# **Product datasheet**

Specifications





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

CAD32F7

#### 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>AC-14<br>DC-13  |
| 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                   | 110 V AC 50/60 Hz  |
| [Uimp] Rated Impulse Withstand<br>Voltage      | 6 kV conforming to IEC 60947   |
| [Ith] Conventional Free Air<br>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<br>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                               | Rail<br>Plate  |
| Connections - Terminals                        | Screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> solid without cable end<br>Screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> solid without cable end |
| Tightening Torque                              | <ul> <li>1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2</li> <li>1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</li> <li>1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2</li> </ul>   |

| 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                  | <ul> <li>1222 ms coil energisation and NO closing</li> <li>412 ms coil de-energisation and NO opening</li> <li>419 ms coil energisation and NC opening</li> <li>617 ms coil de-energisation and NC closing</li> </ul>  |
| 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                | 1.5 ms on energisation between NC and NO contact<br>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<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 |
| Height                          | 77 mm  |
| Width                           | 45 mm  |
| Depth                           | 84 mm  |
| Net Weight                      | 0.58 kg  |

### 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<br>Operation | -40…60 °C<br>60…70 °C with derating   |
| Ambient Air Temperature For<br>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             | 5.5 cm |
| Package 1 Width              | 9.5 cm |

| Package 1 Length             | 11.4 cm  |
|------------------------------|----------|
| Package 1 Weight             | 353 g    |
| Unit Type Of Package 2       | S02      |
| Number Of Units In Package 2 | 20       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 7.575 kg |
| Unit Type Of Package 3       | P06      |
| Number Of Units In Package 3 | 320      |
| Package 3 Height             | 80 cm    |
| Package 3 Width              | 80 cm    |
| Package 3 Length             | 60 cm    |
| Package 3 Weight             | 128.1 kg |

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen

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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<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   |