

# Product datasheet

Specifications



Control relay, TeSys Deca, 5NO,  
<=690V, 240V AC standard coil,  
snap-in terminals

CAD50AU7

EAN Code: 3606487541622

## Main

|                           |                 |
|---------------------------|-----------------|
| Range                     | TeSys           |
| 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                    | 5 NO                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                |
| Control circuit type                        | AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Uc] control circuit voltage                | 240 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<br>250 A DC                                                                                                                                                                                                                                                                                                                                                                                                   |
| [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               | 690 V conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                      |
| Mounting support                            | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals                     | Snap-in terminal 1 cable(s) 0.5...4 mm²flexible without cable end<br>Snap-in terminal 2 cable(s) 0.5...4 mm²flexible without cable end<br>Snap-in terminal 1 cable(s) 0.5...2.5 mm²flexible with cable end<br>Snap-in terminal 2 cable(s) 0.5...2.5 mm²flexible with cable end<br>Snap-in terminal 1 cable(s) 0.5...2.5 mm²solid without cable end<br>Snap-in terminal 2 cable(s) 0.5...2.5 mm²solid without cable end |
| 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                              | 4...19 ms coil energisation and NC opening<br>12...22 ms coil energisation and NO closing<br>4...12 ms coil de-energisation and NO opening<br>6...17 ms coil de-energisation and NC closing                                                                                                                                                                                                                            |

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

|                                 |                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                          | 107 mm                                                                                                                                                                                                                                                                                                               |
| Width                           | 45 mm                                                                                                                                                                                                                                                                                                                |
| Depth                           | 93 mm                                                                                                                                                                                                                                                                                                                |
| Net weight                      | 387 g                                                                                                                                                                                                                                                                                                                |

## Environment

|                                       |                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-5-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.5<br>JIS C8201-5-1 |
| Product certifications                | CB Scheme<br>CCC<br>cULus<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 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 cm    |
| Package 1 Width              | 10.5 cm |
| Package 1 Length             | 11.5 cm |
| Package 1 Weight             | 407 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             | 6.42 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             | 111.22 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 | 17                                            |
| Environmental Disclosure         | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                      |
|----------------------------------------|--------------------------------------|
| Packaging made with recycled cardboard | Yes                                  |
| Packaging without single use plastic   | Yes                                  |
| <a href="#">EU RoHS Directive</a>      | Compliant with Exemptions            |
| SCIP Number                            | B67ac941-f42f-4afd-894a-0b6f9cefde62 |
| REACH Regulation                       | <a href="#">REACH Declaration</a>    |

Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

Use Again

| Repack and remanufacture        |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| 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 |

Technical Illustration

Assembly's dimensions

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