## Product data sheet Characteristics

## LUCB05BL

advanced control unit LUCB - class 10 - 1.25...5 A - 24 V DC



## Main

Main	
Range of product	TeSys U
Device short name	LUCB
Product or component type	Advanced control unit
Product compatibility	ASILUFC5 ASILUFC51 LUFC00 LUFDA01 LUFDA10 LUFDH11 LUFN LUFV2 LUFW10 LULC031 LULC033 LULC07 LULC08 LULC09 LULC05
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	3 kW at 690 V AC 50/60 Hz 1.5 kW at 400440 V AC 50/60 Hz 2.2 kW at 500 V AC 50/60 Hz
Thermal protection adjustment range	1.255 A
[Uc] control circuit voltage	24 V DC
Overload tripping class	Class 10 - conforming to IEC 60947-6-2 - frequency limit: 4060 Hz - temperature compensation: -2570 °C Class 10 - conforming to UL 508 - frequency limit: 4060 Hz - temperature compensation: -2570 °C

## Complementary

Main function available	Earth fault protection	
That it is in a tallable	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	2027 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	
	60 mA at 24 V DC I rms sealed with LUB12	
	80 mA at 24 V DC I rms sealed with LUB32	
Operating time	35 ms for control circuit opening with LUB12	
	35 ms for control circuit opening with LUB32	
	70 ms for control circuit closing with LUB12	
	70 ms for control circuit closing with LUB32	
Load type	3-phase motor - cooling: self-cooled	
Tripping threshold	14.2 x lr +/- 20 %	
[Ui] rated insulation voltage	600 V conforming to CSA 22-2 No 14	
	600 V conforming to UL 508	
	690 V conforming to IEC 60947-1	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-6-2	

Safe separation of circuit	400 V SELV conforming to IEC 60947-1 between the control and auxiliary circuit 400 V SELV conforming to IEC 60947-1 between the control or auxiliary circuit and the main circuit
Product weight	0.14 kg
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 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 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	-2560 °C with LUCM -2570 °C with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-4085 °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	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 power poles open 5300 Hz conforming to IEC 60068-2-6 4 gn power poles closed 5300 Hz 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
Not classified	
Product specific application	Basic protection and advanced functions, communication

