

# Product data sheet

Specifications



## TeSys D control relay - 5 NO - <= 690 V - 480 V AC standard coil

CAD50T7

! Discontinued on: 08 October 2021

! End-of-service on: 08 October 2021

! Discontinued

### 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-15 AC-14
Pole contact composition	5 NO
[Ue] rated operational voltage	<= 690 V AC 25...400 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	480 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
[Icw] 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 0.00...0.01 in² (1...4 mm²)flexible without cable end screw clamp terminals 2 0.00...0.01 in² (1...4 mm²)flexible without cable end screw clamp terminals 1 0.00...0.01 in² (1...4 mm²)flexible with cable end screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²)flexible with cable end screw clamp terminals 1 0.00...0.01 in² (1...4 mm²)solid without cable end screw clamp terminals 2 0.00...0.01 in² (1...4 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

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Control circuit voltage limits	0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz
Operating time	12...22 ms coil energisation and NO closing 4...12 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 contact 1.5 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, 5...300 Hz IEC 60068-2-6 Vibrations control relay closed4 Gn, 5...300 Hz IEC 60068-2-6
Height	3.03 in (77 mm)
Width	1.77 in (45 mm)
Depth	3.31 in (84 mm)
Net Weight	1.28 lb(US) (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 VDE 0106
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)

## Ordering and shipping details

Category	22371-RELAYS, CONTROL
Discount Schedule	I12
GTIN	3389110403572
Nbr. of units in pkg.	1
Package weight(Lbs)	10.58 oz (300 g)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
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Package 1 Height	3.70 in (9.4 cm)
Package 1 width	3.19 in (8.1 cm)
Package 1 Length	2.13 in (5.4 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	1
Package 2 Weight	26.63 oz (755 g)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 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 P65Warnings website
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

CAD50T7 is replaced by:

1x



TeSys Deca control relay - 5 NO - <= 690 V - 230 V AC standard coil  
CAD50P7