

# CA3KN22GD

TeSys K control relay - 2 NO + 2 NC - ≤ 690 V - 125 V DC standard coil



## Main

|                                |                  |
|--------------------------------|------------------|
| Range                          | TeSys            |
| Product name                   | TeSys CAK        |
| Product or component type      | Control relay    |
| Device short name              | CA3K             |
| Contactor application          | 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           | DC standard      |
| Control circuit voltage        | 125 V DC         |

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

## Environment

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

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS                             | Compliant - since 0640 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |