LUCM12BL

multifunction control unit LUCM - class 5...30 - 3...12 A - 24 V DC





Main

Range of product	TeSys U
Device short name	LUCM
Product or component type	Multifunction control unit
Product specific application	Most sophisticated control and protection requirements, with display
Product compatibility	ASILUFC5 ASILUFC51 LUFC00 LUFN LUFV2 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 400440 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz
Thermal protection adjustment range	312 A
[Uc] control circuit voltage	24 V DC
Overload tripping class	Class 530 - frequency limit: 5060 Hz - temperature compensation: -2555 °C - conforming to UL 508 Class 530 - frequency limit: 5060 Hz - temperature compensation: -2555 °C - conforming to IEC 60947-6-2
Language	English, French, German, Italian, Spanish - setting settable English - setting factory setting

Complementary

Main function available	Differentiation of thermal overload and magnetic fault	
	Earth fault protection	
	Log function	
	Manual or automatic reset	
	Monitoring function, indication of main motor parameters	
	Overload, no-load running	
	Protection against overload and short-circuit	
	Protection against phase failure and phase imbalance	
	Protection function alarm	
Mounting mode	Plug-in	
Mounting location	Front side	
Control circuit voltage limits	2028 V for DC circuit 24 V in operation	
Typical current consumption	75 mA at 24 V DC I rms sealed	
	70 mA at 24 V DC I rms sealed with LUB12	
	200 mA at 24 V DC I maximum while closing with LUB32	
	150 mA at 24 V DC I maximum while closing with LUB12	

Operating time	75 ms closing with LUB12 for control circuit 65 ms closing with LUB32 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, force cooled - setting settable Single-phase motor - cooling: self-cooled, force cooled - setting settable
Tripping threshold	14.2 x Ir +/- 20 %
Physical interface	RS485 multidrop - connector(s): RJ45 - location: front panel - communication protocol: Modbus RTU 19200 bit/s
Return time	<= 200 ms
Display	2 lines of 12 characters - display LCD - Spanish - accuracy +/- 5 % - resolution 1 % of Ir 2 lines of 12 characters - display LCD - Italian - accuracy +/- 5 % - resolution 1 % of Ir 2 lines of 12 characters - display LCD - German - accuracy +/- 5 % - resolution 1 % of Ir 2 lines of 12 characters - display LCD - French - accuracy +/- 5 % - resolution 1 % of Ir 2 lines of 12 characters - display LCD - English - accuracy +/- 5 % - resolution 1 % of Ir
Reset	Remote reset - setting: setting range Manual - setting: setting range Manual - setting: factory setting Automatic reset - setting: setting range
Time before reset	120 s - reset manual - setting factory setting 11000 s - reset manual or automatic reset - setting settable
Information displayed	Thermal state of motor - setting settable Phase imbalance - setting settable Earth leakage current - setting settable Current in phase - setting settable Cause of last 5 faults - setting settable Average current - setting settable Average current - setting factory setting
[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	0.175 kg
Environment	
Heat dissipation	1.8 W for control circuit with LUB32 1.7 W for control circuit with LUB12 0.8 W for external auxiliary circuit
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	-2560 °C
Ambient air temperature for storage	-4085 °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 5300 Hz power poles closed conforming to IEC 60068-2-6 2 gn 5300 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
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
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Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 1015 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - go to CaP for more details
Product environmental profile	Available 🔁 Download Product Environmental
Product end of life instructions	Available 🔁 Download End Of Life Manual

Contractual warranty

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Period	18 months
i Cilou	10 months

