LUCD18FU

advanced control unit LUCD - class 20 - 4.5...18 A - 110...220 V DC/AC





Main

IVIAIII	
Commercial Status	Commercialised
Range of product	TeSys U
Device short name	LUCD
Product or component type	Advanced control unit
Product specific application	Basic protection and advanced functions, communication
Product compatibility	LUFC00 LUFDA01 LUFDA10 LUFDH11 LUFN LUFV2 LUFW10
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	7.5 kW at 400440 V AC 50/60 Hz 9 kW at 500 V AC 50/60 Hz 15 kW at 690 V AC 50/60 Hz
Thermal protection adjustment range	4.518 A
[Uc] control circuit voltage	110240 V AC 110220 V DC
Overload tripping class	Class 20 - frequency limit: 4060 Hz - temperature compensation: -2570 °C - conforming to UL 508 Class 20 - frequency limit: 4060 Hz - temperature compensation: -2570 °C - conforming to IEC 60947-6-2

Complementary

Main function available	Earth fault protection
	Manual reset
	Protection against overload and short-circuit
	Protection against phase failure and phase imbalance
Mounting mode	Plug-in
Mounting location	Front side
Control circuit voltage limits	88264 V for AC circuit 110240 V in operation
	88242 V for DC circuit 110220 V in operation
Typical current consumption	35 mA at 110220 V DC I rms sealed with LUB32
	35 mA at 110220 V DC I rms sealed with LUB12
	280 mA at 110240 V AC I maximum while closing with LUB32
	280 mA at 110240 V AC I maximum while closing with LUB12
	280 mA at 110220 V DC I maximum while closing with LUB32
	280 mA at 110220 V DC I maximum while closing with LUB12
	25 mA at 110240 V AC I rms sealed with LUB32
	25 mA at 110240 V AC I rms sealed with LUB12
Operating time	50 ms closing with LUB32 for control circuit
	50 ms closing with LUB12 for control circuit
	35 ms opening with LUB32 for control circuit
	35 ms opening with LUB12 for control circuit
Load type	3-phase motor - cooling: self-cooled
Tripping threshold	14.2 x lr +/- 20 %

600 V conforming to CSA C22.2 No 14 690 V conforming to IEC 60947-1 600 V conforming to UL 508
6 kV conforming to IEC 60947-6-2
400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1 400 V SELV between the control and auxiliary circuits conforming to IEC 60947-
0.14 kg
3 W for control circuit with LUB32
3 ms
70 % 500 ms conforming to IEC 61000-4-11
CSA C22.2 No 14 type E UL 508 type E with phase barrier IEC 60947-6-2 EN 60947-6-2
ABS ASEFA ATEX BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) UL
IP40 front panel outside connection zone conforming to IEC 60947-1 IP20 other faces conforming to IEC 60947-1 IP20 front panel and wired terminals conforming to IEC 60947-1
TH conforming to IEC 60068
-2570 °C
-4085 °C
2000 m
960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C conforming to IEC 60695-2-12
15 gn power poles closed conforming to IEC 60068-2-27 10 gn power poles open conforming to IEC 60068-2-27
4 gn 5300 Hz power poles closed conforming to IEC 60068-2-6 2 gn 5300 Hz power poles open conforming to IEC 60068-2-6
8 kV level 4 on contact conforming to IEC 61000-4-2 8 kV level 3 in open air conforming to IEC 61000-4-2
2 kV common mode conforming to IEC 60947-6-2 1 kV serial mode conforming to IEC 60947-6-2
10 V/m 3 conforming to IEC 61000-4-3
4 kV class 4 all circuits except for serial link conforming to IEC 61000-4-4 2 kV class 3 serial link conforming to IEC 61000-4-4
10 V conforming to IEC 61000-4-6
Green Premium product

Sustainable offer status	Green Premium product
RoHS	Compliant - since 1015 - Schneider Electric declaration of conformity
REACh	Reference contains SVHC above the threshold - go to CaP for more details
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

