



Main

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range | TeSys |
| Product name | TeSys U |
| Device short name | LUCU |
| Product or component type | Advanced control unit |
| Product specific application | Basic protection and advanced functions, communication |
| Product compatibility | ASILUFC5 ASILUFC51 LUF00 LUFDA01 LUFDA10 LUFDA11 LUFN. LUFV2 LUFW10 LULC031 LULC033 LULC07 LULC08 LULC09 LULC15 |
| Utilisation category | AC-41 AC-43 AC-44 |
| Motor power kW | 7.5 kW at 400...440 V AC 50/60 Hz |
| Thermal protection adjustment range | 8...32 A |
| [Uc] control circuit voltage | 24 V DC |
| Overload tripping class | Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...55 °C - conforming to UL 508 Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...55 °C - conforming to IEC 60947-6-2 |

Complementary

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main function available | Earth fault protection Manual reset Protection against overload and short-circuit Protection against phase failure and phase imbalance |
| Mounting mode | Plug-in |
| Mounting location | Front side |
| Control circuit voltage limits | 20...27 V for DC circuit 24 V in operation |
| Typical current consumption | 80 mA at 24 V DC I rms sealed with LUB32 60 mA at 24 V DC I rms sealed with LUB12 220 mA at 24 V DC I maximum while closing with LUB32 130 mA at 24 V DC I maximum while closing with LUB12 |
| Operating time | 70 ms closing with LUB32 for control circuit 70 ms closing with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB12 for control circuit |
| Load type | Single-phase motor |
| Tripping threshold | 14.2 x Ir +/- 20 % |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage | 600 V conforming to CSA C22.2 No 14 690 V conforming to IEC 60947-1 600 V conforming to UL 508 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-6-2 |
| Safe separation of circuit | 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1 |

Environment

| | |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heat dissipation | 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 IEC 60947-6-2 EN 60947-6-2 UL 508 type E with phase barrier |
| Product certifications | ABS ASEFA ATEX BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) UL |
| IP degree of protection | IP40 front panel outside connection zone conforming to IEC 60947-1 IP20 other faces conforming to IEC 60947-1 IP20 front panel and wired terminals 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 60695-2-12 960 °C parts supporting live components conforming to IEC 60695-2-12 |
| Shock resistance | 15 gn power poles closed conforming to IEC 60068-2-27 10 gn power poles open conforming to IEC 60068-2-27 |
| Vibration resistance | 4 gn 5...300 Hz power poles closed conforming to IEC 60068-2-6 2 gn 5...300 Hz power poles open conforming to IEC 60068-2-6 |
| Resistance to electrostatic discharge | 8 kV level 4 on contact conforming to IEC 61000-4-2 8 kV level 3 in open air conforming to IEC 61000-4-2 |
| Resistance to radiated fields | 10 V/m 3 conforming to IEC 61000-4-3 |
| Resistance to fast transients | 4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4 2 kV class 3 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 | Compliant - since 1015 - Schneider Electric declaration of conformity |
| Product environmental profile | Available Download Product Environmental |
| Product end of life instructions | Available Download End Of Life Manual |