



Main

Range of product	TeSys U
Device short name	LUCA
Product or component type	Standard control unit
Poles description	3P
Product compatibility	ASILUFC5 ASILUFC51 LUF00 LUFN.. LULC031 LULC033 LULC07 LULC08 LULC09 LULC15
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	1,5 kW 400...440 V AC 50/60 Hz 2,2 kW 500 V AC 50/60 Hz 3 kW 690 V AC 50/60 Hz
Control circuit voltage	24 V AC

Complementary

Function available	Earth fault protection Manual reset Protection against overload and short-circuit Protection against phase failure and phase imbalance
Mounting mode	Plug-in
Mounting location	Front side
Thermal protection adjustment range	1,25...5 A
Control circuit voltage limits	20...26.5 V AC 24 V in operation
Typical current consumption	70 mA 24 V AC I rms sealed with LUB12 90 mA 24 V AC I rms sealed with LUB32 140 mA 24 V AC I maximum while closing with LUB12 220 mA 24 V AC I maximum while closing with LUB32
Operating time	35 ms control circuit opening with LUB12 35 ms control circuit opening with LUB32 70 ms control circuit closing with LUB12 70 ms control circuit closing with LUB32
Load type	3-phase motor self-cooled
Overload tripping class	Class 10 UL 508 40...60 Hz -25...70 °C Class 10 IEC 60947-6-2 40...60 Hz -25...70 °C
Tripping threshold	14.2 x I _r +/- 20 %
[Ui] rated insulation voltage	600 V UL 508 600 V CSA 22-2 No 14 690 V IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-6-2
Safe separation of circuit	400 V SELV IEC 60947-1 between the control or auxiliary circuit and the main circuit 400 V SELV IEC 60947-1 between the control and auxiliary circuits
Product weight	0,135 kg

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Environment

Heat dissipation	2 W control circuit with LUB12 3 W control circuit with LUB32
Immunity to microbreaks	3 ms
Immunity to voltage dips	70 % 500 ms IEC 61000-4-11
Standards	CSA C22-2 No 14 type E EN 60947-6-2 IEC 60947-6-2 UL 508 type E with phase barrier
Product certifications	ABS ASEFA ATEX BV CCC CSA DNV (Det Norske Veritas) GL GOST LROS (Lloyds register of shipping) UL
IP degree of protection	IP20 front panel and wired terminals IEC 60947-1 IP20 other faces IEC 60947-1 IP40 front panel outside connection zone IEC 60947-1
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-25...60 °C with LUCM -25...70 °C with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m
Fire resistance	650 °C IEC 60695-2-12 960 °C parts supporting live components IEC 60695-2-12
Shock resistance	10 gn power poles open IEC 60068-2-27 15 gn power poles closed IEC 60068-2-27
Vibration resistance	2 gn power poles open 5...300 Hz IEC 60068-2-6 4 gn power poles closed 5...300 Hz IEC 60068-2-6
Resistance to electrostatic discharge	8 kV 4 on contact IEC 61000-4-2 8 kV 3 in open air IEC 61000-4-2
Non-dissipating shock wave	1 kV serial mode IEC 60947-6-2 2 kV common mode IEC 60947-6-2
Resistance to radiated fields	10 V/m 3 IEC 61000-4-3
Resistance to fast transients	2 kV 3 serial link IEC 61000-4-4 4 kV 4 all circuits except for serial link IEC 61000-4-4
Immunity to radioelectric fields	10 V IEC 61000-4-6
RoHS EUR conformity date	1Q2009
RoHS EUR status	Will be compliant