

Product data sheet

Specifications



TeSys Deca control relay - 5 NO - <= 690 V - 110 V AC standard coil

CAD50F7

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys TeSys Deca
Product name	TeSys CAD
Product or Component Type	Control relay
Device short name	CAD
Contactors 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	110 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))
Rms 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 0.002...0.006 in ² (1...4 mm ²)flexible without cable end screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid without cable end
Tightening torque	15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm 15.05 lbf.in (1.7 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.

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	1.8 in (45 mm)
Depth	3.3 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	0112
GTIN	3389110402940
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	3.622 in (9.200 cm)
Package 1 Length	4.409 in (11.200 cm)
Package weight(Lbs)	12.557 oz (356.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	16.376 lb(US) (7.428 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	17
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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EU RoHS Directive	Compliant with Exemptions
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SCIP Number	B67ac941-f42f-4afd-894a-0b6f9cefde62
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REACH Regulation	REACH Declaration
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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
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Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
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Take-back	No
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WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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Image of product / Alternate images

Alternative



