



## Main

|                           |                                          |
|---------------------------|------------------------------------------|
| Range of product          | Lexium integrated drive                  |
| Product or component type | Motion integrated drive                  |
| Device short name         | ILA                                      |
| Motor type                | Ac synchronous servo 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                    | 207.8 mm                                 |
| Winding type              | High speed of rotation and medium torque |
| Electrical connection     | Printed circuit board connector          |
| Holding brake             | Without                                  |
| Gear box type             | Without                                  |
| Nominal speed             | 5000 rpm at 36 V<br>3100 rpm at 24 V     |
| Nominal torque            | 0.41 N.m                                 |

## Complementary

|                                       |                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Transmission rate                     | 9.6, 19.2 and 38.4 kbauds                                                                                                       |
| Mounting support                      | Flange                                                                                                                          |
| Motor flange size                     | 57 mm                                                                                                                           |
| Number of motor stacks                | 2                                                                                                                               |
| Centring collar diameter              | 50 mm                                                                                                                           |
| Centring collar depth                 | 1.6 mm                                                                                                                          |
| Number of mounting holes              | 4                                                                                                                               |
| Mounting holes diameter               | 5.2 mm                                                                                                                          |
| Circle diameter of the mounting holes | 66.6 mm                                                                                                                         |
| Feedback type                         | Multi turn encoder                                                                                                              |
| Shaft end                             | Untapped                                                                                                                        |
| Second shaft                          | Without second shaft end                                                                                                        |
| Shaft diameter                        | 9 mm                                                                                                                            |
| Shaft length                          | 20 mm                                                                                                                           |
| Supply voltage limits                 | 18...40 V                                                                                                                       |
| Current consumption                   | 9000 mA (peak)<br>7500 mA (maximum continuous)                                                                                  |
| 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 |
| Peak stall torque         | 0.61 N.m                                                                             |
| Continuous stall torque   | 0.41 N.m                                                                             |
| Speed feedback resolution | 16384 points/turn x 4096 turns                                                       |
| Accuracy error            | +/- 0.05 °                                                                           |
| Rotor inertia             | 0.18 kg.cm <sup>2</sup>                                                              |
| Maximum radial force Fr   | 107 N                                                                                |
| Maximum axial force Fa    | 104 N (tensile force)<br>104 N (force pressure)                                      |
| Service life in hours     | 20000 h of bearing :                                                                 |
| Marking                   | CE                                                                                   |
| Type of cooling           | Natural convection                                                                   |
| Product weight            | 1.7 kg                                                                               |

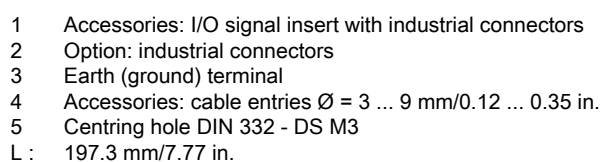
## Environment

|                                                       |                                                                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 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/s <sup>2</sup> (f = 10...500 Hz) for 10 cycles conforming to EN/IEC 60068-2-6                                                            |
| Shock resistance                                      | 150 m/s <sup>2</sup> 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                               |

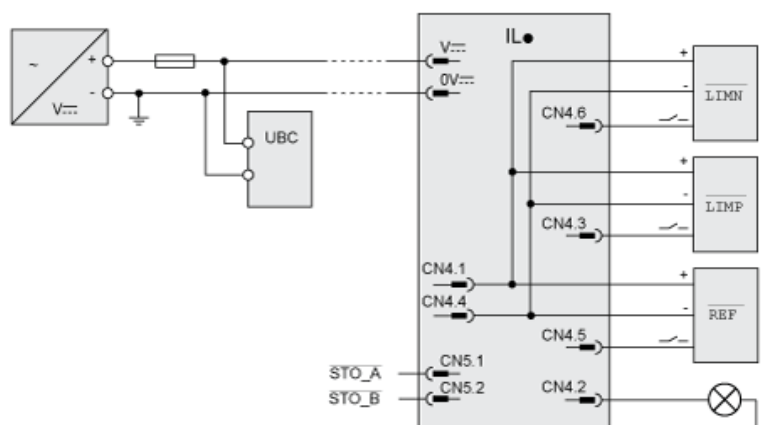
## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0944 - <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>                                 |

## Dimensions



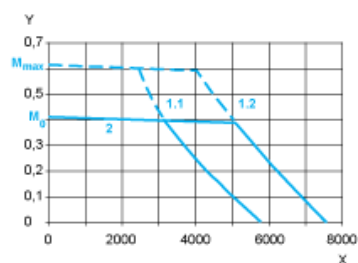
## Connection Example with 4 I/O Signals



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Torque Characteristics

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X Speed of rotation in rpm

Y Torque in Nm

1.1 Max. torque at 24 V

1.2 Max. torque at 36 V

2 Continuous torque