



❗ Discontinued

## 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   | 60 V DC          |

## Complementary

|   |  |
|---|--|
| [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                            | Plate<br>Rail  |
| 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  |

1.3 N.m - on screw clamp terminals - with screwdriver Philips No 26 mm

|                                |  |
|--------------------------------|--|
| Control circuit voltage limits | Operational: 0.8...1.15 U <sub>c</sub> (at <50 °C)<br>Drop-out: 0.1...0.75 U <sub>c</sub> (at <50 °C)  |
| Operating time                 | 10 ms coil de-energisation and NO opening<br>30...40 ms coil energisation and NO closing<br>15 ms coil de-energisation and NC closing<br>25...35 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  |
| Product weight                 | 0.225 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | BS 5424<br>IEC 60947<br>NF C 63-140<br>VDE 0660  |
| Product certifications                | CSA<br>UL  |
| 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

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 218 g    |
| Package 1 Height             | 6.5 cm   |
| Package 1 width              | 6.2 cm   |
| Package 1 Length             | 4.8 cm   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 40       |
| Package 2 Weight             | 9.175 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|