

## Product data sheet Characteristics

# CAD50EL

## TeSys; TeSys Deca, control relay, 5 NO, <= 690 V, 48 V DC low consumption coil



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

#### Complementary

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Utilisation category	AC-14 DC-13 AC-15
Pole contact composition	5 NO
[Ue] rated operational voltage	<= 690 V AC 25400 Hz
Control circuit type	DC low consumption
[Uc] control circuit voltage	48 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[RETURN]600 V CSA certified[RETURN]690 V conforming to IEC 60947-5-1
Mounting support	Rail Plate
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
Tightening torque	1.2 N.M - on screw clamp terminals - with screwdriver Philips No 2 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
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	6588 ms coil energisation and NO closing 1425 ms coil de-energisation and NO opening
Mechanical durability	30 Mcycles
Maximum operating rate	180 cyc/mn
Time constant	40 ms
Inrush power in W	2.4 W (at 20 °C)
Hold-in power consumption in W	2.4 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	77 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	CB
	Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE[RETURN]UKCA
IP degree of protection	IP2X 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

PCE	
1	
4.9 cm	
11.1 cm	
8.9 cm	
362 g	
_	1 4.9 cm 11.1 cm 8.9 cm

### Offer Sustainability

EU RoHS Directive	Compliant EEU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

#### Contractual warranty

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Warranty	18 months	

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