

Product data sheet

Specifications



integrated drive ILA with servo motor - 24..36 V - RS485 - industrial connector

ILA1R571TC1A0

! Discontinued on: Jan 23, 2021

! Discontinued

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 |
| Phase | Single phase |
| [Us] rated supply voltage | 24 V 36 V |
| network type | DC |
| Communication interface | RS485, Integrated |
| Length | 5.7 in (145.3 mm) |
| Winding type | High speed of rotation and medium torque |
| Electrical Connection | Industrial connector |
| Holding brake | Without |
| Gear box type | Without |
| Nominal speed | 5100 rpm 24 V 7500 rpm 36 V |
| Nominal torque | 2.30 lbf.in (0.26 N.m) |

Complementary

| | |
|---------------------------------------|---------------------------|
| Transmission Rate | 9.6, 19.2 and 38.4 kbauds |
| Mounting Support | Flange |
| Motor flange size | 2.2 in (57 mm) |
| Number of motor stacks | 1 |
| Centring collar diameter | 2.0 in (50 mm) |
| Centring collar depth | 0.06 in (1.6 mm) |
| Number of mounting holes | 4 |
| Mounting holes diameter | 0.2 in (5.2 mm) |
| Circle diameter of the mounting holes | 2.6 in (66.6 mm) |
| Feedback type | Single turn encoder |
| Shaft end | Untapped |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|----------------------------|---|
| Second shaft | Without second shaft end |
| Shaft diameter | 0.4 in (9 mm) |
| Shaft length | 0.8 in (20 mm) |
| Supply voltage limits | 18...40 V |
| Current consumption | 11000 mA peak 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 | 10 mA at 24 V on/STO_A safety input 3 mA at 24 V on/STO_B safety input 2 mA at 24 V 24 V signal interface |
| Discrete output voltage | 23...25 V |
| Maximum switching current | 100 mA per output 200 mA total |
| Protection Type | Overload of output voltage Safe torque off Short circuit of the output voltage |
| Peak stall torque | 3.81 lbf.in (0.43 N.m) |
| Continuous stall torque | 2.30 lbf.in (0.26 N.m) |
| Speed feedback resolution | 16384 points/turn |
| Accuracy error | +/- 0.05 ° |
| Rotor inertia | 0.1 kg.cm ² |
| Maximum radial force Fr | 89 N |
| Maximum axial force Fa | 104 N force pressure) 104 N tensile force) |
| Service life in hours | 20000 h bearing |
| marking | CE |
| Type of cooling | Natural convection |
| Net Weight | 3.09 lb(US) (1.4 kg) |

Environment

| | |
|---|---|
| Standards | EN 50347 IEC 61800-3, Ed 2 EN 61800-3:2001, second environment EN 61800-3 : 2001-02 IEC 60072-1 EN/IEC 61800-3 EN/IEC 50178 |
| Product Certifications | TÜV cUL UL |
| Ambient air temperature for operation | 122...149 °F (50...65 °C) with power derating of 2 % per °C) 32...122 °F (0...50 °C) without derating) |
| Permissible ambient air temperature around the device | 221 °F (105 °C) power amplifier 230 °F (110 °C) motor |
| 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 |
| Vibration resistance | 20 m/s² 10...500 Hz) 10 cycles EN/IEC 60068-2-6 |
| Shock resistance | 150 m/s² 1000 shocks EN/IEC 60068-2-29 |
| IP degree of protection | IP41 shaft bushing: conforming to EN/IEC 60034-5 IP54 total except shaft bushing: conforming to EN/IEC 60034-5 |

Ordering and shipping details

| | |
|-------------------|-----------------------------------|
| Category | 18288-LEXIUM INTEGRATED DRIVES II |
| Discount Schedule | PC56 |
| GTIN | 3389119225717 |
| Returnability | No |
| Country of origin | DE |

Packing Units

| | |
|------------------------------|---------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.1 in (8 cm) |
| Package 1 Width | 7.5 in (19 cm) |
| Package 1 Length | 15.4 in (39 cm) |
| Package 1 Weight | 4.0 lb(US) (1.8 kg) |

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 >](#)



