# Product datasheet

Specifications

Green Premium™

## TeSys K control relay - 2 NO + 2 NC - <= 690 V - 48 V AC coil

CA2KN22E7

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product Name** | TeSys CAK |
| **Product Or Component Type** | Control relay |
| **Device Short Name** | CA2K |
| **Contactor Application** | Control circuit |
| **Utilisation Category** | AC-15<br>DC-13 |
| **Pole Contact Composition** | 2 NO + 2 NC |
| **[Ue] Rated Operational Voltage** | <= 690 V <= 400 Hz |
| **Control Circuit Type** | AC at 50/60 Hz |
| **[Uc] Control Circuit Voltage** | 48 V AC 50/60 Hz |

## Complementary

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|---|---|
| **[Ith] Conventional Free Air Thermal Current** | 10 A (at 50 °C) |
| **Irms Rated Making Capacity** | 110 A conforming to IEC 60947 |
| **Associated Fuse Rating** | 10 A gG conforming to IEC 60947<br>10 A gG conforming to VDE 0660 |
| **[Ui] Rated Insulation Voltage** | 690 V conforming to IEC 60947<br>750 V conforming to VDE 0110 group C<br>690 V conforming to BS 5424<br>600 V conforming to CSA C22.2 No 14 |
| **Mounting Support** | Rail<br>Plate |
| **Connections - Terminals** | Screw clamp terminals 1 cable(s) 1.5…4 mm²solid<br>Screw clamp terminals 2 cable(s) 1.5…4 mm²solid<br>Screw clamp terminals 1 cable(s) 0.75…4 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.75…4 mm²flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34…1.5 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.34…1.5 mm²flexible without cable end |
| **Tightening Torque** | 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>1.3 N.m - on screw clamp terminals - with screwdriver Philips No 26 mm<br>1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 |
| **Control Circuit Voltage Limits** | Drop-out: 0.2...0.75 Uc (at <50 °C)<br>Operational: 0.8...1.15 Uc (at <50 °C) |
| **Operating Time** | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing<br>15...25 ms coil de-energisation and NC closing<br>5...15 ms coil energisation and NC opening |
| **Mechanical Durability** | 10 Mcycles |

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

| | |
|---|---|
| **Maximum Operating Rate** | 10000 cyc/h |
| **Immunity To Microbreaks** | 2 ms |
| **Inrush Power In Va** | 30 VA (at 20 °C) |
| **Hold-In Power Consumption In Va** | 4.5 VA (at 20 °C) |
| **Heat Dissipation** | 1.3 W |
| **Minimum Switching Voltage** | 17 V |
| **Minimum Switching Current** | 5 mA |
| **Non Overlap Distance** | 0.5 mm |
| **Insulation Resistance** | > 10 MOhm |
| **Height** | 58 mm |
| **Width** | 45 mm |
| **Depth** | 57 mm |
| **Net Weight** | 0.18 kg |

## Environment

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|---|---|
| **Standards** | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1 |
| **Product Certifications** | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA |
| **Ip Degree Of Protection** | IP2X |
| **Protective Treatment** | TC conforming to IEC 60068 |
| **Ambient Air Temperature For Operation** | -25…50 °C |
| **Ambient Air Temperature For Storage** | -50…80 °C |
| **Operating Altitude** | 2000 m without derating |
| **Flame Retardance** | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102 |
| **Mechanical Robustness** | Vibrations contactor open: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Shocks contactor open: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed: 15 Gn for 11 ms conforming to IEC 60068-2-27 |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 6.600 cm |
| **Package 1 Width** | 4.800 cm |
| **Package 1 Length** | 6.200 cm |
| **Package 1 Weight** | 179.000 g |
| **Unit Type Of Package 2** | S02 |

| | |
|---|---|
| **Number Of Units In Package 2** | 50 |
| **Package 2 Height** | 15.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 9.304 kg |

## Contractual warranty

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|---|---|
| **Warranty** | 12 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

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|---|---|
| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | End of Life Information |