

# Product datasheet

Specifications



## TeSys K control relay - 2 NO + 2 NC - $\leq 690$ V - 24 V DC standard coil

CA3KN22BD3

EAN Code: 3389110483802

### Main

Range	TeSys
Product Name	TeSys CAK
Product Or Component Type	Control relay
Device Short Name	CA3K
Contactors Application	Control circuit
Utilisation Category	DC-13 AC-15
Pole Contact Composition	2 NO + 2 NC
[Ue] Rated Operational Voltage	$\leq 690$ V $\leq 400$ Hz
Control Circuit Type	DC standard
[Uc] Control Circuit Voltage	24 V DC

### Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor
[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	Plate Rail
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	Operational: 0.8...1.15 U <sub>c</sub> (at $\leq 50$ °C) Drop-out: 0.1...0.75 U <sub>c</sub> (at $\leq 50$ °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

<b>Mechanical Durability</b>	20 Mcycles
<b>Maximum Operating Rate</b>	10000 cyc/h
<b>Immunity To Microbreaks</b>	2 ms
<b>Inrush Power In W</b>	3 W (at 20 °C)
<b>Hold-In Power Consumption In W</b>	3 W at 20 °C
<b>Heat Dissipation</b>	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>	0.225 kg

## Environment

<b>Standards</b>	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
<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>	5.0 cm
<b>Package 1 Width</b>	6.2 cm
<b>Package 1 Length</b>	6.7 cm
<b>Package 1 Weight</b>	222.0 g

<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	40
<b>Package 2 Height</b>	15 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	9.199 kg

## **Contractual warranty**

<b>Warranty</b>	18 months
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## Sustainability

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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](#)