

Product data sheet

Specifications



integrated drive ILT with stepper motor - 24..48 V DC - CANopen - 0.19 N.m

ILT2A421MB1A

 **Discontinued on:** Oct 29, 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 | 55.9 mm |
| Winding Type | Medium speed of rotation and medium torque |
| Holding Brake | Without |
| Gear Box Type | Without |
| Nominal Speed | 1500 rpm at 48 V 800 rpm at 24 V |
| Holding Torque | 0.19 N.m |

Complementary

| | |
|----------------------------|---|
| Transmission Rate | 10, 20, 50, 100, 125, 250, 800, 1000 kbauds |
| Mounting Support | Flange |
| Motor Flange Size | 42 mm |
| Feedback Type | Index pulse |
| Supply Voltage Limits | 12...48 V |
| Current Consumption | 1.3 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 |

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

| | |
|---------------------------|---|
| Peak Stall Torque | 0.19 N.m |
| Continuous Stall Torque | 0.19 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 | 0.038 kg.cm² |
| Service Life In Hours | 20000 h |
| Marking | CE |

Environment

| | |
|---|---|
| Standards | EMC immunity IEC 61000-4-2 EN 55011:2007, A2:2007 for Group 1, Class A IEC 61000-4-4 EN 61000-3-2 : 2006 IEC 61000-4-3 IEC 61000-4-6 EN 61000-3-3:1995, A1:2001, A2:2005 IEC 61000-4-11 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 | 9 cm |
| Package 1 Width | 13.5 cm |
| Package 1 Length | 19.8 cm |
| Package 1 Weight | 486 g |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability




Green Premium™ 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-CO₂ products.

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

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

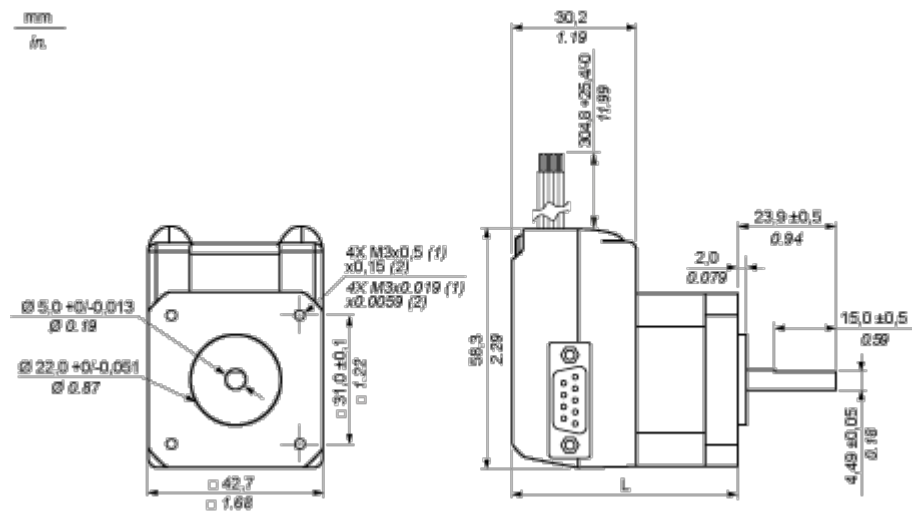
Well-being performance

| | |
|--|---|
|  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

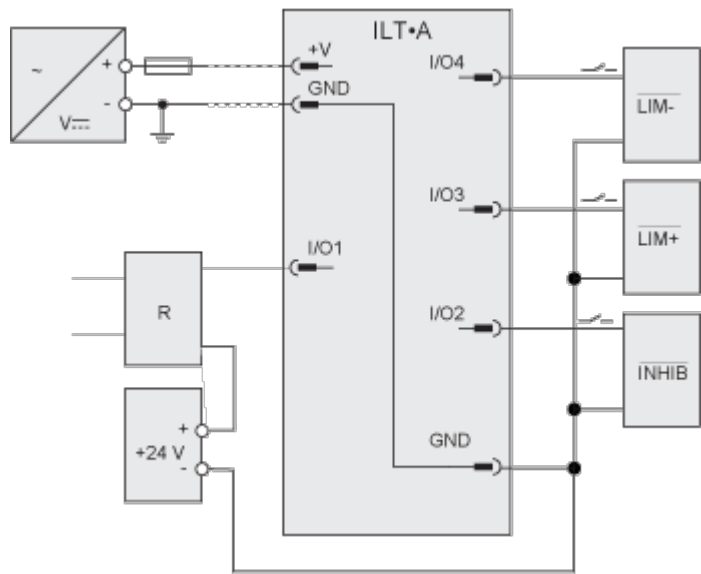


- (1) Thread
 - (2) Depth
- L 55.9 mm/2.20 in.

Connections and Schema

Connection Example with 4 I/O Signals

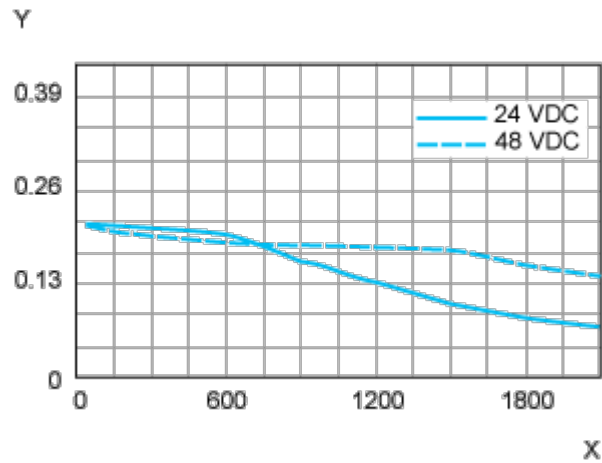
Three sinking inputs (I/O4 - I/O2) and a sourcing output (I/O1).



R Relay

Performance Curves

Torque Characteristics



X Speed of rotation in rpm
Y Torque in Nm