



Main

|                           |                       |
|---------------------------|-----------------------|
| Range of product          | TeSys D control relay |
| Range                     | TeSys                 |
| Product name              | TeSys CAD             |
| Product or component type | Control relay         |
| Device short name         | CAD                   |
| Contactors application    | Control circuit       |

Complementary

|   |  |
|---|--|
| Utilisation category                        | AC-14<br>AC-15<br>DC-13  |
| Pole contact composition                    | 5 NO   |
| [Ue] rated operational voltage              | $\leq 690$ V AC 25...400 Hz  |
| Control circuit type                        | DC standard  |
| [Uc] control circuit voltage                | 24 V DC  |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to IEC 60947   |
| [Ith] conventional free air thermal current | 10 A at $\leq 60$ °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               | 690 V conforming to IEC 60947-5-1<br>600 V certifications UL<br>600 V certifications CSA               |
| Mounting support                            | Plate<br>Rail  |
| Connections - terminals                     | Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end |

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

|                                |  |
|--------------------------------|--|
|                                | Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: 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  |
| Control circuit voltage limits | 0.1...0.25 Uc drop-out<br>0.7...1.25 Uc operational  |
| Operating time                 | 53...72 ms coil energisation and NO closing<br>16...24 ms coil de-energisation and NO opening  |
| Mechanical durability          | 30 Mcycles   |
| Operating rate                 | 180 cyc/mn   |
| Time constant                  | 28 ms  |
| Inrush power in W              | 5.4 W at 20 °C   |
| Hold-in power consumption in W | 5.4 W at 20 °C   |
| Minimum switching voltage      | 17 V   |
| Minimum switching current      | 5 mA   |
| Non-overlap time               | 1.5 ms on de-energisation (between NC and NO contact)<br>1.5 ms on 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                         | 77 mm  |
| Width                          | 45 mm  |
| Depth                          | 93 mm  |
| Product weight                 | 0.58 kg  |
| Compatibility code             | CAD  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | VDE 0660<br>IEC 60947-5-1<br>NF C 63-140<br>BS 4794<br>EN 60947-5 |
| Product certifications                | CSA<br>UL   |
| IP degree of protection               | IP2x front face conforming to VDE 0106                            |
| Protective treatment                  | TH conforming to IEC 60068  |
| Ambient air temperature for operation | -40...70 °C   |
| Ambient air temperature for storage   | -60...80 °C   |
| Operating altitude                    | 3000 m without derating in temperature                            |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 0627 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |
| Product environmental profile    | Available<br><a href="#">Product environmental</a>  |
| Product end of life instructions | Available<br><a href="#">End of life manual</a>   |

## Contractual warranty

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| Warranty period | 18 months |
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