Product data sheet

Specifications





Control relay, TeSys K, 3 NO + 1 NC, It or eq to 690V, 24VDC standard coil

CA3KN31BD

Product availability: Stock - Normally stocked in distribution

Price*: 50.20 USD

Main

Range	TeSys
Product Name	TeSys CAK
Product Or Component Type	Control relay
Device Short Name	CA3K
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	DC standard
[Uc] Control Circuit Voltage	24 V DC

Complementary

[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 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	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: 0.10.75 Uc (at <122 °F (50 °C))
Operating Time	10 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing 15 ms coil de-energisation and NC closing 2535 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	20 Mcycles
Maximum Operating Rate	10000 cyc/h
Immunity To Microbreaks	2 ms
Inrush Power In W	3 W 68 °F (20 °C))
Hold-In Power Consumption In W	3 W 68 °F (20 °C)
Heat Dissipation	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	0.50 lb(US) (0.225 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	3389110500196	
Returnability	Yes	
Country Of Origin	ID	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.60 in (6.600 cm)
Package 1 Width	1.89 in (4.800 cm)
Package 1 Length	2.44 in (6.200 cm)
Package 1 Weight	7.80 oz (221.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	20.33 lb(US) (9.222 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	320
Package 3 Height	17.72 in (45.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	182.68 lb(US) (82.860 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.

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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

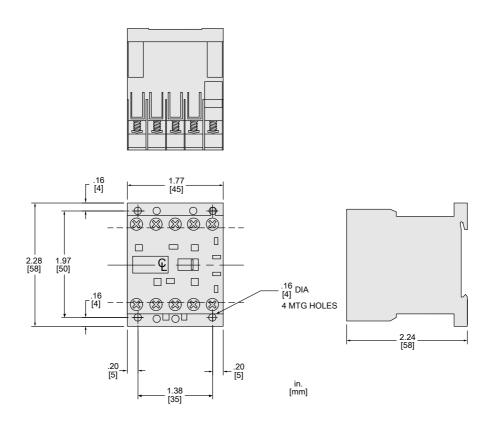
Certifications & Standards

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

Feb 14, 2024

Technical illustration

Dimensions



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