



### Main

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|--|-------------------------|
| Range  | TeSys                   |
| Product name   | TeSys U                 |
| Device short name  | LU2B                    |
| Product or component type                                | Reversing power base    |
| Device application                                       | Motor                   |
| Poles description  | 3P                      |
| Suitability for isolation                                | Yes                     |
| [I <sub>th</sub> ] conventional free air thermal current | 32 A                    |
| Utilisation category                                     | AC-41<br>AC-43<br>AC-44 |
| [U <sub>c</sub> ] 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<br>Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 |
| [U <sub>e</sub> ] rated operational voltage        | 230 V<br>440 V<br>500 V<br>690 V  |
| Network frequency                                  | 40...60 Hz  |
| [I <sub>e</sub> ] rated operational current        | 21 A at 690 V<br>23 A at 500 V<br>32 A at ≤ 440 V   |
| [I <sub>cs</sub> ] rated service breaking capacity | 10 kA 500 V<br>4 kA 690 V<br>50 kA 230 V<br>50 kA 440 V   |
| Control circuit voltage limits                     | 14.5 V 24 V DC drop-out   |

20...27 V 24 V DC in operation

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|--|--|
| Typical current consumption            | 120 mA at 24 V DC I maximum while closing<br>120 mA at 24 V DC I rms sealed  |
| Inrush restraint duration              | 15 ms for DC network   |
| Safety reliability level               | B10d 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1   |
| Operating time                         | 150 ms with change of direction for power circuit<br>35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit<br>70 ms closing with LUCA, LUCB, LUCC, LUCD for control circuit<br>75 ms closing with LUCM for control circuit<br>75 ms without change of direction for power circuit  |
| Mechanical durability                  | 15000000 cycles  |
| Operating rate                         | 60 cyc/mn  |
| [Ui] rated insulation voltage          | 600 V conforming to CSA C22.2 No 14<br>600 V conforming to UL 508<br>690 V conforming to IEC 60947-1 3   |
| [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<br>400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 appendix N  |
| Connections - terminals                | Power circuit : screw clamp terminals 2 cable 1.5...6 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 1 cable 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit : screw clamp terminals 1 cable 0.75...1.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 1 cable 0.75...1.5 mm <sup>2</sup> - cable stiffness: rigid - without cable end<br>Control circuit : screw clamp terminals 2 cable 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit : screw clamp terminals 2 cable 0.75...1.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit : screw clamp terminals 2 cable 0.75...1.5 mm <sup>2</sup> - cable stiffness: rigid - without cable end<br>Power circuit : screw clamp terminals 1 cable 1...10 mm <sup>2</sup> - cable stiffness: rigid - without cable end<br>Power circuit : screw clamp terminals 1 cable 1...6 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : screw clamp terminals 1 cable 2.5...10 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : screw clamp terminals 2 cable 1...6 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : screw clamp terminals 2 cable 1...6 mm <sup>2</sup> - cable stiffness: rigid - without cable end |
| Tightening torque                      | Control circuit : 0.8...1.2 N.m - with screwdriver 5 mm flat<br>Control circuit : 0.8...1.2 N.m - with screwdriver 5 mm Philips no 1<br>Power circuit : 1.9...2.5 N.m - with screwdriver 6 mm flat<br>Power circuit : 1.9...2.5 N.m - with screwdriver 6 mm Philips No 2   |
| Width                                  | 45 mm  |
| Height                                 | 224 mm   |
| Depth                                  | 126 mm   |
| Product weight                         | 1.27 kg  |

## Environment

|                          |   |
|--------------------------|---|
| Heat dissipation         | 3 W for control circuit with LUCA, LUCB, LUCC, LUCD<br>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   | ABS<br>ASEFA<br>ATEX<br>BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>LROS (Lloyds register of shipping)<br>UL |
| Standards                | CSA C22.2 No 14 type E<br>EN 60947-6-2  |

IEC 60947-6-2  
UL 508 type E with phase barrier

|                                       |  |
|---------------------------------------|--|
| IP degree of protection               | IP20 front panel and wired terminals conforming to IEC 60947-1<br>IP20 other faces conforming to IEC 60947-1<br>IP40 front panel outside connection zone conforming to IEC 60947-1 |
| Protective treatment                  | TH conforming to IEC 60068   |
| Ambient air temperature for operation | -25...60 °C with LUCM<br>-25...70 °C with LUCA, LUCB, LUCC, LUCD   |
| Ambient air temperature for storage   | -40...85 °C  |
| Fire resistance                       | 650 °C conforming to IEC 60695-2-12<br>960 °C parts supporting live components conforming to IEC 60695-2-12  |
| Operating altitude                    | 2000 m   |
| Shock resistance                      | 10 gn power poles open conforming to IEC 60068-2-27<br>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<br>4 gn 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<br>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<br>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<br>1 kV serial mode 48...220 V DC conforming to IEC 60947-6-2<br>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   |

### Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0846 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product Environmental Profile</a>  |
| Product end of life instructions | Available<br><a href="#">End of Life Information</a>  |

### Contractual warranty

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