# Product datasheet
## Characteristics

# CAD32FD
## TeSys D control relay - 3 NO + 2 NC - <= 690 V - 110 V DC standard coil

## Main

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

## Complementary

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|---|---|
| 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 | 110 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<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 mm² - cable stiffness: flexible - without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - with cable end |

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|---|---|
| | Screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: solid - without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm² - 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 | 15...25 ms coil de-energisation and NC closing<br>53...72 ms coil energisation and NO closing<br>16...24 ms coil de-energisation and NO opening<br>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 |
| 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 |

## Environment

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|---|---|
| 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

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

## Contractual warranty

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| Warranty period | 18 months |