



## 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                    | 3.02 in (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<br>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          | 2.24 in (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<br>600 mA single channel   |
| Protection type            | Short circuit of the output voltage<br>Overload of output voltage   |
| Peak stall torque          | 0.86 N.m  |
| Continuous stall torque    | 7.61 lbf.in (0.86 N.m)  |
| Speed feedback resolution  | 1000 steps<br>10000 steps<br>12800 steps<br>1600 steps<br>200 steps<br>2000 steps<br>20000 steps<br>25000 steps<br>25600 steps<br>3200 steps<br>400 steps<br>40000 steps<br>5000 steps<br>50000 steps<br>51200 steps<br>6400 steps<br>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.

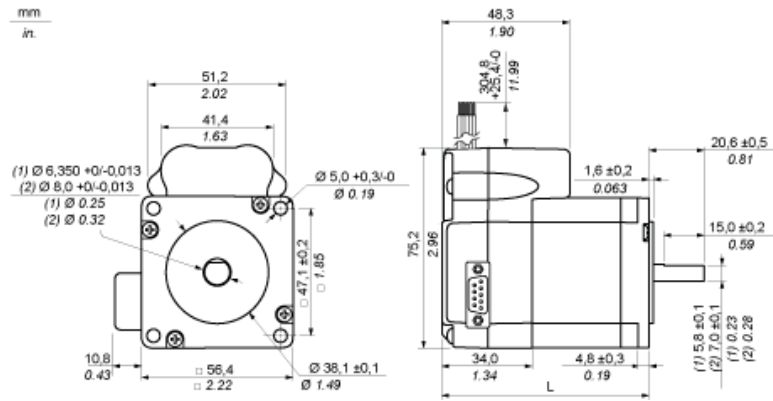
|                       |                         |
|-----------------------|-------------------------|
| Accuracy error        | +/- 0.3 arc/min         |
| Rotor inertia         | 0.26 kg.cm <sup>2</sup> |
| Service life in hours | 20000 h                 |
| Marking               | CE                      |
| Net weight            | 1.65 lb(US) (0.75 kg)   |

## Environment

|   |   |
|---|---|
| Standards   | IEC 61000-4-4<br>EN 61000-3-3:1995, A1:2001, A2:2005<br>IEC 61000-4-5<br>IEC 61000-4-3<br>EN 55011:2007, A2:2007 for Group 1, Class A<br>EMC immunity IEC 61000-4-2<br>IEC 61000-4-6<br>EN 61000-3-2 : 2006<br>IEC 61000-4-11 |
| Ambient air temperature for operation                 | 50...65 °C (with power derating of 2 % per °C)<br>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                               | IP20 total except shaft bushing: conforming to EN/IEC 60034-5<br>Shaft bushing IP41 EN/IEC 60034-5  |

Integrated Drive with Flying Leads

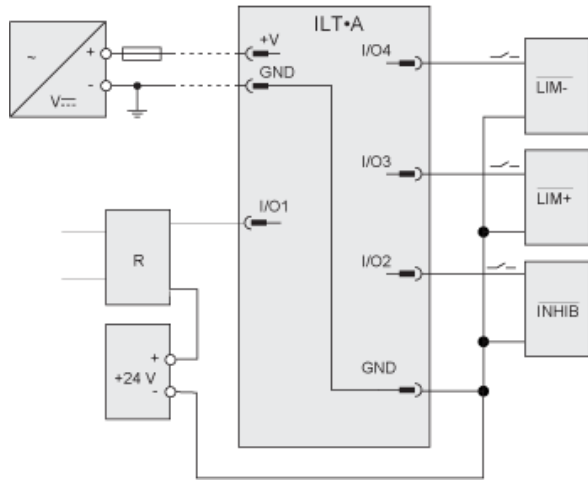
Dimensions



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

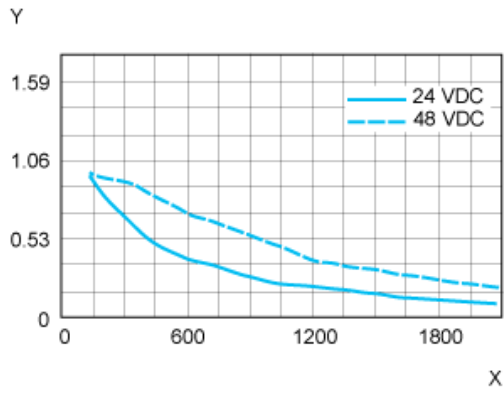
## Connection Example with 4 I/O Signals

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