TeSys D control relay - 3 NO + 2 NC - <= 690 V - 440 V DC standard coil

CAD32RD

Discontinued on: 10 October 2020

(!) Discontinued

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Range	TeSys
Product name	TeSys CAD
Product or component type	Control relay
Device short name	CAD
Contactor application	Control circuit

Contactor application	Control circuit		
Complementary			
Utilisation category	DC-13 AC-14 AC-15		
Pole contact composition	3 NO + 2 NC		
[Ue] rated operational voltage	<= 690 V AC 25400 Hz		
Control circuit type	DC standard		
[Uc] control circuit voltage	440 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		
[Icw] 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	Plate Rail		
Connections - terminals	Screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Screw clamp terminals 1 cable(s) 14 mm²solid without cable end Screw clamp terminals 2 cable(s) 14 mm²solid without cable end		

1.2 $\ensuremath{\text{N.m}}$ - on screw clamp terminals - with screwdriver Philips No 2 1.2 N.m - on screw clamp terminals - with screwdriver flat \varnothing 6 mm

Tightening torque

Sauta and NO clearing Sauta and NO content Sauta and NO co	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		
Maximum operating rate	Operating time	1624 ms coil de-energisation and NO opening 4763 ms coil energisation and NC opening		
Inrush power in W	Mechanical durability	30 Mcycles		
Inrush power in W 5.4 W (at 20 °C) Hold-in power consumption in W 5.4 W at 20 °C W Minimum switching voltage 177 V Minimum switching ourrent 5 mA Non-overlap time 1.5 ms on energisation between NC and NO contact 1.5 ms on de-e	Maximum operating rate	180 cyc/mn		
Hold-in power consumption in W 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 2 10 MChm Mechanical robustness Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks control relay open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10 Gn for 11 ms conforming to IEC 80088-2-27 Shocks open: 10	Time constant	28 ms		
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 1.5 ms on de energisation between NC and NO contact Insulation resistance > 10 Mchm Mechanical robustness Shocks control relay peen: 10 Gn for 11 ms conforming to IEC 60088-2-27 Shocks control relay peen: 2 Gn for 11 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 13 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 13 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60088-2-27 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay open: 2 Gn for 14 ms conforming to IEC 60082-2-8 Vibrations control relay observed to IEC 60082-2-9 Vibrations control relay observed to IEC 60082-2-9 Vibrations control	Inrush power in W	5.4 W (at 20 °C)		
Minimum switching current 5 mA Non-overlap time 1.5 ms on energisation between NC and NO contact 1.5 ms on the contonning to EC 60068-2-6		5.4 W at 20 °C		
Non-overlap time 1.5 ms on energisation between NC and NO contact 1.5 ms on de-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 count 10 Gin for 11 ms conforming to IEC 80088-2-77 Shocks control relay closed: 15 Gin for 11 ms conforming to IEC 80088-2-78 Vibrations control relay of Sin 3.30 Nt a conforming to IEC 80088-2-8 Height 77 mm Width 45 mm Depth 93 mm Net weight 0.58 kg Environment Standards BS 4794 EN 80947-5 EN 8094	Minimum switching voltage	17 V		
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 Volvations control relay obsect: 15 Gn for 11 ms conforming to IEC 60068-2-6 Volvations control relay obsect: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Height 77 mm Width 45 mm Depth 93 mm Net weight 0.58 kg Environment Standards BS 4784 EN 60047-5-1 NF C 63-140 VDE 6660 Product certifications UL CSA IP degree of protection IP2x front face conforming to VDE 0106 Protective treatment TH conforming to IEC 60068 Ambient air temperature for 6070 °C with derating Ambient air temperature for 5080 °C Sorrage Operating altitude 03000 m Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 4.9 cm Package 1 Length 8.9 cm Offer Sustainability Offer Sustainability	Minimum switching current	5 mA		
Shocks control relay open: 10 Gn for 11 ms conforming to IEC 60088-2-27 Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60088-2-27 Vibrations control relay closed: 15 Gn for 11 ms conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations control relay closed: 4 Gn. 5300 Hz conforming to IEC 60088-2-8 Vibrations	Non-overlap time			
