

LUCD12FU

Advanced control unit, TeSys Ultra, 3A to 12A,
3P motors, protection & diagnostic, class 20,
coil 110-240VAC/DC



Main

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|--------------------------------------|---|
| Range | TeSys |
| Range of Product | TeSys Ultra |
| Product name | TeSys Ultra |
| Device short name | LUCD |
| 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 phase failure and phase imbalance Manual reset Earth fault protection Protection against overload and short-circuit |
| Product compatibility | Power base LUB12 Power base LUB32 Power base LUB38 Power base LUB120 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B12FU Reversing contactor breaker LU2B32FU Reversing contactor breaker LU2B38FU |
| [Ue] rated operational voltage | 690 V AC |
| Network frequency | 40...60 Hz |
| Load type | 3-phase motor self-cooled |
| Utilisation category | AC-44 AC-41 AC-43 |
| Motor power kW | 5.5 KW 400...440 V AC 50/60 Hz 5.5 KW 500 V AC 50/60 Hz 9 kW 690 V AC 50/60 Hz |
| Rated motor current adjustment range | 3...12 A |
| Thermal overload class | Class 20 40...60 Hz -13...158 °F (-25...70 °C) IEC 60947-6-2 Class 20 40...60 Hz -13...158 °F (-25...70 °C) UL 508 |
| Tripping threshold | 14.2 x I _r +/- 20 % |
| Phase failure sensitivity | Yes |
| [Uc] control circuit voltage | 110...240 V AC 110...220 V DC |

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Complementary

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| Control circuit voltage limits | 88...264 V AC 110...240 V in operation 88...242 V DC 110...220 V in operation 55 V AC 110...240 V drop-out 55 V DC 110...220 V drop-out |
| Typical current consumption | 280 MA 110...240 V AC I maximum while closing with LUB12 280 MA 110...240 V AC I maximum while closing with LUB32 280 MA 110...240 V AC I maximum while closing with LUB38 280 MA 110...220 V DC I maximum while closing with LUB12 280 MA 110...220 V DC I maximum while closing with LUB32 280 MA 110...220 V DC I maximum while closing with LUB38 35 MA 110...240 V AC I rms sealed with LUB12 25 MA 110...240 V AC I rms sealed with LUB32 25 MA 110...240 V AC I rms sealed with LUB38 35 MA 110...220 V DC I rms sealed with LUB12 25 MA 110...220 V DC I rms sealed with LUB32 25 mA 110...220 V DC I rms sealed with LUB38 |
| Heat dissipation | 2 W control circuit with LUB12 3 W control circuit with LUB32 3 W control circuit with LUB38 |
| Operating time | 35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 35 ms opening with LUB38 control circuit 50 ms closing with LUB12 control circuit 50 ms closing with LUB32 control circuit 50 ms closing with LUB38 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 |
| [Ui] rated insulation voltage | 690 V IEC 60947-6-2 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1 |
| [Uimp] 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) |
| Compatibility code | LUCD |

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 | -13...158 °F (-25...70 °C) |
| Ambient Air Temperature for Storage | -40...185 °F (-40...85 °C) |
| Operating altitude | 6561.68 ft (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 |

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| 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 |
| 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 | 3389110365054 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4.44 oz (126.0 g) |
| Returnability | Yes |
| 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) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 23 |
| Package 2 Weight | 7.13 lb(US) (3.234 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

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 |
| 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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