


Product datasheet

Specifications



Reversing power base, TeSys U, 3P, 12A/690V, coil 110-240V AC/DC, without control terminals

LU2BA0FU

 **Discontinued on:** 10 Oct 2020

 **Discontinued**

EAN Code: 3389110363128

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 control Motor protection |
| Product Compatibility | Control unit LUC.X6FU Control unit LUC.1XFU Control unit LUC.05FU Control unit LUC.12FU |
| 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 | 12 A |
| [Ie] Rated Operational Current | 12 A at <= 440 V 12 A at 500 V 9 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 | 110...240 V AC 50/60 Hz 110...220 V DC |
| Control Circuit Voltage Limits | 55 V DC drop-out 55 V AC drop-out 88...242 V DC in operation 88...264 V AC in operation |

Complementary

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| Typical Current Consumption | 1000 mA at 110...220 V DC I maximum while closing 1000 mA at 110...240 V AC I maximum while closing |
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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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| Heat Dissipation | 2 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.7 W for control circuit with LUCM |
| Inrush Restraint Duration | 25 ms AC 50/60 Hz 15 ms DC |
| 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 | 150 ms with change of direction for power circuit 35 ms opening for control circuit 75 ms without change of direction for power circuit 50 ms closing 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 | 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 Control circuit: without connection |
| Tightening Torque | 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 |
| Width | 45 mm |
| Height | 224 mm |
| Depth | 126 mm |
| Net Weight | 1.27 kg |
| Compatibility Code | LU2B |

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 |

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| 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 |
| 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 | 1 kV serial mode conforming to IEC 60947-6-2 2 kV common mode conforming to IEC 60947-6-2 |
| 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 | 25.3 cm |
| Package 1 Width | 5.5 cm |
| Package 1 Length | 15.5 cm |
| Package 1 Weight | 1.321 kg |

Contractual warranty

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| Warranty | 18 months |
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Sustainability



Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

Well-being performance

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|  Mercury Free | |
|  Rohs Exemption Information | Yes |
| Eu Rohs Directive | Compliant EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |