

Product data sheet

Characteristics

CA3KN22BD3

TeSys K control relay - 2 NO + 2 NC - ≤ 690
V - 24 V DC standard coil



Main

| | |
|--------------------------------|----------------------------|
| Range of product | TeSys K control relay |
| Range | TeSys |
| Product name | TeSys CAK |
| Product or component-type | Control relay |
| Device short name | CA3K |
| Contactor application | Control circuit |
| Utilisation category | AC-15 DC-13 |
| 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

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|---|--|
| 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 10 A gG conforming to VDE 0660 |
| [Ui] rated insulation voltage | 600 V conforming to CSA C22.2 No 14 690 V conforming to BS 5424 690 V conforming to IEC 60947 750 V conforming to VDE 0110 group C |
| Mounting support | Plate Rail |
| Connections - terminals | Screw clamp terminals 1 cable(s) 1.5...4 mm ² - cable stiffness: solid Screw clamp terminals 2 cable(s) 1.5...4 mm ² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.75...4 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.75...4 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.34...1.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm ² - cable stiffness: flexible - without cable end |
| Tightening torque | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| Control circuit voltage limits | 0.8...1.15 Uc at 50 °C operational 0.1...0.75 Uc at 50 °C drop-out |
| Operating time | 10 ms coil de-energisation and NO opening 15 ms coil de-energisation and NC closing 25...35 ms coil energisation and NC opening 30...40 ms coil energisation and NO closing |
| Mechanical durability | 20 Mcycles |
| 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 |

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| | |
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| Minimum switching current | 5 mA |
| Non overlap distance | 0.5 mm |
| Insulation resistance | > 10 MOhm |
| Height | 58 mm |
| Width | 45 mm |
| Depth | 57 mm |
| Product weight | 0.225 kg |
| Compatibility code | CA3K |

Environment

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|---------------------------------------|--|
| Standards | BS 5424 IEC 60947 VDE 0660 NF C 63-140 |
| Product certifications | CSA UL |
| 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 in temperature |
| Flame retardance | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102 |
| Mechanical robustness | Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor open 2 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor open 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed 15 Gn for 11 ms IEC 60068-2-27 |

Offer Sustainability

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|----------------------------------|--|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0825 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Contractual warranty

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| Warranty period | 18 months |
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Product Life Status : **Commercialised**