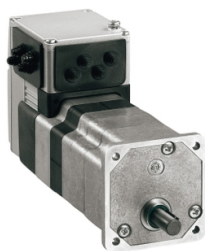


# Product datasheet

Specifications



brushless dc motor 24..48 V-  
Modbus TCP interface - L = 140 mm  
- w/o gearbox

ILE2T662PC1A0

⚠ Discontinued on: 9 Feb 2023

⚠ Discontinued

EAN Code: 3606485189383

## Main

|                           |                                            |
|---------------------------|--------------------------------------------|
| Range of product          | Lexium integrated drive                    |
| Product or component type | Motion integrated drive                    |
| Device short name         | ILE                                        |
| Motor type                | Brushless DC motor                         |
| Number of motor poles     | 6                                          |
| Network number of phases  | Single phase                               |
| [Us] rated supply voltage | 24 V<br>48 V                               |
| Network type              | DC                                         |
| Communication interface   | Modbus TCP, integrated                     |
| Length                    | 140 mm                                     |
| Winding type              | Medium speed of rotation and medium torque |
| Electrical connection     | Industrial connector                       |
| Holding brake             | Without                                    |
| Gear box type             | Without                                    |
| Reduction ratio           | 1:1                                        |
| Nominal speed             | 3100 rpm at 24 V<br>5000 rpm at 48 V       |
| Nominal torque            | 0.5 N.m at 24 V<br>0.5 N.m at 48 V         |

## Complementary

|                                       |               |
|---------------------------------------|---------------|
| Transmission rate                     | 10, 100 Mbits |
| Mounting support                      | Flange        |
| Motor flange size                     | 66 mm         |
| Number of motor stacks                | 2             |
| Centring collar diameter              | 40 mm         |
| centring collar depth                 | 2 mm          |
| Number of mounting holes              | 4             |
| Mounting holes diameter               | 4.4 mm        |
| Circle diameter of the mounting holes | 73.54 mm      |

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

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Feedback type              | BLDC encoder                                                                                                                |
| Shaft end                  | Untapped                                                                                                                    |
| Second shaft               | Without second shaft end                                                                                                    |
| Shaft diameter             | 8 mm                                                                                                                        |
| Shaft length               | 25 mm                                                                                                                       |
| Supply voltage limits      | 18...55.2 V                                                                                                                 |
| Current consumption        | 7000 mA peak<br>5500 mA maximum continuous                                                                                  |
| Associated fuse rating     | 16 A                                                                                                                        |
| Commissioning interface    | RS485 Modbus TCP (9.6, 19.2 and 38.4 kbauds)                                                                                |
| Input/output type          | 4 signals (each be used as input or output)                                                                                 |
| Voltage state 0 guaranteed | -3...4.5 V                                                                                                                  |
| Voltage state 1 guaranteed | 15...30 V                                                                                                                   |
| Discrete input current     | 10 mA at 24 V on/STO_A for safety input<br>3 mA at 24 V on/STO_B for safety input<br>2 mA at 24 V for 24 V signal interface |
| Discrete output voltage    | 23...25 V                                                                                                                   |
| Maximum switching current  | 100 mA per output<br>200 mA total                                                                                           |
| Protection type            | Short circuit of the output voltage<br>Safe torque off<br>Overload of output voltage                                        |
| Maximum supply current     | 0.1 A (power stage disabled)<br>7 A at 48 V<br>9.5 A at 24 V                                                                |
| Nominal output power       | 162 W at 24 V<br>262 W at 48 V                                                                                              |
| Peak stall torque          | 0.8 N.m at 24 V<br>0.8 N.m at 48 V                                                                                          |
| Continuous stall torque    | 0.54 N.m                                                                                                                    |
| Detent torque              | 0.106 N.m                                                                                                                   |
| Speed feedback resolution  | 12 points/turn                                                                                                              |
| Accuracy error             | +/- 0.5 °                                                                                                                   |
| Rotor inertia              | 0.34 kg.cm²                                                                                                                 |
| Maximum mechanical speed   | 7000 rpm<br>5000 rpm                                                                                                        |
| Maximum radial force Fr    | 80 N                                                                                                                        |
| Maximum axial force Fa     | 30 N (force pressure)<br>30 N (tensile force)                                                                               |
| Service life in hours      | 20000 h bearing                                                                                                             |
| Marking                    | CE                                                                                                                          |
| type of cooling            | Natural convection                                                                                                          |
| Net weight                 | 1.75 kg                                                                                                                     |

