



## 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                        | DC-13<br>AC-15<br>AC-14  |
| Pole contact composition                    | 3 NO + 2 NC  |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz  |
| Control circuit type                        | DC standard  |
| [Uc] control circuit voltage                | 24 V DC  |
| [Uimp] rated impulse withstand voltage      | 6 kV IEC 60947   |
| [Ith] conventional free air thermal current | 10 A 140 °F (60 °C)  |
| Irms rated making capacity                  | 140 A AC IEC 60947-5-1<br>250 A DC 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 IEC 60947-5-1  |
| [Ui] rated insulation voltage               | 600 V UL<br>600 V CSA<br>690 V IEC 60947-5-1   |
| Mounting Support                            | Rail<br>Plate  |
| Connections - terminals                     | Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end<br>Screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end |
| Tightening torque                           | 10.62 Lbf.In (1.2 N.m) screw clamp terminals Philips No 2<br>10.62 Lbf.In (1.2 N.m) screw clamp terminals flat Ø 6 mm<br>10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2  |
| Control circuit voltage limits              | 0.1...0.25 Uc -40...158 °F (-40...70 °C) drop-out DC<br>0.7...1.25 Uc -40...140 °F (-40...60 °C) operational DC<br>1...1.25 Uc 140...158 °F (60...70 °C) operational DC  |
| Operating time                              | 53...72 ms coil energisation and NO closing<br>16...24 ms coil de-energisation and NO opening<br>47...63 ms coil energisation and NC opening<br>15...25 ms coil de-energisation and NC closing   |
| Mechanical durability                       | 30 Mcycles   |
| Maximum operating rate                      | 180 cyc/mn   |
| Time constant                               | 28 ms  |
| Inrush power in W                           | 5.4 W 68 °F (20 °C))   |

|                                |  |
|--------------------------------|--|
| Hold-in power consumption in W | 5.4 W 68 °F (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 IEC 60068-2-27<br>Shocks control relay closed 15 Gn for 11 ms IEC 60068-2-27<br>Vibrations control relay open 2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations control relay closed 4 Gn, 5...300 Hz IEC 60068-2-6 |
| Height                         | 3.03 in (77 mm)  |
| Width                          | 1.77 in (45 mm)  |
| Depth                          | 3.66 in (93 mm)  |
| Net Weight                     | 1.28 lb(US) (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 Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA  |
| IP degree of protection               | IP2X front face VDE 0106  |
| Protective treatment                  | TH IEC 60068  |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C)<br>140...158 °F (60...70 °C) with derating                       |
| Ambient Air Temperature for Storage   | -76...176 °F (-60...80 °C)  |
| Operating altitude                    | 0...9842.52 ft (0...3000 m)   |

## Ordering and shipping details

|                   |                       |
|-------------------|-----------------------|
| Category          | 22371-RELAYS, CONTROL |
| Discount Schedule | I12                   |
| GTIN              | 3389110404166         |
| Returnability     | Yes                   |
| Country of origin | ID                    |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 2.05 in (5.200 cm)      |
| Package 1 Width              | 3.62 in (9.200 cm)      |
| Package 1 Length             | 4.41 in (11.200 cm)     |
| Package 1 Weight             | 18.62 oz (528.000 g)    |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 15                      |
| Package 2 Height             | 5.91 in (15.000 cm)     |
| Package 2 Width              | 11.81 in (30.000 cm)    |
| Package 2 Length             | 15.75 in (40.000 cm)    |
| Package 2 Weight             | 18.21 lb(US) (8.262 kg) |
| Unit Type of Package 3       | P06                     |
| Number of Units in Package 3 | 240                     |
| Package 3 Height             | 29.53 in (75.000 cm)    |
| Package 3 Width              | 23.62 in (60.000 cm)    |

|                  |                            |
|------------------|----------------------------|
| Package 3 Length | 31.50 in (80.000 cm)       |
| Package 3 Weight | 313.10 lb(US) (142.020 kg) |

### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>   |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</a>   |
| 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 |
|----------|-----------|