



## Main

Range of product	TeSys D
Product or component type	Auxiliary contactor
Device short name	CAD
Contactor application	Control circuit
Utilisation category	DC-13
Control circuit type	DC
Coil type	Standard
Suppressor technology	Bidirectional peak limiting diode
Pole contact composition	5 NO
Control circuit voltage	12 V DC
Connections - terminals	Screw-clamp terminal 1 1...4 mm <sup>2</sup> flexible without Screw-clamp terminal 2 1...4 mm <sup>2</sup> flexible without Screw-clamp terminal 1 1...4 mm <sup>2</sup> flexible with Screw-clamp terminal 2 1...2,5 mm <sup>2</sup> flexible with Screw-clamp terminal 1 1...4 mm <sup>2</sup> solid without Screw-clamp terminal 2 1...4 mm <sup>2</sup> solid without

## Complementary

Contact operation	Mechanically linked IEC 60947-5-1
Control circuit voltage limits	0.1...0.25 U <sub>c</sub> drop-out 0.7...1.25 U <sub>c</sub> operational
Time constant	28 ms
[U <sub>i</sub> ] rated insulation voltage	600 V UL 600 V CSA 690 V III IEC 60947-5-1 3
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV IEC 60947
Tightening torque	1,7 N.m screw-clamp terminal
[U <sub>e</sub> ] rated operational voltage	<= 690 V DC
[I <sub>th</sub> ] conventional free air thermal current	10 A ≤ 60 °C
I <sub>rms</sub> rated making capacity	250 A <= 690 V DC IEC 60947-5-1
Permissible short-time rating	100 A 1 s 120 A 500 ms 140 A 100 ms
Associated fuse rating	10 A gG <= 690 V IEC 60947-5-1
Inrush power in W	5,4 W 20 °C
Hold-in power consumption in W	5,4 W 20 °C
Mechanical durability	30000000 cycles
Operating rate	3 cyc/s 20 °C
Operating time	20 ms +/- 20 % coil de-energisation and NO opening 25 ms +/- 20 % coil de-energisation and NC closing 55 ms +/- 15 % coil energisation and NC opening 63 ms +/- 15 % coil energisation and NO closing
Minimum switching current	5 mA
Minimum switching voltage	17 V
Non-overlap time	1,5 ms on energisation between NC and NO contacts 1,5 ms on de-energisation between NC and NO contacts
Insulation resistance	> 10 MOhm
Height	99 mm
Width	45 mm

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Depth	95 mm
Product weight	0,58 kg

## Environment

Standards	BS 4794 EN 60947-5 IEC 60947-5-1 NF C 63-140 VDE 0660
Product certifications	CSA UL
IP degree of protection	IP2x VDE 0106
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-40...70 °C at Uc -5...60 °C at 0.8...1.1 Uc
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without
Shock resistance	10 gn control relay open 15 gn control relay closed
Vibration resistance	2 gn control relay open 5...300 Hz 4 gn control relay closed 5...300 Hz
RoHS EUR conformity date	0914
RoHS EUR status	Compliant