## Environment

|                                                       |                                                                                                                                          |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | IEC 60072-1<br>EN 61800-3 : 2001-02<br>IEC 50347<br>IEC 61800-3, Ed 2<br>IEC 61800-3<br>EN 61800-3:2001, second environment<br>IEC 50178 |
| Product certifications                                | cUL<br>UL<br>TÜV                                                                                                                         |
| Ambient air temperature for operation                 | 40...55 °C (with power derating of 2 % per °C)<br>0...40 °C (without derating)                                                           |
| Permissible ambient air temperature around the device | 105 °C power amplifier<br>110 °C motor                                                                                                   |
| Ambient air temperature for storage                   | -25...70 °C                                                                                                                              |
| Operating altitude                                    | <= 1000 m without derating                                                                                                               |
| Relative humidity                                     | 15...85 % without condensation                                                                                                           |
| Vibration resistance                                  | 20 m/s² (f= 10...500 Hz) 10 cycles conforming to IEC 60068-2-6                                                                           |
| Shock resistance                                      | 150 m/s² 1000 shocks conforming to IEC 60068-2-29                                                                                        |
| IP degree of protection                               | IP41 shaft bushing: conforming to IEC 60034-5<br>IP54 total except shaft bushing: conforming to IEC 60034-5                              |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 8.0 cm  |
| Package 1 Width              | 18.5 cm |
| Package 1 Length             | 35.5 cm |
| Package 1 Weight             | 1.95 kg |

## Contractual warranty

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

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint                               |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 363                                           |
| Environmental Disclosure                              | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                        |
| Packaging without single use plastic   | No                                                         |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope) |
| SCIP Number                            | C2ce416c-ac1e-4e66-863f-bde9b6d94d11                       |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                          |
| PVC free                               | Yes                                                        |

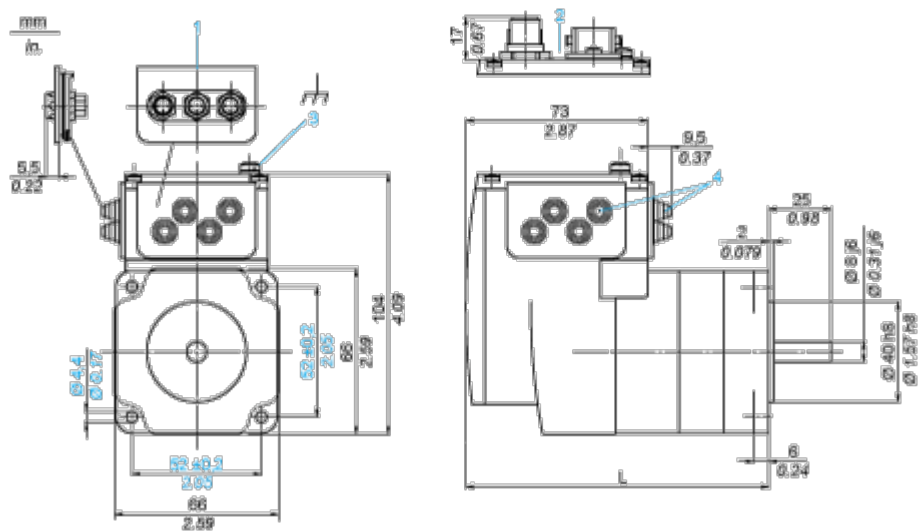
Use Again

| Repack and remanufacture |                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                | No                                                                                                                                                                                                              |
| WEEE                     |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions Drawings

Integrated Drive without Gearing

Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries  $\varnothing = 3 \dots 9 \text{ mm} / 0.12 \dots 0.35 \text{ in.}$
- L 140 mm / 4.80 in.

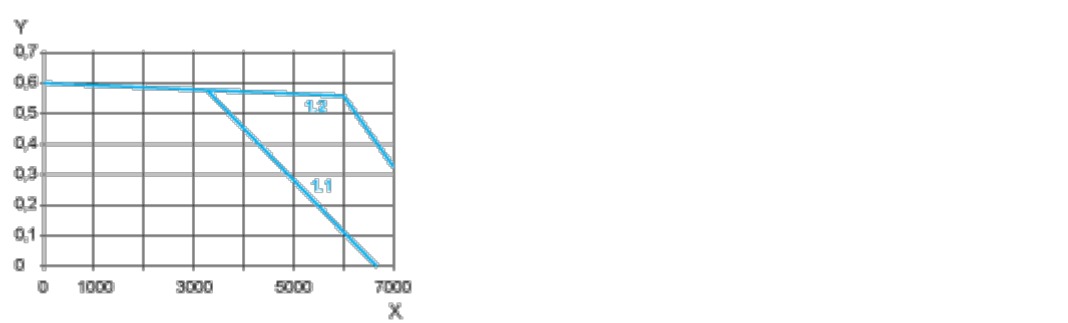
Connections and Schema

Connection Example with 4 I/O Signals



Performance Curves

Torque Characteristics



X Speed of rotation in rpm

Y Torque in Nm

1.1 Max. torque at 24 V

1.2 Max. torque at 48 V