

Product data sheet

Characteristics

ILA2T572PC2A0

integrated drive ILA with servo motor - 24..48 V
- Modbus TCP - indus connector



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 48 V |
| Network type | DC |
| Communication interface | Modbus TCP, integrated |
| Length | 207.8 mm |
| Winding type | Medium speed of rotation and medium torque |
| Electrical connection | Industrial connector |
| Holding brake | Without |
| Gear box type | Without |
| Nominal speed | 1600 rpm at 24 V 3400 rpm at 48 V |
| Nominal torque | 0.78 N.m |

Complementary

| | |
|---------------------------------------|--|
| Transmission rate | 10, 100 Mbits |
| 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...55.2 V |
| Current consumption | 7000 mA maximum continuous 8500 mA peak |
| 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 for safety input 2 mA at 24 V for 24 V signal interface |
| Discrete output voltage | 23...25 V |

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| | |
|---------------------------|--|
| Maximum switching current | 100 mA per output 200 mA total |
| Protection type | Short circuit of the output voltage Safe torque off Overload of output voltage |
| Peak stall torque | 1.62 N.m |
| Continuous stall torque | 0.78 N.m |
| Speed feedback resolution | 16384 points/turn x 4096 turns |
| Accuracy error | +/- 0.05 ° |
| Rotor inertia | 0.173 kg.cm² |
| Maximum radial force Fr | 107 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 | 1.7 kg |

Environment

| | |
|---|--|
| Standards | IEC 61800-3, Ed 2 IEC 61800-3 IEC 50178 EN 61800-3:2001, second environment IEC 60072-1 IEC 50347 EN 61800-3 : 2001-02 |
| Product certifications | TÜV[RETURN]cUL[RETURN]JUL |
| Ambient air temperature for operation | 40...55 °C (with power derating of 2 % per °C) 0...40 °C (without derating) |
| Permissible ambient air temperature around the device | 105 °C power amplifier 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 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 | 2.0 kg |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile |  End Of Life Information |

| | |
|----------|---|
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes |

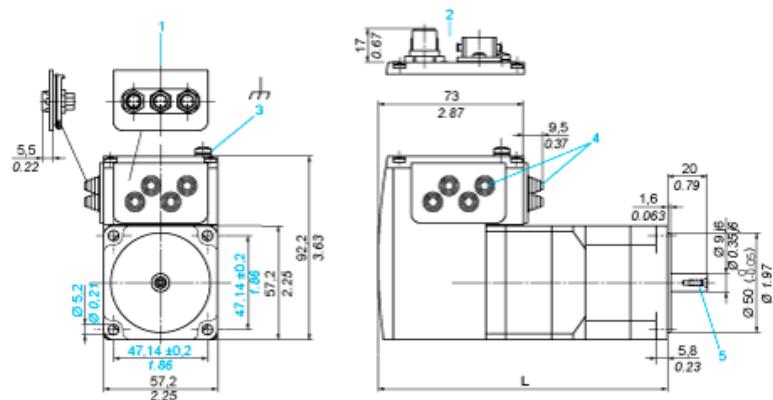
Contractual warranty

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

Integrated Drive without Holding Brake

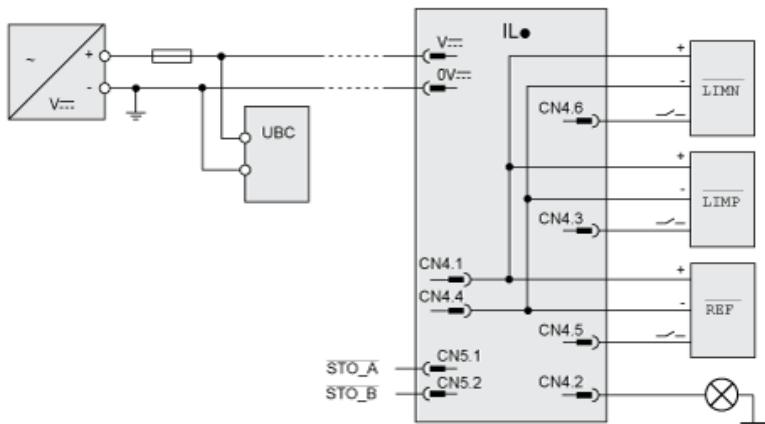
Dimensions

mm
int

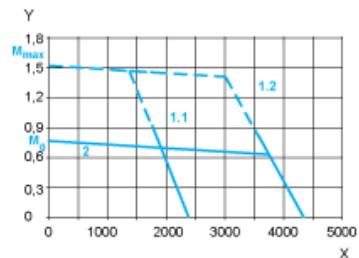


- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\varnothing = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- 5 Centring hole DIN 332 - DS M3
- L : 197.3 mm/7.77 in.

Connection Example with 4 I/O Signals



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

2 Continuous torque