## Product datasheet Characteristics

# LUB12

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



#### Main

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

### 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	1
Network frequency	4060 Hz	
[le] rated operational current	12 A at <= 440 V 12 A at 500 V 9 A at 690 V	
[lcs] 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 LUCA 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 rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 110240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 4872 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 4872 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 70 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 70 mA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD	
Safety reliability level	B10d 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d 20000000 cycles contactor with mechanical load conforming to 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 conforming to IEC 60947-1 appendix N	
Connections - terminals  Tightening torque	Power circuit: screw clamp terminals 2 cable 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 0.341.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable 0.751.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 0.751.5 mm² - cable stiffness: rigid - without cable end Control circuit: screw clamp terminals 2 cable 0.341.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable 0.751.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 0.751.5 mm² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 1 cable 110 mm² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 1 cable 110 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 2.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm² - cable stiffness: flexible - with cable end	
Lightening 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	126 mm	
Product weight	0.9 kg	
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	
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ATEX GL

Product certifications

	CSA		
	ABS ASEFA		
	LROS (Lloyds register of shipping)		
	GOST		
	DNV		
	BV		
	UL		
	CCC		
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		

#### Contractual warranty

	3	
Warranty period	18 months	