Main Range



Complementary

[Ith] conventional free air

[le] rated operational current

[lcs] rated service breaking

Auxiliary contact composition

Auxiliary contacts type

[Uc] control circuit voltage

Control circuit voltage limits

thermal current

Utilisation category

capacity

12 A

AC-43

AC-44 AC-41

12 A at <= 440 V 12 A at 500 V 9 A at 690 V

50 kA at 230 V

50 kA at 440 V

10 kA at 500 V 4 kA at 690 V 1 NO + 1 NC

24 V DC

14.5 V DC drop-out

20...27 V DC in operation

Typical current consumption	120 mA at 24 V DC I maximum while closing 120 mA at 24 V DC I rms sealed
Heat dissipation	2 W for control circuit with LUCA, LUCB, LUCC, LUCD 1.7 W for control circuit with LUCM

type linked contacts (1 NO + 1 NC) conforming to IEC 60947-4-1

type mirror contact (1 NC) conforming to IEC 60947-1

Inrush restraint duration	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/ISO 13849-1
Operating time	150 ms with change of direction for power circuit 75 ms without change of direction for power circuit
	35 ms opening with LUCA, LUCB, LUCC, LUCD, LUCM for control circuit
	75 ms closing with LUCM for control circuit 70 ms closing with LUCA, LUCB, LUCC, LUCD for control circuit
Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h
Product certifications	CE UL
	CSA
	CCC EAC
	ASEFA ATEX
	Marine
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 flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm² flexible with 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

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
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
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.3 kg
Package 1 Height	5.5 cm
Package 1 width	14.7 cm
Package 1 Length	25 cm
Unit Type of Package 2	P06
Number of Units in Package 2	72
Package 2 Weight	110.1 kg
Package 2 Height	77 cm
Package 2 width	60 cm
Package 2 Length	80 cm
Unit Type of Package 3	S03
Number of Units in Package 3	9
Package 3 Weight	12.245 kg
Package 3 Height	30 cm
Package 3 width	30 cm
Package 3 Length	40 cm

Offer Sustainability

REACh Declaration
Compliant EU RoHS Declaration
Yes
Yes
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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
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