

## 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        | 36 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                     | Lugs-ring terminals - external diameter: 8 mm  |
| Control circuit voltage limits              | 0.1...0.25 Uc drop-out<br>0.7...1.25 Uc 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  |
| 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 |