

# Product data sheet

Specifications



Standard control unit, TeSys Ultra, 0.35A to 1.4A, 3P motors, thermal magnetic protection, class 10, coil 110-240VAC/DC

LUCA1XFU

**Product availability: Stock - Normally stocked in distribution facility**

## Main

Range	TeSys
Range of Product	TeSys Ultra
Product name	TeSys Ultra
Device short name	LUCA
Product or Component Type	Standard control unit
Device Application	Motor control Motor protection
Product Specific Application	Basic protection requirements for motor starters: overload and short-circuit
main function available	Protection against phase failure and phase imbalance Protection against overload and short-circuit Manual reset Earth fault protection
Product compatibility	Power base LUB12 Power base LUB32 Power base LUB38 Power base LUB120 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B12FU Reversing contactor breaker LU2B32FU Reversing contactor breaker LU2B38FU
[Ue] rated operational voltage	690 V AC
Network frequency	40...60 Hz
Load type	3-phase motor self-cooled
Utilisation category	AC-44 AC-41 AC-43
Motor power kW	0.25 kW 400...440 V AC 50/60 Hz
rated motor current adjustment range	0.35...1.4 A
Thermal overload class	Class 10 40...60 Hz -13...158 °F (-25...70 °C) IEC 60947-6-2 Class 10 40...60 Hz -13...158 °F (-25...70 °C) UL 508
Tripping threshold	14.2 x Ir +/- 20 %
Phase failure sensitivity	Yes
[Uc] control circuit voltage	110...240 V AC 110...220 V DC

## Complementary

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

<b>Control circuit voltage limits</b>	88...264 V AC 110...240 V in operation 88...242 V DC 110...220 V in operation 55 V AC 110...240 V drop-out 55 V DC 110...220 V drop-out
<b>Typical current consumption</b>	280 mA 110...240 V AC I maximum while closing with LUB12 280 mA 110...240 V AC I maximum while closing with LUB32 280 mA 110...240 V AC I maximum while closing with LUB38 280 mA 110...220 V DC I maximum while closing with LUB12 280 mA 110...220 V DC I maximum while closing with LUB32 280 mA 110...220 V DC I maximum while closing with LUB38 35 mA 110...240 V AC I rms sealed with LUB12 25 mA 110...240 V AC I rms sealed with LUB32 25 mA 110...240 V AC I rms sealed with LUB38 35 mA 110...220 V DC I rms sealed with LUB12 25 mA 110...220 V DC I rms sealed with LUB32 25 mA 110...220 V DC I rms sealed with LUB38
<b>Heat dissipation</b>	2 W control circuit with LUB12 3 W control circuit with LUB32 3 W control circuit with LUB38
<b>Operating time</b>	35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 35 ms opening with LUB38 control circuit 50 ms closing with LUB12 control circuit 50 ms closing with LUB32 control circuit 50 ms closing with LUB38 control circuit
<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>Product Certifications</b>	CE UL CSA CCC EAC ASEFA ATEX Marine
<b>[U<sub>i</sub>] rated insulation voltage</b>	690 V IEC 60947-6-2 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	6 kV IEC 60947-6-2
<b>Safe separation of circuit</b>	400 V SELV between the control and auxiliary circuits IEC 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1
<b>Fixing mode</b>	Plug-in (front face)
<b>Width</b>	1.8 in (45 mm)
<b>Height</b>	2.6 in (66 mm)
<b>Depth</b>	2.4 in (60 mm)
<b>Net Weight</b>	0.298 lb(US) (0.135 kg)
<b>Compatibility code</b>	LUCA

## Environment

<b>IP degree of protection</b>	IP20 front panel and wired terminals IEC 60947-1 IP20 other faces IEC 60947-1 IP40 front panel outside connection zone IEC 60947-1
<b>Protective treatment</b>	TH IEC 60068
<b>Ambient air temperature for operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Operating altitude</b>	6561.68 ft (2000 m)

<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>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 60068-2-6 4 gn 5...300 Hz power poles closed IEC 60068-2-6
<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 radiated fields</b>	9.1 V/m (10 V/m) 3 IEC 61000-4-3
<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>Immunity to radioelectric fields</b>	10 V IEC 61000-4-6
<b>Immunity to microbreaks</b>	3 ms
<b>Immunity to voltage dips</b>	70 % / 500 ms IEC 61000-4-11

## Ordering and shipping details

<b>Category</b>	US10I1122397
<b>Discount Schedule</b>	0I11
<b>GTIN</b>	3389110364019
<b>Returnability</b>	Yes
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	4.055 in (10.300 cm)
<b>Package 1 Width</b>	2.087 in (5.300 cm)
<b>Package 1 Length</b>	3.346 in (8.500 cm)
<b>Package weight(Lbs)</b>	4.339 oz (123.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	23
<b>Package 2 Height</b>	5.906 in (15.000 cm)
<b>Package 2 Width</b>	11.811 in (30.000 cm)
<b>Package 2 Length</b>	15.748 in (40.000 cm)
<b>Package 2 Weight</b>	6.916 lb(US) (3.137 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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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 >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) **19**

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant with Exemptions**

SCIP Number **801f74dc-0e56-49a3-aaeb-b34d99dcea36**

REACH Regulation [REACH Declaration](#)

Halogen content performance **Halogen free plastic parts product**

PVC free **Yes**

## Use Again

### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back **No**

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