Shocks control relay closed. 15 Gn for 11 ms conforming to IEC 60088-2-27 Vibrations control relay peric 2 Cn fs. 3.00 Vibrations control relay closed. 4 Gn, 5300 Hz conforming to IEC 60088-2-6 Vibrations control relay closed. 4 Gn, 5300 Hz conforming to IEC 60088-2-6 Vibrations control relay closed. 4 Gn, 5300 Hz conforming to IEC 60088-2-6 Vibrations control relay closed. 4 Gn, 5300 Hz conforming to IEC 60088-2-6 Vibrations control relay closed. 4 Gn, 5300 Hz conforming to IEC 60088-2-6 Vibrations Os 8 kg Environment Standards BS 4794 EN 60947-5 EN 60	Insulation resistance	> 10 MOhm		
Depth	Mechanical robustness	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		
Depth 93 mm	Height	77 mm		
Environment Standards BS 4794 EN 60947-5-1 IEC 60947-5-1 NF C 63-140 VDE 0660 Product certifications UL CSA IP degree of protection IP2x front face conforming to VDE 0106 Protective treatment TH conforming to IEC 60068 Ambient air temperature for operation Ambient air temperature for storage Operating altitude 03000 m Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Weight 49 om Package 1 Height 4.9 om Package 1 Length 8.9 cm Offer Sustainability	Width	45 mm		
Environment Standards BS 4794 EN 60947-5-1 IEC 60947-5-1 NF C 63-140 VDE 0660 Product certifications UL CSA IP degree of protection IP2x front face conforming to VDE 0106 Protective treatment TH conforming to IEC 60068 Ambient air temperature for operation 6070 °C with derating Ambient air temperature for storage Operating altitude 03000 m PCE Number of Units in Package 1 PCE Number of Units in Package 1 Package 1 Weight 424.0 g Package 1 Weight 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability	Depth	93 mm		
Standards BS 4794 EN 600947-5 IEC 60947-5-1 NF C 63-140 VDE 0660 Product certifications UL CSA IP degree of protection IP2x front face conforming to VDE 0106 Protective treatment TH conforming to IEC 60068 Ambient air temperature for of 6070 °C with derating Ambient air temperature for storage Operating altitude 03000 m Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability	Net weight	0.58 kg		
CSA IP degree of protection IP2x front face conforming to VDE 0106 Protective treatment TH conforming to IEC 60068 Ambient air temperature for operation Ambient air temperature for storage Operating altitude O3000 m Packing Units Unit Type of Package 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 Length Number of Unith in Package 1 Package 1 Length 8.9 cm Offer Sustainability		EN 60947-5 IEC 60947-5-1 NF C 63-140		
Protective treatment TH conforming to IEC 60068 Ambient air temperature for operation Ambient air temperature for storage Operating altitude O3000 m Packing Units Unit Type of Package 1 Package 1 Weight 424.0 g Package 1 Height Package 1 Height A.9 cm Package 1 Length S.9 cm Offer Sustainability	Product certifications			
Ambient air temperature for operation 6070 °C with derating Ambient air temperature for storage -6080 °C Operating altitude 03000 m Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability	IP degree of protection	IP2x front face conforming to VDE 0106		
operation 6070 °C with derating Ambient air temperature for storage Operating altitude 03000 m Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm	Protective treatment	TH conforming to IEC 60068		
Storage Operating altitude O3000 m Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability				
Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm		-6080 °C		
Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm	Operating altitude	03000 m		
Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm	Packing Units			
Package 1 Weight 424.0 g Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability	·	PCE		
Package 1 Height 4.9 cm Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability	Number of Units in Package 1	1		
Package 1 width 11.1 cm Package 1 Length 8.9 cm Offer Sustainability	Package 1 Weight	424.0 g		
Package 1 Length 8.9 cm Offer Sustainability	Package 1 Height	4.9 cm		
Offer Sustainability	Package 1 width	11.1 cm		
	Package 1 Length	8.9 cm		
	Offer Sustainability			
		Green Premium product		

EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
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	

Contractual warranty

Warranty	18 months		
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Recommended replacement(s)

CAD32RD is replaced by:

1x



TeSys Deca control relay,3NO+2NC,<=690V,220V DC standard coil CAD32MD