# **Product datasheet**

Specification





## TeSys K control relay - 2 NO + 2 NC - <= 690 V - 24 V DC standard coil

CA3KN22BD

### Main

| Range                          | TeSys              |
|--------------------------------|--------------------|
| Product Name                   | TeSys CAK          |
| Product Or Component Type      | Control relay      |
| Device Short Name              | CA3K               |
| 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           | DC standard        |
| [Uc] Control Circuit Voltage   | 24 V DC            |

### Complementary

| oompicinental y                                |   |
|--|---|
| [Ith] Conventional Free Air<br>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 750 V conforming to VDE 0110 group C 690 V conforming to BS 5424 600 V conforming to CSA C22.2 No 14  |
| Mounting Support                               | Rail<br>Plate   |
| Connections - Terminals                        | Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 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   |
| Control Circuit Voltage Limits                 | Operational: 0.81.15 Uc (at <50 °C)<br>Drop-out: 0.10.75 Uc (at <50 °C)   |
| Operating Time                                 | 10 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing 15 ms coil de-energisation and NC closing 2535 ms coil energisation and NC opening   |
| Mechanical Durability                          | 20 Mcycles  |
| Maximum Operating Rate                         | 10000 cyc/h   |

| Immunity To Microbreaks        | 2 ms           |
|--------------------------------|----------------|
| Inrush Power In W              | 3 W (at 20 °C) |
| Hold-In Power Consumption In W | 3 W at 20 °C   |
| Heat Dissipation               | 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                     | 0.225 kg       |

## **Environment**

| 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 CCC UL CSA EAC CE   |
| Ip Degree Of Protection               | IP2X  |
| Protective Treatment                  | TC conforming to IEC 60068  |
| Ambient Air Temperature For Operation | -2550 °C  |
| Ambient Air Temperature For Storage   | -5080 °C  |
| Operating Altitude                    | 2000 m without derating   |
| Flame Retardance                      | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102  |
| Mechanical Robustness                 | Vibrations contactor open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Shocks contactor open: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed: 15 Gn for 11 ms conforming to IEC 60068-2-27 |

## **Packing Units**

| r aciming Cimes              |           |
|------------------------------|-----------|
| 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             | 221.000 g |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 40        |

| Package 2 Height             | 15.000 cm  |
|------------------------------|------------|
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 9.222 kg   |
| Unit Type Of Package 3       | P06        |
| Number Of Units In Package 3 | 640        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 159.355 kg |

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

| <b>⊘</b> | Reach Free Of Svhc         |     |
|----------|----------------------------|-----|
| <b>9</b> | Toxic Heavy Metal Free     |     |
| <b>②</b> | Mercury Free               |     |
| <b>⊘</b> | Rohs Exemption Information | Yes |

#### **Certifications & Standards**

| Reach Regulation         | REACh Declaration   |
|--------------------------|---|
| Eu Rohs Directive        | Compliant   |
|                          | EU RoHS Declaration   |
| China Rohs Regulation    | China RoHS declaration  |
|                          | 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   |