



ⓘ Discontinued

CA3KN31MD3 has not been replaced. Please contact your customer care center for more information.

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	3 NO + 1 NC
[Ue] rated operational voltage	≤ 690 V ≤ 400 Hz
Control circuit type	DC standard
[Uc] control circuit voltage	220 V DC

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
[Ith] conventional free air thermal current	10 A 122 °F (50 °C)
Irms rated making capacity	110 A IEC 60947
Associated fuse rating	10 A gG IEC 60947 10 A gG VDE 0660
[Ui] rated insulation voltage	690 V IEC 60947 750 V VDE 0110 group C 690 V BS 5424 600 V CSA C22.2 No 14
Mounting support	Rail Plate
Connections - terminals	screw clamp terminals 1 0.00...0.01 in ² (1.5...4 mm ²)solid screw clamp terminals 2 0.00...0.01 in ² (1.5...4 mm ²)solid screw clamp terminals 1 0.00...0.01 in ² (0.75...4 mm ²)flexible with cable end screw clamp terminals 2 0.00...0.01 in ² (0.75...4 mm ²)flexible without cable end screw clamp terminals 1 0.00...0.00 in ² (0.34...1.5 mm ²)flexible with cable end screw clamp terminals 2 0.00...0.00 in ² (0.34...1.5 mm ²)flexible without cable end

Tightening torque	11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm 11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 0.24 in (6 mm)
Control circuit voltage limits	Operational 0.8...1.15 U _c 122 °F (50 °C) Drop-out 0.1...0.75 U _c 122 °F (50 °C)
Operating time	10 ms coil de-energisation and NO opening 30...40 ms coil energisation and NO closing 15 ms coil de-energisation and NC closing 25...35 ms coil energisation and NC opening
Mechanical durability	20 Mcycles
Maximum operating rate	10000 cyc/h
Immunity to microbreaks	2 ms
Inrush power in W	3 W 68 °F (20 °C)
Hold-in power consumption in W	3 W 68 °F (20 °C)
Heat dissipation	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)
Net weight	0.50 lb(US) (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 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
Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 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

Ordering and shipping details

Category	22371-RELAYS, CONTROL
Discount Schedule	I12
GTIN	03389110484373
Returnability	No

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide which is known to the State of California to cause Carcinogen harm. For more information go to www.p65warnings.ca.gov
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant

[EU RoHS Declaration](#)

Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
----------	-----------