



❗ Discontinued

CA3KN31CD has not been replaced. Please contact your customer care center for more information.

## 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       | 3 NO + 1 NC      |
| [Ue] rated operational voltage | ≤ 690 V ≤ 400 Hz |
| Control circuit type           | DC standard      |
| [Uc] control circuit voltage   | 36 V DC          |

## Complementary

|   |  |
|---|--|
| [Ith] conventional free air thermal current | 10 A 122 °F (50 °C)  |
| Irms rated making capacity                  | 110 A IEC 60947  |
| Associated fuse rating                      | 10 A gG IEC 60947<br>10 A gG VDE 0660  |
| [Ui] rated insulation voltage               | 690 V IEC 60947<br>750 V VDE 0110 group C<br>690 V BS 5424<br>600 V CSA C22.2 No 14  |
| Mounting support                            | Plate<br>Rail  |
| Connections - terminals                     | screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible with cable end<br>screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end<br>screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible without cable end |
| Tightening torque                           | 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm   |

|                                |  |
|--------------------------------|--|
|                                | 11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 0.24 in (6 mm)   |
| Control circuit voltage limits | Operational 0.8...1.15 U <sub>c</sub> 122 °F (50 °C))<br>Drop-out 0.1...0.75 U <sub>c</sub> 122 °F (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 68 °F (20 °C))   |
| Hold-in power consumption in W | 3 W 68 °F (20 °C)  |
| Heat dissipation               | 3 W  |
| Minimum switching voltage      | 17 V   |
| Minimum switching current      | 5 mA   |
| Non overlap distance           | 0.02 in (0.5 mm)   |
| Insulation resistance          | > 10 MOhm  |
| Height                         | 2.28 in (58 mm)  |
| Width                          | 1.77 in (45 mm)  |
| Depth                          | 2.24 in (57 mm)  |
| Net weight                     | 0.50 lb(US) (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 IEC 60068   |
| Ambient air temperature for operation | -13...122 °F (-25...50 °C)   |
| Ambient air temperature for storage   | -58...176 °F (-50...80 °C)   |
| Operating altitude                    | 6561.68 ft (2000 m) without  |
| Flame retardance                      | V1 UL 94<br>Requirement 2 NF F 16-101<br>Requirement 2 NF F 16-102   |
| Mechanical robustness                 | Vibrations contactor open2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor open10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed15 Gn for 11 ms IEC 60068-2-27 |

## Ordering and shipping details

|                   |                       |
|-------------------|-----------------------|
| Category          | 22371-RELAYS, CONTROL |
| Discount Schedule | I12                   |
| GTIN              | 03389110484298        |
| Returnability     | No                    |

## Offer Sustainability

|                           |   |
|---------------------------|---|
| Sustainable offer status  | Green Premium product   |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide which is known to the State of California to cause Carcinogen harm. For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a> |
| REACH Regulation          | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC        | Yes   |
| EU RoHS Directive         | Compliant<br><a href="#">EU RoHS Declaration</a>  |

|                            |  |
|----------------------------|--|
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information.       |
| 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 |
|----------|-----------|