



## Main

|                                |                             |
|--------------------------------|-----------------------------|
| 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       | 5 NO                        |
| [Ue] rated operational voltage | $\leq 690$ V AC 25...400 Hz |
| Control circuit type           | DC low consumption          |
| Control circuit voltage        | 24 V DC                     |

## Complementary

|   |  |
|---|--|
| [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                  | 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 $\varnothing$ 6 mm<br>1.2 N.m - on screw clamp terminals - with screwdriver Phillips 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                              | 14...25 ms coil de-energisation and NO opening<br>65...88 ms coil energisation and NO closing  |
| Mechanical durability                       | 30 Mcycles   |
| Operating rate                              | 180 cyc/mn   |
| Time constant                               | 40 ms  |
| Inrush power in W                           | 2.4 W at 20 °C   |
| Hold-in power consumption in W              | 2.4 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 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> |
| Product environmental profile    | Available   |
| Product end of life instructions | Need no specific recycling operations   |