



Main

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| Range of product | TeSys k control relay |
| Product or component type | Electromagnetic relay |
| Device short name | CA3K |
| Contactor application | Control circuit |
| Utilisation category | DC-13 |
| Control circuit type | DC |
| Coil type | Standard |
| Pole contact composition | 3 NO + 1 NC |
| Control circuit voltage | 110 V DC |
| Connections - terminals | Screw-clamp terminal 1 1,5 mm ² solid Screw-clamp terminal 2 4 mm ² solid Screw-clamp terminal 1 0,75 mm ² flexible without Screw-clamp terminal 2 4 mm ² flexible without Screw-clamp terminal 1 0,34...1,5 mm ² flexible with Screw-clamp terminal 1 0,34...2,5 mm ² flexible with |

Complementary

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| Contact operation | Mechanically linked IEC 60947-5-1 |
| Control circuit voltage limits | 0.8...1.15 U _c 50 °C operational <= 0.1 U _c 50 °C drop-out |
| [U _i] rated insulation voltage | 600 V CSA C22-2 No 14 690 V BS 5424 690 V IEC 60947 750 V VDE 0110 group C |
| Flame retardance | V1 UL 94 Class C2 NF F 16-101 Class C2 NF F 16-102 |
| Tightening torque | 0,8...1,3 N.m screw-clamp terminal Philips 2 mm 0,8...1,3 N.m screw-clamp terminal flat Ø 6 mm |
| [U _e] rated operational voltage | <= 690 V DC |
| [I _{th}] conventional free air thermal current | 10 A ≤ 50 °C |
| I _{rms} rated making capacity | 110 A <= 690 V DC IEC 60947 |
| Permissible short-time rating | 80 A 1 s 90 A 500 ms 110 A 100 ms |
| Associated fuse rating | 10 A gG <= 690 V VDE 0660 10 A gG <= 690 V IEC 60947 |
| Inrush power in W | 3 W 20 °C |
| Hold-in power consumption in W | 3 W 20 °C |
| Mechanical durability | 20000000 cycles |
| Operating rate | 10000 cyc/h 20 °C |
| 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 |
| Minimum switching current | 5 mA |
| Minimum switching voltage | 17 V |
| Non-overlap time | 1,5 ms on energisation between NC and NO contacts 1,5 ms on de-energisation between NC and NO contacts |
| Non overlap distance | 0,5 m |
| Insulation resistance | > 10 MOhm |
| Height | 58 mm |

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| Width | 45 mm |
| Depth | 57 mm |
| Product weight | 0,225 kg |

Environment

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| Standards | BS 5424 IEC 60947 NF C 63-140 VDE 0660 |
| Product certifications | CSA UL |
| IP degree of protection | IP2x VDE 0106 |
| Protective treatment | TC IEC 60068 |
| Ambient air temperature for operation | -25...50 °C |
| Ambient air temperature for storage | -50...80 °C |
| Operating altitude | 2000 m without |
| Shock resistance | 10 gn control relay open 15 gn control relay closed |
| Vibration resistance | 2 gn control relay open 5...300 Hz 4 gn control relay closed 5...300 Hz |
| Heat dissipation | 3 W |
| Immunity to microbreaks | 2 ms |
| RoHS EUR conformity date | 0640 |
| RoHS EUR status | Compliant |