



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       | 4 NO                       |
| [Ue] rated operational voltage | $\leq 690$ V $\leq 400$ Hz |
| Control circuit type           | AC at 50/60 Hz             |
| [Uc] control circuit voltage   | 24 V AC 50/60 Hz           |

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                            | Rail<br>Plate  |
| Connections - terminals                     | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible 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              | 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  |
| Mechanical durability                       | 10 Mcycles   |
| 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

|                                       |  |
|---------------------------------------|--|
| 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             | 178 g   |
| Package 1 Height             | 4.8 cm  |
| Package 1 width              | 6.2 cm  |
| Package 1 Length             | 6.6 cm  |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 50      |
| Package 2 Weight             | 9.35 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  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| RoHS exemption information |  Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| 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 |
|----------|-----------|