# Product datasheet

Specifications

## Advanced power base, TeSys U, 3P, 32A/690V

Local distributor code:

387990671 LUB320

**EAN Code: 3389110362800**

## 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 for power circuit |
| **Network Frequency** | 40...60 Hz |
| **[Ith] Conventional Free Air Thermal Current** | 32 A |
| **[Ie] Rated Operational Current** | 28.5 A at <= 440 V<br>23 A at 500 V<br>21 A at 690 V |
| **Utilisation Category** | AC-43<br>AC-44<br>AC-41 |
| **[Ics] Rated Service Breaking Capacity** | 50 kA at 230 V<br>50 kA at 440 V<br>10 kA at 500 V<br>4 kA at 690 V |
| **Auxiliary Contact Composition** | 1 NO + 1 NC |
| **Auxiliary Contacts Type** | type linked contacts (1 NO + 1 NC) conforming to IEC 60947-4-1<br>type mirror contact (1 NC) conforming to 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

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|---|---|
| **Typical Current Consumption** | 200 mA at 24 V DC I maximum while closing with LUCM<br>220 mA at 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>220 mA at 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>25 mA at 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>25 mA at 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>280 mA at 110...220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>280 mA at 110...240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>280 mA at 48...72 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>280 mA at 48...72 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD<br>45 mA at 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>45 mA at 48...72 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>75 mA at 24 V DC I rms sealed with LUCM<br>80 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD<br>90 mA at 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD |
| **Heat Dissipation** | 3 W for control circuit with LUCA, LUCB, LUCC, LUCD<br>1.8 W for control circuit with LUCM |
| **Safety Reliability Level** | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| **Operating Time** | 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit<br>50 ms at >= 72 V closing with LUCA, LUCB, LUCC, LUCD for control circuit<br>60 ms at 48 V closing with LUCA, LUCB, LUCC, LUCD for control circuit<br>70 ms at 24 V closing with LUCA, LUCB, LUCC, LUCD for control circuit<br>65 ms closing with LUCM for 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 conforming to IEC 60947-6-2 (pollution degree 3)<br>600 V conforming to UL 60947-4-1<br>600 V conforming to CSA C22.2 No 60947-4-1 |
| **[Uimp] Rated Impulse Withstand Voltage** | 6 kV conforming to IEC 60947-6-2 |
| **Safe Separation Of Circuit** | 400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1 appendix N<br>400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 appendix N |
| **Fixing Mode** | Clipped (DIN rail)<br>Screw-fixed (plate) |
| **Connections - Terminals** | Power circuit: screw clamp terminals 1 cable(s) 1…10 mm² rigid<br>Power circuit: screw clamp terminals 1 cable(s) 1…6 mm² flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 2.5…10 mm² flexible without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1…6 mm² flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1…6 mm² rigid<br>Power circuit: screw clamp terminals 2 cable(s) 1.5…6 mm² flexible without cable end<br>Control circuit: without connection |
| **Tightening Torque** | Control circuit: 0.8…1.2 N.m flat screwdriver 5 mm<br>Control circuit: 0.8…1.2 N.m Philips no 1 screwdriver 5 mm<br>Power circuit: 1.9…2.5 N.m flat screwdriver 6 mm<br>Power circuit: 1.9…2.5 N.m Philips No 2 screwdriver 6 mm<br>Power circuit: 1.9…2.5 N.m pozidriv No 2 screwdriver 6 mm |
| **Width** | 45 mm |
| **Height** | 154 mm |

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| **Depth** | 126 mm |
| **Net Weight** | 0.865 kg |
| **Compatibility Code** | LUB |

## Environment

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| **Ip Degree Of Protection** | IP20 conforming to IEC 60947-1 (front panel and wired terminals)<br>IP20 conforming to IEC 60947-1 (other faces)<br>IP40 conforming to IEC 60947-1 (front panel outside connection zone) |
| **Protective Treatment** | TH conforming to IEC 60068 |
| **Ambient Air Temperature For Operation** | -25…60 °C with LUCM<br>-25…70 °C with LUCA, LUCB, LUCC, LUCD |
| **Ambient Air Temperature For Storage** | -40…85 °C |
| **Fire Resistance** | 960 °C parts supporting live components conforming to IEC 60695-2-12<br>650 °C conforming to IEC 60695-2-12 |
| **Operating Altitude** | 2000 m |
| **Shock Resistance** | 10 gn power poles open conforming to IEC 60068-2-27<br>15 gn power poles closed conforming to IEC 60068-2-27 |
| **Vibration Resistance** | 2 gn (f= 5…300 Hz) power poles open conforming to IEC 60068-2-27<br>4 gn (f= 5…300 Hz) power poles closed conforming to IEC 60068-2-27 |
| **Resistance To Electrostatic Discharge** | 8 kV level 3 in open air conforming to IEC 61000-4-2<br>8 kV level 4 on contact conforming to IEC 61000-4-2 |
| **Non-Dissipating Shock Wave** | 1 kV serial mode 24...240 V AC conforming to IEC 60947-6-2<br>1 kV serial mode 48...220 V DC conforming to IEC 60947-6-2<br>2 kV common mode 24...240 V AC conforming to IEC 60947-6-2<br>2 kV common mode 48...220 V DC conforming to IEC 60947-6-2 |
| **Resistance To Fast Transients** | 2 kV class 3 serial link conforming to IEC 61000-4-4<br>4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4 |
| **Resistance To Radiated Fields** | 10 V/m 3 conforming to IEC 61000-4-3 |
| **Immunity To Radioelectric Fields** | 10 V conforming to IEC 61000-4-6 |
| **Immunity To Microbreaks** | 3 ms for control circuit |
| **Immunity To Voltage Dips** | 70 % / 500 ms conforming to IEC 61000-4-11 |

## Packing Units

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| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 17.200 cm |
| **Package 1 Width** | 5.700 cm |
| **Package 1 Length** | 14.500 cm |
| **Package 1 Weight** | 828.000 g |
| **Unit Type Of Package 2** | S02 |
| **Number Of Units In Package 2** | 10 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 8.498 kg |

## Contractual warranty

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| **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-$CO_2$ 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

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

## Certifications & Standards

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| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **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 |