



## 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                        | DC-13<br>AC-15<br>AC-14  |
| Pole contact composition                    | 3 NO + 2 NC  |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz  |
| Control circuit type                        | DC standard  |
| [Uc] control circuit voltage                | 72 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[RETURN] 600 V CSA[RETURN] 690 V IEC 60947-5-1   |
| Mounting Support                            | Rail<br>Plate  |
| Connections - terminals                     | Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end<br>Screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end |
| Tightening torque                           | 10.62 Lbf.In (1.2 N.m) screw clamp terminals Philips No 2<br>10.62 Lbf.In (1.2 N.m) screw clamp terminals flat Ø 6 mm<br>10.62 Lbf.in (1.2 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<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                              | 53...72 ms coil energisation and NO closing<br>16...24 ms coil de-energisation and NO opening<br>47...63 ms coil energisation and NC opening<br>15...25 ms coil de-energisation and NC closing   |
| 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)  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                           |  |
|---------------------------|--|
| 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 open 10 Gn for 11 ms IEC 60068-2-27<br>Shocks control relay closed 15 Gn for 11 ms IEC 60068-2-27<br>Vibrations control relay open 2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations control relay closed 4 Gn, 5...300 Hz IEC 60068-2-6 |
| Height                    | 3.03 in (77 mm)  |
| Width                     | 1.77 in (45 mm)  |
| Depth                     | 3.66 in (93 mm)  |
| Net 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>Scheme [RETURN] CCC [RETURN] UL [RETURN] CSA [RETURN] EAC [RETURN] CE [RETURN] UKCA [RETURN] |
| 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)<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          | 22371-RELAYS, CONTROL |
| Discount Schedule | I12                   |
| GTIN              | 3389110405385         |
| Returnability     | No                    |
| Country of origin | FR                    |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 2.01 in (5.1 cm)        |
| Package 1 Width              | 3.39 in (8.6 cm)        |
| Package 1 Length             | 4.17 in (10.6 cm)       |
| Package 1 Weight             | 18.69 oz (530.0 g)      |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 15                      |
| Package 2 Height             | 5.91 in (15.0 cm)       |
| Package 2 Width              | 11.81 in (30.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)      |
| Package 2 Weight             | 18.53 lb(US) (8.405 kg) |

## Offer Sustainability

|                           |   |
|---------------------------|---|
| Sustainable offer status  | Green Premium product   |
| 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> |
| REACH Regulation          |  <a href="#">REACH Declaration</a>   |
| EU RoHS Directive         | Compliant with Exemptions   |
| Mercury free              | Yes   |

|                            |  |
|----------------------------|--|
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>   |
| RoHS exemption information | <a href="#">Yes</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#">End Of Life Information</a>  |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|