

Product data sheet

Specifications



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

CAD50ED

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
Contactor application	Control circuit

Complementary

Utilisation category	AC-14 DC-13 AC-15
Pole contact composition	5 NO
[Ue] rated operational voltage	<= 690 V AC 25...400 Hz
Control circuit type	DC standard
[Uc] control circuit voltage	48 V DC
[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	Plate Rail
Connections - terminals	screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible without cable end screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)flexible without cable end screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible with cable end screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²)flexible with cable end screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)solid without cable end screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)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
Control circuit voltage limits	0.1...0.25 Uc (-40...158 °F (-40...70 °C)):drop-out DC 0.7...1.25 Uc (-40...140 °F (-40...60 °C)):operational DC 1...1.25 Uc (140...158 °F (60...70 °C)):operational DC

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

Operating time	53...72 ms coil energisation and NO closing 16...24 ms coil de-energisation and NO opening
Mechanical durability	30 Mcycles
Maximum operating rate	180 cyc/mn
Time constant	28 ms
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 W 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	3.7 in (93 mm)
Product 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	3389110405712
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.008 in (5.100 cm)
Package 1 Width	3.386 in (8.600 cm)
Package 1 Length	4.134 in (10.500 cm)
Package weight(Lbs)	18.554 oz (526.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
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	17.977 lb(US) (8.154 kg)

Contractual warranty

Warranty (in months)	18
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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

Total lifecycle Carbon footprint	38 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	33 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	B67ac941-f42f-4afd-894a-0b6f9cefde62
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	75
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Offer Marketing Illustration

Product benefits / Features

TeSys Deca
Control Relays



Performance

Engineered to enhance performance, this solution bridges automation with advanced power architectures to significantly boost motor efficiency.



Versatile

It supports multiple connection methods, including screw clamp terminals, spring terminals, and direct PCB welding, ensuring flexible installation across various applications.



Efficient

It offers connected, efficient products and solutions for switching and protection of motors and electrical loads in compliance with all major global electrical standards.



Offer Marketing Illustration

Product benefits / Features

TeSys Deca
Technical Benefits



- Control relays for AC or DC control circuits (AC15, DC13)
- Up to 5 contacts (with different combinations of NO + NC contacts)
- Various Relay Coil Voltages: A.C, D.C. or low consumption
- Instantaneous contacts on the control relays and time delay auxiliary contact blocks
- Wide range of temperature: - 40°C – 70°C
- A full scope of accessories and spare parts

Image of product / Alternate images

Alternative



