

# Product datasheet

Specifications



Advanced control unit, TeSys Ultra, 3P, 3 to 12A, 690VAC, protection & diagnostic, class 20, 24VDC coil

LUCD12BL

## Main

Range	TeSys
Range of product	TeSys Ultra
Product name	TeSys Ultra
Device short name	LUCD
Product or component type	Advanced control unit
Device application	Motor control Motor protection
Product specific application	Basic protection and advanced functions, communication
main function available	Protection against phase failure and phase imbalance Manual reset Protection against overload and short-circuit 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 LU2B12BL Reversing contactor breaker LU2B32BL Reversing contactor breaker LU2B38BL
[Ue] rated operational voltage	690 V AC
Network frequency	40...60 Hz
Load type	3-phase motor - cooling: self-cooled
Utilisation category	AC-44 AC-41 AC-43
Motor power kW	5.5 kW at 400...440 V AC 50/60 Hz 5.5 kW at 500 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz
rated motor current adjustment range	3...12 A
Thermal overload class	Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to IEC 60947-6-2 Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to UL 508
Tripping threshold	14.2 x I <sub>r</sub> +/- 20 %
Phase failure sensitivity	Yes
[Uc] control circuit voltage	24 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>	20...27 V for DC circuit 24 V in operation 14.5 V for DC circuit 24 V drop-out
<b>Typical current consumption</b>	130 mA at 24 V DC I maximum while closing with LUB12 220 mA at 24 V DC I maximum while closing with LUB32 220 mA at 24 V DC I maximum while closing with LUB38 60 mA at 24 V DC I rms sealed with LUB12 80 mA at 24 V DC I rms sealed with LUB32 80 mA at 24 V DC I rms sealed with LUB38
<b>Heat dissipation</b>	2 W for control circuit with LUB12 3 W for control circuit with LUB32 3 W for control circuit with LUB38
<b>Operating time</b>	35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 70 ms closing with LUB12 for control circuit 70 ms closing with LUB32 for control circuit 70 ms closing with LUB38 for control circuit
<b>Reset</b>	Manual reset
<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 conforming to IEC 60947-6-2 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	6 kV conforming to IEC 60947-6-2
<b>Safe separation of circuit</b>	400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1
<b>Fixing mode</b>	Plug-in (front face)
<b>Width</b>	45 mm
<b>Height</b>	66 mm
<b>Depth</b>	60 mm
<b>Compatibility code</b>	LUCD

## Environment

<b>IP degree of protection</b>	IP20 front panel and wired terminals conforming to IEC 60947-1 IP20 other faces conforming to IEC 60947-1 IP40 front panel outside connection zone conforming to IEC 60947-1
<b>Protective treatment</b>	TH conforming to IEC 60068
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	2000 m
<b>Fire resistance</b>	960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C conforming to IEC 60695-2-12
<b>Shock resistance</b>	10 gn power poles open conforming to IEC 60068-2-27 15 gn power poles closed conforming to IEC 60068-2-27

<b>Vibration resistance</b>	2 gn, 5...300 Hz, power poles open conforming to IEC 60068-2-6 4 gn, 5...300 Hz, power poles closed conforming to IEC 60068-2-6
<b>Resistance to electrostatic discharge</b>	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
<b>Resistance to radiated fields</b>	10 V/m 3 conforming to IEC 61000-4-3
<b>Resistance to fast transients</b>	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
<b>Immunity to radioelectric fields</b>	10 V conforming to IEC 61000-4-6
<b>Immunity to microbreaks</b>	3 ms
<b>Immunity to voltage dips</b>	70 % / 500 ms conforming to 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>	5.5 cm
<b>Package 1 Width</b>	8.0 cm
<b>Package 1 Length</b>	10.5 cm
<b>Package 1 Weight</b>	125.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	23
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	3.069 kg

## Contractual warranty

<b>Warranty</b>	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-CO<sub>2</sub> 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 >](#)



Transparency RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

✓ Halogen Free Plastic Parts Product

## Certifications & Standards

**Reach Regulation**

[REACH Declaration](#)

**Eu Rohs Directive**

Compliant with Exemptions

**China Rohs Regulation**

[China RoHS declaration](#)

Product out of China RoHS scope. Substance declaration for your information

**Environmental Disclosure**

[Product Environmental Profile](#)

**Weee**

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

**Circularity Profile**

[End of Life Information](#)