



Main

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| Range | TeSys |
| Product name | TeSys CAD |
| Product or component type | Control relay |
| Device short name | CAD |
| Contactors application | Control circuit |

Complementary

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| Utilisation category | AC-14 AC-15 DC-13 |
| 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 | 24 V DC |
| [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 | 140 A AC conforming to IEC 60947-5-1 250 A DC conforming to IEC 60947-5-1 |
| [Icw] rated short-time withstand current | 100 A 1 s 120 A 500 ms 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 60947-5-1 600 V certifications UL 600 V certifications CSA |
| Mounting support | Plate Rail |
| Connections - terminals | Screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end |
| Tightening torque | 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| Control circuit voltage limits | 0.1...0.25 U _c drop-out 0.7...1.25 U _c operational |
| Operating time | 15...25 ms coil de-energisation and NC closing 53...72 ms coil energisation and NO closing 16...24 ms coil de-energisation and NO opening 47...63 ms coil energisation and NC 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 |

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| Minimum switching current | 5 mA |
| Non-overlap time | 1.5 ms on de-energisation (between NC and NO contact) 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 Shocks control relay closed 15 Gn for 11 ms IEC 60068-2-27 Vibrations control relay open 2 Gn, 5...300 Hz IEC 60068-2-6 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 |

Environment

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|---------------------------------------|-------------------------------------------------------------------|
| standards | VDE 0660 IEC 60947-5-1 NF C 63-140 BS 4794 EN 60947-5 |
| product certifications | CSA 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

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|----------------------------------|-----------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0627 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |