



ⓘ Discontinued

CA3KN31ED3 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	DC-13 AC-15
Pole contact composition	3 NO + 1 NC
[Ue] rated operational voltage	≤ 690 V ≤ 400 Hz
Control circuit type	DC standard
[Uc] control circuit voltage	48 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	Plate Rail
Connections - terminals	screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )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 <sub>c</sub> 122 °F (50 °C) Drop-out 0.1...0.75 U <sub>c</sub> 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 open2 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor open10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed15 Gn for 11 ms IEC 60068-2-27

## Ordering and shipping details

Category	22371-RELAYS, CONTROL
Discount Schedule	I12
GTIN	03389110484328
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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant

[EU RoHS Declaration](#)

Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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
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