



Main

Range of product	TeSys D
Product or component type	Auxiliary contactor
Device short name	CAD
Contactor application	Control circuit
Utilisation category	AC-14 AC-15
Control circuit type	AC
Suppressor technology	Without built-in
Pole contact composition	3 NO + 2 NC
[Uc] control circuit voltage	42 V AC 50/60 Hz
Connections - terminals	Screwclamp terminal 1 cable 1...4 mm ² - cable stiffness: flexible - without cable end Screwclamp terminal 2 cable 1...4 mm ² - cable stiffness: flexible - without cable end Screwclamp terminal 1 cable 1...4 mm ² - cable stiffness: flexible - with cable end Screwclamp terminal 2 cable 1...2.5 mm ² - cable stiffness: flexible - with cable end Screwclamp terminal 1 cable 1...4 mm ² - cable stiffness: solid - without cable end Screwclamp terminal 2 cable 1...4 mm ² - cable stiffness: solid - without cable end

Complementary

Contact operation	Mechanically linked conforming to IEC 60947-5-1
Control circuit voltage limits	0.3...0.6 U _c drop-out 0.8...1.1 U _c operational 50 Hz 0.85...1.1 U _c operational 60 Hz
[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 AC 25...400 Hz
[Ith] conventional free air thermal current	10 A at ≤ 60 °C
I _{rms} 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
Mechanical durability	30000000 cycles
Operating rate	3 cyc/s at 20 °C
Operating time	4...12 ms coil de-energisation and NO opening 4...19 ms coil energisation and NC opening 6...16 ms coil de-energisation and NC closing 12...22 ms 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	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 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