

# Product data sheet

Specifications



## Control relay, TeSys K, 3 NO + 1 NC, It or eq to 690V, 110VAC coil

CA2KN31F7

**Product availability : Stock - Normally stocked in distribution facility**

**Price\* : 36.20 USD**

### Main

Range	TeSys
Product name	TeSys CAK
Product or Component Type	Control relay
Device short name	CA2K
Contacteur 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	AC 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz

### Complementary

[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
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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
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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) 11.51 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2
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Control circuit voltage limits	Drop-out 0.2...0.75 U <sub>c</sub> 122 °F (50 °C) Operational 0.8...1.15 U <sub>c</sub> 122 °F (50 °C)
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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
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\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

5...15 ms coil energisation and NC opening

<b>Mechanical durability</b>	10 Mcycles
<b>Maximum operating rate</b>	10000 cyc/h
<b>Immunity to microbreaks</b>	2 ms
<b>Inrush power in VA</b>	30 VA 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	4.5 VA 68 °F (20 °C))
<b>Heat dissipation</b>	1.3 W
<b>Minimum switching voltage</b>	17 V
<b>Minimum switching current</b>	5 mA
<b>Non overlap distance</b>	0.02 in (0.5 mm)
<b>Insulation resistance</b>	> 10 MOhm
<b>Height</b>	2.28 in (58 mm)
<b>Width</b>	1.77 in (45 mm)
<b>Depth</b>	2.24 in (57 mm)
<b>Net Weight</b>	0.40 lb(US) (0.18 kg)

## Environment

<b>Standards</b>	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
<b>Product Certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<b>IP degree of protection</b>	IP2X
<b>Protective treatment</b>	TC IEC 60068
<b>Ambient Air Temperature for Operation</b>	-13...122 °F (-25...50 °C)
<b>Ambient Air Temperature for Storage</b>	-58...176 °F (-50...80 °C)
<b>Operating altitude</b>	6561.68 ft (2000 m) without derating
<b>Flame retardance</b>	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
<b>Mechanical robustness</b>	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

<b>Category</b>	22371-RELAYS, CONTROL
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110428384
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.89 in (4.8 cm)
<b>Package 1 Width</b>	2.44 in (6.2 cm)
<b>Package 1 Length</b>	2.60 in (6.6 cm)
<b>Package 1 Weight</b>	6.28 oz (178 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	50
<b>Package 2 Height</b>	5.91 in (15 cm)
<b>Package 2 Width</b>	11.81 in (30 cm)
<b>Package 2 Length</b>	15.75 in (40 cm)
<b>Package 2 Weight</b>	20.46 lb(US) (9.281 kg)

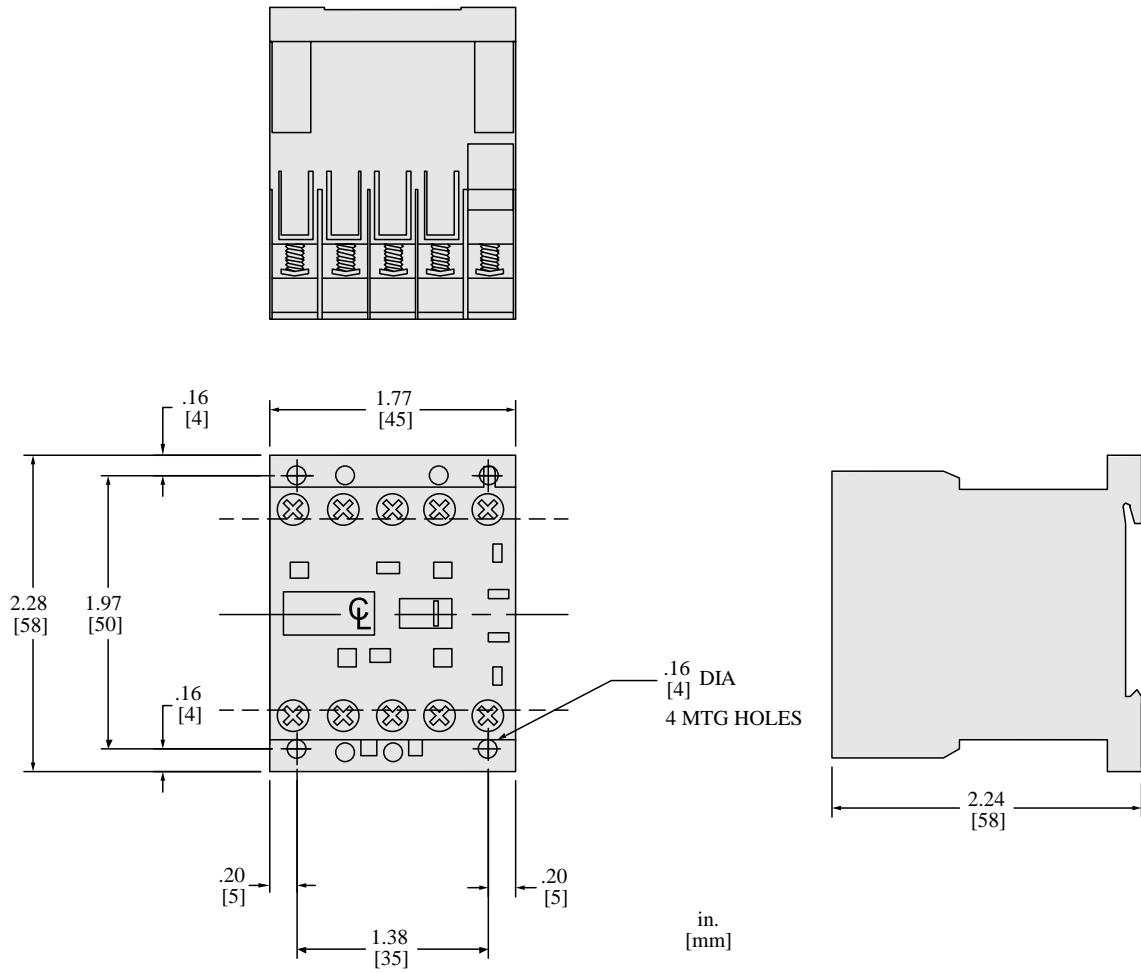
## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

<b>Warranty</b>	18 months
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**Dimensions**



ALL DIMENSIONS ARE APPROXIMATE.  
 ALSO SEE TECHNICAL DRAWINGS AND DOCUMENTATION.

**Recommended replacement(s)**