

# Product datasheet

Specifications



## TeSys K control relay - 3 NO + 1 NC - <= 690 V - 110 V AC coil

CA2KN31F7

**Price: 732.03 ZAR**

### Main

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

### Complementary

[Ith] conventional free air thermal current	10 A (at 50 °C)
Irms rated making capacity	110 A conforming to IEC 60947
Associated fuse rating	10 A gG conforming to IEC 60947 10 A gG conforming to VDE 0660
[Ui] rated insulation voltage	690 V conforming to IEC 60947 750 V conforming to VDE 0110 group C 690 V conforming to BS 5424 600 V conforming to CSA C22.2 No 14
Mounting support	Rail Plate
Connections - terminals	Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> solid Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> solid Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible with cable end Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end Screw clamp terminals 1 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible without cable end
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 26 mm 1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Control circuit voltage limits	Drop-out: 0.2...0.75 Uc (at <50 °C) Operational: 0.8...1.15 Uc (at <50 °C)
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 5...15 ms coil energisation and NC opening
Mechanical durability	10 Mcycles
Maximum operating rate	10000 cyc/h

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Immunity to microbreaks</b>	2 ms
<b>Inrush power in VA</b>	30 VA (at 20 °C)
<b>Hold-in power consumption in VA</b>	4.5 VA (at 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>	0.5 mm
<b>Insulation resistance</b>	> 10 MOhm
<b>Height</b>	58 mm
<b>Width</b>	45 mm
<b>Depth</b>	57 mm
<b>Net weight</b>	0.18 kg

## Environment

<b>Standards</b>	EN/IEC 60947-5-1 GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1
<b>Product certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<b>IP degree of protection</b>	IP2X
<b>Protective treatment</b>	TC conforming to IEC 60068
<b>Ambient air temperature for operation</b>	-25...50 °C
<b>Ambient air temperature for storage</b>	-50...80 °C
<b>Operating altitude</b>	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 open: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 Shocks contactor open: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed: 15 Gn for 11 ms conforming to IEC 60068-2-27

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.8 cm
<b>Package 1 Width</b>	6.2 cm
<b>Package 1 Length</b>	6.6 cm
<b>Package 1 Weight</b>	178 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	50

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Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9.281 kg

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## Contractual warranty

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Warranty (in months)	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint **58 kg CO2 eq.**

## Use Better



### Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant**

REACH Regulation **[REACH Declaration](#)**

## Use Longer



### Lifetime extension

Repair **No**

## Use Again



### Repack and remanufacture

End of life manual availability **[End of Life Information](#)**

Take-back **No**

WEEE Label  **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Offer Marketing Illustration

Product benefits / Features

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## TeSys K Control Relays



### Efficient

Engineered to enhance performance, this solution bridges automation with advanced power architectures to significantly boost motor efficiency.



### Versatile

It provides flexible connection options, including screw clamp terminals, spring terminals, and direct welding onto printed circuit boards, making it adaptable to a wide range of installation requirements.



### Compact size

This solution is compatible with all standard voltages available on the market and offers a compact design with a width of just 27 millimeters.



Offer Marketing Illustration

Product benefits / Features

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## TeSys K Technical Benefits



- Control relays for A.C. or D.C. control circuits (AC15, DC13)
- 4 contacts (with different combinations of NO + NC contacts)
- Simultaneous action between contacts
- Various relay Coil voltages: AC; DC
- Instantaneous contacts on the control relays
- Instantaneous and time delay auxiliary contact blocks
- Mounting and marking accessories
- Conforming to IEC 60947, NF C 63-110, VDE 0660, BS 5424