# **Product datasheet**

Specification





# advanced control unit LUCC - class 10 - 1.25...5 A - 24 V AC

LUCC05B

#### Main

| Main                                 |  |
|--------------------------------------|--|
| Range                                | TeSys  |
| Range Of Product                     | TeSys Ultra  |
| Product Name                         | TeSys Ultra  |
| Device Short Name                    | LUCC   |
| 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              | Protection against overload and short-circuit<br>Manual reset<br>Earth fault protection<br>Protection against phase failure and phase imbalance  |
| Product Compatibility                | Power base LUB12 Power base LUB32 Power base LUB38 Power base LUB120 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B12B Reversing contactor breaker LU2B32B                   |
| [Ue] Rated Operational Voltage       | 690 V AC   |
| Network Frequency                    | 4060 Hz  |
| Load Type                            | Single-phase motor   |
| Utilisation Category                 | AC-44<br>AC-43<br>AC-41  |
| Motor Power Kw                       | 0.55 kW at 400440 V AC 50/60 Hz for 1 phase motors   |
| Rated Motor Current Adjustment Range | 1.255 A  |
| Thermal Overload Class               | Class 10 - frequency limit: 4060 Hz - temperature compensation: -2555 °C conforming to IEC 60947-6-2 Class 10 - frequency limit: 4060 Hz - temperature compensation: -2555 °C conforming to UL 508 |
| Tripping Threshold                   | 14.2 x Ir +/- 20 %   |
| [Uc] Control Circuit Voltage         | 24 V AC  |

#### Complementary

Control Circuit Voltage Limits 20...26.5 V for AC circuit 24 V in operation

14.5 V for AC circuit 24 V drop-out

| Typical Current Consumption               | 140 mA at 24 V AC I maximum while closing with LUB12 220 mA at 24 V AC I maximum while closing with LUB32 220 mA at 24 V AC I maximum while closing with LUB38 70 mA at 24 V AC I ms sealed with LUB12 90 mA at 24 V AC I ms sealed with LUB32 90 mA at 24 V AC I ms sealed with LUB38 |  |
|---|--|--|
| Heat Dissipation                          | 2 W for control circuit with LUB12<br>3 W for control circuit with LUB32<br>3 W for control circuit with LUB38   |  |
| Operating Time                            | 35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 70 ms closing with LUB12 for control circuit 70 ms closing with LUB32 for control circuit 70 ms closing with LUB38 for control circuit          |  |
| Reset                                     | Manual reset   |  |
| 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  |  |
| Product Certifications                    | CE UL CSA CCC EAC ASEFA ATEX Marine  |  |
| [Ui] Rated Insulation Voltage             | 690 V conforming to IEC 60947-6-2<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<br>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                        | LUCC   |  |
| 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<br>Operation  | -2570 °C   |  |
| Ambient Air Temperature For<br>Storage    | -4085 °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<br>15 gn power poles closed conforming to IEC 60068-2-27   |  |
| Vibration Resistance                      | 2 gn, 5300 Hz, power poles open conforming to IEC 60068-2-6<br>4 gn, 5300 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<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 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<br>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             | 5.5 cm   |
| Package 1 Width              | 8.5 cm   |
| Package 1 Length             | 10.2 cm  |
| Package 1 Weight             | 111.0 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             | 2.896 kg |

## **Contractual warranty**

Warranty 12 months

## Sustainability Green Premium\*

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

| <b>Ø</b> | Mercury Free                       |
|----------|------------------------------------|
| <b>Ø</b> | Rohs Exemption Information Yes     |
| <b>Ø</b> | Pvc Free                           |
| <b>Ø</b> | Halogen Free Plastic Parts Product |

## **Certifications & Standards**

| Reach Regulation         | REACh Declaration   |
|--------------------------|---|
| Eu Rohs Directive        | Compliant with Exemptions   |
| China Rohs Regulation    | China RoHS declaration  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   |

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