

Product data sheet

Specifications



Non reversing power base, TeSys Ultra, 3P, 1NO + 1NC, 32A, 690V

LUB32

Main

| | |
|---|--|
| Range | TeSys |
| Product name | TeSys Ultra |
| Device short name | LUB |
| Product or component type | Non reversing power base |
| Device application | Motor control Motor protection |
| Poles description | 3P |
| Suitability for isolation | Yes |
| [Ue] rated operational voltage | 690 V AC for power circuit |
| Network frequency | 40...60 Hz |
| [ith] conventional free air thermal current | 32 A |
| [Ie] rated operational current | 32 A at <= 440 V 23 A at 500 V 21 A at 690 V |
| Utilisation category | AC-43 AC-44 AC-41 |
| [Ics] rated service breaking capacity | 50 kA at 230 V 50 kA at 440 V 10 kA at 500 V 4 kA at 690 V |
| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | type linked contacts (1 NO + 1 NC) conforming to IEC 60947-4-1 type mirror contact (1 NC) conforming to IEC 60947-1 |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz 24 V DC 48...72 V AC 50/60 Hz 48...72 V DC 110...240 V AC 50/60 Hz 110...220 V DC |

Complementary

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| Typical current consumption | 200 mA at 24 V DC I maximum while closing with LUCM 220 mA at 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 220 mA at 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 25 mA at 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 25 mA at 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 280 mA at 110...220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 110...240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 48...72 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 48...72 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 45 mA at 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 45 mA at 48...72 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 75 mA at 24 V DC I rms sealed with LUCM 80 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 90 mA at 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD |
| Heat dissipation | 3 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.8 W for control circuit with LUCM |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Operating time | 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit 50 ms at >= 72 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 60 ms at 48 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 70 ms at 24 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 65 ms closing with LUCM for control circuit |
| Mechanical durability | 15 Mcycles |
| maximum operating rate | 3600 cyc/h |
| Product certifications | CE UL CSA CCC EAC ASEFA ATEX Marine |
| 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 |
| [Ui] rated insulation voltage | 690 V conforming to IEC 60947-6-2 (pollution degree 3) 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 appendix N 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 appendix N |
| Fixing mode | Clipped (DIN rail) Screw-fixed (plate) |
| Connections - terminals | Control circuit: screw clamp terminals 1 cable(s) 0.34...1.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 0.75...1.5 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 0.75...1.5 mm ² rigid Control circuit: screw clamp terminals 2 cable(s) 0.34...1.5 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 0.75...1.5 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 0.75...1.5 mm ² rigid Power circuit: screw clamp terminals 1 cable(s) 1...10 mm ² rigid Power circuit: screw clamp terminals 1 cable(s) 1...6 mm ² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.5...10 mm ² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1...6 mm ² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1...6 mm ² rigid Power circuit: screw clamp terminals 2 cable(s) 1.5...6 mm ² flexible without cable end |

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|---------------------------|---|
| Tightening torque | Control circuit: 0.8...1.2 N.m flat screwdriver 5 mm Control circuit: 0.8...1.2 N.m Philips no 1 screwdriver 5 mm Power circuit: 1.9...2.5 N.m flat screwdriver 6 mm Power circuit: 1.9...2.5 N.m Philips No 2 screwdriver 6 mm Power circuit: 1.9...2.5 N.m pozidriv No 2 screwdriver 6 mm |
| Width | 45 mm |
| Height | 154 mm |
| Depth | 126 mm |
| Product weight | 0.9 kg |
| Compatibility code | LUB |

Environment

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| IP degree of protection | IP20 conforming to IEC 60947-1 (front panel and wired terminals) IP20 conforming to IEC 60947-1 (other faces) IP40 conforming to IEC 60947-1 (front panel outside connection zone) |
| Protective treatment | TH conforming to IEC 60068 |
| Ambient air temperature for operation | -25...60 °C with LUCM -25...70 °C with LUCA, LUCB, LUCC, LUCD |
| Ambient air temperature for storage | -40...85 °C |
| Fire resistance | 960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C conforming to IEC 60695-2-12 |
| Operating altitude | 2000 m |
| 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 (f= 5...300 Hz) power poles open conforming to IEC 60068-2-27 4 gn (f= 5...300 Hz) power poles closed conforming to IEC 60068-2-27 |
| 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 24...240 V AC conforming to IEC 60947-6-2 1 kV serial mode 48...220 V DC conforming to IEC 60947-6-2 2 kV common mode 24...240 V AC conforming to IEC 60947-6-2 2 kV common mode 48...220 V DC conforming to IEC 60947-6-2 |
| 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 |
| Resistance to radiated fields | 10 V/m 3 conforming to IEC 61000-4-3 |
| Immunity to radioelectric fields | 10 V conforming to IEC 61000-4-6 |
| Immunity to microbreaks | 3 ms for control circuit |
| 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 Height | 5.500 cm |
| Package 1 Width | 13.800 cm |
| Package 1 Length | 16.900 cm |
| Package 1 Weight | 847.000 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 10 |

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|------------------------------|------------|
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 8.740 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 160 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 147.840 kg |



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint **29**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant**

SCIP Number **61f5a085-dfde-4214-b2cf-ba3cf0c33b4**

Halogen-free status **Product contains halogen above thresholds**

PVC free **Yes**

Use Again

Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back **No**

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins