# Product data sheet

Specifications




## TeSys Deca control relay, 3 NO and 2 NC, 600 V, 120 VAC 50/60 Hz coil

CAD32G7

**Product availability: Stock - Normally stocked in distribution facility**

## 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** | AC 50/60 Hz |
| **[Uc] control circuit voltage** | 120 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 6 kV IEC 60947 |
| **[Ith] conventional free air thermal current** | 10 A (at 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 conforming to IEC 60947-5-1 |
| **[Ui] rated insulation voltage** | 600 V UL<br>600 V CSA<br>690 V IEC 60947-5-1 |
| **Mounting Support** | Plate<br>Rail |
| **Connections - terminals** | screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end<br>screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end<br>screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end<br>screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end<br>screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid without cable end<br>screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid without cable end |
| **Tightening torque** | 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2<br>15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm<br>15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 |
| **Control circuit voltage limits** | 0.3...0.6 Uc (-40…158 °F (-40…70 °C)):drop-out AC 50/60 Hz<br>0.8...1.1 Uc (-40…140 °F (-40…60 °C)):operational AC 50 Hz<br>0.85...1.1 Uc (-40…140 °F (-40…60 °C)):operational AC 60 Hz<br>1...1.1 Uc (140…158 °F (60…70 °C)):operational AC 50/60 Hz |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **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 68 °F (20 °C)) |
| **Hold-in power consumption in VA** | 8 VA 50 Hz (at 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 open10 Gn for 11 ms IEC 60068-2-27<br>Shocks control relay closed15 Gn for 11 ms IEC 60068-2-27<br>Vibrations control relay open2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations control relay closed4 Gn, 5...300 Hz IEC 60068-2-6 |
| **Height** | 3.03 in (77 mm) |
| **Width** | 1.8 in (45 mm) |
| **Depth** | 3.3 in (84 mm) |
| **Product 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<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** | US10I1222371 |
| **Discount Schedule** | 0I12 |
| **GTIN** | 3389110401363 |
| **Returnability** | Yes |
| **Country of origin** | ID |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 1.969 in (5.000 cm) |
| **Package 1 Width** | 3.622 in (9.200 cm) |
| **Package 1 Length** | 4.409 in (11.200 cm) |
| **Package weight(Lbs)** | 13.968 oz (396.000 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 20 |
| **Package 2 Height** | 5.906 in (15.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 18.453 lb(US) (8.370 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **18 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **2 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.3 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.1 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **15 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **B67ac941-f42f-4afd-894a-0b6f9cefde62** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| 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 www.P65Warnings.ca.gov** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **66** |
| Circularity Profile | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |

Offer Marketing Illustration

**Product benefits / Features**



Offer Marketing Illustration

**Product benefits / Features**



Image of product / Alternate images

**Alternative**







