Product datasheet Characteristics

LU2B12BL

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



Main

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Range of product	TeSys U	ر م
Range	TeSys	
Product name	TeSys U	
Device short name	LU2B	———
Product or component type	Reversing power base	
Poles description	3P	<u> </u>
Suitability for isolation	Yes	
[lth] conventional free air thermal current	12 A	a suitability
Utilisation category	AC-41	i
	AC-43	fem
	AC-44	r de
Control circuit voltage	24 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 690 V 500 V 440 V			
Network frequency	4060 Hz			
[le] rated operational current	12 A at 500 V 9 A at 690 V 12 A at <= 440 V			
[lcs] rated service breaking capacity	10 kA 500 V 50 kA 230 V 4 kA 690 V 50 kA 440 V			
Control circuit voltage limits	2027 V 24 V DC in operation			

	14.5 V 24 V DC drop-out				
Typical current consumption	120 mA at 24 V DC I maximum while closing 120 mA at 24 V DC I rms sealed				
Duration of inrush phase	15 ms for DC network				
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	150 ms with change of direction for power circuit 75 ms without change of direction for power circuit 35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit 70 ms 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 UL 508 690 V conforming to IEC 60947-1 3 600 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 appendix N 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947 appendix N				
Connections - terminals Tightening torque	Power circuit: screw clamp terminals 1 cable 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable 16 mm² - cable stiffness: flexible - with 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 Power circuit: screw clamp terminals 1 cable 110 mm² - cable stiffness: rigid - without cable end Power circuit: screw clamp terminals 2 cable 16 mm² - cable stiffness: rigid - 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 1 cable 0.751.5 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable 1.56 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable 2.510 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 0.341.5 mm² - cable stiffness: flexible - without 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 Control circuit: screw clamp terminals 2 cable 0.751.5 mm² - cable stiffness: rigid - without cable end Control circuit: 0.81.2 N.m - with screwdriver 5 mm Philips no 1 Power circuit: 0.81.2 N.m - with screwdriver 6 mm flat Control circuit: 0.81.2 N.m - with screwdriver 6 mm Philips No 2				
Width	45 mm				
Height	224 mm				
Depth	126 mm				
Product weight	1.27 kg				
Compatibility code	LU2B				
Environment	4.7.W for control circuit with LUCM				
Heat dissipation	1.7 W for control circuit with LUCM 2 W for control circuit with LUCA, LUCB, LUCC, LUCD				
Immunity to microbreaks	3 ms				
Immunity to voltage dips	70 % 500 ms conforming to IEC 61000-4-11				
Product certifications	ABS GOST DNV LROS (Lloyds register of shipping) ATEX ASEFA GL CSA BV CCC UL				



Standards	IEC 60947-6-2	
	CSA C22.2 No 14 type E	
	UL 508 type E with phase barrier	
	EN 60947-6-2	
IP degree of protection	IP40 front panel outside connection zone conforming to IEC 60947-1	
	IP20 front panel and wired terminals conforming to IEC 60947-1	
	IP20 other faces 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	4 gn 5300 Hz power poles closed conforming to IEC 60068-2-27	
	2 gn 5300 Hz power poles open conforming to IEC 60068-2-27	
Resistance to electrostatic discharge	8 kV level 3 in open air conforming to IEC 61000-4-2	
Ğ	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	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	
Non-dissipating shock wave	0 kV 24 V DC	
, 3	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	
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6	

Contractual warranty

Warranty period	18 months		