

LUCB05ES

advanced control unit LUCB - class 10 -
1.25...5 A - 48...72 V DC/AC



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



Main

Range	TeSys
Product name	TeSys U
Device short name	LUCB
Product or component type	Advanced control unit
Product specific application	Basic protection and advanced functions, communication
Product compatibility	LUFDH11 LUFW10 LUFC00 LUFN.. LUFDA01 LUFDA10 LUFV2
Utilisation category	AC-43 AC-44 AC-41
Motor power kW	3 kW at 690 V AC 50/60 Hz 1.5 kW at 400...440 V AC 50/60 Hz 2.2 kW at 500 V AC 50/60 Hz
Thermal protection adjustment range	1.25...5 A
[Uc] control circuit voltage	48 V AC 48...72 V DC
Thermal overload class	Class 10 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to IEC 60947-6-2 Class 10 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to UL 508

Complementary

Main function available	Protection against phase failure and phase imbalance Manual reset Protection against overload and short-circuit Earth fault protection
Mounting mode	Plug-in
Mounting location	Front side
Control circuit voltage limits	38.5...72 V AC circuit 48 V in operation 38.5...93 V DC circuit 48...72 V in operation
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...72 V DC I maximum while closing with LUB12 280 mA at 48...72 V DC I maximum while closing with LUB32 35 mA at 48 V AC I rms sealed with LUB12 35 mA at 48...72 V DC I rms sealed with LUB12 45 mA at 48 V AC I rms sealed with LUB32 45 mA at 48...72 V DC I rms sealed with LUB32
Operating time	35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 60 ms closing with LUB12 control circuit 60 ms closing with LUB32 control circuit
Load type	3-phase motor - cooling: self-cooled
Tripping threshold	14.2 x Ir +/- 20 %

[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

Environment

Heat dissipation	2 W control circuit with LUB12 3 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	DNV BV LROS (Lloyds register of shipping) GL ASEFA CCC GOST ATEX ABS UL CSA
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...158 °F (-25...70 °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	22397 - TESYS U - CNTRL MOD(LUCA,LUCD)
Discount Schedule	I11
GTIN	003389110364200
Nbr. of units in pkg.	1
Package weight(Lbs)	0.28999999999999998
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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