# Product data sheet

Specifications

## Power base, TeSys Ultra, 12 A, screw clamps control

LUB12

**Product availability: Stock - Normally stocked in distribution facility**

## Main

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|---|---|
| **Range** | TeSys |
| **Product name** | TeSys Ultra |
| **Device short name** | LUB |
| **Product or Component Type** | Non reversing power base |
| **Device Application** | Motor control<br>Motor protection |
| **Poles description** | 3P |
| **Suitability for isolation** | Yes |
| **[Ue] rated operational voltage** | 690 V AC power circuit |
| **Network frequency** | 40...60 Hz |
| **[Ith] conventional free air thermal current** | 12 A |
| **[Ie] rated operational current** | 12 A <= 440 V<br>12 A 500 V<br>9 A 690 V |
| **Utilisation category** | AC-43<br>AC-44<br>AC-41 |
| **[Ics] rated service breaking capacity** | 50 kA 230 V<br>50 kA 440 V<br>10 kA 500 V<br>4 kA 690 V |
| **Auxiliary contact composition** | 1 NO + 1 NC |
| **Auxiliary contacts type** | Linked contacts 1 NO + 1 NC) IEC 60947-4-1<br>Mirror contact 1 NC) IEC 60947-1 |
| **[Uc] control circuit voltage** | 24 V AC 50/60 Hz<br>24 V DC<br>48...72 V AC 50/60 Hz<br>48...72 V DC<br>110...240 V AC 50/60 Hz<br>110...220 V DC |

## Complementary

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

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

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|---|---|
| **Typical current consumption** | 130 mA 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>140 mA 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>150 mA 24 V DC I maximum while closing with LUCM<br>280 mA 110...220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>280 mA 110...240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>280 mA 48...72 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>280 mA 48...72 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>35 mA 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>35 mA 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>35 mA 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>35 mA 48...72 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>60 mA 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>70 mA 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>70 mA 24 V DC I rms sealed with LUCM |
| **Heat dissipation** | 2 W control circuit with LUCA, LUCB, LUCC, LUCD<br>1.7 W control circuit with LUCM |
| **Safety reliability level** | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Operating time** | 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM control circuit<br>50 ms >= 72 V closing with LUCA, LUCB, LUCC, LUCD control circuit<br>60 ms 48 V closing with LUCA, LUCB, LUCC, LUCD control circuit<br>70 ms 24 V closing with LUCA, LUCB, LUCC, LUCD control circuit<br>75 ms closing with LUCM control circuit |
| **Mechanical durability** | 15 Mcycles |
| **maximum operating rate** | 3600 cyc/h |
| **Product Certifications** | CE<br>UL<br>CSA<br>CCC<br>EAC<br>ASEFA<br>ATEX<br>Marine |
| **Standards** | EN 60947-6-2<br>IEC 60947-6-2<br>UL 60947-4-1, with phase barrier<br>CSA C22.2 No 60947-4-1, with phase barrier |
| **[Ui] rated insulation voltage** | 690 V IEC 60947-6-2 3)<br>600 V UL 60947-4-1<br>600 V CSA C22.2 No 60947-4-1 |
| **[Uimp] rated impulse withstand voltage** | 6 kVIEC 60947-6-2 |
| **Safe separation of circuit** | 400 V SELV between the control and auxiliary circuits IEC 60947-1 appendix N<br>400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 appendix N |
| **Fixing mode** | Clipped (DIN rail)<br>Screw-fixed (plate) |
| **Connections - terminals** | Control circuit screw clamp terminals 1 0.0005…0.002 in² (0.34…1.5 mm²) flexible with cable end<br>Control circuit screw clamp terminals 1 0.001…0.002 in² (0.75…1.5 mm²) flexible without cable end<br>Control circuit screw clamp terminals 1 0.001…0.002 in² (0.75…1.5 mm²) rigid<br>Control circuit screw clamp terminals 2 0.0005…0.002 in² (0.34…1.5 mm²) flexible with cable end<br>Control circuit screw clamp terminals 2 0.001…0.002 in² (0.75…1.5 mm²) flexible without cable end<br>Control circuit screw clamp terminals 2 0.001…0.002 in² (0.75…1.5 mm²) rigid<br>Power circuit screw clamp terminals 1 0.002…0.02 in² (1…10 mm²) rigid<br>Power circuit screw clamp terminals 1 0.002…0.009 in² (1…6 mm²) flexible with cable end<br>Power circuit screw clamp terminals 1 0.004…0.02 in² (2.5…10 mm²) flexible without cable end<br>Power circuit screw clamp terminals 2 0.002…0.009 in² (1…6 mm²) flexible with cable end<br>Power circuit screw clamp terminals 2 0.002…0.009 in² (1…6 mm²) rigid<br>Power circuit screw clamp terminals 2 0.002…0.009 in² (1.5…6 mm²) flexible without cable end |

