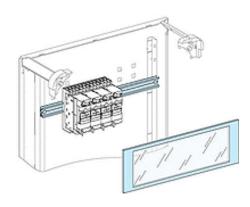
Product datasheet Characteristics

LU2B12B

power base - TeSys U - 12 A - 24 V AC screw clamps control



Main

Main	
Range	TeSys
Product name	TeSys U
Device short name	LU2B
Product or component type	Reversing power base
Poles description	3P
Suitability for isolation	Yes
[lth] conventional free air thermal current	12 A
Utilisation category	AC-43
	AC-41
	AC-44
Control circuit voltage	24 V AC 50/60 Hz

Complementary

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Main	TaO.	
Range	TeSys	
Product name	TeSys U	
Device short name	LU2B	
Product or component type	Reversing power base	
Poles description	3P	
Suitability for isolation	Yes	
[lth] conventional free air thermal current	12 A	
Utilisation category	AC-43	
	AC-41 AC-44	
Control circuit voltage	24 V AC 50/60 Hz	
Control circuit voltage	24 V AC 30/00 112	
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		
[Ue] rated operational voltage	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V	
[Ue] rated operational voltage	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V	
	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V	
Network frequency	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V	
Network frequency	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V 12 A at 500 V	
Network frequency	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V	
Network frequency [le] rated operational current	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V 12 A at 500 V 9 A at 690 V	
Network frequency [le] rated operational current	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V 12 A at 500 V 9 A at 690 V 10 kA 500 V 4 kA 690 V	
[Ue] rated operational voltage Network frequency [le] rated operational current [lcs] rated service breaking capacity	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V 12 A at 500 V 9 A at 690 V	
Network frequency [le] rated operational current [lcs] rated service breaking capacity	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V 12 A at 500 V 9 A at 690 V 10 kA 500 V 4 kA 690 V 50 kA 230 V	
Network frequency [le] rated operational current	Type mirror contact (1 NC) state of the power conforming to draft IEC 60947-1 230 V 440 V 500 V 690 V 4060 Hz 12 A at <= 440 V 12 A at 500 V 9 A at 690 V 10 kA 500 V 4 kA 690 V 50 kA 230 V 50 kA 440 V	

2360 mA at 24 V AC I maximum while closing
25 ms for AC network 50/60 Hz
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
150 ms with change of direction for power circuit 35 ms opening for control circuit 70 ms closing for control circuit 75 ms without change of direction for power circuit
15000000 cycles
60 cyc/mn
600 V conforming to CSA C22.2 No 14 600 V conforming to UL 508 690 V conforming to IEC 60947-1 3
6 kV conforming to IEC 60947-6-2
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
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 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 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 - wit
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
45 mm
224 mm
126 mm
1.27 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
Product certifications	GL BV ATEX ABS CCC ASEFA GOST UL DNV CSA LROS (Lloyds register of shipping)
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 IFC 60947-1

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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 conforming to IEC 60947-6-2 2 kV common mode conforming to IEC 60947-6-2
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6

Contractual warranty

Contractadi Warranty	
Warranty period	18 months