

LUCB32ES

advanced control unit LUCB - class 10 - 8...32 A - 48...72 V DC/AC



Main

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| Range | TeSys |
| Product name | TeSys U |
| Device short name | LUCB |
| Product or component type | Advanced control unit |
| Product specific application | Basic protection and advanced functions, communication |
| Product compatibility | L UFC00 L UFDA01 L UFDA10 L UFDH11 L UFN.. L UFV2 L UFW10 |
| Utilisation category | AC-41 AC-43 AC-44 |
| Motor power kW | 15 kW at 400...440 V AC 50/60 Hz 15 kW at 500 V AC 50/60 Hz 18.5 kW at 690 V AC 50/60 Hz |
| Thermal protection adjustment range | 8...32 A |
| [Uc] control circuit voltage | 48 V AC 48...72 V DC |
| 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 |

Complementary

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| 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 | 38.5...72 V for AC circuit 48 V in operation 38.5...93 V for DC circuit 48...72 V in operation |
| Typical current consumption | 280 mA at 48 V AC I maximum while closing with LUB12 280 mA at 48 V AC I maximum while closing with LUB32 280 mA at 48...72 V DC I maximum while closing with LUB12 280 mA at 48...72 V DC I maximum while closing with LUB32 35 mA at 48 V AC I rms sealed with LUB12 35 mA at 48...72 V DC I rms sealed with LUB12 45 mA at 48 V AC I rms sealed with LUB32 45 mA at 48...72 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 60 ms closing with LUB12 for control circuit 60 ms closing with LUB32 for control circuit |
| Load type | 3-phase motor - cooling: self-cooled |
| Tripping threshold | 14.2 x I _r +/- 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 |

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| [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 |

Environment

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| 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 | 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 | -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 | 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 |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1015 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |