

Product datasheet

Characteristics

LUCB1XB

Advanced control unit, TeSys U, 0.35-1.4A, 3P motors, protection & diagnostic, class 10, coil 24V AC



Main

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|--------------------------------------|---|
| Range of product | TeSys U |
| Range | TeSys |
| Product name | TeSys U |
| Device short name | LUCB |
| Product or component type | Advanced control unit |
| Device application | Motor control Motor protection |
| Product specific application | Basic protection and advanced functions, communication |
| Main function available | Protection against overload and short-circuit Protection against phase failure and phase imbalance Earth fault protection Manual reset |
| Product compatibility | Power base LUB12 Power base LUB32 Power base LUB38 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 | 40...60 Hz |
| Load type | 3-phase motor - cooling: self-cooled |
| Utilisation category | AC-41 AC-44 AC-43 |
| Motor power kW | 0.25 kW at 400...440 V AC 50/60 Hz |
| Rated motor current adjustment range | 0.35...1.4 A |
| Thermal overload 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

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|---|--------------------------------|
| Tripping threshold | 14.2 x I _r +/- 20 % |
| Phase failure sensitivity | Yes |
| [U _c] control circuit voltage | 24 V AC |

Complementary

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| Control circuit voltage limits | 20...26.5 V for AC circuit 24 V in operation 14.5 V for AC circuit 24 V drop-out |
| Typical current consumption | 140 mA at 24 V AC I maximum while closing with LUB12 220 mA at 24 V AC I maximum while closing with LUB32 220 mA at 24 V AC I maximum while closing with LUB38 70 mA at 24 V AC I rms sealed with LUB12 90 mA at 24 V AC I rms sealed with LUB32 90 mA at 24 V AC I rms sealed with LUB38 |
| Heat dissipation | 2 W for control circuit with LUB12 3 W for control circuit with LUB32 3 W for control circuit with LUB38 |
| Operating time | 35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 70 ms closing with LUB12 for control circuit 70 ms closing with LUB32 for control circuit 70 ms closing with LUB38 for control circuit |
| Reset | Manual reset |
| Standards | EN 60947-6-2 IEC 60947-6-2 UL 60947-4-1, with phase barrier CSA C22.2 No 60947-4-1, with phase barrier |
| Product certifications | CE UL CSA CCC EAC ASEFA ATEX Marine |
| [U _i] rated insulation voltage | 690 V conforming to IEC 60947-6-2 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1 |
| [U _{imp}] rated impulse withstand voltage | IEC 60947-6-2 6 kV |
| 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 |
| Fixing mode | Plug-in (front face) |
| Width | 45 mm |
| Height | 66 mm |
| Depth | 60 mm |
| Compatibility code | LUCB |

Environment

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| 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...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Operating altitude | 2000 m |
| Fire resistance | 960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C 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 |

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| 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 |
| Immunity to microbreaks | 3 ms |
| Immunity to voltage dips | 70 % / 500 ms conforming to IEC 61000-4-11 |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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