

LUCB1XFU

advanced control unit LUCB - class 10 - 0.35...1.4 A - 110...220 V DC/AC



Main

Range of product	TeSys U
Range	TeSys
Product name	TeSys U
Device short name	LUCB
Product or component type	Advanced control unit
Product specific application	Basic protection and advanced functions, communication
Product compatibility	LUFV2 LUFW10 LUFDA10 LUFDA01 LUFCA00 LUFN.. LUFDH11
Utilisation category	AC-43 AC-41 AC-44
Motor power kW	0.25 kW at 400...440 V AC 50/60 Hz
Thermal protection adjustment range	0.35...1.4 A
Control circuit voltage	110...220 V DC 110...240 V AC
Overload tripping class	Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to UL 508 Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to IEC 60947-6-2

Complementary

Function available	Protection against overload and short-circuit Earth fault protection Manual reset Protection against phase failure and phase imbalance
Mounting mode	Plug-in
Mounting location	Front side

Control circuit voltage limits	88...264 V for AC circuit 110...240 V in operation 88...242 V for DC circuit 110...220 V in operation
Typical current consumption	280 mA at 110...240 V AC I maximum while closing with LUB32 25 mA at 110...240 V AC I rms sealed with LUB12 35 mA at 110...220 V DC I rms sealed with LUB12 35 mA at 110...220 V DC I rms sealed with LUB32 25 mA at 110...240 V AC I rms sealed with LUB32 280 mA at 110...220 V DC I maximum while closing with LUB32 280 mA at 110...220 V DC I maximum while closing with LUB12 280 mA at 110...240 V AC I maximum while closing with LUB12
Operating time	35 ms opening with LUB32 for control circuit 35 ms opening with LUB12 for control circuit 50 ms closing with LUB12 for control circuit 50 ms closing with LUB32 for control circuit
Load type	3-phase motor - cooling: self-cooled
Tripping threshold	14.2 x I _r +/- 20 %
[U _i] rated insulation voltage	600 V conforming to CSA C22.2 No 14 690 V conforming to IEC 60947-1 600 V conforming to UL 508
[U _{imp}] 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 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1
Compatibility code	LUCB

Environment

Heat dissipation	2 W for control circuit with LUB12 3 W for control circuit with LUB32
Immunity to microbreaks	3 ms
Immunity to voltage dips	70 % 500 ms conforming to IEC 61000-4-11
Standards	CSA C22.2 No 14 type E UL 508 type E with phase barrier IEC 60947-6-2 EN 60947-6-2
Product certifications	ATEX ABS BV ASEFA CSA CCC UL GOST DNV GL LROS (Lloyds register of shipping)
IP degree of protection	IP20 other faces conforming to IEC 60947-1 IP40 front panel outside connection zone conforming to IEC 60947-1 IP20 front panel and wired terminals conforming to IEC 60947-1
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m
Fire resistance	650 °C conforming to IEC 60695-2-12 960 °C parts supporting live components conforming to IEC 60695-2-12
Shock resistance	15 gn power poles closed conforming to IEC 60068-2-27 10 gn power poles open conforming to IEC 60068-2-27
Vibration resistance	4 gn 5...300 Hz power poles closed conforming to IEC 60068-2-6 2 gn 5...300 Hz power poles open conforming to IEC 60068-2-6
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
Non-dissipating shock wave	1 kV serial mode conforming to IEC 60947-6-2 2 kV common mode conforming to IEC 60947-6-2
Resistance to radiated fields	10 V/m 3 conforming to IEC 61000-4-3
Resistance to fast transients	4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4

2 kV class 3 serial link conforming to IEC 61000-4-4

Immunity to radioelectric fields

10 V conforming to IEC 61000-4-6

Offer Sustainability

Sustainable offer status

Green Premium product

RoHS (date code: YYWW)

Compliant - since 1015 - Schneider Electric declaration of conformity

 [Schneider Electric declaration of conformity](#)

REACH

Reference not containing SVHC above the threshold

[Reference not containing SVHC above the threshold](#)

Product environmental profile

Available

 [End of life manual](#)

Product end of life instructions

Available

 [End of life manual](#)

Contractual warranty

Warranty period

18 months