

Product datasheet

Specifications



Advanced control unit, TeSys U, 4.5-18A, 3P motors, protection & diagnostic, class 20, coil 24V AC

LUCD18B

⚠ Discontinued on: 29 Oct 2020

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EAN Code: 3389110368550

Main

Range	TeSys
Range of product	TeSys U
Product name	TeSys U
Device short name	LUCD
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	Protection against overload and short-circuit Protection against phase failure and phase imbalance Manual reset Earth fault protection
Product compatibility	Power base LUB32 Power base LUB38 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B32B
[Ue] rated operational voltage	690 V AC
Network frequency	40...60 Hz
Load type	3-phase motor - cooling: self-cooled
Utilisation category	AC-44 AC-43 AC-41
Motor power kW	7.5 kW at 400...440 V AC 50/60 Hz 9 kW at 500 V AC 50/60 Hz 15 kW at 690 V AC 50/60 Hz
rated motor current adjustment range	4.5...18 A
Thermal overload class	Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to IEC 60947-6-2 Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to UL 508
Tripping threshold	14.2 x I _r +/- 20 %
Phase failure sensitivity	Yes
[Uc] control circuit voltage	24 V AC

Complementary

Control circuit voltage limits	20...26.5 V for AC circuit 24 V in operation 14.5 V for AC circuit 24 V drop-out
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Typical current consumption	220 mA at 24 V AC I maximum while closing with LUB32 220 mA at 24 V AC I maximum while closing with LUB38 90 mA at 24 V AC I rms sealed with LUB32 90 mA at 24 V AC I rms sealed with LUB38
Heat dissipation	3 W for control circuit with LUB32 3 W for control circuit with LUB38
Operating time	35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 70 ms closing with LUB32 for control circuit 70 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
[U_i] 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
[U_{imp}] 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	LUCD

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...70 °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
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

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.


[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

 Materials and Substances	
EU RoHS Directive	Compliant
Halogen-free status	Halogen free plastic parts product
PVC free	Yes

Use Again

 Repack and remanufacture	
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins