



## 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       | 3 NO + 1 NC       |
| [Ue] rated operational voltage | ≤ 690 V ≤ 400 Hz  |
| Control circuit type           | AC 50/60 Hz       |
| Control circuit voltage        | 115 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 VDE 0660<br>10 A gG conforming to IEC 60947                                                                                                                             |
| [Ui] rated insulation voltage               | 600 V conforming to CSA C22.2 No 14<br>690 V conforming to BS 5424<br>750 V conforming to VDE 0110 group C<br>690 V conforming to IEC 60947                                                   |
| Mounting support                            | Plate<br>Rail                                                                                                                                                                                 |
| Connections - terminals                     | Spring terminals 1 cable(s) 0.75...1.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Spring terminals 1 cable(s) 0.75...1.5 mm <sup>2</sup> - cable stiffness: solid     |
| Control circuit voltage limits              | 0.8...1.15 Uc at 50 °C operational<br>0.2...0.75 Uc at 50 °C drop-out                                                                                                                         |
| Operating time                              | 5...15 ms coil energisation and NC opening<br>15...25 ms coil de-energisation and NC closing<br>10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening |
| Mechanical durability                       | 10 Mcycles                                                                                                                                                                                    |
| 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                                                                                                                                                                                         |
| Product weight                              | 0.18 kg                                                                                                                                                                                       |

## Environment

|                                       |                                                                                                                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | BS 5424<br>IEC 60947<br>NF C 63-140<br>VDE 0660                                                                                                                                                                                          |
| Product certifications                | CSA<br>UL                                                                                                                                                                                                                                |
| 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 in temperature                                                                                                                                                                                                   |
| Flame retardance                      | Requirement 2 conforming to NF F 16-102<br>Requirement 2 conforming to NF F 16-101<br>V1 conforming to UL 94                                                                                                                             |
| Mechanical robustness                 | Shocks contactor closed 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor open 10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor open 2 Gn, 5...300 Hz IEC 60068-2-6 |