

# CAD32V7

Control relay, TeSys Deca, 3NO+2NC, 0 to 690V, 400VAC 50/60Hz standard coil, screw clamp



## 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

|   |  |
|---|--|
| Utilisation category                        | AC-15<br>AC-14<br>DC-13  |
| Pole contact composition                    | 3 NO + 2 NC  |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz  |
| Control circuit type                        | AC at 50/60 Hz   |
| [Uc] control circuit voltage                | 400 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[RETURN]600 V CSA certified[RETURN]690 V conforming to IEC 60947-5-1   |
| Mounting support                            | Plate<br>Rail  |
| Connections - terminals                     | Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> 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<br>1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2   |
| Control circuit voltage limits              | 0.3...0.6 Uc (-40...70 °C):drop-out AC 50/60 Hz<br>0.8...1.1 Uc (-40...60 °C):operational AC 50 Hz<br>0.85...1.1 Uc (-40...60 °C):operational AC 60 Hz<br>1...1.1 Uc (60...70 °C):operational AC 50/60 Hz  |
| Operating time                              | 12...22 ms coil energisation and NO closing<br>4...12 ms coil de-energisation and NO opening<br>4...19 ms coil energisation and NC opening<br>6...17 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                | 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, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations control relay closed: 4 Gn, 5...300 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[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE[RETURN]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<br>60...70 °C with derating   |
| Ambient air temperature for storage   | -60...80 °C   |
| Operating altitude                    | 0...3000 m  |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 5.000 cm   |
| Package 1 Width              | 9.200 cm   |
| Package 1 Length             | 11.200 cm  |
| Package 1 Weight             | 355.000 g  |
| Unit Type of Package 2       | S02        |
| Number of Units in Package 2 | 20         |
| Package 2 Height             | 15.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 7.462 kg   |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 320        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 130.891 kg |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           |  <a href="#">REACH Declaration</a>      |
| EU RoHS Directive          | Compliant with Exemptions  |
| Mercury free               | Yes  |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a> |
| RoHS exemption information |  Yes                                    |

|                             |  |
|-----------------------------|--|
| Environmental Disclosure    |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile         |  <a href="#">End Of Life Information</a>      |
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins    |
| <b>Contractual warranty</b> |  |
| Warranty                    | 18 months  |