Product data sheet Characteristics

CAD50E7

TeSys D control relay - 5 NO - <= 690 V - 48 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

Complementary

Utilisation category	DC-13
	AC-14
	AC-15
Pole contact composition	5 NO
[Ue] rated operational voltage	<= 690 V AC 25400 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	48 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
[Ith] conventional free air thermal current	10 A 140 °F (60 °C)
Irms rated making capacity	140 A AC IEC 60947-5-1 250 A DC IEC 60947-5-1
[lcw] rated short-time withstand current	100 A - 1 s 120 A - 500 ms 140 A - 100 ms
Associated fuse rating	10 A gG IEC 60947-5-1
[Ui] rated insulation voltage	600 V UL 600 V CSA 690 V IEC 60947-5-1
Mounting support	Rail Plate
Connections - terminals	Screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without cable end Screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without cable end Screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end Screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable end Screw clamp terminals 1 0.000.01 in² (14 mm²)solid without cable end Screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable end
Tightening torque	10.62 Lbf.In (1.2 N.m) screw clamp terminals Philips No 2 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
Operating time	1222 ms coil energisation and NO closing 412 ms coil de-energisation and NO opening
Mechanical durability	30 Mcycles
Maximum operating rate	180 cyc/mn
Inrush power in VA	70 VA 50 Hz 68 °F (20 °C))
Hold-in power consumption in VA	8 VA 50 Hz 68 °F (20 °C))
Minimum switching voltage	17 V
Minimum switching current	5 mA

Non-overlap time	1.5 Ms on energisation between NC and NO contact1.5 ms on de-energisation between NC and NO contact
Insulation resistance	> 10 MOhm
Mechanical robustness	Shocks control relay open10 Gn for 11 ms IEC 60068-2-27 Shocks control relay closed15 Gn for 11 ms IEC 60068-2-27 Vibrations control relay open2 Gn, 5300 Hz IEC 60068-2-6 Vibrations control relay closed4 Gn, 5300 Hz IEC 60068-2-6
Height	3.03 in (77 mm)
Width	1.77 in (45 mm)
Maximum Depth	3.31 in (84 mm)
Net Weight	1.28 lb(US) (0.58 kg)
F - 1	
Environment	DC 4704
Standards	BS 4794 EN 60947-5 IEC 60947-5-1 NF C 63-140 VDE 0660
Product certifications	UL CSA
IP degree of protection	IP2x front face VDE 0106
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Ambient air temperature for storage	-76176 °F (-6080 °C)
Operating altitude	09842.52 ft (03000 m)
Ordering and shipping details	
Category	22371 - RELAYS, CONTROL
Discount Schedule	l12
GTIN	00785901667223
Nbr. of units in pkg.	11
Package weight(Lbs)	1.28 lb(US) (0.58 kg)
Returnability	No
Country of origin	FR
Packing Units	
Unit Type of Package 1	PCE
Package 1 Height	2.01 in (5.1 cm)
Package 1 width	3.62 in (9.2 cm)
Package 1 Length	4.37 in (11.1 cm)
Offer Sustainability	
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	☐ REACh Declaration
EU RoHS Directive	Compliant EEU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	☐ China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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Contractual warranty	
Warranty	18 months