



Price\* : 68.69 GBP



## Main

|                                     |   |
|-------------------------------------|---|
| Range                               | TeSys   |
| Product name                        | TeSys U   |
| Device short name                   | LUCB  |
| Product or component type           | Advanced control unit   |
| Product specific application        | Basic protection and advanced functions, communication  |
| Product compatibility               | LUFW10<br>LUF00<br>LUFDA01<br>LUFDH11<br>LUFV2<br>LUFDA10<br>LUFN..   |
| Utilisation category                | AC-41<br>AC-44<br>AC-43   |
| Motor power kW                      | 3 kW at 690 V AC 50/60 Hz<br>1.5 kW at 400...440 V AC 50/60 Hz<br>2.2 kW at 500 V AC 50/60 Hz   |
| Thermal protection adjustment range | 1.25...5 A  |
| [Uc] control circuit voltage        | 110...220 V DC<br>110...240 V AC  |
| 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 |

## Complementary

|                         |   |
|-------------------------|---|
| Main function available | Protection against overload and short-circuit<br>Earth fault protection<br>Protection against phase failure and phase imbalance<br>Manual reset |
| Mounting mode           | Plug-in   |

|   |  |
|---|--|
| Mounting location                                   | Front side   |
| Control circuit voltage limits                      | 88...242 V for DC circuit 110...220 V in operation<br>88...264 V for AC circuit 110...240 V in operation   |
| Typical current consumption                         | 25 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>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...240 V AC I maximum while closing with LUB12<br>280 mA at 110...240 V AC I maximum while closing with LUB32<br>35 mA at 110...220 V DC I rms sealed with LUB12<br>35 mA at 110...220 V DC I rms sealed with LUB32 |
| Operating time                                      | 35 ms opening with LUB12 for control circuit<br>35 ms opening with LUB32 for control circuit<br>50 ms closing with LUB12 for control circuit<br>50 ms closing with LUB32 for control circuit   |
| Load type   | 3-phase motor - cooling: self-cooled   |
| Tripping threshold                                  | 14.2 x I <sub>r</sub> +/- 20 %   |
| [U <sub>i</sub> ] rated insulation voltage          | 600 V conforming to UL 508<br>690 V conforming to IEC 60947-1<br>600 V conforming to CSA C22.2 No 14   |
| [U <sub>imp</sub> ] rated impulse withstand voltage | 6 kV 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  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Heat dissipation                      | 2 W for control circuit with LUB12<br>3 W for control circuit with LUB32   |
| Immunity to microbreaks               | 3 ms   |
| Immunity to voltage dips              | 70 % / 500 ms conforming to IEC 61000-4-11   |
| Standards                             | UL 508 type E, with phase barrier<br>EN 60947-6-2<br>IEC 60947-6-2<br>CSA C22.2 No 14 type E   |
| Product certifications                | GOST<br>ATEX<br>LROS (Lloyds register of shipping)<br>ABS<br>CCC<br>ASEFA<br>DNV<br>UL<br>GL<br>CSA<br>BV  |
| 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   |

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

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| 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>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

### Contractual warranty

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