

## Product data sheet

### Characteristics

# CA3KN223BD3

TeSys, Control relay, TeSys K, 4P(2NO+2NC), 690V, 24V DC coil, spring terminal



### Main

|                                |                    |
|--------------------------------|--------------------|
| Range                          | TeSys              |
| Product name                   | TeSys CAK          |
| Product or component type      | Control relay      |
| Device short name              | CA3K               |
| Contactor application          | Control circuit    |
| Utilisation category           | DC-13<br>AC-15     |
| 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

|   |  |
|---|--|
| Coil technology                             | Built-in bidirectional peak limiting diode suppressor  |
| [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                     | Spring terminals 1 cable(s) 0.75...1.5 mm <sup>2</sup> solid<br>Spring terminals 1 cable(s) 0.75...1.5 mm <sup>2</sup> flexible without cable end                                    |
| 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  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|            |          |
|------------|----------|
| 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<br>Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE[RETURN]UKCA  |
| 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 Height             | 4.8 cm   |
| Package 1 Width              | 6.2 cm   |
| Package 1 Length             | 6.5 cm   |
| Package 1 Weight             | 226.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 40       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 9.441 kg |

## 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   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</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 |
|----------|-----------|