

Product Datasheet

Characteristic

CA2KN31E7

TeSys K control relay - 3 NO + 1 NC - <= 690 V - 48 V AC coil



Main

range	TeSys
product name	TeSys CAK
product or component type	control relay
device short name	CA2K
contactor application	control circuit
utilisation category	AC-15 DC-13
pole contact composition	3 NO + 1 NC
System Voltage	<= 690 V <= 400 Hz
control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	48 V, AC 50/60 Hz

Complementary

[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	690 V conforming to IEC 60947 750 V conforming to VDE 0110 group C 690 V conforming to BS 5424 600 V conforming to CSA C22.2 No 14
mounting support	plate rail
connections - terminals	screw clamp terminals 1 cable(s) 0...0.01 in² (1.5...4 mm²) - cable stiffness: solid screw clamp terminals 2 cable(s) 0...0.01 in² (1.5...4 mm²) - cable stiffness: solid screw clamp terminals 1 cable(s) 0...0.01 in² (0.75...4 mm²) - cable stiffness: flexible - with cable end screw clamp terminals 2 cable(s) 0...0.01 in² (0.75...4 mm²) - cable stiffness: flexible - without 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 flat Ø 6 mm

	11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver Philips No 2 0.24 in (6 mm)
control circuit voltage limits	0.2...0.75 U _c at 122 °F (50 °C) drop-out 0.8...1.15 U _c at 122 °F (50 °C) operational
operating time	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing 15...25 ms coil de-energisation and NC closing 5...15 ms coil energisation and NC opening
mechanical durability	10 Mcycles
operating rate	10000 cyc/h
immunity to microbreaks	2 ms
inrush power in VA	30 VA at 68 °F (20 °C)
hold-in power consumption in VA	4.5 VA at 68 °F (20 °C)
heat dissipation	1.3 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	0.4 lb(US) (0.18 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	-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 open 2 Gn, 5...300 Hz IEC 60068-2-6 vibrations contactor closed 4 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

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0640 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available