Product data sheet Characteristics

LUB12 power base - TeSys U - 12 A - screw clamps control



Ν.Л.

TeSys U
LUB
Non reversing power base
3P
Yes
12 A
AC-41 AC-43 AC-44
110220 V DC 110240 V AC 50/60 Hz 24 V AC 50/60 Hz 24 V DC 48 V AC 50/60 Hz 4872 V DC

Complementary

Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Type linked contacts (1 NO + 1 NC) conforming to IEC 60947-4-1 Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1
[Ue] rated operational voltage	230 V 440 V 500 V 690 V
Network frequency	4060 Hz
[le] rated operational current	12 A at <= 440 V 12 A at 500 V 9 A at 690 V
[Ics] rated service breaking capacity	10 kA 500 V 4 kA 690 V 50 kA 230 V 50 kA 440 V
Typical current consumption	 130 mA at 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 140 mA at 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 150 mA at 24 V DC I maximum while closing with LUCM 280 mA at 110220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 110240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 4872 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 4872 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 35 mA at 110220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 35 mA at 110220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 110240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 110220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 110240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 110240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 2472 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 36 mA at 4872 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 37 mA at 4872 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 38 mA at 4872 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 39 mA at 4872 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 30 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 30 mA at 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 30 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 30 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 31 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 31 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 31 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 31 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 31 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD
Safety reliability level	B10d 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Operating time	35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit 50 ms at >= 72 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 60 ms at 48 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 70 ms at 24 V closing with LUCA, LUCB, LUCC, LUCD for control circuit 75 ms closing with LUCM for control circuit



Mechanical durability	15000000 cycles
Operating rate	60 cyc/mn
[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 3
[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 appendix N 400 V SELV between the control or auxiliary circuit and the main circuit conform- ing to IEC 60947-1 appendix N
Connections - terminals	Control circuit: screw clamp terminals 1 cable 0.341.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable 0.751.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 0.751.5 mm ² - cable stiffness: rigid - without cable end Control circuit: screw clamp terminals 2 cable 0.341.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable 0.751.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable 0.751.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 0.751.5 mm ² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 1 cable 110 mm ² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 1 cable 110 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 2 cable 16 mm ² - cable stiffness: flexible - without cable end
Tightening torque	Control circuit: 0.81.2 N.m - with screwdriver 5 mm flat Control circuit: 0.81.2 N.m - with screwdriver 5 mm Philips no 1 Power circuit: 1.92.5 N.m - with screwdriver 6 mm flat Power circuit: 1.92.5 N.m - with screwdriver 6 mm Philips No 2
Width	45 mm
Height	
	145 mm
Depth	145 mm 126 mm

Environment

Heat dissipation	2 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.7 W for control circuit with LUCM
Immunity to microbreaks	3 ms
Immunity to voltage dips	70 % 500 ms conforming to IEC 61000-4-11
Product certifications	ABS ASEFA ATEX BV CCC CSA DNV (Det Norske Veritas) GL GOST LROS (Lloyds register of shipping) UL
Standards	CSA C22-2 No 14 type E EN 60947-6-2 IEC 60947-6-2 UL 508 type E with phase barrier
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	-2560 °C with LUCM -2570 °C with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-4085 °C



Fire resistance	650 °C conforming to IEC 60695-2-12
	960 °C parts supporting live components conforming to IEC 60695-2-12
Operating altitude	2000 m
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 60068-2-27
	4 gn 5300 Hz power poles closed conforming to IEC 60068-2-27
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
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
Non-dissipating shock wave	1 kV serial mode 24240 V AC conforming to IEC 60947-6-2
	1 kV serial mode 48220 V DC conforming to IEC 60947-6-2
	2 kV common mode 24240 V AC conforming to IEC 60947-6-2
	2 kV common mode 48220 V DC conforming to IEC 60947-6-2
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6

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