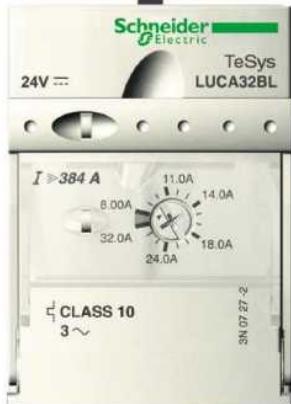


Product data sheet

Characteristics

LUCA1XFU

standard control unit LUCA - class 10 - 0.35...1.4 A - 110...220 V DC/AC



Main

| | |
|-------------------------------------|---|
| Range of product | 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.. LULC031 LULC033 LULC07 LULC08 LULC09 LULC15 |
| Utilisation category | AC-41 AC-43 AC-44 |
| Motor power kW | 0.25 kW at 400...440 V AC 50/60 Hz |
| Thermal protection adjustment range | 0.35...1.4 A |
| [Uc] control circuit voltage | 110...220 V DC 110...240 V AC |
| Overload tripping class | Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to IEC 60947-6-2 Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to UL 508 |

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 | 88...242 V for DC circuit 110...220 V in operation 88...264 V for AC circuit 110...240 V in operation |
| Typical current consumption | 25 mA at 110...240 V AC I rms sealed with LUB12 25 mA at 110...240 V AC I rms sealed with LUB32 280 mA at 110...220 V DC I maximum while closing with LUB12 280 mA at 110...220 V DC I maximum while closing with LUB32 280 mA at 110...240 V AC I maximum while closing with LUB12 280 mA at 110...240 V AC I maximum while closing with LUB32 35 mA at 110...220 V DC I rms sealed with LUB12 35 mA at 110...220 V DC I rms sealed with LUB32 |
| Operating time | 35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 50 ms closing with LUB12 for control circuit 50 ms closing with LUB32 for 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 CSA 22-2 No 14 600 V conforming to UL 508 690 V conforming to IEC 60947-1 |
| [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 60947-1 400 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 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 EN 60947-6-2 IEC 60947-6-2 UL 508 type E with phase barrier |
| Product certifications | ABS ASEFA ATEX BV CCC CSA DNV (Det Norske Veritas) 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 | -25...60 °C with LUCM -25...70 °C with LUCA, LUCB, LUCC, LUCD |
| 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 | 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 |
| Non-dissipating shock wave | 1 kV serial mode conforming to IEC 60947-6-2 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 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 |

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