Product data sheet Characteristics

LU2B12FU Reversing power base, TeSys U, 3P, 12A/690V, coil 110-240V AC/DC



Range	TeSys
Product name	TeSys U
Device short name	LU2B
Product or component type	Reversing power base
Device application	Motor control Motor protection
Product compatibility	Control unit LUC.X6FU Control unit LUC.1XFU Control unit LUC.05FU Control unit LUC.12FU
Poles description	3P
Suitability for isolation	Yes
Ue] rated operational voltage	690 V AC power circuit
Network frequency	4060 Hz
th] conventional free ir thermal current	12 A
[le] rated operational current	12 A <= 440 V 12 A 500 V 9 A 690 V
Utilisation category	AC-43 AC-44 AC-41
[lcs] rated service breaking capacity	50 KA 230 V 50 KA 440 V 10 KA 500 V 4 kA 690 V
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Linked contacts 1 NO + 1 NC) IEC 60947-4-1 Mirror contact 1 NC) IEC 60947-1
[Uc] control circuit voltage	110240 V AC 50/60 Hz 110220 V DC
Control circuit voltage limits	55 V DC drop-out 55 V AC drop-out 88242 V DC in operation 88264 V AC in operation

Complementary

Typical current consumption	1000 MA 110220 V DC I maximum while closing 1000 mA 110240 V AC I maximum while closing
Heat dissipation	2 W control circuit with LUCA, LUCB, LUCC, LUCD 1.7 W 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 EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Operating time	150 ms with change of direction power circuit 35 ms opening control circuit 75 ms without change of direction power circuit 50 ms closing control circuit
Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h



Product certifications	CE UL
	CSA
	CCC
	EAC
	ASEFA
	ATEX Marine
Chan danda	
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 IEC 60947-6-2 3)
[]	600 V UL 60947-4-1
	600 V CSA C22.2 No 60947-4-1
[Uimp] rated impulse withstand voltage	6 kVIEC 60947-6-2
Safe separation of circuit	400 V SELV between the control and auxiliary circuits IEC 60947-1 appendix N 400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 appendix N
Fixing mode	Clipped DIN rail)
	Screw-fixed plate)
Connections - terminals	Control circuit screw clamp terminals 1 0.000.00 in ² (0.341.5 mm ²) flexible with cable end
	Control circuit screw clamp terminals 1 0.000.00 in ² (0.751.5 mm ²) flexible
	without cable end
	Control circuit screw clamp terminals 1 0.000.00 in ² (0.751.5 mm ²) rigid
	Control circuit screw clamp terminals 2 0.000.00 in ² (0.341.5 mm ²) flexible
	with cable end
	Control circuit screw clamp terminals 2 0.000.00 in ² (0.751.5 mm ²) flexible without cable end
	Control circuit screw clamp terminals 2 0.000.00 in ² (0.751.5 mm ²) rigid
	Power circuit screw clamp terminals 1 0.000.02 in ² (110 mm ²) rigid
	Power circuit screw clamp terminals 1 0.000.01 in ² (16 mm ²) flexible with cable end
	Power circuit screw clamp terminals 1 0.000.02 in ² (2.510 mm ²) flexible
	without cable end
	Power circuit screw clamp terminals 2 0.000.01 in ² (16 mm ²) flexible with
	cable end
	Power circuit screw clamp terminals 2 0.000.01 in ² (16 mm ²) rigid Power circuit screw clamp terminals 2 0.000.01 in ² (1.56 mm ²) flexible without
	cable end
Tightening torque	Control circuit 7.0810.62 lbf.in (0.81.2 N.m) flat 0.20 in (5 mm)
	Control circuit 7.0810.62 lbf.in (0.81.2 N.m) Philips no 1 0.20 in (5 mm)
	Power circuit 16.8222.13 lbf.in (1.92.5 N.m) flat 0.24 in (6 mm)
	Power circuit 16.8222.13 lbf.in (1.92.5 N.m) Philips No 2 0.24 in (6 mm)
Width	1.77 in (45 mm)
Height	8.82 in (224 mm)
Maximum Depth	4.96 in (126 mm)
Net Weight	2.80 lb(US) (1.27 kg)
Compatibility code	LU2B

