



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 DC-13
Pole contact composition	4 NO
[Ue] rated operational voltage	≤ 690 V ≤ 400 Hz
Control circuit type	DC standard
Control circuit voltage	250 V DC

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 VDE 0660 10 A gG conforming to IEC 60947
[Ui] rated insulation voltage	600 V conforming to CSA C22.2 No 14 690 V conforming to BS 5424 750 V conforming to VDE 0110 group C 690 V conforming to IEC 60947
Mounting support	Plate Rail
Connections - terminals	Screw clamp terminals 2 cable(s) 0.34...1.5 mm ² - cable stiffness: flexible - without 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) 0.75...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 2 cable(s) 1.5...4 mm ² - cable stiffness: solid Screw clamp terminals 1 cable(s) 1.5...4 mm ² - cable stiffness: solid
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	0.1...0.75 U _c at 50 °C drop-out 0.8...1.15 U _c at 50 °C operational
Operating time	30...40 ms coil energisation and NO closing 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Width	45 mm
Depth	57 mm
Product weight	0.225 kg

Environment

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