

LU2B32BL

power base - TeSys U - 32 A - 24 V DC screw
clamps control



Main

| | |
|--|-------------------------|
| Range of product | TeSys U |
| Range | TeSys |
| Product name | TeSys U |
| Device short name | LU2B |
| Product or component type | Reversing power base |
| Poles description | 3P |
| Suitability for isolation | Yes |
| [I _{th}] conventional free air thermal current | 32 A |
| Utilisation category | AC-41 AC-44 AC-43 |
| Control circuit voltage | 24 V DC |

Complementary

| | |
|--|---|
| 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) state of the power conforming to draft IEC 60947-1 |
| [U _e] rated operational voltage | 230 V 500 V 440 V 690 V |
| Network frequency | 40...60 Hz |
| [I _e] rated operational current | 32 A at ≤ 440 V 21 A at 690 V 23 A at 500 V |
| [I _{cs}] rated service breaking capacity | 10 kA 500 V 50 kA 230 V 4 kA 690 V 50 kA 440 V |
| Control circuit voltage limits | 20...27 V 24 V DC in operation |

| | |
|--|--|
| | 14.5 V 24 V DC drop-out |
| Typical current consumption | 120 mA at 24 V DC I rms sealed 120 mA at 24 V DC I maximum while closing |
| Duration of inrush phase | 15 ms for DC network |
| Safety reliability level | B10d 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| Operating time | 75 ms closing with LUCM for control circuit 150 ms with change of direction for power circuit 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit 70 ms closing with LUCA, LUCB, LUCC, LUCD for control circuit 75 ms without change of direction for power circuit |
| Mechanical durability | 15000000 cycles |
| Operating rate | 60 cyc/mn |
| [Ui] rated insulation voltage | 690 V conforming to IEC 60947-1 3 600 V conforming to CSA C22.2 No 14 600 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 | Control circuit : screw clamp terminals 2 cable 0.75...1.5 mm ² - cable stiffness: flexible - 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 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 Control circuit : screw clamp terminals 1 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: rigid - without cable end Control circuit : screw clamp terminals 1 cable 0.34...1.5 mm ² - cable stiffness: flexible - with 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 2.5...10 mm ² - cable stiffness: flexible - 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 2 cable 0.34...1.5 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 |
| Tightening torque | Control circuit : 0.8...1.2 N.m - with screwdriver 5 mm flat Power circuit : 1.9...2.5 N.m - with screwdriver 6 mm flat Power circuit : 1.9...2.5 N.m - with screwdriver 6 mm Philips No 2 Control circuit : 0.8...1.2 N.m - with screwdriver 5 mm Philips no 1 |
| Width | 45 mm |
| Height | 224 mm |
| Depth | 126 mm |
| Product weight | 1.27 kg |
| Compatibility code | LU2B |

Environment

| | |
|--------------------------|---|
| Heat dissipation | 3 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.8 W for control circuit with LUCM |
| Immunity to microbreaks | 3 ms |
| Immunity to voltage dips | 70 % 500 ms conforming to IEC 61000-4-11 |
| Product certifications | ATEX CCC BV CSA GL ABS GOST ASEFA LROS (Lloyds register of shipping) DNV UL |

| | |
|---------------------------------------|--|
| Standards | IEC 60947-6-2 CSA C22.2 No 14 type E EN 60947-6-2 UL 508 type E with phase barrier |
| IP degree of protection | IP20 other faces conforming to IEC 60947-1 IP40 front panel outside connection zone conforming to IEC 60947-1 IP20 front panel and wired terminals conforming to IEC 60947-1 |
| 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 5...300 Hz power poles open conforming to IEC 60068-2-27 4 gn 5...300 Hz power poles closed 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 | 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 |
| Non-dissipating shock wave | 0 kV 24 V DC 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 |
| Immunity to radioelectric fields | 10 V conforming to IEC 61000-4-6 |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|