

Product data sheet

Specifications



Control relay, TeSys K, 3 NO + 1 NC, It or eq to 690V, 48VDC low consumption coil

CA4KN31EW3

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 65.30 USD

Main

| | |
|--------------------------------|--------------------|
| Range | TeSys |
| Product name | TeSys CAK |
| Product or Component Type | Control relay |
| Device short name | CA4K |
| 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 low consumption |
| [Uc] control circuit voltage | 48 V DC |

Complementary

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|---|--|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| [Ith] conventional free air thermal current | 10 A (at 122 °F (50 °C)) |
| Irms rated making capacity | 110 A 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 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 0.002...0.006 in ² (1.5...4 mm ²)solid screw clamp terminals 2 0.002...0.006 in ² (1.5...4 mm ²)solid screw clamp terminals 1 0.001...0.006 in ² (0.75...4 mm ²)flexible with cable end screw clamp terminals 2 0.001...0.006 in ² (0.75...4 mm ²)flexible without cable end screw clamp terminals 1 0.0005...0.002 in ² (0.34...1.5 mm ²)flexible with cable end screw clamp terminals 2 0.0005...0.002 in ² (0.34...1.5 mm ²)flexible without cable end |
| Tightening torque | 11.5 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm 11.5 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 0.2 in (6 mm) 11.5 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2 |
| Control circuit voltage limits | Drop-out: 0.1...0.75 Uc (at <122 °F (50 °C)) Operational: 0.7...1.3 Uc (at <122 °F (50 °C)) |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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|---------------------------------------|--|
| Operating time | 10...20 ms coil de-energisation and NO opening 15...25 ms coil de-energisation and NC closing 30...40 ms coil energisation and NO closing 25...35 ms coil energisation and NC opening |
| Mechanical durability | 30 Mcycles |
| Maximum operating rate | 6000 cyc/h |
| Immunity to microbreaks | 2 ms |
| Inrush power in W | 1.8 W 68 °F (20 °C)) |
| Hold-in power consumption in W | 1.8 W 68 °F (20 °C) |
| Heat dissipation | 1.8 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 | 2.3 in (58 mm) |
| Width | 1.8 in (45 mm) |
| Depth | 2.2 in (57 mm) |
| Net Weight | 0.518 lb(US) (0.235 kg) |

Environment

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|--|--|
| Standards | EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 |
| Product Certifications | CB Scheme CCC UL CSA EAC CE UKCA |
| 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 derating |
| Flame retardance | V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to 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

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|--------------------------|---------------|
| Category | US10I1222371 |
| Discount Schedule | 0I12 |
| GTIN | 3389110485578 |
| Returnability | No |

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|-------------------|----|
| Country of origin | FR |
|-------------------|----|

Packing Units

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|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

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|------------------------------|---|
| Number of Units in Package 1 | 1 |
|------------------------------|---|

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|------------------|------------------|
| Package 1 Height | 1.89 in (4.8 cm) |
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|-----------------|------------------|
| Package 1 Width | 2.44 in (6.2 cm) |
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|------------------|------------------|
| Package 1 Length | 2.60 in (6.6 cm) |
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|------------------|------------------|
| Package 1 Weight | 7.7 oz (219.0 g) |
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|------------------------|-----|
| Unit Type of Package 2 | S02 |
|------------------------|-----|

| | |
|------------------------------|----|
| Number of Units in Package 2 | 40 |
|------------------------------|----|

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| Package 2 Height | 5.91 in (15.0 cm) |
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|-----------------|--------------------|
| Package 2 Width | 11.81 in (30.0 cm) |
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|------------------|--------------------|
| Package 2 Length | 15.75 in (40.0 cm) |
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|------------------|------------------------|
| Package 2 Weight | 20.30 lb(US) (9.21 kg) |
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Contractual warranty

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| Warranty | 18 months |
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[How we assess product sustainability >](#)



Transparency

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information Yes

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)
Pro-active China RoHS declaration (out of China RoHS legal scope)

Environmental Disclosure [Product Environmental Profile](#)

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

Circularity Profile [End of Life Information](#)

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 cancer. For more information go to www.P65Warnings.ca.gov