



TeSys K control relay , 2 NO + 2 NC , <= 690 V , 220...230 V AC coil

CA2KN22M72

! Discontinued on: 15 Dec 2021

(!) Discontinued

#### Main

| Range                          | TeSys                |  |
|--------------------------------|----------------------|--|
| Product name                   | TeSys CAK            |  |
| Product or component type      | Control relay        |  |
| Device short name              | CA2K                 |  |
| contactor application          | n Control circuit    |  |
| Utilisation category           | AC-15<br>DC-13       |  |
| Pole contact composition       | 2 NO + 2 NC          |  |
| [Ue] rated operational voltage | <= 690 V <= 400 Hz   |  |
| Control circuit type           | AC at 50/60 Hz       |  |
| [Uc] control circuit voltage   | 220230 V AC 50/60 Hz |  |

### 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 750 V conforming to VDE 0110 group C 690 V conforming to BS 5424 600 V conforming to CSA C22.2 No 14  |  |
| mounting support                            | Rail<br>Plate   |  |
| Connections - terminals                     | Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible without cable end |  |
| Tightening torque                           | 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 26 mm 1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2  |  |
| Control circuit voltage limits              | Drop-out: 0.20.75 Uc (at <50 °C) Operational: 0.81.15 Uc (at <50 °C)  |  |

| Operating time                  | 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 1525 ms coil de-energisation and NC closing 515 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 (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  |  |
| 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 CCC UL CSA EAC CE UKCA  |  |
| IP degree of protection               | IP2X  |  |
| Protective treatment                  | TC conforming to IEC 60068  |  |
| Ambient air temperature for operation | -2550 °C  |  |
| Ambient air temperature for storage   | -5080 °C  |  |
| Operating altitude                    | 2000 m without derating   |  |
| Flame retardance                      | Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102   |  |
| Mechanical robustness                 | Vibrations contactor open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Shocks contactor open: 10 Gn for 11 ms conforming to IEC 60068-2-27 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             | 6.5 cm |
| Package 1 Width              | 6.2 cm |

| Package 1 Length | 4.8 cm |
|------------------|--------|
| Package 1 Weight | 184 g  |

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

| <b>Ø</b> | Reach Free Of Svhc         |     |
|----------|----------------------------|-----|
| <b>⊘</b> | Toxic Heavy Metal Free     |     |
| <b>Ø</b> | Mercury Free               |     |
| <b>⊘</b> | Rohs Exemption Information | Yes |

### **Certifications & Standards**

| Eu Rohs Directive        | Compliant   |
|--------------------------|---|
|                          | EU RoHS Declaration   |
| China Rohs Regulation    | China RoHS declaration  Pro-active China RoHS declaration (out of China RoHS legal scope)                                   |
| Environmental Disclosure | Product Environmental Profile   |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | End of Life Information   |