



## Main

Range of product	TeSys D
Product or component type	Auxiliary contactor
Device short name	CAD
Contact application	Control circuit
Utilisation category	DC-13
Control circuit type	DC
Coil type	Low consumption
Suppressor technology	Bidirectional peak limiting diode
Pole contact composition	3 NO + 2 NC
[Uc] control circuit voltage	12 V DC
Connections - terminals	Screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screwclamp terminal 2 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screwclamp terminal 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Screwclamp terminal 2 cable 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end

## Complementary

Contact operation	Mechanically linked conforming to 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	40 ms
[Ui] rated insulation voltage	600 V - certifications UL 600 V - certifications CSA 690 V - overvoltage category III (pollution degree 3) - conforming to IEC 60947-5-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Tightening torque	1.7 N.m - on screwclamp terminal
[Ue] rated operational voltage	<= 690 V DC
[Ith] conventional free air thermal current	10 A at ≤ 60 °C
I <sub>rms</sub> rated making capacity	250 A at <= 690 V DC conforming to IEC 60947-5-1
Associated fuse rating	10 A gG at <= 690 V conforming to IEC 60947-5-1
Inrush power in W	2.4 W at 20 °C
Hold-in power consumption in W	2.4 W at 20 °C
Mechanical durability	30000000 cycles
Operating rate	3 cyc/s at 20 °C
Operating time	27 ms +/- 20 % coil de-energisation and NO opening 35 ms +/- 20 % coil de-energisation and NC closing 67 ms +/- 15 % coil energisation and NC opening 77 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	77 mm
Width	45 mm
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 conforming to VDE 0106
Protective treatment	TH conforming to 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 derating in temperature
Shock resistance	10 gn control relay open 15 gn control relay closed
Vibration resistance	2 gn 5...300 Hz control relay open 4 gn 5...300 Hz control relay closed
RoHS EUR conformity date	0627
RoHS EUR status	Compliant