

Product data sheet

Characteristics



CA4KN31BW3

TeSys K control relay - 3 NO + 1 NC - ≤ 690 V -
24 V DC low consumption coil

Product availability : Stock - Normally stocked in distribution facility



Main

| | |
|------------------------------|----------------------------|
| Range | TeSys |
| Product name | TeSys CAK |
| Product or component type | Control relay |
| Device short name | CA4K |
| Contactor application | Control circuit |
| Utilisation category | DC-13 AC-15 |
| Pole contact composition | 3 NO + 1 NC |
| System Voltage | ≤ 690 V ≤ 400 Hz |
| Control circuit type | DC low consumption |
| [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 ≤ 122 °F (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) 0...0.01 in ² (1.5...4 mm ²) - cable stiffness: solid Screw clamp terminals 2 cable(s) 0...0.01 in ² (1.5...4 mm ²) - cable stiffness: solid Screw clamp terminals 2 cable(s) 0...0.01 in ² (0.75...4 mm ²) - cable stiffness: flexible - without cable end |

Screw clamp terminals 1 cable(s) 0...0.01 in² (0.75...4 mm²) - cable stiffness: flexible - with cable end
 Screw clamp terminals 1 cable(s) 0...0 in² (0.34...1.5 mm²) - cable stiffness: flexible - with cable end
 Screw clamp terminals 2 cable(s) 0...0 in² (0.34...1.5 mm²) - cable stiffness: flexible - without cable end

| | |
|--------------------------------|--|
| Tightening torque | 11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver Philips No 2 0.24 in (6 mm) 11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm |
| Control circuit voltage limits | 0.7...1.3 Uc at 122 °F (50 °C) operational 0.1...0.75 Uc at 122 °F (50 °C) drop-out |
| Operating time | 10...20 ms coil de-energisation and NO opening 25...35 ms coil energisation and NC opening 30...40 ms coil energisation and NO closing 15...25 ms coil de-energisation and NC closing |
| Mechanical durability | 30 Mcycles |
| Operating rate | 6000 cyc/h |
| Immunity to microbreaks | 2 ms |
| Inrush power in W | 1.8 W at 68 °F (20 °C) |
| Hold-in power consumption in W | 1.8 W at 68 °F (20 °C) |
| Heat dissipation | 1.8 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) |
| Product weight | 0.52 lb(US) (0.235 kg) |

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 | -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 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 |

Ordering and shipping details

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|-----------------------|-------------------------|
| Category | 22371 - RELAYS, CONTROL |
| Discount Schedule | I12 |
| GTIN | 00785901967286 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.4899999999999999 |
| Returnability | Y |
| Country of origin | FR |

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 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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