

LUCA38BL

Standard control unit, TeSys Ultra, 9.5-38A, 3P motors, thermal magnetic protection, class 10, coil 24V DC



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 Earth fault protection Manual reset |
| Product compatibility | Power base LUB38 Power base LUB380 Reversing contactor breaker LU2B38BL |
| [Ue] rated operational voltage | 690 V AC |
| Network frequency | 40...60 Hz |
| Load type | 3-phase motor - cooling: self-cooled |
| Utilisation category | AC-43 |
| Motor power kW | 18.5 KW at 400...440 V AC 50/60 Hz 18.5 KW at 500 V AC 50/60 Hz 22 kW at 690 V AC 50/60 Hz |
| Rated motor current adjustment range | 9.5...38 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 |
| Tripping threshold | 14.2 x Ir +/- 20 % |
| Phase failure sensitivity | Yes |
| [Uc] control circuit voltage | 24 V DC |

Complementary

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| Control circuit voltage limits | 20...27 V for DC circuit 24 V in operation 14.5 V for DC circuit 24 V drop-out |
| Typical current consumption | 220 mA at 24 V DC I maximum while closing with LUB38 80 mA at 24 V DC I rms sealed with LUB38 |
| Heat dissipation | 3 W for control circuit with LUB38 |
| Operating time | 35 ms opening with LUB38 for control circuit 70 ms closing with LUB38 for 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 |

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| Product certifications | CE UL CSA CCC (pending) EAC (pending) |
| [Ui] 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 |
| [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 |
| Fixing mode | Plug-in (front face) |
| Width | 45 mm |
| Height | 66 mm |
| Depth | 60 mm |
| Net weight | 0.135 kg |
| Compatibility code | LUCA |

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 |
| 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 |
| 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

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 121.0 g |
| Package 1 Height | 10 cm |
| Package 1 width | 5.3 cm |
| Package 1 Length | 8 cm |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 23 |
| Package 2 Weight | 3.098 kg |
| Package 2 Height | 15 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 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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