

# Product datasheet

Specifications



Advanced control unit. TeSys U. 0.15-0.6A. 3P motors. protection & diagnostic. class 10. coil 110-240V AC/DC

LUCBX6FU

**Price: 2,021.39 ZAR**

## 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 phase failure and phase imbalance<br>Protection against overload and short-circuit<br>Earth fault protection                                                                                                 |
| Product Compatibility                | Power base LUB12<br>Power base LUB32<br>Power base LUB38<br>Power base LUB120<br>Power base LUB320<br>Power base LUB380<br>Reversing contactor breaker LU2B12FU<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                       | 0.09 kW at 400...440 V AC 50/60 Hz                                                                                                                                                                                                              |
| Rated Motor Current Adjustment Range | 0.15...0.6 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 I <sub>r</sub> +/- 20 %                                                                                                                                                                                                                  |
| Phase Failure Sensitivity            | Yes                                                                                                                                                                                                                                             |
| [Uc] Control Circuit Voltage         | 110...240 V AC<br>110...220 V DC                                                                                                                                                                                                                |

## Complementary

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control Circuit Voltage Limits</b>                    | 88...264 V for AC circuit 110...240 V in operation<br>88...242 V for DC circuit 110...220 V in operation<br>55 V for AC circuit 110...240 V drop-out<br>55 V for DC circuit 110...220 V drop-out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Typical Current Consumption</b>                       | 280 mA at 110...240 V AC I maximum while closing with LUB12<br>280 mA at 110...240 V AC I maximum while closing with LUB32<br>280 mA at 110...240 V AC I maximum while closing with LUB38<br>280 mA at 110...220 V DC I maximum while closing with LUB12<br>280 mA at 110...220 V DC I maximum while closing with LUB32<br>280 mA at 110...220 V DC I maximum while closing with LUB38<br>35 mA at 110...240 V AC I rms sealed with LUB12<br>25 mA at 110...240 V AC I rms sealed with LUB32<br>25 mA at 110...240 V AC I rms sealed with LUB38<br>35 mA at 110...220 V DC I rms sealed with LUB12<br>25 mA at 110...220 V DC I rms sealed with LUB32<br>25 mA at 110...220 V DC I rms sealed with LUB38 |
| <b>Heat Dissipation</b>                                  | 2 W for control circuit with LUB12<br>3 W for control circuit with LUB32<br>3 W for control circuit with LUB38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Operating Time</b>                                    | 35 ms opening with LUB12 for control circuit<br>35 ms opening with LUB32 for control circuit<br>35 ms opening with LUB38 for control circuit<br>50 ms closing with LUB12 for control circuit<br>50 ms closing with LUB32 for control circuit<br>50 ms closing with LUB38 for control circuit                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Reset</b>                                             | Manual reset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Standards</b>                                         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Certifications</b>                            | CE<br>UL<br>CSA<br>CCC<br>EAC<br>ASEFA<br>ATEX<br>Marine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>[U<sub>i</sub>] Rated Insulation Voltage</b>          | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[U<sub>imp</sub>] Rated Impulse Withstand Voltage</b> | 6 kV conforming to IEC 60947-6-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Safe Separation Of Circuit</b>                        | 400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1<br>400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Fixing Mode</b>                                       | Plug-in (front face)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Width</b>                                             | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Height</b>                                            | 66 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Depth</b>                                             | 60 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Compatibility Code</b>                                | LUCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Environment

|                                              |                                                                                                                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ip Degree Of Protection</b>               | IP20 front panel and wired terminals conforming to IEC 60947-1<br>IP20 other faces conforming to IEC 60947-1<br>IP40 front panel outside connection zone conforming to IEC 60947-1 |
| <b>Protective Treatment</b>                  | TH conforming to IEC 60068                                                                                                                                                         |
| <b>Ambient Air Temperature For Operation</b> | -25...70 °C                                                                                                                                                                        |
| <b>Ambient Air Temperature For Storage</b>   | -40...85 °C                                                                                                                                                                        |
| <b>Operating Altitude</b>                    | 2000 m                                                                                                                                                                             |

|                                              |                                                                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Resistance</b>                       | 960 °C parts supporting live components conforming to IEC 60695-2-12<br>650 °C conforming to IEC 60695-2-12                          |
| <b>Shock Resistance</b>                      | 10 gn power poles open conforming to IEC 60068-2-27<br>15 gn power poles closed conforming to IEC 60068-2-27                         |
| <b>Vibration Resistance</b>                  | 2 gn, 5...300 Hz, power poles open conforming to IEC 60068-2-6<br>4 gn, 5...300 Hz, power poles closed conforming to IEC 60068-2-6   |
| <b>Resistance To Electrostatic Discharge</b> | 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                          |
| <b>Non-Dissipating Shock Wave</b>            | 1 kV serial mode conforming to IEC 60947-6-2<br>2 kV common mode conforming to IEC 60947-6-2                                         |
| <b>Resistance To Radiated Fields</b>         | 10 V/m 3 conforming to IEC 61000-4-3                                                                                                 |
| <b>Resistance To Fast Transients</b>         | 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 |
| <b>Immunity To Radioelectric Fields</b>      | 10 V conforming to IEC 61000-4-6                                                                                                     |
| <b>Immunity To Microbreaks</b>               | 3 ms                                                                                                                                 |
| <b>Immunity To Voltage Dips</b>              | 70 % / 500 ms conforming to IEC 61000-4-11                                                                                           |

## Packing Units

|                                     |          |
|-------------------------------------|----------|
| <b>Unit Type Of Package 1</b>       | PCE      |
| <b>Number Of Units In Package 1</b> | 1        |
| <b>Package 1 Height</b>             | 5.2 cm   |
| <b>Package 1 Width</b>              | 8.5 cm   |
| <b>Package 1 Length</b>             | 10.3 cm  |
| <b>Package 1 Weight</b>             | 128.0 g  |
| <b>Unit Type Of Package 2</b>       | S01      |
| <b>Number Of Units In Package 2</b> | 9        |
| <b>Package 2 Height</b>             | 15.0 cm  |
| <b>Package 2 Width</b>              | 15.0 cm  |
| <b>Package 2 Length</b>             | 40.0 cm  |
| <b>Package 2 Weight</b>             | 1.306 kg |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 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<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

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](#)

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](#)