

# Product datasheet

Specifications



## TeSys D control relay - 3 NO + 2 NC - <= 690 V - 24 V AC standard coil

CAD32B7

### 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-14<br>AC-15<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                | 24 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                     | Screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end<br>Screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm²solid 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                             | BS 4794<br>EN 60947-5<br>IEC 60947-5-1<br>NF C 63-140<br>VDE 0660<br>IEC 60335-1 |
| Product certifications                | CSA<br>UL<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 | -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 Weight             | 357.0 g |
| Package 1 Height             | 5 cm    |
| Package 1 width              | 9.2 cm  |
| Package 1 Length             | 11.2 cm |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 20      |

|                              |           |
|------------------------------|-----------|
| Package 2 Weight             | 7.474 kg  |
| Package 2 Height             | 15 cm     |
| Package 2 width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 320       |
| Package 3 Weight             | 130.02 kg |
| Package 3 Height             | 77 cm     |
| Package 3 width              | 60 cm     |
| Package 3 Length             | 80 cm     |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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 |

### Contractual warranty

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