

# Product data sheet

Specifications



## TeSys K control relay - 2 NO + 2 NC - <= 690 V - 400 V AC coil

CA2KN22V7

Product availability : Stock - Normally stocked in distribution facility

### 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<br>DC-13     |
| Pole contact composition       | 2 NO + 2 NC        |
| [Ue] rated operational voltage | <= 690 V <= 400 Hz |
| Control circuit type           | AC 50/60 Hz        |
| [Uc] control circuit voltage   | 400 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<br>10 A gG VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| [Ui] rated insulation voltage               | 690 V IEC 60947<br>750 V VDE 0110 group C<br>690 V BS 5424<br>600 V CSA C22.2 No 14                                                                                                                                                                                                                                                                                                                                                                                    |
| Mounting Support                            | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals                     | screw clamp terminals 1 0.00...0.01 in² (1.5...4 mm²)solid<br>screw clamp terminals 2 0.00...0.01 in² (1.5...4 mm²)solid<br>screw clamp terminals 1 0.00...0.01 in² (0.75...4 mm²)flexible with cable end<br>screw clamp terminals 2 0.00...0.01 in² (0.75...4 mm²)flexible without cable end<br>screw clamp terminals 1 0.00...0.00 in² (0.34...1.5 mm²)flexible with cable end<br>screw clamp terminals 2 0.00...0.00 in² (0.34...1.5 mm²)flexible without cable end |
| Tightening torque                           | 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm<br>11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 0.24 in (6 mm)<br>11.51 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2                                                                                                                                                                                                                                                                     |
| Control circuit voltage limits              | Drop-out 0.2...0.75 Uc 122 °F (50 °C))<br>Operational 0.8...1.15 Uc 122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating time                              | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing<br>15...25 ms coil de-energisation and NC closing                                                                                                                                                                                                                                                                                                                        |

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|                                 |                                            |
|---------------------------------|--------------------------------------------|
|                                 | 5...15 ms coil energisation and NC opening |
| Mechanical durability           | 10 Mcycles                                 |
| Maximum operating rate          | 10000 cyc/h                                |
| Immunity to microbreaks         | 2 ms                                       |
| Inrush power in VA              | 30 VA 68 °F (20 °C))                       |
| Hold-in power consumption in VA | 4.5 VA 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                             | BS 5424<br>IEC 60947<br>NF C 63-140<br>VDE 0660                                                                                                                                                                                      |
| Product certifications                | UL<br>CSA<br>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<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102                                                                                                                         |
| Mechanical robustness                 | Vibrations contactor open2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor open10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed15 Gn for 11 ms IEC 60068-2-27 |

### Ordering and shipping details

|                       |                       |
|-----------------------|-----------------------|
| Category              | 22371-RELAYS, CONTROL |
| Discount Schedule     | I12                   |
| GTIN                  | 3389110481389         |
| Nbr. of units in pkg. | 1                     |
| Package weight(Lbs)   | 6.24 oz (177 g)       |
| Returnability         | No                    |
| Country of origin     | FR                    |

### Packing Units

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

|                              |                         |
|------------------------------|-------------------------|
| Package 1 Height             | 1.97 in (5 cm)          |
| Package 1 width              | 2.36 in (6 cm)          |
| Package 1 Length             | 2.76 in (7 cm)          |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 50                      |
| Package 2 Weight             | 20.72 lb(US) (9.398 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

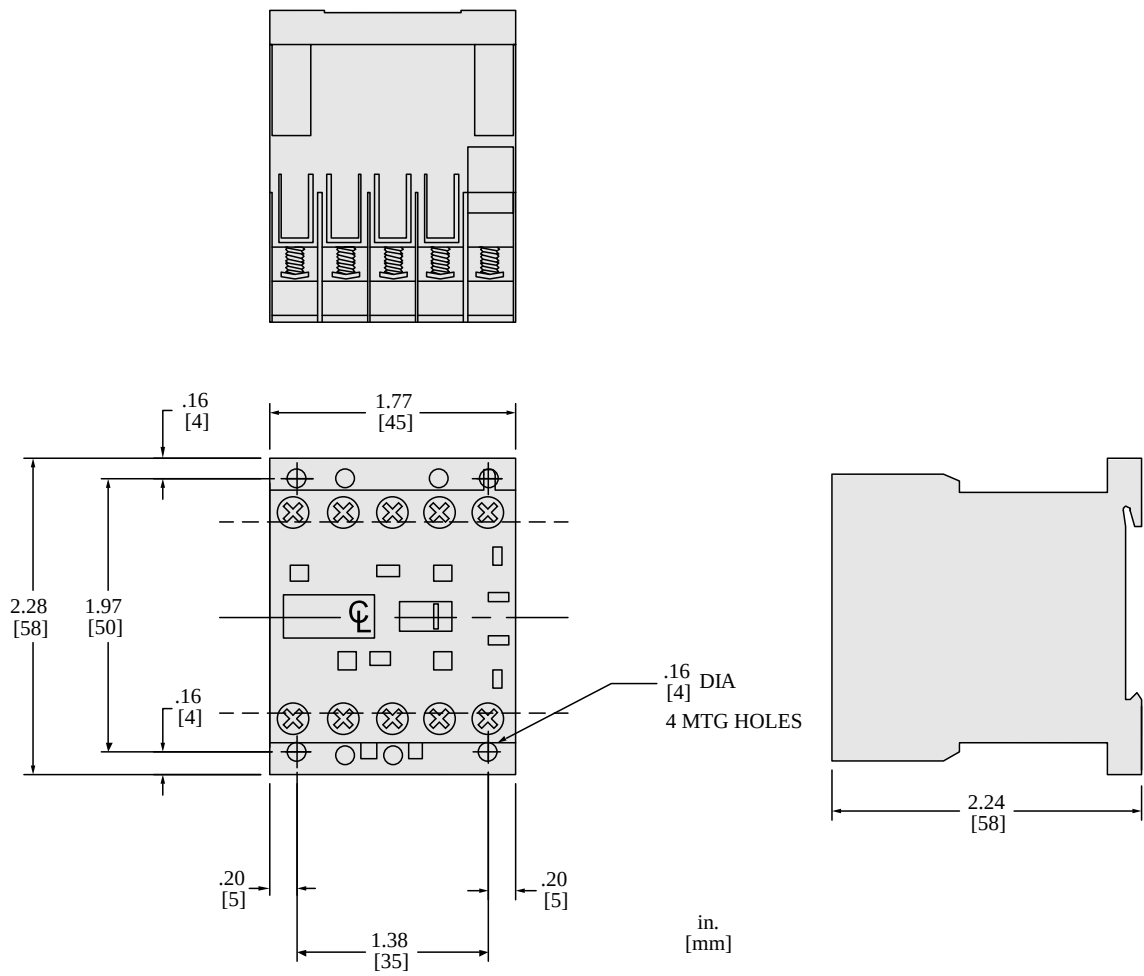
### Offer Sustainability

|                            |                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                      |
| 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 P65Warnings website |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                          |
| REACH free of SVHC         | Yes                                                                                                                                                                                                        |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                                                                                                           |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                        |
| Mercury free               | Yes                                                                                                                                                                                                        |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                        |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                                                                                                |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                                                                                                              |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                                                                                                    |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                               |

### Contractual warranty

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

Dimensions



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