



## Main

|                                     |                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                             |
| Product name                        | TeSys U                                                                                           |
| Device short name                   | LUCL                                                                                              |
| Product or component type           | Magnetic control unit                                                                             |
| Product specific application        | Protection of variable speed drive or soft start/soft stop unit                                   |
| Product compatibility               | LUFC00<br>LUFN..                                                                                  |
| Utilisation category                | AC-41<br>AC-43<br>AC-44                                                                           |
| Motor power kW                      | 15 kW at 690 V AC 50/60 Hz<br>9 kW at 500 V AC 50/60 Hz<br>15 kW at < 400...415 V AC 50/60 Hz     |
| Thermal protection adjustment range | 8...32 A                                                                                          |
| [Uc] control circuit voltage        | 24 V AC                                                                                           |
| User language                       | English - setting factory setting<br>English, French, German, Italian, Spanish - setting settable |

## Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function available             | Manual reset<br>Short-circuit protection                                                                                                                                                                                                                                                                                                                                                     |
| Mounting mode                  | Plug-in                                                                                                                                                                                                                                                                                                                                                                                      |
| Mounting location              | Front side                                                                                                                                                                                                                                                                                                                                                                                   |
| Control circuit voltage limits | 14.5 V for AC circuit 24 V drop-out<br>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<br>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>50 ms closing with LUB12 for control circuit<br>50 ms closing with LUB32 for control circuit<br>60 ms closing with LUB12 for control circuit<br>60 ms closing 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 - setting factory setting<br>Single-phase motor                                                                                                                                                                                                                                                                                                         |
| Tripping threshold             | 14.2 x Ir +/- 20 %                                                                                                                                                                                                                                                                                                                                                                           |
| Reset                          | Automatic reset - setting: setting range<br>Manual - setting: factory setting<br>Manual - setting: setting range<br>Remote reset - setting: setting range                                                                                                                                                                                                                                    |
| Time before reset              | 120 s - reset manual - setting factory setting<br>1...1000 s - reset manual or automatic reset - setting settable                                                                                                                                                                                                                                                                            |
| Information displayed          | Average current - setting factory setting<br>Average current - setting settable<br>Cause of last 5 faults - setting settable<br>Current in phase - setting settable<br>Earth leakage current - setting settable<br>Phase imbalance - setting settable<br>Thermal state of motor - setting settable                                                                                           |

|                                        |                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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 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 |
| 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                             | EN 60947-6-2<br>IEC 60947-6-2<br>UL 508 type E with phase barrier<br>CSA C22.2 No 14 type E                                                                                        |
| product certifications                | CE                                                                                                                                                                                 |
| 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                       | 650 °C conforming to IEC 60695-2-12<br>960 °C parts supporting live components 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

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                 |
| RoHS (date code: YYWW)           | Compliant - since 1015 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available                                                             |
| Product end of life instructions | Available                                                             |