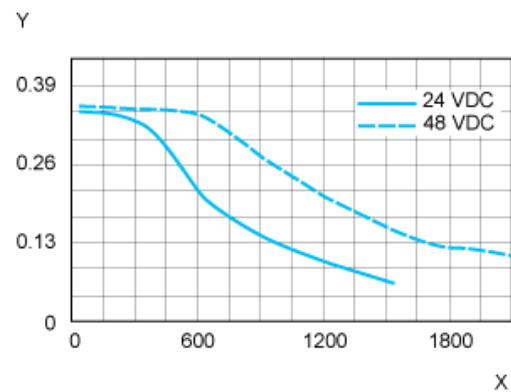
Connection Example with 4 I/O Signals

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