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| Commercial Status | Commercialised |
| Range of product | TeSys U |
| Device short name | LUB |
| Product or component type | Non reversing power base |
| Poles description | 3P |
| Suitability for isolation | Yes |
| [Ith] conventional free air thermal current | 32 A |
| Utilisation category | AC-41 AC-43 AC-44 |
| [Uc] control circuit voltage | 48...72 V DC 48 V AC 50/60 Hz 24 V DC 24 V AC 50/60 Hz 110...240 V AC 50/60 Hz 110...220 V DC |

Complementary

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| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 Type linked contacts (1 NO + 1 NC) conforming to IEC 60947-4-1 |
| [Ue] rated operational voltage | 690 V 500 V 440 V 230 V |
| Network frequency | 40...60 Hz |
| [Ie] rated operational current | 32 A at <= 440 V 23 A at 500 V 21 A at 690 V |
| [Ics] rated service breaking capacity | 50 kA 440 V 50 kA 230 V 4 kA 690 V 10 kA 500 V |
| Typical current consumption | 90 mA at 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 80 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 75 mA at 24 V DC I rms sealed with LUCM 45 mA at 48...72 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 45 mA at 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 280 mA at 48...72 V DC 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 110...240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 110...220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 25 mA at 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 25 mA at 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 220 mA at 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 220 mA at 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 200 mA at 24 V DC I maximum while closing with LUCM |
| Safety reliability level | 20000000 cycles 1369863 cycles |

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| Operating time | 70 ms at 24 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 65 ms closing with LUCM for control circuit 60 ms at 48 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 50 ms at ≥ 72 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit |
| Mechanical durability | 15000000 cycles |
| Operating rate | 60 cyc/mn |
| [Ui] rated insulation voltage | 600 V conforming to CSA C22.2 No 14 690 V conforming to IEC 60947-1 3 600 V conforming to UL 508 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-6-2 |
| Safe separation of circuit | 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 appendix N 400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1 appendix N |
| Connections - terminals | Power circuit: screw clamp terminals 2 cable 1.5...6 mm ² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable 1...6 mm ² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 2 cable 1...6 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 2.5...10 mm ² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable 1...6 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 1...10 mm ² - cable stiffness: rigid - without cable end Control circuit: screw clamp terminals 2 cable 0.75...1.5 mm ² - cable stiffness: rigid - without cable end Control circuit: screw clamp terminals 2 cable 0.75...1.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 0.34...1.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable 0.75...1.5 mm ² - cable stiffness: rigid - without cable end Control circuit: screw clamp terminals 1 cable 0.75...1.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 0.34...1.5 mm ² - cable stiffness: flexible - with cable end |
| Tightening torque | Power circuit: 1.9...2.5 N.m - with screwdriver 6 mm Philips No 2 Power circuit: 1.9...2.5 N.m - with screwdriver 6 mm flat Control circuit: 0.8...1.2 N.m - with screwdriver 5 mm Philips no 1 Control circuit: 0.8...1.2 N.m - with screwdriver 5 mm flat |
| Width | 45 mm |
| Height | 145 mm |
| Depth | 126 mm |
| Product weight | 0.9 kg |

Environment

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| Heat dissipation | 1.8 W for control circuit with LUCM 3 W for control circuit with LUCA, LUCB, LUCC, LUCD |
| Immunity to microbreaks | 3 ms |
| Immunity to voltage dips | 70 % 500 ms conforming to IEC 61000-4-11 |
| Product certifications | ABS ASEFA ATEX BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) UL |
| Standards | CSA C22.2 No 14 type E UL 508 type E with phase barrier IEC 60947-6-2 EN 60947-6-2 |
| IP degree of protection | IP40 front panel outside connection zone conforming to IEC 60947-1 IP20 other faces conforming to IEC 60947-1 IP20 front panel and wired terminals conforming to IEC 60947-1 |

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| Protective treatment | TH conforming to IEC 60068 |
| Ambient air temperature for operation | -25...70 °C with LUCA, LUCB, LUCC, LUCD -25...60 °C with LUCM |
| 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 | 15 gn power poles closed conforming to IEC 60068-2-27 10 gn power poles open conforming to IEC 60068-2-27 |
| Vibration resistance | 4 gn 5...300 Hz power poles closed conforming to IEC 60068-2-27 2 gn 5...300 Hz power poles open conforming to IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV level 4 on contact conforming to IEC 61000-4-2 8 kV level 3 in open air conforming to IEC 61000-4-2 |
| Resistance to radiated fields | 10 V/m 3 conforming to IEC 61000-4-3 |
| Resistance to fast transients | 4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4 2 kV class 3 serial link conforming to IEC 61000-4-4 |
| Non-dissipating shock wave | 2 kV common 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 1 kV serial mode 48...220 V DC conforming to IEC 60947-6-2 1 kV serial mode 24...240 V AC conforming to IEC 60947-6-2 |
| Immunity to radioelectric fields | 10 V conforming to IEC 61000-4-6 |