Product data sheet Characteristics

LUB12BH

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

Main

Range of product	TeSys U
Device short name	LUB
Product or component type	Non reversing power base
Poles description	3P
Suitability for isolation	Yes
[lth] conventional free air thermal current	12 A
Utilisation category	AC-41
	AC-43
	AC-44

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
[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 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 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 DC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 4872 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 60 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 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 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

[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- appendix N 400 V SELV between the control or auxiliary circuit and the main circuit conform-
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Connections - terminals	ing to IEC 60947-1 appendix N 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 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 2.510 mm² - cable stiffness: flexible - without 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
Tightening torque	without cable end Power circuit: screw clamp terminals 2 cable 1.56 mm² - cable stiffness: flexible - without cable end 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	0.865 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	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
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Operating altitude	2000 m



10 gn power poles open conforming to IEC 60068-2-27 15 gn power poles closed conforming to IEC 60068-2-27

Shock resistance

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 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 1 kV serial mode 48220 V DC conforming to IEC 60947-6-2 2 kV common mode 48220 V DC conforming to IEC 60947-6-2	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 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 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	Resistance to electrostatic discharge	, , , , , , , , , , , , , , , , , , ,
A kV class 4 all circuits except for serial link conforming to IEC 61000000000000000000000000000000000000	Resistance to radiated fields	10 V/m 3 conforming to IEC 61000-4-3
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 2 kV common mode 48220 V DC conforming to IEC 60947-6-2	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	Non-dissipating shock wave	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

