

LUCA18B

Standard control unit, TeSys U, 4.5-18A, 3P motors, thermal magnetic protection, class 10, coil 24V AC

Product availability : Non-Stock - Not normally stocked in distribution facility



Main

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| Range of product | TeSys U |
| Range | TeSys |
| Product name | TeSys U |
| 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 | Earth fault protection Protection against overload and short-circuit Manual reset Protection against phase failure and phase imbalance |
| Product compatibility | Power base LUB32 Power base LUB38 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B32B |
| [Ue] rated operational voltage | 690 V AC |
| Network frequency | 40...60 Hz |
| Load type | 3-phase motor self-cooled |
| Utilisation category | AC-44 AC-43 AC-41 |
| Motor power kW | 7.5 kW 400...440 V AC 50/60 Hz 9 kW 500 V AC 50/60 Hz 15 kW 690 V AC 50/60 Hz |
| Rated motor current adjustment range | 4.5...18 A |
| Thermal overload class | Class 10 40...60 Hz -13...158 °F (-25...70 °C) IEC 60947-6-2 |

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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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 AC 24 V in operation 14.5 V AC 24 V drop-out |
| Typical current consumption | 220 mA 24 V AC I maximum while closing with LUB32 220 mA 24 V AC I maximum while closing with LUB38 90 mA 24 V AC I rms sealed with LUB32 90 mA 24 V AC I rms sealed with LUB38 |
| Heat dissipation | 3 W control circuit with LUB32 3 W control circuit with LUB38 |
| Operating time | 35 ms opening with LUB32 control circuit 35 ms opening with LUB38 control circuit 70 ms closing with LUB32 control circuit 70 ms closing with LUB38 control circuit |
| 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 IEC 60947-6-2 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1 |
| [U _{imp}] rated impulse withstand voltage | 6 kV IEC 60947-6-2 |
| Safe separation of circuit | 400 V SELV between the control and auxiliary circuits IEC 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 |
| Fixing mode | Plug-in front face) |
| Width | 1.77 in (45 mm) |
| Height | 2.60 in (66 mm) |
| Depth | 2.36 in (60 mm) |
| Net Weight | 0.30 lb(US) (0.135 kg) |
| Compatibility code | LUCA |

Environment

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| IP degree of protection | IP20 front panel and wired terminals IEC 60947-1 IP20 other faces IEC 60947-1 IP40 front panel outside connection zone IEC 60947-1 |
| Protective treatment | TH IEC 60068 |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...185 °F (-40...85 °C) |
| Operating altitude | 2000 m |
| Fire resistance | 1760 °F (960 °C) parts supporting live components IEC 60695-2-12 1202 °F (650 °C) IEC 60695-2-12 |
| Shock resistance | 10 gn power poles open IEC 60068-2-27 15 gn power poles closed IEC 60068-2-27 |
| Vibration resistance | 2 gn 5...300 Hz power poles open IEC 60068-2-6 4 gn 5...300 Hz power poles closed IEC 60068-2-6 |
| Resistance to electrostatic discharge | 8 kV 3 in open air IEC 61000-4-2 8 kV 4 on contact IEC 61000-4-2 |
| Non-dissipating shock wave | 1 kV serial mode IEC 60947-6-2 2 kV common mode IEC 60947-6-2 |

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| Resistance to radiated fields | 9.14 V/m (10 V/m) 3 IEC 61000-4-3 |
| Resistance to fast transients | 2 kV 3 serial link IEC 61000-4-4 4 kV 4 all circuits except for serial link IEC 61000-4-4 |
| Immunity to radioelectric fields | 10 V IEC 61000-4-6 |
| Immunity to microbreaks | 3 ms |
| Immunity to voltage dips | 70 % / 500 ms IEC 61000-4-11 |

Ordering and shipping details

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| Category | 22397 - TESYS U - CNTRL MOD(LUCA,LUCD) |
| Discount Schedule | I11 |
| GTIN | 00785901221920 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 1 lb(US) (0.45 kg) |
| Returnability | No |
| Country of origin | FR |

Packing Units

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|------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.17 in (5.5 cm) |
| Package 1 width | 3.15 in (8 cm) |
| Package 1 Length | 3.94 in (10 cm) |
| Package 2 Weight | 6.78 lb(US) (3.074 kg) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| 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. |
| PVC free | Yes |
| Halogen content performance | Halogen free plastic parts product |

Contractual warranty

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| Warranty | 18 months |
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