Environment

IP degree of protection	IP20 IEC 60947-1 front panel and wired terminals) IP20 IEC 60947-1 other faces) IP40 IEC 60947-1 front panel outside connection zone)
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-13140 °F (-2560 °C) with LUCM -13158 °F (-2570 °C) with LUCA, LUCB, LUCC, LUCD
Ambient air temperature for storage	-40185 °F (-4085 °C)
Fire resistance	1760 °F (960 °C) parts supporting live components IEC 60695-2-12 1202 °F (650 °C) IEC 60695-2-12
Operating altitude	6561.68 ft (2000 m)
Shock resistance	10 gn power poles open IEC 60068-2-27 15 gn power poles closed IEC 60068-2-27
Vibration resistance	2 gn 5300 Hz) power poles open IEC 60068-2-27 4 gn 5300 Hz) power poles closed IEC 60068-2-27
Resistance to electrostatic discharge	8 KV 3 in open air IEC 61000-4-2 8 kV 4 on contact IEC 61000-4-2
Resistance to radiated fields	9.14 V/m (10 V/m) 3 IEC 61000-4-3

Resistance to fast transients	2 KV 3 serial link IEC 61000-4-4	
	4 kV 4 all circuits except for serial link IEC 61000-4-4	
Non-dissipating shock wave	1 KV serial mode IEC 60947-6-2	
	2 kV common mode IEC 60947-6-2	
Immunity to radioelectric fields	10 V IEC 61000-4-6	
Immunity to microbreaks	3 ms control circuit	
Immunity to voltage dips	70 % / 500 ms IEC 61000-4-11	

Ordering and shipping details

111
00785901202547
1
2.86 lb(US) (1.30 kg)
Yes
FR

Packing Units

Unit Type of Package 1PCEPackage 1 Height2.17 in (5.5 cm)Package 1 width6.02 in (15.3 cm)Package 1 Length10.04 in (25.5 cm)Unit Type of Package 2S03Number of Units in Package 29Package 2 Weight27.05 lb(US) (12.268 kg)Package 2 Height11.81 in (30 cm)Package 2 width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)	U	
Package 1 width6.02 in (15.3 cm)Package 1 Length10.04 in (25.5 cm)Unit Type of Package 2S03Number of Units in Package 29Package 2 Weight27.05 lb(US) (12.268 kg)Package 2 Height11.81 in (30 cm)Package 2 width11.81 in (30 cm)	Unit Type of Package 1	PCE
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Unit Type of Package 2S03Number of Units in Package 29Package 2 Weight27.05 lb(US) (12.268 kg)Package 2 Height11.81 in (30 cm)Package 2 width11.81 in (30 cm)	Package 1 width	6.02 in (15.3 cm)
Number of Units in Package 29Package 2 Weight27.05 lb(US) (12.268 kg)Package 2 Height11.81 in (30 cm)Package 2 width11.81 in (30 cm)	Package 1 Length	10.04 in (25.5 cm)
Package 2 Weight 27.05 lb(US) (12.268 kg) Package 2 Height 11.81 in (30 cm) Package 2 width 11.81 in (30 cm)	Unit Type of Package 2	\$03
Package 2 Height 11.81 in (30 cm) Package 2 width 11.81 in (30 cm)	Number of Units in Package 2	9
Package 2 width 11.81 in (30 cm)	Package 2 Weight	27.05 lb(US) (12.268 kg)
	Package 2 Height	11.81 in (30 cm)
Package 2 Length 15.75 in (40 cm)	Package 2 width	11.81 in (30 cm)
	Package 2 Length	15.75 in (40 cm)

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant Celline Compliant Complian
Mercury free	Yes
RoHS exemption information	₽ Yes
China RoHS Regulation	China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty

18 months