Product datasheet

Specification





Standard control unit, TeSys Ultra, 3P, 3 to 12A, 690VAC, thermal magnetic protection, class 10, 24VAC coil

LUCA12B

Main

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| Range | TeSys |
| Range Of Product | TeSys Ultra |
| Product Name | TeSys Ultra |
| Device Short Name | LUCA |
| Product Or Component Type | Standard control unit |
| Device Application | Motor control Motor protection |
| Product Specific Application | Basic protection requirements for motor starters: overload and short-circuit |
| Main Function Available | Protection against phase failure and phase imbalance Protection against overload and short-circuit Manual reset Earth fault protection |
| Product Compatibility | Power base LUB12 Power base LUB38 Power base LUB100 Power base LUB120 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B12B Reversing contactor breaker LU2B32B |
| [Ue] Rated Operational Voltage | 690 V AC |
| Network Frequency | 4060 Hz |
| Load Type | 3-phase motor - cooling: self-cooled |
| Utilisation Category | AC-44 AC-41 AC-43 |
| Motor Power Kw | 5.5 kW at 400440 V AC 50/60 Hz 5.5 kW at 500 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz |
| Rated Motor Current Adjustment Range | 312 A |
| Thermal Overload Class | Class 10 - frequency limit: 4060 Hz - temperature compensation: -2570 °C conforming to IEC 60947-6-2 Class 10 - frequency limit: 4060 Hz - temperature compensation: -2570 °C conforming to UL 508 |
| Tripping Threshold | 14.2 x Ir +/- 20 % |
| Phase Failure Sensitivity | Yes |
| [Uc] Control Circuit Voltage | 24 V AC |

Complementary

| for AC circuit 24 V in operation AC circuit 24 V drop-out 24 V AC I maximum while closing with LUB12 24 V AC I maximum while closing with LUB32 24 V AC I maximum while closing with LUB38 4 V AC I ms sealed with LUB12 4 V AC I rms sealed with LUB32 4 V AC I rms sealed with LUB38 4 V AC I rms sealed with LUB38 4 trol circuit with LUB32 4 trol circuit with LUB32 4 trol circuit with LUB32 5 trol circuit with LUB38 5 ining with LUB32 for control circuit 6 ing with LUB38 for control circuit 7 and with LUB32 for control circuit 7 and with LUB32 for control circuit 7 and with LUB38 for control circuit 8 and with LUB38 for control circuit 9 and with LUB38 for |
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| 6-2 -1, with phase barrier |
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| orming to IEC 60947-6-2 orming to UL 60947-4-1 orming to CSA C22.2 No 60947-4-1 |
| ming to IEC 60947-6-2 |
| / between the control and auxiliary circuits conforming to IEC 60947-1 / between the control or auxiliary circuit and the main circuit conforming to 1 |
| nt face) |
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| anel and wired terminals conforming to IEC 60947-1 aces conforming to IEC 60947-1 anel outside connection zone conforming to IEC 60947-1 |
| ing to IEC 60068 |
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| s supporting live components conforming to IEC 60695-2-12 forming to IEC 60695-2-12 |
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| Vibration Resistance | 2 gn, 5300 Hz, power poles open conforming to IEC 60068-2-6 |
|----------------------------------|--|
| | 4 gn, 5300 Hz, power poles closed conforming to IEC 60068-2-6 |
| Resistance To Electrostatic | 8 kV level 3 in open air conforming to IEC 61000-4-2 |
| Discharge | 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 |
| Immunity To Microbreaks | 3 ms |
| Immunity To Voltage Dips | 70 % / 500 ms conforming to IEC 61000-4-11 |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|----------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 10.3 cm |
| Package 1 Width | 5.2 cm |
| Package 1 Length | 8.0 cm |
| Package 1 Weight | 122.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 23 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.065 kg |

Contractual warranty

Warranty 18 months

Sustainability Green Premium*

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

| ② | Mercury Free |
|----------|------------------------------------|
| ② | Rohs Exemption Information Yes |
| ② | Pvc Free |
| ⊘ | Halogen Free Plastic Parts Product |

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |

19 Apr 2024