Transparency RoHS/REACH

Well-being performance

| | | |
|---|----------------------------|-----|
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |

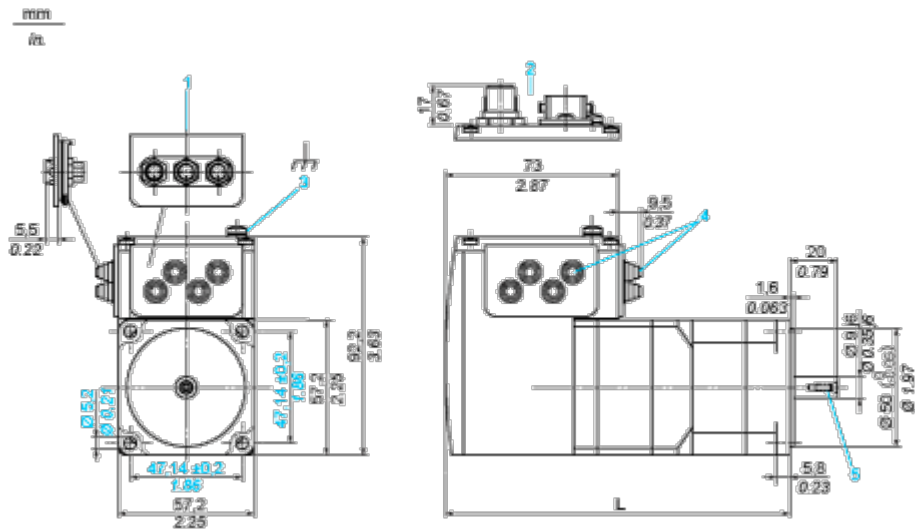
Certifications & Standards

| | |
|---------------------------|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| Circularity Profile | End of Life Information |
| 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 without Holding Brake

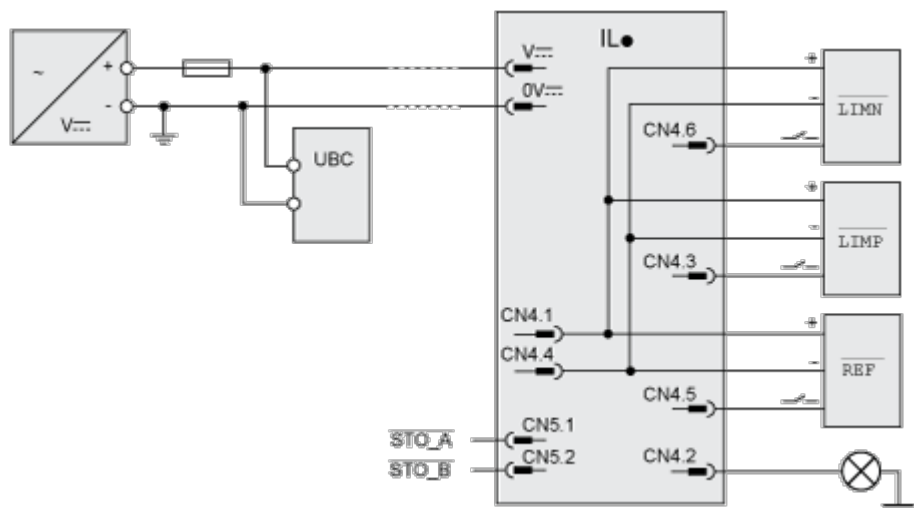
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
2 Option: industrial connectors
3 Earth (ground) terminal
4 Accessories: cable entries Ø = 3 ... 9 mm/0.12 ... 0.35 in.
5 Centring hole DIN 332 - DS M3
L 145.3 mm/5.72 in.

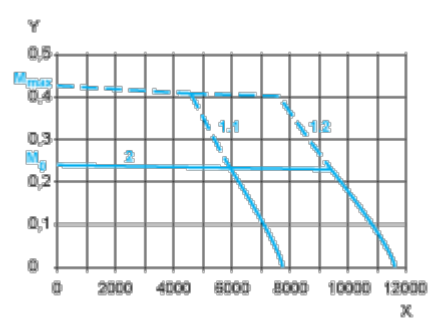
Connections and Schema

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 36 V

2 Continuous torque