



Main

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | ASILUFC5 ASILUFC51 LUFC00 LUFN.. |
| Utilisation category | AC-41 AC-43 AC-44 |
| Motor power kW | 3 kW at 690 V AC 50/60 Hz 1.5 kW at 400...440 V AC 50/60 Hz 2.2 kW at 500 V AC 50/60 Hz |
| Thermal protection adjustment range | 1.25...5 A |
| [Uc] control circuit voltage | 24 V DC |
| Thermal overload class | Class 10 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to IEC 60947-6-2 Class 10 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to UL 508 |

Complementary

| | |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 DC circuit 24 V in operation |
| Typical current consumption | 130 mA at 24 V DC I maximum while closing with LUB12 220 mA at 24 V DC I maximum while closing with LUB32 60 mA at 24 V DC I rms sealed with LUB12 80 mA at 24 V DC I rms sealed with LUB32 |
| Operating time | 35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 70 ms closing with LUB12 control circuit 70 ms closing with LUB32 control circuit |
| Load type | 3-phase motor - cooling: self-cooled |
| Tripping threshold | 14.2 x Ir +/- 20 % |
| [Ui] rated insulation voltage | 600 V conforming to UL 508 690 V conforming to IEC 60947-1 600 V conforming to CSA C22.2 No 14 |
| [Uiimp] 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 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 |
| Product weight | 0.3 lb(US) (0.135 kg) |

Environment

| | |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| heat dissipation | 2 W control circuit with LUB12 3 W 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 IEC 60947-6-2 UL 508 type E with phase barrier CSA C22.2 No 14 type E |
| product certifications | ABS ASEFA ATEX BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) UL |
| IP degree of protection | IP20 front panel and wired terminals conforming to IEC 60947-1 IP20 other faces conforming to IEC 60947-1 IP40 front panel outside connection zone conforming to IEC 60947-1 |
| protective treatment | TH conforming to IEC 60068 |
| ambient air temperature for operation | -13...158 °F (-25...70 °C) |
| ambient air temperature for storage | -40...185 °F (-40...85 °C) |
| operating altitude | 6561.68 ft (2000 m) |
| fire resistance | 1202 °F (650 °C) conforming to IEC 60695-2-12 1760 °F (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 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 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 8 kV level 4 on contact conforming to IEC 61000-4-2 |
| resistance to radiated fields | 9.14 V/yd (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

| | |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Green Premium product | Green Premium product |
| Compliant - since 1015 - Schneider Electric declaration of conformity | Compliant - since 1015 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov |

Contractual warranty

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[LUCA05BL](#)