



### 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/stop unit  |
| Product compatibility               | LUFC00<br>LUFN..  |
| Utilisation category                | AC-41<br>AC-43<br>AC-44   |
| Motor power kW                      | 9 kW at 690 V AC 50/60 Hz<br>5.5 kW at 500 V AC 50/60 Hz<br>5.5 kW at < 400...415 V AC 50/60 Hz   |
| Thermal protection adjustment range | 3...12 A  |
| [Uc] control circuit voltage        | 48 V AC<br>48...72 V DC   |
| User language                       | English - setting factory setting<br>English, French, German, Italian, Spanish - setting settable |

### Complementary

|                                |  |
|--------------------------------|--|
| Main function available        | Manual reset<br>Short-circuit protection   |
| Mounting mode                  | Plug-in  |
| Mounting location              | Front side   |
| Control circuit voltage limits | 29 V for AC circuit 48...72 V drop-out<br>29 V for DC circuit 48...72 V drop-out<br>38.5...72 V for AC circuit 48...72 V in operation<br>38.5...93 V for DC circuit 48...72 V in operation   |
| Typical current consumption    | 280 mA at 48...72 V AC I maximum while closing with LUB12<br>280 mA at 48...72 V AC I maximum while closing with LUB32<br>280 mA at 48...72 V DC I maximum while closing with LUB12<br>280 mA at 48...72 V DC I maximum while closing with LUB32 |

|   |  |
|---|--|
|   | 35 mA at 48...72 V AC I rms sealed with LUB12<br>35 mA at 48...72 V DC I rms sealed with LUB12<br>45 mA at 48...72 V AC I rms sealed with LUB32<br>45 mA at 48...72 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<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 I <sub>r</sub> +/- 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   |
| [U <sub>i</sub> ] rated insulation voltage          | 600 V conforming to CSA C22.2 No 14<br>600 V conforming to UL 508<br>690 V conforming to IEC 60947-1   |
| [U <sub>imp</sub> ] 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                             | CSA C22.2 No 14 type E<br>EN 60947-6-2<br>IEC 60947-6-2<br>UL 508 type E with phase barrier  |
| 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<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product Environmental Profile</a>  |
| Product end of life instructions | Available<br><a href="#">End of Life Information</a>  |

### Contractual warranty

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