Product datasheet
Characteristics

LUCC18BL
advanced control unit LUCC - class 10 - 4.5...18 A - 24 V DC

Main

Range of product	TeSys U
Range	TeSys
Product name	TeSys U
Device short name	LUCC
Product or component type	Advanced control unit
Product specific application	Basic protection and advanced functions, communication
Main function available	Manual reset Earth fault protection Protection against phase failure and phase imbalance Protection against overload and short-circuit
Load type	Single-phase motor
Utilisation category	AC-44 AC-43 AC-41
Rated motor current adjustment range	4.5…18 A
Thermal overload class	Class 10 - frequency limit: 40…60 Hz - temperature compensation: -25…55 °C conforming to IEC 60947-6-2 Class 10 - frequency limit: 40…60 Hz - temperature compensation: -25…55 °C conforming to UL 508
Tripping threshold	14.2 x Ir +/- 20 %
[Uc] control circuit voltage	24 V DC

Complementary

Control circuit voltage limits	20...27 V for DC circuit 24 V in operation
Typical current consumption	130 mA at 24 V DC I maximum while closing with LUB12 220 mA at 24 V DC I maximum while closing with LUB32
Heat dissipation	3 W for control circuit with LUB32
Operating time	35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit
Standards	UL 508 type E, with phase barrier EN 60947-6-2

	IEC 60947-6-2 CSA C22.2 No 14 type E
Product certifications	ASEFA ATEX ABS LROS (Lloyds register of shipping) BV GL CCC CSA GOST DNV UL
[Ui] rated insulation voltage	600 V conforming to UL 508 690 V conforming to IEC 60947-1 600 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV 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
Width	45 mm
Height	66 mm
Depth	60 mm
Compatibility code	LUCC

Environment

IP degree of protection	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
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-25…55 °C
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	10 gn power poles open conforming to IEC 60068-2-27 15 gn power poles closed conforming to IEC 60068-2-27
Vibration resistance	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
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
Resistance to radiated fields	10 V/m 3 conforming to IEC 61000-4-3
Resistance to fast transients	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
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6
Immunity to voltage dips	70 % / 500 ms conforming to IEC 61000-4-11

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months