Product datasheet Characteristics

LUCA12FU

standard control unit LUCA - class 10 - 3...12 A - 110...220 V DC/AC



Main

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Range of product	TeSys U
Range	TeSys
Product name	TeSys U
Device short name	LUCA
Product or component type	Standard control unit
Product specific application	Basic protection requirements for motor starters: overload and short-circuit
Product compatibility	LUFC00 LUFN
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	5.5 kW at 500 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz 5.5 kW at 400440 V AC 50/60 Hz
Thermal protection adjustment range	312 A
Control circuit voltage	110240 V AC 110220 V DC
Overload tripping 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

Complementary

Function available	Earth fault protection	
	Manual reset	<u>v</u> .
	Protection against overload and short-circuit	.c
	Protection against phase failure and phase imbalance	<u>7</u>
Mounting mode	Plug-in	
Mounting location	Front side	<u>ې</u> نو
Control circuit voltage limits	88242 V for DC circuit 110220 V in operation	
	88264 V for AC circuit 110240 V in operation	<u> </u>

Typical current consumption	280 mA at 110240 V AC 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 LUB12 25 mA at 110240 V AC I rms sealed with LUB32 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 LUB12 280 mA at 110220 V DC I maximum while closing with LUB32
Operating time	50 ms closing with LUB32 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB32 for control circuit 50 ms closing with LUB12 for control circuit
Load type	3-phase motor - cooling: self-cooled
Tripping threshold	14.2 x lr +/- 20 %
[Ui] rated insulation voltage	600 V conforming to UL 508 690 V conforming to IEC 60947-1 600 V conforming to CSA C22.2 No 14
[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
Product weight	0.135 kg
Compatibility code	LUCA

Environment	
Heat dissipation	2 W for control circuit with LUB12 3 W for control circuit with LUB32
Immunity to microbreaks	3 ms
Immunity to voltage dips	70 % 500 ms conforming to IEC 61000-4-11
Standards	EN 60947-6-2 UL 508 type E with phase barrier CSA C22.2 No 14 type E IEC 60947-6-2
Product certifications	UL ASEFA ABS GL ATEX DNV CCC CSA LROS (Lloyds register of shipping) BV GOST
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	650 °C conforming to IEC 60695-2-12 960 °C parts supporting live components conforming to IEC 60695-2-12
Shock resistance	15 gn power poles closed conforming to IEC 60068-2-27 10 gn power poles open conforming to IEC 60068-2-27
Vibration resistance	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
Resistance to electrostatic discharge	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
Non-dissipating shock wave	2 kV common mode conforming to IEC 60947-6-2 1 kV serial 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	
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	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	🚰 End of life manual	
Product end of life instructions	Available	
	End of life manual	
Contractual warranty		
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To the detail wanterly	
Warranty period	18 months