



## Main

|                                |                         |
|--------------------------------|-------------------------|
| Range                          | TeSys                   |
| Product name                   | TeSys CAD               |
| Product or component type      | Control relay           |
| Device short name              | CAD                     |
| Contactor application          | Control circuit         |
| Utilisation category           | AC-14<br>AC-15<br>DC-13 |
| Pole contact composition       | 3 NO + 2 NC             |
| [Ue] rated operational voltage | ≤ 690 V AC 25...400 Hz  |
| Control circuit type           | DC standard             |
| Control circuit voltage        | 12 V DC                 |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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                  | 250 A DC conforming to IEC 60947-5-1<br>140 A AC conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Icw] rated short-time withstand current    | 140 A 100 ms<br>120 A 500 ms<br>100 A 1 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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 CSA<br>600 V certifications UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Connections - terminals                     | Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without 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...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: flexible - with cable end<br>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 - without cable end |
| Tightening torque                           | 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 Philips No 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Control circuit voltage limits              | 0.1...0.25 U <sub>c</sub> drop-out<br>0.7...1.25 U <sub>c</sub> operational                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating time                              | 15...25 ms coil de-energisation and NC closing<br>47...63 ms coil energisation and NC opening<br>16...24 ms coil de-energisation and NO opening<br>53...72 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mechanical durability                       | 30 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operating rate                              | 180 cyc/mn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Time constant                               | 28 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products 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.

|                                |                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| 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                                                                                                   |
| Height                         | 77 mm                                                                                                       |
| Width                          | 45 mm                                                                                                       |
| Depth                          | 93 mm                                                                                                       |
| Product weight                 | 0.58 kg                                                                                                     |

## Environment

|                                       |                                                                                                                                                                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | BS 4794<br>EN 60947-5<br>IEC 60947-5-1<br>NF C 63-140<br>VDE 0660                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                   |
| Mechanical robustness                 | Vibrations control relay closed 4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations control relay open 2 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks control relay closed 15 Gn for 11 ms IEC 60068-2-27<br>Shocks control relay open 10 Gn for 11 ms IEC 60068-2-27 |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS                             | Compliant - since 0627 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |