# Product data sheet
## Characteristics

# LU2BA0BL
## Reversing power base, TeSys U, 3P, 12A/690V, coil 24V DC, without control terminals

Product availability : Non-Stock - Not normally stocked in distribution facility

Price* : 473.00 USD

## 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<br>Motor protection |
| Product compatibility | Control unit LUC.X6BL<br>Control unit LUC.1XBL<br>Control unit LUC.05BL<br>Control unit LUC.12BL |
| Poles description | 3P |
| Suitability for isolation | Yes |
| [Ue] rated operational voltage | 690 V AC power circuit |
| Network frequency | 40...60 Hz |
| [Ith] conventional free air thermal current | 12 A |
| [Ie] rated operational current | 12 A <= 440 V<br>12 A 500 V<br>9 A 690 V |
| Utilisation category | AC-43<br>AC-44<br>AC-41 |
| [Ics] rated service breaking capacity | 50 kA 230 V<br>50 kA 440 V<br>10 kA 500 V<br>4 kA 690 V |
| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | Linked contacts 1 NO + 1 NC) IEC 60947-4-1<br>Mirror contact 1 NC) IEC 60947-1 |
| [Uc] control circuit voltage | 24 V DC |
| Control circuit voltage limits | 14.5 V DC drop-out<br>20...27 V DC in operation |

* Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

## Complementary

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| Typical current consumption | 120 mA 24 V DC I maximum while closing<br>120 mA 24 V DC I rms sealed |
| Heat dissipation | 2 W control circuit with LUCA, LUCB, LUCC, LUCD<br>1.7 W control circuit with LUCM |
| Inrush restraint duration | 15 ms DC |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Operating time | 150 ms with change of direction for power circuit<br>75 ms without change of direction for power circuit<br>35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM control circuit<br>75 ms closing with LUCM control circuit<br>70 ms closing with LUCA, LUCB, LUCC, LUCD for control circuit |
| Mechanical durability | 15 Mcycles |
| Maximum operating rate | 3600 cyc/h |
| Product certifications | CE<br>UL<br>CSA<br>CCC<br>EAC<br>ASEFA<br>ATEX<br>Marine |
| Standards | EN 60947-6-2<br>IEC 60947-6-2<br>UL 60947-4-1, with phase barrier<br>CSA C22.2 No 60947-4-1, with phase barrier |
| [Ui] rated insulation voltage | 690 V IEC 60947-6-2 3)<br>600 V UL 60947-4-1<br>600 V CSA C22.2 No 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 6 kVIEC 60947-6-2 |
| Safe separation of circuit | 400 V SELV between the control and auxiliary circuits IEC 60947-1 appendix N<br>400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 appendix N |
| Fixing mode | Clipped DIN rail)<br>Screw-fixed plate) |
| Connections - terminals | Power circuit screw clamp terminals 1 0.00…0.02 in² (1…10 mm²) rigid<br>Power circuit screw clamp terminals 1 0.00…0.01 in² (1…6 mm²) flexible with cable end<br>Power circuit screw clamp terminals 1 0.00…0.02 in² (2.5…10 mm²) flexible without cable end<br>Power circuit screw clamp terminals 2 0.00…0.01 in² (1…6 mm²) flexible with cable end<br>Power circuit screw clamp terminals 2 0.00…0.01 in² (1…6 mm²) rigid<br>Power circuit screw clamp terminals 2 0.00…0.01 in² (1.5…6 mm²) flexible without cable end<br>Control circuit: without connection |
| Tightening torque | Power circuit 16.82…22.13 lbf.in (1.9…2.5 N.m) flat 0.24 in (6 mm)<br>Power circuit 16.82…22.13 lbf.in (1.9…2.5 N.m) Philips No 2 0.24 in (6 mm) |
| Width | 1.77 in (45 mm) |
| Height | 8.82 in (224 mm) |
| Depth | 4.96 in (126 mm) |
| Net Weight | 2.80 lb(US) (1.27 kg) |
| Compatibility code | LU2B |

## Environment

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| IP degree of protection | IP20 IEC 60947-1 front panel and wired terminals)<br>IP20 IEC 60947-1 other faces)<br>IP40 IEC 60947-1 front panel outside connection zone) |
| Protective treatment | TH IEC 60068 |
| Ambient air temperature for operation | -13…140 °F (-25…60 °C) with LUCM<br>-13…158 °F (-25…70 °C) with LUCA, LUCB, LUCC, LUCD |
| Ambient air temperature for storage | -40…185 °F (-40…85 °C) |
| Fire resistance | 1760 °F (960 °C) parts supporting live components IEC 60695-2-12<br>1202 °F (650 °C) IEC 60695-2-12 |
| Operating altitude | 6561.68 ft (2000 m) |

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| Shock resistance | 10 gn power poles open IEC 60068-2-27<br>15 gn power poles closed IEC 60068-2-27 |
| Vibration resistance | 2 gn 5…300 Hz) power poles open IEC 60068-2-27<br>4 gn 5…300 Hz) power poles closed IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV 3 in open air IEC 61000-4-2<br>8 kV 4 on contact IEC 61000-4-2 |
| Resistance to radiated fields | 9.14 V/m (10 V/m) 3 IEC 61000-4-3 |
| Resistance to fast transients | 2 kV 3 serial link IEC 61000-4-4<br>4 kV 4 all circuits except for serial link IEC 61000-4-4 |
| Immunity to radioelectric fields | 10 V IEC 61000-4-6 |
| Immunity to microbreaks | 3 ms control circuit |
| Immunity to voltage dips | 70 % / 500 ms IEC 61000-4-11 |

## Ordering and shipping details

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|---|---|
| Category | 22396 - TESYS U - SELF PRTCTD STARTER (LUB) |
| Discount Schedule | I11 |
| GTIN | 03389110363098 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.82 lb(US) (1.281 kg) |
| Returnability | No |
| Country of origin | FR |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.17 in (5.5 cm) |
| Package 1 width | 6.10 in (15.5 cm) |
| Package 1 Length | 10.04 in (25.5 cm) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 9 |
| Package 2 Weight | 26.59 lb(US) (12.062 kg) |
| Package 2 Height | 11.81 in (30 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

## Offer Sustainability

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| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant<br>EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration<br>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. |