



Price\* : 51.50 GBP



## Main

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| Range                               | TeSys                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product name                        | TeSys U                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Device short name                   | LUCA                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product or component type           | Standard control unit                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product specific application        | Basic protection requirements for motor starters: overload and short-circuit                                                                                                                                                                                                                                                                                                                                                           |
| Product compatibility               | LUFC00<br>LUFN..                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Utilisation category                | AC-43<br>AC-41<br>AC-44                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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        | 24 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<br>Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to IEC 60947-6-2<br>Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to UL 508 |

## Complementary

|                                |                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Main function available        | Manual reset<br>Protection against overload and short-circuit<br>Earth fault protection<br>Protection against phase failure and phase imbalance |
| Mounting mode                  | Plug-in                                                                                                                                         |
| Mounting location              | Front side                                                                                                                                      |
| Control circuit voltage limits | 20...26.5 V for AC circuit 24 V in operation                                                                                                    |
| Typical current consumption    | 140 mA at 24 V AC I maximum while closing with LUB12                                                                                            |

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|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | 220 mA at 24 V AC I maximum while closing with LUB32<br>70 mA at 24 V AC I rms sealed with LUB12<br>90 mA at 24 V AC 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>70 ms closing with LUB12 for control circuit<br>70 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 %                                                                                                                                                               |
| [Ui] 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                                                                                         |
| [Uimp] 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        |
| Product weight                         | 0.135 kg                                                                                                                                                                                     |

## 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                | ATEX<br>ASEFA<br>UL<br>LROS (Lloyds register of shipping)<br>GOST<br>CSA<br>DNV<br>GL<br>BV<br>CCC<br>ABS                                                                          |
| 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                                                                                                                                                   |

## Offer Sustainability

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| Sustainable offer status | Green Premium product |
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| 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

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| Warranty | 18 months |
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