

CA3KN31GD

contactor TeSys CA3-K - 3 NO + 1 NC -
instantaneous - 10 A - 125 V DC



Main

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	125 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

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

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 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