# Product datasheet

Specifications

Discontinued

## Reversing power base, TeSys U, 3P, 32A/690V, coil 24V AC, TQ 10

LU2B32BTQ

Discontinued on: 1 Nov 2020

## Main

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|---|---|
| **Range** | TeSys |
| **Product name** | TeSys U |
| **Device short name** | LU2B |
| **Product or component type** | Reversing power base |
| **Device application** | Motor control<br>Motor protection |
| **Product compatibility** | Control unit LUC.X6B<br>Control unit LUC.1XB<br>Control unit LUC.05B<br>Control unit LUC.12B<br>Control unit LUC.18B<br>Control unit LUC.32B |
| **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 |
| **Control circuit voltage limits** | 14.5 V AC drop-out<br>20...26.5 V AC in operation |

## Complementary

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| **Typical current consumption** | 2360 mA at 24 V AC I maximum while closing |
| **Heat dissipation** | 3 W for control circuit with LUCA, LUCB, LUCC, LUCD<br>1.8 W for control circuit with LUCM |

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| **Inrush restraint duration** | 25 ms AC 50/60 Hz |
| **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** | 150 ms with change of direction for power circuit<br>35 ms opening for control circuit<br>70 ms closing for control circuit<br>75 ms without change of direction for power 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** | Control circuit: screw clamp terminals 1 cable(s) 0.34…1.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 0.75…1.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 0.75…1.5 mm² rigid<br>Control circuit: screw clamp terminals 2 cable(s) 0.34…1.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 0.75…1.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 0.75…1.5 mm² rigid<br>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 |
| **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 |
| **Width** | 45 mm |
| **Height** | 224 mm |
| **Depth** | 126 mm |
| **Net weight** | 1.27 kg |
| **Quantity per set** | Set of 10 |
| **Compatibility code** | LU2B |

## 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 conforming to IEC 60947-6-2<br>2 kV common mode 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** | 23 cm |
| **Package 1 Width** | 31.5 cm |
| **Package 1 Length** | 31 cm |
| **Package 1 Weight** | 6.6 kg |

## Contractual warranty

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|---|---|
| **Warranty (in months)** | 18 |

## 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 >

### Use Better

#### Materials and Substances

| | |
|---|---|
| EU RoHS Directive | Compliant |

### Use Longer

#### Lifetime extension

| | |
|---|---|
| Repair | No |

### Use Again

#### Repack and remanufacture

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