Product data sheet
Characteristics

CAD323M7
TeSys D control relay - 3 NO + 2 NC - <= 690 V - 220 V AC standard coil

Main

Range	TeSys
Product name	TeSys CAD
Product or component type	Control relay
Device short name	CAD
Contactor application	Control circuit
Utilisation category	AC-14 AC-15 DC-13
Pole contact composition	3 NO + 2 NC
[Ue] rated operational voltage	<= 690 V AC 25...400 Hz
Control circuit type	AC 50/60 Hz
Control circuit voltage	220 V AC 50/60 Hz

Complementary

[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
[Ith] conventional free air thermal current	10 A at <= 60 °C
Irms rated making capacity	250 A DC conforming to IEC 60947-5-1 140 A AC conforming to IEC 60947-5-1
[Icw] rated short-time withstand current	140 A 100 ms 120 A 500 ms 100 A 1 s
Associated fuse rating	10 A gG conforming to IEC 60947-5-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-5-1 600 V certifications CSA 600 V certifications UL
Mounting support	Plate Rail
Connections - terminals	Spring terminals 2 cable(s) 1...2.5 mm² - cable stiffness: solid - without cable end Spring terminals 1 cable(s) 1...2.5 mm² - cable stiffness: solid - without cable end Spring terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - without cable end Spring terminals 1 cable(s) 1...2.5 mm² - cable stiffness: flexible - without cable end
Control circuit voltage limits	0.3...0.6 Uc drop-out 0.85...1.1 Uc operational 60 Hz 0.8...1.1 Uc operational 50 Hz
Operating time	6...17 ms coil de-energisation and NC closing 4...19 ms coil energisation and NC opening 4...12 ms coil de-energisation and NO opening 12...22 ms coil energisation and NO closing
Mechanical durability	30 Mcycles
Operating rate	180 cyc/mn
Inrush power in VA	70 VA at 20 °C 50 Hz
Hold-in power consumption in VA	8 VA at 20 °C 50 Hz
Minimum switching voltage	17 V
Minimum switching current	5 mA
Non-overlap time	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm
Height	99 mm
Width	45 mm

Depth	84 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 front face conforming to VDE 0106
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-40...70 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating in temperature
Mechanical robustness	Vibrations control relay closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations control relay open 2 Gn, 5...300 Hz IEC 60068-2-6 Shocks control relay closed 15 Gn for 11 ms IEC 60068-2-27 Shocks control relay open 10 Gn for 11 ms IEC 60068-2-27