Product data sheet

Specifications





Control relay, TeSys K, 3 NO + 1 NC, It or eq to 690V, 48VAC coil

CA2KN31E72

Discontinued on: Jul 12, 2021

! 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	<= 690 V <= 400 Hz	
Control Circuit Type	AC 50/60 Hz	
[Uc] Control Circuit Voltage	48 V AC 50/60 Hz	

Complementary

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Coil Technology	Built-in bidirectional peak limiting diode suppressor	
[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	Rail	
	Plate	
Connections - Terminals	screw clamp terminals 1 0.000.01 in² (1.54 mm²)solid	
	screw clamp terminals 2 0.000.01 in ² (1.54 mm ²)solid	
	screw clamp terminals 1 0.000.01 in² (0.754 mm²)flexible with cable end	
	screw clamp terminals 2 0.000.01 in ² (0.754 mm ²)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)	
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)	
et 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	
	UKCA	
Ip Degree Of Protection	IP2X	
Protective Treatment	TC IEC 60068	
Ambient Air Temperature For Operation		
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	22371-RELAYS, CONTROL
Discount Schedule	112
Gtin	3389110481952
Returnability	No

Packing Units

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	2.60 in (6.6 cm)
Package 1 Weight	6.35 oz (180 g)

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.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

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