

# Product data sheet

Specifications



## TeSys Deca control relay - 5 NO - <= 690 V - 24 V DC low consumption coil

CAD503BL

⚠ To be discontinued on: Sep 30, 2026

⚠ To be discontinued

Product availability: Stock - Normally stocked in distribution facility

### Main

|                           |                     |
|---------------------------|---------------------|
| Range                     | TeSys<br>TeSys Deca |
| Product name              | TeSys CAD           |
| Product or Component Type | Control relay       |
| Device short name         | CAD                 |
| Contactor application     | Control circuit     |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation category                        | AC-15<br>AC-14<br>DC-13                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pole contact composition                    | 5 NO                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                    |
| Control circuit type                        | DC low consumption                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Uc] control circuit voltage                | 24 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<br>250 A DC IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                           |
| [Icw] rated short-time withstand current    | 100 A - 1 s<br>120 A - 500 ms<br>140 A - 100 ms                                                                                                                                                                                                                                                                                                                                                                            |
| Associated fuse rating                      | 10 A gG conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ui] rated insulation voltage               | 600 V UL<br>600 V CSA<br>690 V IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                               |
| Mounting Support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                              |
| Connections - terminals                     | spring terminals 1 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible without cable end<br>spring terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible without cable end<br>spring terminals 1 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )solid without cable end<br>spring terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )solid without cable end |
| Control circuit voltage limits              | 0.1...0.25 Uc (-40...158 °F (-40...70 °C)):drop-out DC<br>0.7...1.25 Uc (-40...140 °F (-40...60 °C)):operational DC<br>1...1.25 Uc (140...158 °F (60...70 °C)):operational DC                                                                                                                                                                                                                                              |
| Operating time                              | 65...88 ms coil energisation and NO closing<br>14...25 ms coil de-energisation and NO opening                                                                                                                                                                                                                                                                                                                              |

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

|                                |                                                                                                                                                                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical durability          | 30 Mcycles                                                                                                                                                                                                                                           |
| Maximum operating rate         | 180 cyc/mn                                                                                                                                                                                                                                           |
| Time constant                  | 40 ms                                                                                                                                                                                                                                                |
| Inrush power in W              | 2.4 W 68 °F (20 °C))                                                                                                                                                                                                                                 |
| Hold-in power consumption in W | 2.4 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<br>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<br>Shocks control relay closed15 Gn for 11 ms IEC 60068-2-27<br>Vibrations control relay open2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations control relay closed4 Gn, 5...300 Hz IEC 60068-2-6 |
| Height                         | 3.9 in (99 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<br>GB/T 14048.5<br>UL 60947-5-1<br>CSA C22.2 No 60947-5-1<br>JIS C8201-5-1 |
| Product Certifications                | CB<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                 |
| IP degree of protection               | IP2X VDE 0106                                                                               |
| Protective treatment                  | TH IEC 60068                                                                                |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C)<br>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              | 3389110820713 |
| Returnability     | Yes           |
| Country of origin | ID            |

## Packing Units

|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg.  | 1   |

|                              |                          |
|------------------------------|--------------------------|
| Package 1 Height             | 2.165 in (5.500 cm)      |
| Package 1 Width              | 4.331 in (11.000 cm)     |
| Package 1 Length             | 4.724 in (12.000 cm)     |
| Package weight(Lbs)          | 19.400 oz (550.000 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             | 19.511 lb(US) (8.850 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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                       | 20 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]     | 15 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 2 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## 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                      | <a href="#">Compliant By Exemption</a>                                                                                                                                                                                                                    |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</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="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                               |                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in % | 75                                                                                                                                                                                                               |
| Circularity Profile           | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| 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

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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

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