



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
Coil technology	With integral suppression device
Pole contact composition	4 NO
Control circuit voltage	24 V DC
Connections - terminals	Screwclamp terminal 1 1,5 mm ² solid Screwclamp terminal 2 4 mm ² solid Screwclamp terminal 1 0,75 mm ² flexible without Screwclamp terminal 2 4 mm ² flexible without Screwclamp terminal 1 0,34...1,5 mm ² flexible with Screwclamp 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
[Ui] 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 screwclamp terminal Philips 2 mm 0,8...1,3 N.m screwclamp terminal flat Ø 6 mm
[Ue] rated operational voltage	<= 690 V DC
[Ith] conventional free air thermal current	10 A ≤ 50 °C
Irms rated making capacity	110 A 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 60947-5-1
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	0825
RoHS EUR status	Compliant