Product data sheet

Specification





Control relay, TeSys K, 3 NO + 1 NC, It or eq to 690V, 220 to 230VAC coil

CA2KN31M7

Product availability: Non-Stock - Not 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 | |
| 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 50/60 Hz | |
| [Uc] Control Circuit Voltage | 220230 V AC 50/60 Hz | |

Complementary

| [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 | screw clamp terminals 1 0.000.01 in² (1.54 mm²)solid screw clamp terminals 2 0.000.01 in² (1.54 mm²)solid screw clamp terminals 1 0.000.01 in² (0.754 mm²)flexible with cable end screw clamp terminals 2 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 1 0.000.00 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.000.00 in² (0.341.5 mm²)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) 11.51 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2 |
| Control Circuit Voltage Limits | Drop-out: 0.20.75 Uc (at <122 °F (50 °C)) Operational: 0.81.15 Uc (at <122 °F (50 °C)) |
| Operating Time | 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 1525 ms coil de-energisation and NC closing 515 ms coil energisation and NC opening |

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

| Mechanical Durability | 10 Mcycles |
|---------------------------------|---------------------------|
| Maximum Operating Rate | 10000 cyc/h |
| Immunity To Microbreaks | 2 ms |
| Inrush Power In Va | 30 VA (at 68 °F (20 °C)) |
| Hold-In Power Consumption In Va | 4.5 VA (at 68 °F (20 °C)) |
| Heat Dissipation | 1.3 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 | 0.40 lb(US) (0.18 kg) |

Environment

| 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 | |
| Ip Degree Of Protection | IP2X | |
| Protective Treatment | TC IEC 60068 | |
| Ambient Air Temperature For Operation | -13122 °F (-2550 °C) | |
| Ambient Air Temperature For Storage | -58176 °F (-5080 °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, 5300 Hz IEC 60068-2-6 Vibrations contactor closed4 Gn, 5300 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 | US10l1222371 | |
|-------------------|---------------|--|
| Discount Schedule | 0112 | |
| Gtin | 3389110500301 | |
| Returnability | No | |
| Country Of Origin | FR | |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|----------------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 1.77 in (4.500 cm) |
| Package 1 Width | 1.97 in (5.000 cm) |
| Package 1 Length | 2.56 in (6.500 cm) |
| Package 1 Weight | 6.26 oz (177.400 g) |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 50 |
| Package 2 Height | 5.91 in (15.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 20.10 lb(US) (9.118 kg) |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 800 |
| Package 3 Height | 29.53 in (75.000 cm) |
| Package 3 Width | 31.50 in (80.000 cm) |
| Package 3 Length | 23.62 in (60.000 cm) |
| Package 3 Weight | 339.25 lb(US) (153.880 kg) |

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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 | |
|----------|----------------------------|-----|
| 9 | Toxic Heavy Metal Free | |
| ⊘ | Mercury Free | |
| ⊘ | Rohs Exemption Information | Yes |

Certifications & Standards

| REACh Declaration |
|---|
| Compliant |
| EU RoHS Declaration |
| China RoHS declaration |
| Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Product Environmental Profile |
| The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| End of Life Information |
| 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 |
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