# **Product datasheet**

Specifications





# TeSys D control relay - 3 NO + 2 NC - <= 690 V - 48 V AC standard coil

CAD323E7

#### Main

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

### Complementary

| Complementary                               |  |
|---|--|
| Utilisation category                        | AC-15<br>DC-13<br>AC-14  |
| Pole contact composition                    | 3 NO + 2 NC  |
| [Ue] rated operational voltage              | <= 690 V AC 25400 Hz   |
| Control circuit type                        | AC at 50/60 Hz   |
| [Uc] control circuit voltage                | 48 V AC 50/60 Hz   |
| [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               | 600 V UL certified<br>600 V CSA certified<br>690 V conforming to IEC 60947-5-1   |
| Mounting support                            | Plate<br>Rail  |
| Connections - terminals                     | Spring terminals 1 cable(s) 12.5 mm²flexible without cable end<br>Spring terminals 2 cable(s) 12.5 mm²flexible without cable end<br>Spring terminals 1 cable(s) 12.5 mm²solid without cable end<br>Spring terminals 2 cable(s) 12.5 mm²solid without cable end |
| Control circuit voltage limits              | 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz<br>0.81.1 Uc (-4060 °C):operational AC 50 Hz<br>0.851.1 Uc (-4060 °C):operational AC 60 Hz<br>11.1 Uc (6070 °C):operational AC 50/60 Hz  |
| Operating time                              | 1222 ms coil energisation and NO closing<br>412 ms coil de-energisation and NO opening<br>419 ms coil energisation and NC opening<br>617 ms coil de-energisation and NC closing  |

| Mechanical durability           | 30 Mcycles   |
|---------------------------------|--|
| Maximum operating rate          | 180 cyc/mn   |
| Inrush power in VA              | 70 VA 50 Hz (at 20 °C)   |
| Hold-in power consumption in VA | 8 VA 50 Hz (at 20 °C)  |
| Minimum switching voltage       | 17 V   |
| Minimum switching current       | 5 mA   |
| Non-overlap time                | <ul><li>1.5 ms on energisation between NC and NO contact</li><li>1.5 ms on de-energisation between NC and NO contact</li></ul>   |
| Insulation resistance           | > 10 MOhm  |
|                                 |  |
| Mechanical robustness           | Shocks control relay open: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations control relay open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6<br>Vibrations control relay closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 |
| Mechanical robustness           | Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations control relay open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6  |
|                                 | Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations control relay open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6<br>Vibrations control relay closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6  |
| Height                          | Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations control relay open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6<br>Vibrations control relay closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6<br>99 mm   |

### Environment

| Standards                             | EN/IEC 60947-5-1<br>GB/T 14048.5<br>UL 60947-5-1<br>CSA C22.2 No 60947-5-1<br>JIS C8201-5-1 |
|---------------------------------------|---|
| Product certifications                | CB<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA   |
| IP degree of protection               | IP2X front face conforming to VDE 0106  |
| Protective treatment                  | TH conforming to IEC 60068  |
| Ambient air temperature for operation | -4060 °C<br>6070 °C with derating   |
| Ambient air temperature for storage   | -6080 °C  |
| Operating altitude                    | 03000 m   |

# **Packing Units**

| •                            |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 5.300 cm  |
| Package 1 Width              | 10.700 cm |
| Package 1 Length             | 12.300 cm |
| Package 1 Weight             | 383.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 15        |
| Package 2 Height             | 15.000 cm |

| Package 2 Width              | 30.000 cm  |
|------------------------------|------------|
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 6.176 kg   |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 240        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 109.348 kg |

### **Contractual warranty**

Warranty

12 months

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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

Yes

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Guide to assess a product's sustainability >



Transparency RoHS/REACh

#### Well-being performance



Rohs Exemption Information

#### **Certifications & Standards**

| Reach Regulation         | REACh Declaration   |
|--------------------------|---|
| Eu Rohs Directive        | Compliant with Exemptions   |
| China Rohs Regulation    | China RoHS declaration<br>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   |