LU2B38FU

Reversing power base, TeSys Ultra, 3P, 38A/690V, coil 110-240V AC/DC



Main Range **TeSys** Product name TeSys Ultra LU2B Device short name Product or component Reversing power base type Device application Motor control Motor protection Control unit LUC.X6FU[RETURN]Control Product compatibility unit LUC.1XFU[RETURN]Control unit LUC.05FU[RETURN]Control unit LUC.12FU[RETURN]Control unit LUC.18FU[RETURN]Control unit LUC.32FU[RETURN]Control unit LUC.38FU Poles description Yes Suitability for isolation [Ue] rated operational 690 V AC for power circuit voltage Network frequency 40...60 Hz [Ith] conventional free 38 A air thermal current [le] rated operational 35 A at <= 440 V 28 A at 500 V current 24 A at 690 V AC-43 Utilisation category AC-41 [lcs] rated service 25 KA at 230 V 25 KA at 440 V breaking capacity 10 KA at 500 V 4 kA at 690 V 1 NO + 1 NC Auxiliary contact composition Type linked contacts (1 NO + 1 NC) conforming to Auxiliary contacts type IEC 60947-4-1 Type mirror contact (1 NC) conforming to IEC 60947-1 [Uc] control circuit 110...240 V AC 50/60 Hz

110...220 V DC

55 V DC drop-out

55 V AC drop-out 88...242 V DC in operation 88...264 V AC in operation

Complementary

Typical current consumption	1000 MA at 110220 V DC I maximum while closing 1000 mA at 110240 V AC I maximum while closing
Heat dissipation	3 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.8 W for control circuit with LUCM
Inrush restraint duration	25 Ms AC 50/60 Hz 15 ms DC
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/ISC 13849-1
Operating time	150 ms with change of direction for power circuit35 ms opening for control circuit75 ms without change of direction for power circuit50 ms closing for control circuit

voltage

limits

Control circuit voltage

Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h
Product certifications	CE[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC
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 60947-1 appendix N
Fixing mode	Clipped (DIN rail) Screw-fixed (plate)
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 0.341.5 mm² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 0.751.5 mm² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 0.751.5 mm² rigid Control circuit: screw clamp terminals 2 cable(s) 0.341.5 mm² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 0.751.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 0.751.5 mm² rigid Power circuit: screw clamp terminals 1 cable(s) 110 mm² rigid Power circuit: screw clamp terminals 1 cable(s) 16 mm² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm² flexible without cable end
Tightening torque	Control circuit: 0.81.2 N.m flat screwdriver 5 mm Control circuit: 0.81.2 N.m Philips no 1 screwdriver 5 mm Power circuit: 1.92.5 N.m flat screwdriver 6 mm Power circuit: 1.92.5 N.m Philips No 2 screwdriver 6 mm Power circuit: 1.92.5 N.m pozidriv No 2 screwdriver 6 mm
Width	45 mm
Height	224 mm
Depth	126 mm
Net weight	1.27 kg
Compatibility code	LU2B

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	-2560 °C with LUCM -2570 °C with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-4085 °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= 5300 Hz) power poles open conforming to IEC 60068-2-27 4 gn (f= 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
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	5.5 cm
Package 1 Width	15.0 cm
Package 1 Length	25.5 cm
Package 1 Weight	1.307 kg

Offer Sustainability

REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	[™] China RoHS Declaration
RoHS exemption information	₫Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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