# **Product datasheet**

Specifications





# TeSys D control relay - 3 NO + 2 NC - <= 690 V - 125 V DC

standard coil

Local distributor code: 381795568

CAD32GD

#### EAN Code: 3389110404258

#### 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                           | DC-13<br>AC-14<br>AC-15   |
| Pole Contact Composition                       | 3 NO + 2 NC   |
| [Ue] Rated Operational Voltage                 | <= 690 V AC 25400 Hz  |
| Control Circuit Type                           | DC standard   |
| [Uc] Control Circuit Voltage                   | 125 V DC  |
| [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) 125 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                 | 0.10.25 Uc (-4070 °C):drop-out DC<br>0.71.25 Uc (-4060 °C):operational DC<br>11.25 Uc (6070 °C):operational DC  |

| Operating Time                 | <ul> <li>5372 ms coil energisation and NO closing</li> <li>1624 ms coil de-energisation and NO opening</li> <li>4763 ms coil energisation and NC opening</li> <li>1525 ms coil de-energisation and NC closing</li> </ul>   |
|--------------------------------|--|
| 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<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                          | 93 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 | -4060 °C<br>6070 °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 cm    |
| Package 1 Width              | 9.2 cm  |
| Package 1 Length             | 11.2 cm |
| Package 1 Weight             | 497 g   |

| Unit Type Of Package 2       | S02       |
|------------------------------|-----------|
| Number Of Units In Package 2 | 15        |
| Package 2 Height             | 15 cm     |
| Package 2 Width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 7.784 kg  |
| Unit Type Of Package 3       | P06       |
| Number Of Units In Package 3 | 240       |
| Package 3 Height             | 75 cm     |
| Package 3 Width              | 60 cm     |
| Package 3 Length             | 80 cm     |
| Package 3 Weight             | 142.02 kg |

# **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

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Yes

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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   |