



## Main

Range of product	TeSys D control relay
Product or component type	Auxiliary contactor
Device short name	CAD
Contactors application	Control circuit
Utilisation category	AC-14 AC-15
Control circuit type	AC
Coil type	Standard
Suppressor technology	Without built-in
Pole contact composition	5 NO
[Uc] control circuit voltage	500 V AC 50/60 Hz
Connections - terminals	Screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screwclamp terminal 1 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: solid - without cable end Screwclamp terminal 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screwclamp terminal 2 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end

## Complementary

Control circuit voltage limits	0.3...0.6 U <sub>c</sub> drop-out 0.8...1.1 U <sub>c</sub> operational 50 Hz 0.85...1.1 U <sub>c</sub> operational 60 Hz
[Ui] rated insulation voltage	600 V - certifications CSA 600 V - certifications UL 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
[U <sub>e</sub> ] rated operational voltage	<= 690 V AC 25...400 Hz
[I <sub>th</sub> ] conventional free air thermal current	10 A at <= 60 °C
I <sub>rms</sub> rated making capacity	140 A at <= 690 V AC conforming to IEC 60947-5-1
Associated fuse rating	10 A gG at <= 690 V conforming to IEC 60947-5-1
Inrush power in VA	70 VA at 20 °C
Hold-in power consumption in VA	8 VA at 20 °C 50 Hz
Operating rate	3 cyc/s at 20 °C
Operating time	12...22 ms coil energisation and NO closing 4...12 ms coil de-energisation and NO opening 4...19 ms coil energisation and NC opening 6...17 ms coil de-energisation and NC closing
Minimum switching current	5 mA
Minimum switching voltage	17 V
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm
Height	77 mm
Width	45 mm

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Depth	86 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 U <sub>c</sub> -5...60 °C at 0.8...1.1 U <sub>c</sub>
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