

# LUCM32BL

Multifunction control unit, TeSys U, 8-32A,  
1P/3P motors, protection & diagnostic, class  
5-30, coil 24V DC



## Main

Range	TeSys
Range of product	TeSys U
Product name	TeSys U
Device short name	LUCM
Product or component type	Multifunction control unit
Device application	Motor control Motor protection
Product specific application	Most sophisticated control and protection requirements, with display
Main function available	Manual or automatic reset Monitoring function, indication of main motor parameters Overload, no-load running Protection function alarm Protection against overload and short-circuit Protection against phase failure and phase imbalance Earth fault protection Log function Differentiation of thermal overload and magnetic fault
Product compatibility	Power base LUB32 Power base LUB38 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B32FU Reversing contactor breaker LU2B38FU
[Ue] rated operational voltage	690 V AC
Network frequency	40...60 Hz
Load type	3-phase motor - cooling: self-cooled - setting factory setting 3-phase motor - cooling: self-cooled, force cooled - setting settable Single-phase motor - cooling: self-cooled, force cooled - setting settable
Utilisation category	AC-43 AC-41 AC-44
Motor power kW	15 kW at 400...440 V AC 50/60 Hz for 3 phases motors 15 kW at 500 V AC 50/60 Hz for 3 phases motors 18.5 kW at 690 V AC 50/60 Hz for 3 phases motors 7.5 kW at 400...440 V AC 50/60 Hz for 1 phase motors
Rated motor current adjustment range	8...32 A
Thermal overload class	Class 5...30 - frequency limit: 50...60 Hz - temperature compensation: -25...55 °C conforming to IEC 60947-6-2 Class 5...30 - frequency limit: 50...60 Hz - temperature compensation: -25...55 °C conforming to UL 508
Tripping threshold	14.2 x I <sub>r</sub> +/- 20 %
[Uc] control circuit voltage	24 V DC

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

Control circuit voltage limits	20...28 V for DC circuit 24 V in operation 14.5 V for DC circuit 24 V drop-out
Typical current consumption	220 MA at 24 V DC I maximum while closing with LUB32 220 MA at 24 V DC I maximum while closing with LUB38 80 MA at 24 V DC I rms sealed with LUB32 80 mA at 24 V DC I rms sealed with LUB38
Heat dissipation	1.8 W for control circuit with LUB32 1.8 W for control circuit with LUB38 0.8 W for external auxiliary circuit
Operating time	35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 65 ms closing with LUB32 for control circuit 65 ms closing with LUB38 for control circuit
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 Ir 2 lines of 12 characters - display LCD - French - 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 - Italian - accuracy +/- 5 % - resolution 1 % of Ir 2 lines of 12 characters - display LCD - Spanish - accuracy +/- 5 % - resolution 1 % of Ir
Reset	Automatic reset - setting: setting range Manual - setting: factory setting Manual - setting: setting range Remote reset - setting: setting range
Time before reset	1...1000 S - reset manual or automatic reset - setting settable 120 s - reset manual - setting factory setting
User language	English - setting factory setting English, French, German, Italian, Spanish - setting settable
Information displayed	Average current (factory setting) Average current (settable) Cause of last 5 faults (settable) Current in phase (settable) Earth leakage current (settable) Phase imbalance (settable) Thermal state of motor (settable)
Standards	EN 60947-6-2 IEC 60947-6-2 UL 60947-4-1, with phase barrier CSA C22.2 No 60947-4-1, with phase barrier
Product certifications	CE UL CSA CCC EAC ASEFA ATEX Marine
[Ui] rated insulation voltage	690 V conforming to IEC 60947-6-2 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1
[Uimp] rated impulse withstand voltage	IEC 60947-6-2 6 kV
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
Fixing mode	Plug-in (front face)
Width	45 mm
Height	66 mm
Depth	60 mm
Net weight	0.175 kg
Compatibility code	LUCM

## 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...60 °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 microbreaks	3 ms
Immunity to voltage dips	70 % / 500 ms conforming to IEC 61000-4-11

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	178 g
Package 1 Height	5.5 cm
Package 1 width	8.5 cm
Package 1 Length	10.2 cm
Unit Type of Package 2	S01
Number of Units in Package 2	9
Package 2 Weight	1.764 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

## Contractual warranty

Warranty	18 months
----------	-----------