# Product datasheet

Specifications

Green Premium™

**Advanced control unit, TeSys U, 8-32A, 3P motors, protection & diagnostic, class 10, coil 110-240V AC/DC**

Local distributor code:
387989679                    LUCB32FU

**EAN Code: 3389110364453**

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Range Of Product** | TeSys Ultra |
| **Product Name** | TeSys Ultra |
| **Device Short Name** | LUCB |
| **Product Or Component Type** | Advanced control unit |
| **Device Application** | Motor control<br>Motor protection |
| **Product Specific Application** | Basic protection and advanced functions, communication |
| **Main Function Available** | Manual reset<br>Protection against overload and short-circuit<br>Earth fault protection<br>Protection against phase failure and phase imbalance |
| **Product Compatibility** | Power base LUB32<br>Power base LUB38<br>Power base LUB320<br>Power base LUB380<br>Reversing contactor breaker LU2B32FU<br>Reversing contactor breaker LU2B38FU |
| **[Ue] Rated Operational Voltage** | 690 V AC |
| **Network Frequency** | 40...60 Hz |
| **Load Type** | 3-phase motor - cooling: self-cooled |
| **Utilisation Category** | AC-44<br>AC-43<br>AC-41 |
| **Motor Power Kw** | 15 kW at 400...440 V AC 50/60 Hz<br>15 kW at 500 V AC 50/60 Hz<br>18.5 kW at 690 V AC 50/60 Hz |
| **Rated Motor Current Adjustment Range** | 8…32 A |
| **Thermal Overload Class** | Class 10 - frequency limit: 40…60 Hz - temperature compensation: -25…70 °C conforming to IEC 60947-6-2<br>Class 10 - frequency limit: 40…60 Hz - temperature compensation: -25…70 °C conforming to UL 508 |
| **Tripping Threshold** | 14.2 x Ir +/- 20 % |
| **Phase Failure Sensitivity** | Yes |
| **[Uc] Control Circuit Voltage** | 110...240 V AC<br>110...220 V DC |

## Complementary

| Control Circuit Voltage Limits | 88...264 V for AC circuit 110...240 V in operation |
| --- | --- |
| | 88...242 V for DC circuit 110...220 V in operation |
| | 55 V for AC circuit 110...240 V drop-out |
| | 55 V for DC circuit 110...220 V drop-out |

| Typical Current Consumption | 280 mA at 110...240 V AC I maximum while closing with LUB32 |
| --- | --- |
| | 280 mA at 110...240 V AC I maximum while closing with LUB38 |
| | 280 mA at 110...220 V DC I maximum while closing with LUB32 |
| | 280 mA at 110...220 V DC I maximum while closing with LUB38 |
| | 25 mA at 110...240 V AC I rms sealed with LUB32 |
| | 25 mA at 110...240 V AC I rms sealed with LUB38 |
| | 25 mA at 110...220 V DC I rms sealed with LUB32 |
| | 25 mA at 110...220 V DC I rms sealed with LUB38 |

| Heat Dissipation | 3 W for control circuit with LUB32 |
| --- | --- |
| | 3 W for control circuit with LUB38 |

| Operating Time | 35 ms opening with LUB32 for control circuit |
| --- | --- |
| | 35 ms opening with LUB38 for control circuit |
| | 50 ms closing with LUB32 for control circuit |
| | 50 ms closing with LUB38 for control circuit |

| Reset | Manual reset |
| --- | --- |

| Standards | EN 60947-6-2 |
| --- | --- |
| | IEC 60947-6-2 |
| | UL 60947-4-1, with phase barrier |
| | CSA C22.2 No 60947-4-1, with phase barrier |

| Product Certifications | CE |
| --- | --- |
| | UL |
| | CSA |
| | CCC |
| | EAC |
| | ASEFA |
| | ATEX |
| | Marine |

| [Ui] Rated Insulation Voltage | 690 V conforming to IEC 60947-6-2 |
| --- | --- |
| | 600 V conforming to UL 60947-4-1 |
| | 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 |
| --- | --- |
| | 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 |

| Fixing Mode | Plug-in (front face) |
| --- | --- |

| Width | 45 mm |
| --- | --- |

| Height | 66 mm |
| --- | --- |

| Depth | 60 mm |
| --- | --- |

| Compatibility Code | LUCB |
| --- | --- |

# Environment

| Ip Degree Of Protection | IP20 front panel and wired terminals conforming to IEC 60947-1 |
| --- | --- |
| | IP20 other faces conforming to IEC 60947-1 |
| | IP40 front panel outside connection zone conforming to IEC 60947-1 |

| Protective Treatment | TH conforming to IEC 60068 |
| --- | --- |

| Ambient Air Temperature For Operation | -25…70 °C |
| --- | --- |

| Ambient Air Temperature For Storage | -40…85 °C |
| --- | --- |

| Operating Altitude | 2000 m |
| --- | --- |

| Fire Resistance | 960 °C parts supporting live components conforming to IEC 60695-2-12 |
| --- | --- |
| | 650 °C conforming to IEC 60695-2-12 |

| Shock Resistance | 10 gn power poles open conforming to IEC 60068-2-27 |
| --- | --- |
| | 15 gn power poles closed conforming to IEC 60068-2-27 |

| Vibration Resistance | 2 gn, 5…300 Hz, power poles open conforming to IEC 60068-2-6 |
|---|---|
| | 4 gn, 5…300 Hz, power poles closed conforming to IEC 60068-2-6 |
| Resistance To Electrostatic Discharge | 8 kV level 3 in open air conforming to IEC 61000-4-2 |
| | 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 |
| | 2 kV common mode conforming to IEC 60947-6-2 |
| Resistance To Radiated Fields | 10 V/m 3 conforming to IEC 61000-4-3 |
| Resistance To Fast Transients | 2 kV class 3 serial link conforming to IEC 61000-4-4 |
| | 4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4 |
| Immunity To Radioelectric Fields | 10 V conforming to IEC 61000-4-6 |
| Immunity To Microbreaks | 3 ms |
| Immunity To Voltage Dips | 70 % / 500 ms conforming to IEC 61000-4-11 |

## Packing Units

| Unit Type Of Package 1 | PCE |
|---|---|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.0 cm |
| Package 1 Width | 8.1 cm |
| Package 1 Length | 8.7 cm |
| Package 1 Weight | 125.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 23 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.193 kg |

## Contractual warranty

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

# Sustainability

**Green Premium<sup>TM</sup> 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

✓ Mercury Free

✓ Rohs Exemption Information     Yes

✓ Pvc Free

✓ Halogen Free Plastic Parts Product

## Certifications & Standards

| | |
|---|---|
| **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 |