

Product data sheet

Specifications



Control relay, TeSys Deca,
3NO+2NC, $\leq 690\text{V}$, 220V DC low
consumption coil, screw clamp
terminals

CAD32ML

Main

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

Complementary

Utilisation category	DC-13 AC-15 AC-14
Pole contact composition	3 NO + 2 NC
[Ue] rated operational voltage	$\leq 690\text{ V AC } 25\text{...}400\text{ Hz}$
Control circuit type	DC low consumption
[Uc] control circuit voltage	220 V DC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C))
Irms rated making capacity	140 A AC IEC 60947-5-1 250 A DC 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 600 V CSA 690 V IEC 60947-5-1
Mounting support	Rail Plate
Connections - terminals	screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid without cable end
Tightening torque	15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
Control circuit voltage limits	0.1...0.25 U _c (-40...158 °F (-40...70 °C)):drop-out DC 0.7...1.25 U _c (-40...140 °F (-40...60 °C)):operational DC 1...1.25 U _c (140...158 °F (60...70 °C)):operational DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Operating time	65...88 ms coil energisation and NO closing 14...25 ms coil de-energisation and NO opening 57...77 ms coil energisation and NC opening 28...42 ms coil de-energisation and NC closing
Mechanical durability	30 Mcycles
Maximum operating rate	180 cyc/mn
Time constant	40 ms
Inrush power in W	2.4 W 68 °F (20 °C))
Hold-in power consumption in W	2.4 W 68 °F (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 open10 Gn for 11 ms IEC 60068-2-27 Shocks control relay closed15 Gn for 11 ms IEC 60068-2-27 Vibrations control relay open2 Gn, 5...300 Hz IEC 60068-2-6 Vibrations control relay closed4 Gn, 5...300 Hz IEC 60068-2-6
Height	3.03 in (77 mm)
Width	1.8 in (45 mm)
Depth	3.7 in (93 mm)
Net weight	1.28 lb(US) (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 CCC UL CSA EAC CE UKCA
IP degree of protection	IP2X VDE 0106
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Operating altitude	0...3000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.323 in (5.900 cm)
Package 1 Width	3.819 in (9.700 cm)
Package 1 Length	4.724 in (12.000 cm)
Package 1 Weight	17.707 oz (502.000 g)

Contractual warranty

Warranty (in months)

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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	20 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	15 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	B67ac941-f42f-4afd-894a-0b6f9cefde62
REACH Regulation	REACH Declaration

Use Longer




Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	75
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

Product benefits / Features

TeSys Deca Technical Benefits



- Control relays for AC or DC control circuits (AC15, DC13)
- Up to 5 contacts (with different combinations of NO + NC contacts)
- Various Relay Coil Voltages: A.C, D.C. or low consumption
- Instantaneous contacts on the control relays and time delay auxiliary contact blocks
- Wide range of temperature: - 40°C – 70°C
- A full scope of accessories and spare parts

Offer Marketing Illustration

Product benefits / Features

TeSys Deca Control Relays



Performance

Engineered to enhance performance, this solution bridges automation with advanced power architectures to significantly boost motor efficiency.



Versatile

It supports multiple connection methods, including screw clamp terminals, spring terminals, and direct PCB welding, ensuring flexible installation across various applications.



Efficient

It offers connected, efficient products and solutions for switching and protection of motors and electrical loads in compliance with all major global electrical standards.