Product data sheet

Specification





(!) Discontinued

integrated drive ILS with stepper motor - 24..48 V - Ethernet Powerlink - 5 A

ILS2P852PB1A0

- ! Discontinued on: Mar 31, 2023
- ! To be end-of-service on: Dec 31, 2026

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

| Range Of Product | Lexium integrated drive |
|---------------------------|--|
| Product Or Component Type | Motion integrated drive |
| Device Short Name | ILS |
| Motor Type | 3-phase stepper motor |
| Number Of Motor Poles | 6 |
| Phase | Single phase |
| [Us] Rated Supply Voltage | 48 V 24 V |
| Network Type | DC |
| Communication Interface | Ethernet Powerlink, Integrated |
| Length | 6.72 in (170.6 mm) |
| Winding Type | Medium speed of rotation and medium torque |
| Electrical Connection | Printed circuit board connector |
| Holding Brake | Without |
| Gear Box Type | Without |
| Nominal Speed | 180 rpm 24 V 360 rpm 48 V |
| Nominal Torque | 35.40 lbf.in (4 N.m) |
| Holding Torque | 35.40 lbf.in (4 N.m) |

Complementary

| Transmission Rate | 100 Mbits |
|--------------------------|------------------|
| Mounting Support | Flange |
| Motor Flange Size | 3.35 in (85 mm) |
| Number Of Motor Stacks | 2 |
| Centring Collar Diameter | 2.36 in (60 mm) |
| Centring Collar Depth | 0.08 in (2 mm) |
| Number Of Mounting Holes | 4 |
| Mounting Holes Diameter | 0.26 in (6.5 mm) |

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

| Circle Diameter Of The Mounting Holes | 3.90 in (99 mm) |
|---------------------------------------|---|
| Feedback Type | Index pulse |
| Shaft End | Untapped |
| Second Shaft | Without second shaft end |
| Shaft Diameter | 0.47 in (12 mm) |
| Shaft Length | 1.18 in (30 mm) |
| Supply Voltage Limits | 1855 V |
| Current Consumption | 5000 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 | -34.5 V |
| Voltage State 1 Guaranteed | 1530 V |
| Discrete Input Current | 10 mA at 24 V safety input 2 mA at 24 V 24 V signal interface |
| Discrete Output Voltage | 2325 V |
| Maximum Switching Current | 100 mA per output 200 mA total |
| Protection Type | Short circuit of the output voltage Overload of output voltage Safe torque off |
| Peak Stall Torque | 35.40 lbf.in (4 N.m) |
| Continuous Stall Torque | 35.40 lbf.in (4 N.m) |
| Speed Feedback Resolution | 20000 points/turn |
| Accuracy Error | +/- 6 arc min |
| Rotor Inertia | 2.2 kg.cm² |
| Maximum Mechanical Speed | 3000 rpm |
| Maximum Radial Force Fr | 100 N |
| Maximum Axial Force Fa | 170 N tensile force) 30 N force pressure) |
| Service Life In Hours | 20000 h bearing |
| Marking | CE |
| Type Of Cooling | Natural convection |
| Net Weight | 7.94 lb(US) (3.6 kg) |
| Environment | |
| Standards | IEC 61800-3, Ed 2 EN 50347 IEC 60072-1 EN 61800-3:2001, second environment |

| Standards | IEC 61800-3, Ed 2 | |
|-----------------------------|--|---|
| | EN 50347 | |
| | IEC 60072-1 | |
| | EN 61800-3:2001, second environment | |
| | EN/IEC 50178 | |
| | EN 61800-3 : 2001-02 | |
| | EN/IEC 61800-3 | |
| Product Certifications | TÜV | |
| | UL | |
| | cUL | |
| Ambient Air Temperature For | 104131 °F (4055 °C) with power derating of 2 % per °C) | , |
| Operation | 32104 °F (040 °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 | -13158 °F (-2570 °C) |
| Operating Altitude | <= 3280.84 ft (1000 m) without derating |
| Relative Humidity | 1585 % without condensation |
| Vibration Resistance | 20 m/s² 10500 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 | 3606485189710 |
| Returnability | No |
| Country Of Origin | DE |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|----------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 4.09 in (10.4 cm) |
| Package 1 Width | 7.09 in (18.0 cm) |
| Package 1 Length | 14.37 in (36.5 cm) |
| Package 1 Weight | 9.04 lb(US) (4.1 kg) |

Contractual warranty

Warranty 18 months

Sustainability Screen Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass 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

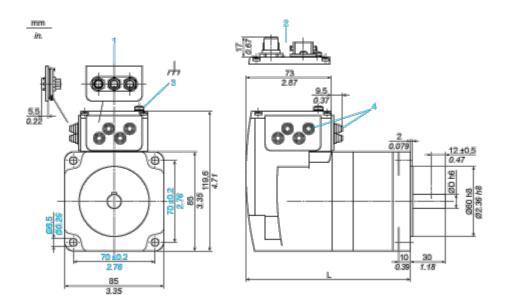
Certifications & Standards

| Reach Regulation | REACh Declaration |
|---------------------------------|--|
| 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. |
| Weee Circularity Profile | · · · · · · · · · · · · · · · · · · · |

Dimensions Drawings

Integrated Drive without Holding Brake

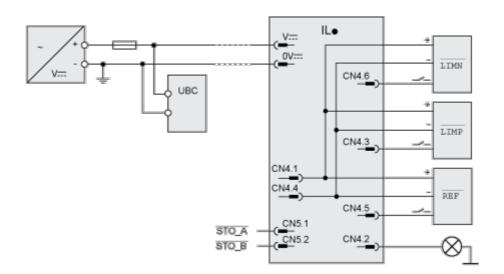
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm/0.12} \dots 0.35 \text{ in.}$
- L 170.6 mm/6.72 in.
- D 12 mm/0.47 in.

Connections and Schema

Connection Example with 4 I/O Signals

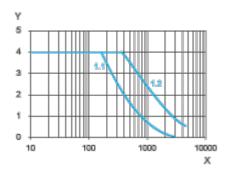


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Performance Curves

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