

Main

Commercial Status	Commercialised
Range of product	TeSys U
Device short name	LUCA
Product or component type	Standard control unit
Product specific application	Basic protection requirements for motor starters: overload and short-circuit
Product compatibility	ASILUFC5 ASILUFC51 LUFC00 LUFN.. LULC031 LULC033 LULC07 LULC08 LULC09 LULC15
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	5.5 kW at 500 V AC 50/60 Hz 5.5 kW at 400...440 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz
Thermal protection adjustment range	3...12 A
[Uc] control circuit voltage	110...240 V AC 110...220 V DC
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

Main 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
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	35 mA at 110...220 V DC I rms sealed with LUB32 35 mA at 110...220 V DC I rms sealed with LUB12 280 mA at 110...240 V AC I maximum while closing with LUB32 280 mA at 110...240 V AC I maximum while closing with LUB12 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 25 mA at 110...240 V AC I rms sealed with LUB32 25 mA at 110...240 V AC I rms sealed with LUB12
Operating time	50 ms closing with LUB32 for control circuit 50 ms closing with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB12 for control circuit
Load type	3-phase motor - cooling: self-cooled
Tripping threshold	14.2 x I _r +/- 20 %

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[Ui] 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
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-6-2
Safe separation of circuit	400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1
Product weight	0.135 kg

Environment

Heat dissipation	3 W for control circuit with LUB32 2 W for control circuit with LUB12
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	ABS ASEFA ATEX BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) UL
IP degree of protection	IP40 front panel outside connection zone conforming to IEC 60947-1 IP20 other faces 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 with LUCA, LUCB, LUCC, LUCD -25...60 °C with LUCM
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m
Fire resistance	960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C 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 4 on contact conforming to IEC 61000-4-2 8 kV level 3 in open air conforming to IEC 61000-4-2
Non-dissipating shock wave	2 kV common mode conforming to IEC 60947-6-2 1 kV serial 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

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	1015

Contractual warranty

Period	18 months
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