

# Product data sheet

Specifications



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

LU2BA0B

⚠ Discontinued on: Jan 26, 2021

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### Main

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.X6B Control unit LUC.1XB Control unit LUC.05B Control unit LUC.12B
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 12 A 500 V 9 A 690 V
Utilisation category	AC-43 AC-44 AC-41
[Ics] rated service breaking capacity	50 kA 230 V 50 kA 440 V 10 kA 500 V 4 kA 690 V
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Linked contacts 1 NO + 1 NC) IEC 60947-4-1 Mirror contact 1 NC) IEC 60947-1
[Uc] control circuit voltage	24 V AC 50/60 Hz
Control circuit voltage limits	14.5 V AC drop-out 20...26.5 V AC in operation

### Complementary

Typical current consumption	2360 mA 24 V AC I maximum while closing
Heat dissipation	2 W control circuit with LUCA, LUCB, LUCC, LUCD 1.7 W control circuit with LUCM
Inrush restraint duration	25 ms AC 50/60 Hz

<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Operating time</b>	150 ms with change of direction power circuit 75 ms without change of direction power circuit 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM control circuit 50 ms >= 72 V closing with LUCA, LUCB, LUCC, LUCD control circuit 60 ms 48 V closing with LUCA, LUCB, LUCC, LUCD control circuit 70 ms 24 V closing with LUCA, LUCB, LUCC, LUCD control circuit 75 ms closing with LUCM control circuit
<b>Mechanical durability</b>	15 Mcycles
<b>maximum operating rate</b>	3600 cyc/h
<b>Product certifications</b>	CE UL CSA CCC EAC ASEFA ATEX Marine
<b>Standards</b>	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
<b>[Ui] rated insulation voltage</b>	690 V IEC 60947-6-2 3) 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1
<b>[Uimp] rated impulse withstand voltage</b>	6 kVIEC 60947-6-2
<b>Safe separation of circuit</b>	400 V SELV between the control and auxiliary circuits IEC 60947-1 appendix N 400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 appendix N
<b>Fixing mode</b>	Clipped (DIN rail) Screw-fixed (plate)
<b>Connections - terminals</b>	Power circuit: screw clamp terminals 1 cable(s) 0.002...0.02 in <sup>2</sup> (1...10 mm <sup>2</sup> ) rigid Power circuit: screw clamp terminals 1 cable(s) 0.002...0.009 in <sup>2</sup> (1...6 mm <sup>2</sup> ) flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 0.004...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> ) flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 0.002...0.009 in <sup>2</sup> (1...6 mm <sup>2</sup> ) flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 0.002...0.009 in <sup>2</sup> (1...6 mm <sup>2</sup> ) rigid Power circuit: screw clamp terminals 2 cable(s) 0.002...0.009 in <sup>2</sup> (1.5...6 mm <sup>2</sup> ) flexible without cable end Control circuit: without connection
<b>Tightening torque</b>	Power circuit: 16.8...22.1 lbf.in (1.9...2.5 N.m) flat screwdriver 0.2 in (6 mm) Power circuit: 16.8...22.1 lbf.in (1.9...2.5 N.m) Philips No 2 screwdriver 0.2 in (6 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Height</b>	8.8 in (224 mm)
<b>Depth</b>	5.0 in (126 mm)
<b>Net weight</b>	2.80 lb(US) (1.27 kg)
<b>Compatibility code</b>	LU2B

## Environment

<b>IP degree of protection</b>	IP20 IEC 60947-1 front panel and wired terminals) IP20 IEC 60947-1 other faces) IP40 IEC 60947-1 front panel outside connection zone)
<b>Protective treatment</b>	TH IEC 60068
<b>Ambient air temperature for operation</b>	-13...140 °F (-25...60 °C) with LUCM -13...158 °F (-25...70 °C) with LUCA, LUCB, LUCC, LUCD

<b>Ambient air temperature for storage</b>	-40...185 °F (-40...85 °C)
<b>Fire resistance</b>	1760 °F (960 °C) parts supporting live components IEC 60695-2-12 1202 °F (650 °C) IEC 60695-2-12
<b>Operating altitude</b>	2000 m
<b>Shock resistance</b>	10 gn power poles open IEC 60068-2-27 15 gn power poles closed IEC 60068-2-27
<b>Vibration resistance</b>	2 gn 5...300 Hz) power poles open IEC 60068-2-27 4 gn 5...300 Hz) power poles closed IEC 60068-2-27
<b>Resistance to electrostatic discharge</b>	8 kV 3 in open air IEC 61000-4-2 8 kV 4 on contact IEC 61000-4-2
<b>Non-dissipating shock wave</b>	1 kV serial mode IEC 60947-6-2 2 kV common mode IEC 60947-6-2
<b>Resistance to fast transients</b>	2 kV 3 serial link IEC 61000-4-4 4 kV 4 all circuits except for serial link IEC 61000-4-4
<b>Resistance to radiated fields</b>	9.1 V/yd (10 V/m) 3 IEC 61000-4-3
<b>Immunity to radioelectric fields</b>	10 V IEC 61000-4-6
<b>Immunity to microbreaks</b>	3 ms control circuit
<b>Immunity to voltage dips</b>	70 % / 500 ms IEC 61000-4-11

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	9.6 in (24.5 cm)
<b>Package 1 Width</b>	2.2 in (5.5 cm)
<b>Package 1 Length</b>	5.5 in (14 cm)
<b>Package 1 Weight</b>	2.80 lb(US) (1.27 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better



#### Materials and Substances

EU RoHS Directive

[Compliant](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins