

# Product data sheet

Specifications



## TeSys Deca control relay - 5 NO - <= 690 V - 48 V AC standard coil

CAD50E7

Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 63.25 USD

### Main

Range	TeSys TeSys Deca
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 25...400 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 (at 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 conforming to 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 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	8 VA 50 Hz (at 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	EN/IEC 60947-5-1 GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1
Product Certifications	CB CCC UL CSA EAC CE UKCA
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	US10I1222371
Discount Schedule	0I12
Gtin	3389110402933
Returnability	No
Country Of Origin	MX

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	4.33 in (11.000 cm)
Package 1 Weight	12.72 oz (360.700 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	20
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	16.28 lb(US) (7.384 kg)

## Contractual warranty

Warranty	18 months
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Sustainability



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Transparency   RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information   [Yes](#)

Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="#">www.P65Warnings.ca.gov</a>