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| **Tightening torque** | Control circuit: 7.08…10.6 lbf.in (0.8…1.2 N.m) flat screwdriver 0.2 in (5 mm)<br>Control circuit: 7.08…10.6 lbf.in (0.8…1.2 N.m) Philips no 1 screwdriver 0.2 in (5 mm)<br>Power circuit: 16.8…22.1 lbf.in (1.9…2.5 N.m) flat screwdriver 0.2 in (6 mm)<br>Power circuit: 16.8…22.1 lbf.in (1.9…2.5 N.m) Philips No 2 screwdriver 0.2 in (6 mm)<br>Power circuit: 16.8…22.1 lbf.in (1.9…2.5 N.m) pozidriv No 2 screwdriver 0.2 in (6 mm) |
| **Width** | 1.8 in (45 mm) |
| **Height** | 6.06 in (154 mm) |
| **Depth** | 5.0 in (126 mm) |
| **Net Weight** | 2.0 lb(US) (0.9 kg) |
| **Compatibility code** | LUB |

# Environment

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|---|---|
| **IP degree of protection** | IP20 IEC 60947-1 front panel and wired terminals)<br>IP20 IEC 60947-1 other faces)<br>IP40 IEC 60947-1 front panel outside connection zone) |
| **Protective treatment** | TH IEC 60068 |
| **Ambient air temperature for operation** | -13…140 °F (-25…60 °C) with LUCM<br>-13…158 °F (-25…70 °C) with LUCA, LUCB, LUCC, LUCD |
| **Ambient Air Temperature for Storage** | -40…185 °F (-40…85 °C) |
| **Fire resistance** | 1760 °F (960 °C) parts supporting live components IEC 60695-2-12<br>1202 °F (650 °C) IEC 60695-2-12 |
| **Operating altitude** | 6561.68 ft (2000 m) |
| **Shock resistance** | 10 gn power poles open IEC 60068-2-27<br>15 gn power poles closed IEC 60068-2-27 |
| **Vibration resistance** | 2 gn 5…300 Hz) power poles open IEC 60068-2-27<br>4 gn 5…300 Hz) power poles closed IEC 60068-2-27 |
| **Resistance to electrostatic discharge** | 8 kV 3 in open air IEC 61000-4-2<br>8 kV 4 on contact IEC 61000-4-2 |
| **Non-dissipating shock wave** | 1 kV serial mode 24...240 V AC IEC 60947-6-2<br>1 kV serial mode 48...220 V DC IEC 60947-6-2<br>2 kV common mode 24...240 V AC IEC 60947-6-2<br>2 kV common mode 48...220 V DC IEC 60947-6-2 |
| **Resistance to fast transients** | 2 kV 3 serial link IEC 61000-4-4<br>4 kV 4 all circuits except for serial link IEC 61000-4-4 |
| **Resistance to radiated fields** | 9.1 V/m (10 V/m) 3 IEC 61000-4-3 |
| **Immunity to radioelectric fields** | 10 V IEC 61000-4-6 |
| **Immunity to microbreaks** | 3 ms control circuit |
| **Immunity to voltage dips** | 70 % / 500 ms IEC 61000-4-11 |

# Ordering and shipping details

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|---|---|
| **Category** | US10I1122396 |
| **Discount Schedule** | 0I11 |
| **GTIN** | 3389110362770 |
| **Returnability** | Yes |
| **Country of origin** | FR |

# Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |

| | |
|---|---|
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 2.047 in (5.200 cm) |
| **Package 1 Width** | 5.315 in (13.500 cm) |
| **Package 1 Length** | 6.693 in (17.000 cm) |
| **Package weight(Lbs)** | 29.771 oz (844.000 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 10 |
| **Package 2 Height** | 5.906 in (15.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 19.176 lb(US) (8.698 kg) |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 160 |
| **Package 3 Height** | 29.528 in (75.000 cm) |
| **Package 3 Width** | 23.622 in (60.000 cm) |
| **Package 3 Length** | 31.496 in (80.000 cm) |
| **Package 3 Weight** | 325.552 lb(US) (147.668 kg) |

## Contractual warranty

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

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained

How we assess product sustainability

### Environmental footprint

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 25 |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

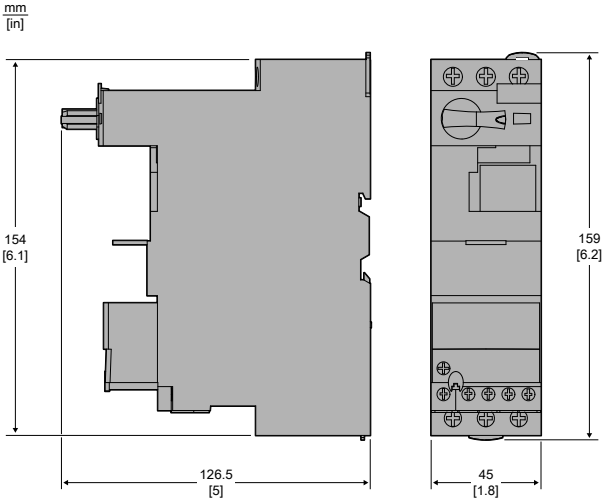
### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| EU RoHS Directive | Compliant |
| SCIP Number | 61f5a085-dfde-4214-b2cf-ba3cfe0c33b4 |
| REACh Regulation | REACh Declaration |
| Halogen content performance | Product contains halogen above thresholds |
| PVC free | Yes |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | 56 |
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Technical Illustration

## Assembly's dimensions