

# Product datasheet

Specifications



## TeSys D control relay - 3 NO + 2 NC - $\leq 690$ V - 110 V AC standard coil

CAD32F7

EAN Code: 3389110534276

### Main

|                           |                     |
|---------------------------|---------------------|
| Range                     | TeSys<br>TeSys Deca |
| Product Name              | TeSys CAD           |
| Product Or Component Type | Control relay       |
| Device Short Name         | CAD                 |
| Contactors Application    | Control circuit     |

### Complementary

|   |  |
|---|--|
| Utilisation Category                        | AC-15<br>AC-14<br>DC-13  |
| Pole Contact Composition                    | 3 NO + 2 NC  |
| [Ue] Rated Operational Voltage              | $\leq 690$ V AC 25...400 Hz  |
| Control Circuit Type                        | AC at 50/60 Hz   |
| [Uc] Control Circuit Voltage                | 110 V AC 50/60 Hz  |
| [Uimp] Rated Impulse Withstand Voltage      | 6 kV conforming to IEC 60947   |
| [Ith] Conventional Free Air Thermal Current | 10 A (at 60 °C)  |
| Irms Rated Making Capacity                  | 140 A AC conforming to IEC 60947-5-1<br>250 A DC conforming to 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 certified<br>600 V CSA certified<br>690 V conforming to IEC 60947-5-1   |
| Mounting Support                            | Rail<br>Plate  |
| Connections - Terminals                     | Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end |
| Tightening Torque                           | 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2   |

|  |  |
|--|--|
| <b>Control Circuit Voltage Limits</b>  | 0.3...0.6 Uc (-40...70 °C):drop-out AC 50/60 Hz<br>0.8...1.1 Uc (-40...60 °C):operational AC 50 Hz<br>0.85...1.1 Uc (-40...60 °C):operational AC 60 Hz<br>1...1.1 Uc (60...70 °C):operational AC 50/60 Hz  |
| <b>Operating Time</b>                  | 12...22 ms coil energisation and NO closing<br>4...12 ms coil de-energisation and NO opening<br>4...19 ms coil energisation and NC opening<br>6...17 ms coil de-energisation and NC closing  |
| <b>Mechanical Durability</b>           | 30 Mcycles   |
| <b>Maximum Operating Rate</b>          | 180 cyc/mn   |
| <b>Inrush Power In Va</b>              | 70 VA 50 Hz (at 20 °C)   |
| <b>Hold-In Power Consumption In Va</b> | 8 VA 50 Hz (at 20 °C)  |
| <b>Minimum Switching Voltage</b>       | 17 V   |
| <b>Minimum Switching Current</b>       | 5 mA   |
| <b>Non-Overlap Time</b>                | 1.5 ms on energisation between NC and NO contact<br>1.5 ms on de-energisation between NC and NO contact  |
| <b>Insulation Resistance</b>           | > 10 MOhm  |
| <b>Mechanical Robustness</b>           | Shocks control relay open: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations control relay open: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations control relay closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 |
| <b>Height</b>                          | 77 mm  |
| <b>Width</b>                           | 45 mm  |
| <b>Depth</b>                           | 84 mm  |
| <b>Net Weight</b>                      | 0.58 kg  |

## Environment

|  |   |
|--|---|
| <b>Standards</b>                             | 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 |
| <b>Product Certifications</b>                | CB<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA   |
| <b>Ip Degree Of Protection</b>               | IP2X front face conforming to VDE 0106  |
| <b>Protective Treatment</b>                  | TH conforming to IEC 60068  |
| <b>Ambient Air Temperature For Operation</b> | -40...60 °C<br>60...70 °C with derating   |
| <b>Ambient Air Temperature For Storage</b>   | -60...80 °C   |
| <b>Operating Altitude</b>                    | 0...3000 m  |

## Packing Units

|                                     |        |
|-------------------------------------|--------|
| <b>Unit Type Of Package 1</b>       | PCE    |
| <b>Number Of Units In Package 1</b> | 1      |
| <b>Package 1 Height</b>             | 5.5 cm |
| <b>Package 1 Width</b>              | 9.5 cm |

|                                     |          |
|-------------------------------------|----------|
| <b>Package 1 Length</b>             | 11.4 cm  |
| <b>Package 1 Weight</b>             | 353 g    |
| <b>Unit Type Of Package 2</b>       | S02      |
| <b>Number Of Units In Package 2</b> | 20       |
| <b>Package 2 Height</b>             | 15 cm    |
| <b>Package 2 Width</b>              | 30 cm    |
| <b>Package 2 Length</b>             | 40 cm    |
| <b>Package 2 Weight</b>             | 7.575 kg |
| <b>Unit Type Of Package 3</b>       | P06      |
| <b>Number Of Units In Package 3</b> | 320      |
| <b>Package 3 Height</b>             | 80 cm    |
| <b>Package 3 Width</b>              | 80 cm    |
| <b>Package 3 Length</b>             | 60 cm    |
| <b>Package 3 Weight</b>             | 128.1 kg |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

RoHS Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu RoHS Directive Compliant with Exemptions

China RoHS Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)