Advanced control unit, TeSys U, 0.15-0.6A, 3P motors, protection & diagnostic, class 10, coil 48-72V AC/ DC

## LUCBX6ES

- ① Discontinued on: 29 October 2020
- End-of-service on: 29 October 2020

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Range	TeSys
Range of product	TeSys U
Product name	TeSys U
Device short name	LUCB
Product or component type	Advanced control unit
Device application	Motor control Motor protection
Product specific application	Basic protection and advanced functions, communication
Main function available	Manual reset Protection against phase failure and phase imbalance Protection against overload and short-circuit Earth fault protection
Product compatibility	Power base LUB12 Power base LUB32 Power base LUB38 Power base LUB120 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B12ES Reversing contactor breaker LU2B32ES
[Ue] rated operational voltage	690 V AC
Network frequency	4060 Hz
Load type	3-phase motor - cooling: self-cooled
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	0.09 kW at 400440 V AC 50/60 Hz
Rated motor current adjustment range	0.150.6 A
Thermal overload class	Class 10 - frequency limit: 4060 Hz - temperature compensation: -2570 °C conforming to IEC 60947-6-2 Class 10 - frequency limit: 4060 Hz - temperature compensation: -2570 °C conforming to UL 508
Tripping threshold	14.2 x lr +/- 20 %
Phase failure sensitivity	Yes
[Uc] control circuit voltage	48 V AC 4872 V DC

## Complementary

Complementary	
Control circuit voltage limits	38.572 V for AC circuit 48 V in operation 38.593 V for DC circuit 4872 V in operation 29 V for AC circuit 48 V drop-out 29 V for DC circuit 4872 V drop-out
Typical current consumption	280 mA at 48 V AC I maximum while closing with LUB12 280 mA at 48 V AC I maximum while closing with LUB32 280 mA at 48 V AC I maximum while closing with LUB38 280 mA at 4872 V DC I maximum while closing with LUB12 280 mA at 4872 V DC I maximum while closing with LUB32 280 mA at 4872 V DC I maximum while closing with LUB38 35 mA at 48 V AC I rms sealed with LUB12 45 mA at 48 V AC I rms sealed with LUB32 45 mA at 48 V AC I rms sealed with LUB38 35 mA at 4872 V DC I rms sealed with LUB12 45 mA at 4872 V DC I rms sealed with LUB32 45 mA at 4872 V DC I rms sealed with LUB32 45 mA at 4872 V DC I rms sealed with LUB38
Heat dissipation	2 W for control circuit with LUB12 3 W for control circuit with LUB32 3 W for control circuit with LUB38
Operating time	35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 60 ms closing with LUB12 for control circuit 60 ms closing with LUB32 for control circuit 60 ms closing with LUB38 for control circuit
Reset	Manual reset
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	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
Fixing mode	Plug-in (front face)
Width	45 mm
Height	66 mm
Depth	60 mm
Compatibility code	LUCB
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	-2570 °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	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, 5300 Hz, power poles open conforming to IEC 60068-2-6 4 gn, 5300 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	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	127 g
Package 1 Height	5.3 cm
Package 1 width	7.8 cm
Package 1 Length	10.1 cm
Unit Type of Package 2	S01
Number of Units in Package 2	9
Package 2 Weight	1.341 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm
Offer Sustainability	
Offer Sustainability Sustainable offer status	Green Premium product
	Green Premium product  REACh Declaration
Sustainable offer status	
Sustainable offer status REACh Regulation	REACh Declaration  Compliant
Sustainable offer status  REACh Regulation  EU RoHS Directive	REACh Declaration  Compliant EU RoHS Declaration
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free	REACh Declaration  Compliant EU RoHS Declaration  Yes
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free  RoHS exemption information	REACh Declaration  Compliant EU RoHS Declaration  Yes  Yes  China RoHS declaration
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free  RoHS exemption information  China RoHS Regulation	Compliant EU RoHS Declaration  Yes  Yes  China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free  RoHS exemption information  China RoHS Regulation  Environmental Disclosure	REACh Declaration  Compliant EU RoHS Declaration  Yes  Yes  China RoHS declaration Product out of China RoHS scope. Substance declaration for your information  Product Environmental Profile
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free  RoHS exemption information  China RoHS Regulation  Environmental Disclosure  Circularity Profile	REACh Declaration  Compliant EU RoHS Declaration  Yes  Yes  China RoHS declaration Product out of China RoHS scope. Substance declaration for your information  Product Environmental Profile  End of Life Information  The product must be disposed on European Union markets following specific waste collection and
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free  RoHS exemption information  China RoHS Regulation  Environmental Disclosure  Circularity Profile  WEEE	REACh Declaration  Compliant EU RoHS Declaration  Yes  Yes  China RoHS declaration Product out of China RoHS scope. Substance declaration for your information  Product Environmental Profile  End of Life Information  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Sustainable offer status  REACh Regulation  EU RoHS Directive  Mercury free  RoHS exemption information  China RoHS Regulation  Environmental Disclosure  Circularity Profile  WEEE  PVC free	REACh Declaration  Compliant EU RoHS Declaration  Yes  Yes  China RoHS declaration Product out of China RoHS scope. Substance declaration for your information  Product Environmental Profile  End of Life Information  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins  Yes

## Recommended replacement(s)

LUCBX6ES may be replaced by any of the following products:





Advanced control unit, TeSys U, 0.15-0.6A, 3P motors, protection & diagnostic, class 10, coil 24V DC

LUCBX6BL

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Advanced control unit, TeSys U, 0.15-0.6A, 3P motors, protection & diagnostic, class 10, coil 110-240V AC/DC

LUCBX6FU