Product data sheet

Specification





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

CA2KN31E7

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 36.20 USD

Main

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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	48 V AC 50/60 Hz

Complementary

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[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
Mechanical Durability	10 Mcycles

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

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	3389110500356
Returnability	No
Country Of Origin	ID

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 (180.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	50
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	20.79 lb(US) (9.43 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

Ø	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
Ø	Mercury Free	
②	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	
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 www.P65Warnings.ca.gov	