Product data sheet
Characteristics

LUB320
Non reversing power base, TeSys Ultra, 3P, 1NO + 1NC, 32A, 690V, Advanced power base



Main

Range	TeSys
Product name	TeSys Ultra
Device short name	LUB
Product or component type	Non reversing power base
Device application	Motor control Motor protection
Poles description	3P
Suitability for isolation	Yes
[Ue] rated operational voltage	690 V AC for power circuit
Network frequency	40...60 Hz
[Ith] conventional free air thermal current	32 A
[Ie] rated operational current	32 A at <= 440 V 23 A at 500 V 21 A at 690 V
Utilisation category	AC-43 AC-44 AC-41
[Ics] rated service breaking capacity	50 KA at 230 V 50 KA at 440 V 10 KA at 500 V 4 KA at 690 V
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) conforming to IEC 60947-1
[Uc] control circuit voltage	24 V AC 50/60 Hz 24 V DC 48...72 V AC 50/60 Hz 48...72 V DC 110...240 V AC 50/60 Hz 110...220 V DC

Complementary

Typical current consumption	200 MA at 24 V DC I maximum while closing with LUCM 220 MA at 24 V AC I maximum while closing with LUCA, LUCB, LUCC, LUCD 220 MA at 24 V DC I maximum while closing with LUCA, LUCB, LUCC, LUCD 25 MA at 110...220 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 25 MA at 110...240 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 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 45 MA at 48...72 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD 45 MA at 48...72 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 75 MA at 24 V DC I rms sealed with LUCM 80 MA at 24 V DC I rms sealed with LUCA, LUCB, LUCC, LUCD 90 MA at 24 V AC I rms sealed with LUCA, LUCB, LUCC, LUCD
Heat dissipation	3 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.8 W for control circuit 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 65 ms closing with LUCM for control circuit
Mechanical durability	15 Mcycles
Maximum operating rate	3600 Cyc/H
Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]ASEFA[RETURN]ATEX[
Standards	EN 60947-6-2 IEC 60947-6-2 UL 60947-4-1, with phase barrier CSA C22.2 No 60947-4-1, with phase barrier
[Ui] rated insulation voltage	690 V conforming to IEC 60947-6-2 (pollution degree 3) 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1

[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 609
Fixing mode	Clipped (DIN rail) Screw-fixed (plate)
Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 1…10 mm² rigid Power circuit: screw clamp terminals 1 cable(s) 1…6 mm² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.5…10 mm² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1…6 mm² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1…6 mm² rigid Power circuit: screw clamp terminals 2 cable(s) 1.5…6 mm² flexible without cable end Control circuit: without connection
Tightening torque	Control circuit: 0.8…1.2 N.m flat screwdriver 5 mm Control circuit: 0.8…1.2 N.m Philips no 1 screwdriver 5 mm Power circuit: 1.9…2.5 N.m flat screwdriver 6 mm Power circuit: 1.9…2.5 N.m Philips No 2 screwdriver 6 mm Power circuit: 1.9…2.5 N.m pozidriv No 2 screwdriver 6 mm
Width	45 Mm
Height	154 Mm
Depth	126 Mm
Net weight	0.865 Kg
Compatibility code	LUB

Environment

IP degree of protection	IP20 conforming to IEC 60947-1 (front panel and wired terminals) IP20 conforming to IEC 60947-1 (other faces) IP40 conforming to IEC 60947-1 (front panel outside connection zone)
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	960 °C parts supporting live components conforming to IEC 60695-2-12 650 °C 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 (f= 5…300 Hz) power poles open conforming to IEC 60068-2-27 4 gn (f= 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
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
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
Resistance to radiated fields	10 V/M 3 conforming to IEC 61000-4-3
Immunity to radioelectric fields	10 V conforming to IEC 61000-4-6
Immunity to microbreaks	3 Ms for control circuit
Immunity to voltage dips	70 % / 500 ms conforming to IEC 61000-4-11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	17.200 Cm
Package 1 Width	5.700 Cm
Package 1 Length	14.500 Cm
Package 1 Weight	821.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm

Package 2 Length	40.000 Cm
Package 2 Weight	8.498 Kg

Offer Sustainability

Recyclability potential, in %	56
Total lifecycle Carbon footprint	28 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7.662967283831802
Carbon footprint of the manufacturing phase [A1 to A3]	8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4386164685946338
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.06226905680640474
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	18.290275694507795
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	18 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	2.007402649624815
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	28
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	61f5a085-dfde-4214-b2cf-ba3cfe0c33b4
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised