Product datasheet

Specification





TeSys K control relay - 3 NO + 1 NC - <= 690 V - 110 V DC standard coil

CA3KN31FD

Main

Range	TeSys	
Product Name	TeSys CAK	
Product Or Component Type	Control relay	
Device Short Name	CA3K	
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	DC standard	
[Uc] Control Circuit Voltage	110 V DC	

Complementary

Complementary		
[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) 1.54 mm²solid Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.341.5 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible 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	it Voltage Limits Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.10.75 Uc (at <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	
Mechanical Durability	20 Mcycles	

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Maximum Operating Rate	10000 cyc/h
Immunity To Microbreaks	2 ms
Inrush Power In W	3 W (at 20 °C)
Hold-In Power Consumption In W	3 W at 20 °C
Heat Dissipation	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	0.225 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 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	6.200 cm
Package 1 Width	6.500 cm
Package 1 Length	4.800 cm
Package 1 Weight	218.000 g
Unit Type Of Package 2	S02

Number Of Units In Package 2	40
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.098 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc	
9	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