

Product datasheet

Specifications



Control relay, TeSys Deca, 5NO, 0 to 690V, 24VDC standard coil, Lugs-ring terminals

CAD506BD

Main

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

Complementary

| | |
|---|--|
| Utilisation category | AC-14 DC-13 AC-15 |
| Pole contact composition | 5 NO |
| [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 | 600 V UL certified 600 V CSA certified 690 V conforming to IEC 60947-5-1 |
| mounting support | Rail Plate |
| Connections - terminals | Lugs-ring terminals (external diameter: 8 mm) |
| Control circuit voltage limits | 0.1...0.25 U _c (-40...70 °C):drop-out DC 0.7...1.25 U _c (-40...60 °C):operational DC 1...1.25 U _c (60...70 °C):operational DC |
| Operating time | 53...72 ms coil energisation and NO closing 16...24 ms coil de-energisation and NO opening |
| Mechanical durability | 30 Mcycles |
| Maximum 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 energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact |
| Insulation resistance | > 10 MOhm |
| Mechanical robustness | Shocks control relay open: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations control relay open: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 Vibrations control relay closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 |
| Height | 77 mm |
| Width | 45 mm |
| Depth | 93 mm |
| net weight | 0.58 kg |

Environment

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|---------------------------------------|---|
| Standards | EN/IEC 60947-5-1 GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 |
| Product certifications | CB CCC UL CSA EAC CE UKCA |
| IP degree of protection | IP2X front face conforming to VDE 0106 |
| Protective treatment | TH conforming to IEC 60068 |
| Ambient air temperature for operation | -40...60 °C 60...70 °C with derating |
| Ambient air temperature for storage | -60...80 °C |
| Operating altitude | 0...3000 m |

Packing Units

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.0 cm |
| Package 1 Width | 8.5 cm |
| Package 1 Length | 10.5 cm |
| Package 1 Weight | 517.0 g |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

RoHS Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu RoHS Directive Compliant with Exemptions

China RoHS Regulation [China RoHS declaration](#)
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)