



Main

Range	TeSys
Product name	TeSys U
Device short name	LUB
Product or component type	Non reversing power base
Device application	Motor
Poles description	3P
Suitability for isolation	Yes
[I _{th}] conventional free air thermal current	12 A
Utilisation category	AC-41 AC-44 AC-43
[U _c] control circuit voltage	110...220 V DC 110...240 V AC 50/60 Hz 24 V AC 50/60 Hz 24 V DC 48 V AC 50/60 Hz 48...72 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
[U _e] rated operational voltage	230 V 440 V 500 V 690 V
Network frequency	40...60 Hz
[I _e] rated operational current	12 A at ≤ 440 V 12 A at 500 V 9 A at 690 V
[I _{cs}] 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 110...220 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 110...240 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 48...72 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 280 mA at 48...72 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 35 mA at 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 35 mA at 48...72 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 AC I rms sealed with LUCA, LUCB, LUCC, LUCD 70 mA at 24 V DC I rms sealed with LUCM
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
[U _i] 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
[U _{imp}] 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	Power circuit : screw clamp terminals 2 cable 1.5...6 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable 0.34...1.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable 0.75...1.5 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable 0.75...1.5 mm ² - cable stiffness: rigid - without cable end Control circuit : screw clamp terminals 2 cable 0.34...1.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable 0.75...1.5 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable 0.75...1.5 mm ² - cable stiffness: rigid - without cable end Power circuit : screw clamp terminals 1 cable 1...10 mm ² - cable stiffness: rigid - without cable end Power circuit : screw clamp terminals 1 cable 1...6 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable 2.5...10 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable 1...6 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable 1...6 mm ² - cable stiffness: rigid - without cable end
Tightening torque	Control circuit : 0.8...1.2 N.m - with screwdriver 5 mm flat Control circuit : 0.8...1.2 N.m - with screwdriver 5 mm Philips no 1 Power circuit : 1.9...2.5 N.m - with screwdriver 6 mm flat Power circuit : 1.9...2.5 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
Product certifications	CCC

CSA
 DNV
 BV
 ATEX
 ASEFA
 GL
 ABS
 GOST
 UL
 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 IEC 60947-1
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-25...60 °C with LUCM -25...70 °C with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-40...85 °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 5...300 Hz power poles open conforming to IEC 60068-2-27 4 gn 5...300 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 24...240 V AC conforming to IEC 60947-6-2 1 kV serial mode 48...220 V DC conforming to IEC 60947-6-2 2 kV common mode 24...240 V AC conforming to IEC 60947-6-2 2 kV common mode 48...220 V DC conforming to IEC 60947-6-2
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0709 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Available End of Life Information

Contractual warranty

Warranty period	18 months
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