



## 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>36 V                               |
| Network type              | DC                                         |
| Communication interface   | Integrated RS485                           |
| Length                    | 229 mm                                     |
| Winding type              | Medium speed of rotation and medium torque |
| Electrical connection     | Industrial connector                       |
| Holding brake             | Without                                    |
| Gear box type             | Worm gear, 3 stages                        |
| Reduction ratio           | 115:1 (3675:32)                            |
| Nominal speed             | 35 rpm at 36 V<br>35 rpm at 24 V           |
| Nominal torque            | 10.6 N.m at 36 V<br>10.2 N.m at 24 V       |

## Complementary

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Transmission rate          | 9.6, 19.2 and 38.4 kbauds                                                                                                       |
| Mounting support           | Flange                                                                                                                          |
| Motor flange size          | 66 mm                                                                                                                           |
| Number of motor stacks     | 1                                                                                                                               |
| Centring collar diameter   | 36 mm                                                                                                                           |
| Number of mounting holes   | 2                                                                                                                               |
| Mounting holes diameter    | 4.4 mm                                                                                                                          |
| Feedback type              | BLDC encoder                                                                                                                    |
| Shaft end                  | Hole                                                                                                                            |
| Second shaft               | Without second shaft end                                                                                                        |
| Supply voltage limits      | 18...40 V                                                                                                                       |
| Current consumption        | 5500 mA (maximum continuous)<br>7000 mA (peak)                                                                                  |
| Associated fuse rating     | 10 A                                                                                                                            |
| 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     | 2 mA at 24 V for 24 V signal interface<br>≤ 3 mA at 24 V on/STO_B for safety input<br>≤ 10 mA at 24 V on/STO_A for safety input |
| Discrete output voltage    | 23...25 V                                                                                                                       |
| Maximum switching current  | 200 mA total<br>100 mA per output                                                                                               |

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Protection type           | Overload of output voltage<br>Safe torque off<br>Short circuit of the output voltage |
| Supply current            | Supply: 3.8 A, 36 V<br>Supply: 6.8 A, 24 V<br>Supply: 0.1 A, power stage disabled    |
| Nominal output power      | 39 W at 36 V<br>37 W at 24 V                                                         |
| Peak stall torque         | 20.7 N.m at 36 V<br>14.95 N.m at 24 V                                                |
| Continuous stall torque   | 14 N.m                                                                               |
| Detent torque             | 16.7 N.m                                                                             |
| Speed feedback resolution | 0.26° (gearbox output)<br>12 points/turn (motor)                                     |
| Accuracy error            | +/- 1 point                                                                          |
| Torsional backlash        | <= 1 °                                                                               |
| Rotor inertia             | 1980 kg.cm²                                                                          |
| Maximum mechanical speed  | 44 rpm                                                                               |
| Maximum radial force Fr   | 200 N                                                                                |
| Maximum axial force Fa    | 80 N                                                                                 |
| Service life in hours     | 9000 h of bearing :                                                                  |
| Marking                   | CE                                                                                   |
| Type of cooling           | Natural convection                                                                   |
| Product weight            | 2.3 kg                                                                               |

## Environment

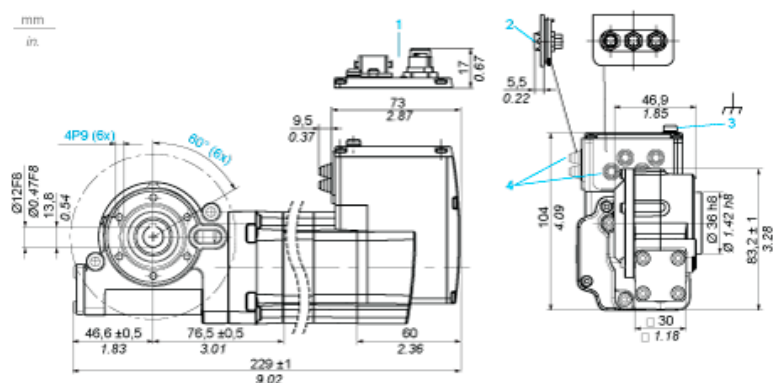
|                                                       |                                                                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | EN 50347<br>EN 61800-3:2001, second environment<br>EN 61800-3 : 2001-02<br>EN/IEC 50178<br>EN/IEC 61800-3<br>IEC 60072-1<br>IEC 61800-3, Ed 2 |
| Product certifications                                | CUL<br>TÜV<br>UL                                                                                                                              |
| Ambient air temperature for operation                 | 0...50 °C without derating<br>> 50...65 °C with power derating of 2 % per °C                                                                  |
| Permissible ambient air temperature around the device | 110 °C (motor)<br>105 °C (power amplifier)                                                                                                    |
| 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) for 10 cycles conforming to EN/IEC 60068-2-6                                                                        |
| Shock resistance                                      | 150 m/s² for 1000 shocks conforming to EN/IEC 60068-2-29                                                                                      |
| IP degree of protection                               | IP54 total except shaft bushing conforming to EN/IEC 60034-5<br>IP41 shaft bushing conforming to EN/IEC 60034-5                               |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0922 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Available <a href="#">Download End Of Life Manual</a>                                 |

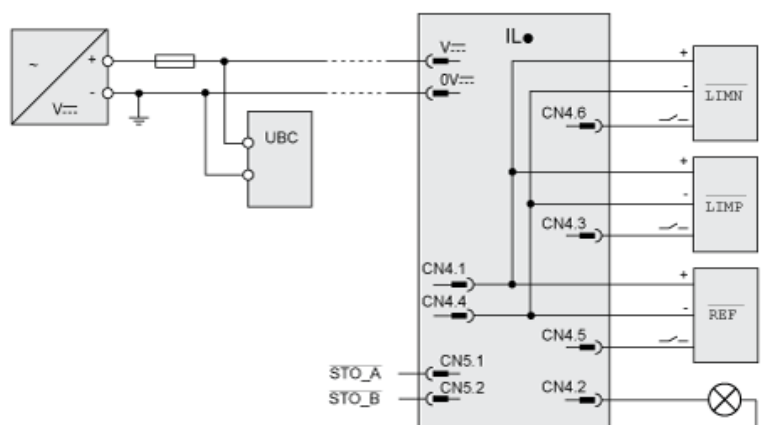
## Integrated Drive with Worm Gear

### Dimensions



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

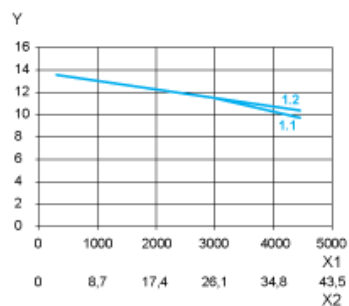
## Connection Example with 4 I/O Signals



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## Torque Characteristics

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- X1 Speed of rotation of motor in rpm  
X2 Speed of rotation of gearing in rpm  
Y Torque in Nm  
1.1 Max. torque at 24 V  
1.2 Max. torque at 36 V