# Product data sheet
## Characteristics

# CAD326M7
Control relay, TeSys Deca, 3NO+2NC, 0 to 690V, 220VAC 50/60Hz standard coil, Lugs-ring terminals




## 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 | 220 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 | Lugs-ring terminals (external diameter: 8 mm) |
| 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 | 5.500 Cm |
| Package 1 Width | 9.500 Cm |
| Package 1 Length | 11.800 Cm |
| Package 1 Weight | 368.000 G |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 16 |
| Package 2 Height | 15.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 6.317 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 66 |
| Total lifecycle Carbon footprint | 18 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2.4052974453589133 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.2688271654154445 |
| Carbon footprint of the distribution phase [A4] | 0.3 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.09473546449819852 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 15.364183683872902 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 15 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 18 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |

| | |
|---|---|
| SCIP Number | B67ac941-f42f-4afd-894a-0b6f9cefde62 |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony tr |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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

Product Life Status : Commercialised