Product datasheet





Control relay, TeSys Deca, 5NO, 0 to 690V, 24VDC standard coil, spring

CAD503BD

Main

Range	TeSys TeSys Deca	
Product name	TeSys CAD	
product or component type	Control relay	
Device short name	CAD	
contactor application	Control circuit	

Complementary	
Utilisation category	DC-13 AC-15 AC-14
Pole contact composition	5 NO
[Ue] rated operational voltage	<= 690 V AC 25400 Hz
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
[Ith] conventional free air thermal current	10 A (at 60 °C)
Irms rated making capacity	140 A AC conforming to IEC 60947-5-1 250 A DC conforming to IEC 60947-5-1
[lcw] rated short-time withstand current	100 A - 1 s 120 A - 500 ms 140 A - 100 ms
Associated fuse rating	10 A gG conforming to IEC 60947-5-1
[Ui] rated insulation voltage	600 V UL certified 600 V CSA certified 690 V conforming to IEC 60947-5-1
mounting support	Rail Plate
Connections - terminals	Spring terminals 1 cable(s) 12.5 mm²flexible without cable end Spring terminals 2 cable(s) 12.5 mm²flexible without cable end Spring terminals 1 cable(s) 12.5 mm²solid without cable end Spring terminals 2 cable(s) 12.5 mm²solid without cable end
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC
Operating time	5372 ms coil energisation and NO closing 1624 ms coil de-energisation and NO opening
Mechanical durability	30 Mcycles

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Maximum operating rate	180 cyc/mn	
Time constant	28 ms	
Inrush power in W	5.4 W (at 20 °C)	
Hold-in power consumption in W	5.4 W at 20 °C	
Minimum switching voltage	17 V	
Minimum switching current	5 mA	
Non-overlap time	1.5 ms on energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact	
Insulation resistance	> 10 MOhm	
Mechanical robustness	Shocks control relay open: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations control relay open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations control relay closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6	
Height	99 mm	
Width	45 mm	
Depth	93 mm	
net weight	0.58 kg	

Environment

Standards	EN/IEC 60947-5-1 GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1	
	JIS C8201-5-1	
Product certifications	СВ	
	CCC	
	UL	
	CSA	
	EAC	
	CE	
	UKCA	
IP degree of protection	IP2X front face conforming to VDE 0106	
Protective treatment	TH conforming to IEC 60068	
Ambient air temperature for operation	-4060 °C	
	6070 °C with derating	
Ambient air temperature for storage	-6080 °C	
Operating altitude	03000 m	

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.4 cm
Package 1 Width	11 cm
Package 1 Length	12.2 cm
Package 1 Weight	547 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15 cm

Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.768 ka

Contractual warranty

Warranty 18 months

Sustainability Screen 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



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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