

LUCM18BL

multifunction control unit LUCM - class 5...30 -
4.5...18 A - 24 V DC



Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Range	TeSys
Product name	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	LUFC00 LULC07 LULC15 LULC033 LUFN.. LUFV2 ASILUFC51 LULC09 ASILUFC5 LULC031 LULC08
Utilisation category	AC-43 AC-41 AC-44
Motor power kW	15 kW at 690 V AC 50/60 Hz 9 kW at 500 V AC 50/60 Hz 7.5 kW at 400...440 V AC 50/60 Hz
Thermal protection adjustment range	4.5...18 A
[Uc] control circuit voltage	24 V DC
Thermal overload class	Class 5...30 - frequency limit: 50...60 Hz - temperature compensation: -13...131 °F (-25...55 °C) - conforming to IEC 60947-6-2 Class 5...30 - frequency limit: 50...60 Hz - temperature compensation: -13...131 °F (-25...55 °C) - conforming to UL 508
User language	English - setting factory setting English, French, German, Italian, Spanish - setting settable

Complementary

Main function available	Earth fault protection Monitoring function, indication of main motor parameters Protection against phase failure and phase imbalance Overload, no-load running Differentiation of thermal overload and magnetic fault Log function Manual or automatic reset Protection against overload and short-circuit Protection function alarm
Mounting mode	Plug-in
Mounting location	Front side
Control circuit voltage limits	20...28 V DC circuit 24 V in operation
Typical current consumption	150 mA at 24 V DC I maximum while closing with LUB12 200 mA at 24 V DC I maximum while closing with LUB32 70 mA at 24 V DC I rms sealed with LUB12 75 mA at 24 V DC I rms sealed

Operating time	35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 65 ms closing with LUB32 control circuit 75 ms closing with LUB12 control circuit
Load type	Single-phase motor - cooling: self-cooled, force cooled - setting settable 3-phase motor - cooling: self-cooled, force cooled - setting settable
Tripping threshold	14.2 x I _r +/- 20 %
Physical interface	RS485 multidrop - connector(s): RJ45 - location: front panel - communication protocol: Modbus RTU 19200 bit/s
Return time	<= 200 ms
Messages display capacity	2 lines of 12 characters - display LCD - English - accuracy +/- 5 % - resolution 1 % of I _r 2 lines of 12 characters - display LCD - French - accuracy +/- 5 % - resolution 1 % of I _r 2 lines of 12 characters - display LCD - German - accuracy +/- 5 % - resolution 1 % of I _r 2 lines of 12 characters - display LCD - Italian - accuracy +/- 5 % - resolution 1 % of I _r 2 lines of 12 characters - display LCD - Spanish - accuracy +/- 5 % - resolution 1 % of I _r
Reset	Automatic reset - setting: setting range Manual - setting: factory setting Manual - setting: setting range Remote reset - setting: setting range
Time before reset	120 s - reset manual - setting factory setting 1...1000 s - reset manual or automatic reset - setting settable
Information displayed	Average current - setting factory setting Average current - setting settable Cause of last 5 faults - setting settable Current in phase - setting settable Earth leakage current - setting settable Phase imbalance - setting settable Thermal state of motor - setting settable
[Ui] rated insulation voltage	600 V conforming to CSA C22.2 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 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
Product weight	0.39 lb(US) (0.175 kg)

Environment


Heat dissipation	0.8 W external auxiliary circuit 1.7 W control circuit with LUB12 1.8 W 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	LROS (Lloyds register of shipping) ABS ASEFA DNV CSA UL CCC BV ATEX GL GOST
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	-13...140 °F (-25...60 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)

Operating altitude	6561.68 ft (2000 m)
Fire resistance	1202 °F (650 °C) conforming to IEC 60695-2-12 1760 °F (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 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
Non-dissipating shock wave	1 kV serial mode conforming to IEC 60947-6-2 2 kV common mode conforming to IEC 60947-6-2
Resistance to radiated fields	9.14 V/yd (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

Ordering and shipping details

Category	22398 - TESYS U - MULTI-FCTN CTRL MOD(LUCM)
Discount Schedule	I11
GTIN	00785901320555
Nbr. of units in pkg.	1
Package weight(Lbs)	0.40000000000000002
Returnability	N
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1015 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
- - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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