



## Main

|                                |                    |
|--------------------------------|--------------------|
| Range                          | TeSys              |
| Product name                   | TeSys CAK          |
| Product or Component Type      | Control relay      |
| Device short name              | CA2K               |
| 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           | AC 50/60 Hz        |
| [Uc] control circuit voltage   | 110 V AC 50/60 Hz  |

## 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                            | Rail<br>Plate                                                                                                                                                                                 |
| Connections - terminals                     | Spring terminals 1 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> )solid<br>Spring terminals 1 0.00...0.00 in <sup>2</sup> (0.75...1.5 mm <sup>2</sup> )flexible without cable end   |
| Control circuit voltage limits              | Drop-out 0.2...0.75 Uc 122 °F (50 °C))<br>Operational 0.8...1.15 Uc 122 °F (50 °C))                                                                                                           |
| Operating time                              | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing<br>15...25 ms coil de-energisation and NC closing<br>5...15 ms coil energisation and NC opening |
| Mechanical durability                       | 10 Mcycles                                                                                                                                                                                    |
| Maximum operating rate                      | 10000 cyc/h                                                                                                                                                                                   |
| Immunity to microbreaks                     | 2 ms                                                                                                                                                                                          |
| Inrush power in VA                          | 30 VA 68 °F (20 °C))                                                                                                                                                                          |
| Hold-in power consumption in VA             | 4.5 VA 68 °F (20 °C))                                                                                                                                                                         |
| Heat dissipation                            | 1.3 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                                  | 0.40 lb(US) (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 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 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 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                  | 3389110241617         |
| Nbr. of units in pkg. | 1                     |
| Package weight(Lbs)   | 6.49 oz (184.0 g)     |
| Returnability         | No                    |
| Country of origin     | FR                    |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.89 in (4.8 cm)        |
| Package 1 width              | 2.56 in (6.5 cm)        |
| Package 1 Length             | 2.44 in (6.2 cm)        |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 50                      |
| Package 2 Weight             | 21.29 lb(US) (9.655 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## 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 cancer. 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  <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 |
|----------|-----------|