

Product data sheet

Specifications



Control relay, TeSys K, 3 NO + 1 NC, It or eq to 690V, 24VDC standard coil

CA3KN313BD

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

Price*: 50.20 USD

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 | 24 V DC |

Complementary

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|---|--|
| [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 | Plate Rail |
| Connections - Terminals | spring terminals 1 0.00...0.00 in² (0.75...1.5 mm²)solid spring terminals 1 0.00...0.00 in² (0.75...1.5 mm²)flexible without cable end |
| Control Circuit Voltage Limits | Operational: 0.8...1.15 Uc (at <122 °F (50 °C)) Drop-out: 0.1...0.75 Uc (at <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)) |

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|--------------------------------|------------------------|
| 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

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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 |
| 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

| | |
|-------------------|---------------|
| Category | US10I1222371 |
| Discount Schedule | 0I12 |
| Gtin | 3389110241778 |
| Returnability | No |
| Country Of Origin | SG |

Packing Units

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|------------------------------|------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 1.89 in (4.8 cm) |
| Package 1 Width | 2.44 in (6.2 cm) |
| Package 1 Length | 2.56 in (6.5 cm) |

| | |
|------------------------------|-----------------------|
| Package 1 Weight | 7.90 oz (224.0 g) |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 40 |
| Package 2 Height | 5.91 in (15.0 cm) |
| Package 2 Width | 11.81 in (30.0 cm) |
| Package 2 Length | 15.75 in (40.0 cm) |
| Package 2 Weight | 20.50 lb(US) (9.3 kg) |

Contractual warranty

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

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 >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

| | | |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |

Certifications & Standards

| | |
|---------------------------|---|
| 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 |