# **Product datasheet**

Specifications





## TeSys K control relay - 3 NO + 1 NC - <= 690 V - 440 V AC coil

CA2KN31R7

() Discontinued on: 10 Oct 2020

EAN Code: 3389110482430

① Discontinued

### Main

Range	TeSys	
Product Name	TeSys CAK	
Product Or Component Type	Control relay	
Device Short Name	CA2K	
Contactor Application	Control circuit	
Utilisation Category	DC-13 AC-15	
Pole Contact Composition	3 NO + 1 NC	
[Ue] Rated Operational Voltage	ted Operational Voltage <= 690 V <= 400 Hz	
Control Circuit Type	AC at 50/60 Hz	
[Uc] Control Circuit Voltage	440 V AC 50/60 Hz	

#### Complementary

<u> </u>		
[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	ting Support Plate Rail	
Connections - Terminals	nnections - Terminals Screw clamp terminals 1 cable(s) 1.54 mm <sup>2</sup> solid Screw clamp terminals 2 cable(s) 1.54 mm <sup>2</sup> solid Screw clamp terminals 1 cable(s) 0.754 mm <sup>2</sup> flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm <sup>2</sup> flexible without cable end Screw clamp terminals 1 cable(s) 0.341.5 mm <sup>2</sup> flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 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	
Control Circuit Voltage Limits	Drop-out: 0.20.75 Uc (at <50 °C) Operational: 0.81.15 Uc (at <50 °C)	
Operating Time	ating 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	
Mechanical Durability	10 Mcycles	

Maximum Operating Rate	10000 cyc/h	
Immunity To Microbreaks	2 ms	
Inrush Power In Va	30 VA (at 20 °C)	
Hold-In Power Consumption In Va	4.5 VA (at 20 °C)	
Heat Dissipation	1.3 W	
Minimum Switching Voltage	17 V	
Minimum Switching Current	5 mA	
Non Overlap Distance	0.5 mm	
Insulation Resistance	> 10 MOhm	
Height	58 mm	
Width	45 mm	
Depth	57 mm	
Net Weight	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 UKCA	
Ip Degree Of Protection	IP2X	
Protective Treatment	TC conforming to IEC 60068	
Ambient Air Temperature For Operation	-2550 °C	
Ambient Air Temperature For Storage	-5080 °C	
Operating Altitude	2000 m without derating	
Flame Retardance	ne 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 open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor closed: 4 Gn, 5300 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**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.8 cm
Package 1 Width	6.2 cm
Package 1 Length	6.6 cm
Package 1 Weight	180 g

## **Contractual warranty**

Warranty

18 months

### Sustainability Screen

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> products.

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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**

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