

# Product datasheet

Specifications



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

LUCB32FU

Price: 2,522.34 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 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

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

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

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control Circuit Voltage Limits         | 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                                                                                                                                                                                                                                                                     |
| Typical Current Consumption            | 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 LUB32<br>280 mA at 110...220 V DC I maximum while closing with LUB38<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>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 |
| Heat Dissipation                       | 3 W for control circuit with LUB32<br>3 W for control circuit with LUB38                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating Time                         | 35 ms opening with LUB32 for control circuit<br>35 ms opening with LUB38 for control circuit<br>50 ms closing with LUB32 for control circuit<br>50 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<br>UL<br>CSA<br>CCC<br>EAC<br>ASEFA<br>ATEX<br>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 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<br>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<br>IP20 other faces conforming to IEC 60947-1<br>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<br>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, 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   |
| 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             | 5.0 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™ 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 >](#)

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Transparency   RoHS/REACH

Well-being performance

|   |                                    |     |
|---|------------------------------------|-----|
| ✓ | Mercury Free                       |     |
| ✓ | Rohs Exemption Information         | Yes |
| ✓ | Pvc Free                           |     |
| ✓ | Halogen Free Plastic Parts Product |     |

Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |