

## Product data sheet

### Characteristics

# CA2KN40F7

TeSys, Control relay, TeSys K, 4P(4NO),  
 <=690V, 110V AC coil



### 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       | 4 NO               |
| [Ue] rated operational voltage | <= 690 V <= 400 Hz |
| Control circuit type           | AC at 50/60 Hz     |
| [Uc] control circuit voltage   | 110 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<br>1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2   |
| Control circuit voltage limits              | Drop-out: 0.2...0.75 U <sub>c</sub> (at <50 °C)<br>Operational: 0.8...1.15 U <sub>c</sub> (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   |

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|                       |           |
|-----------------------|-----------|
| Insulation resistance | > 10 MOhm |
| Height                | 58 mm     |
| Width                 | 45 mm     |
| Depth                 | 57 mm     |
| Net weight            | 0.18 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 Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA   |
| 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 Height             | 4.8 cm   |
| Package 1 Width              | 6.3 cm   |
| Package 1 Length             | 6.6 cm   |
| Package 1 Weight             | 179.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 50       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 9.271 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 |  Yes   |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |

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|                     |   |
|---------------------|---|
| 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 |

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**Contractual warranty**

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| Warranty | 18 months |
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