Product data sheet

Specifications



Control relay, TeSys Deca, 5NO, DC-13, 24VDC Standard coil, bulk qty

CAD50BDTQ

Main

Range	TeSys TeSys Deca
Product name	TeSys CAD TeSys Deca
Product or component type	Auxiliary contactor
Device short name	CAD
Contactor application	Control circuit
Utilisation category	DC-13
Control circuit type	DC
Coil type	Standard
Suppressor technology	Bidirectional peak limiting diode
Pole contact composition	5 NO
[Uc] control circuit voltage	24 V DC
Connections - terminals	1 x 1…4 mm²flexible with cable end 1 x 1…4 mm²flexible without cable end 1 x 1…4 mm²solid without cable end 2 x 1…2.5 mm²flexible with cable end 2 x 1…4 mm²flexible without cable end
Quantity per set	Set of 10

Complementary

Control circuit voltage limits	Drop-out: 0.1...0.25 Uc Operational: 0.7...1.25 Uc
Time constant	28 ms
[Ui] rated insulation voltage	600 V - certifications CSA 600 V - certifications UL 690 V - overvoltage category III (pollution degree 3) - conforming to IEC 60947-5-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Tightening torque	1.7 N.m
[Ue] rated operational voltage	<= 690 V DC
[Ith] conventional free air thermal current	10 A (at 60 °C)
Irms rated making capacity	250 A at <= 690 V DC conforming to IEC 60947-5-1
Associated fuse rating	10 A gG at <= 690 V conforming to IEC 60947-5-1
Inrush power in W	5.4 W (at 20 °C)
Hold-in power consumption in W	5.4 W at 20 °C
Mechanical durability	30000000 cycles

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

Maximum operating rate	3 cyc/s 20 °C
Operating time	20 ms +/- 20 % coil de-energisation and NO opening 25 ms +/- 20 % coil de-energisation and NC closing 55 ms +/- 15 % coil energisation and NC opening 63 ms +/- 15 % coil energisation and NO closing
minimum switching current	5 mA
Minimum switching voltage	17 V
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm
Height	77 mm
Width	45 mm
Depth	95 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 CCC UL CSA EAC CE UKCA
IP degree of protection	IP2X conforming to VDE 0106
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-40…70 °C at Uc -5…60 °C at 0.8...1.1 Uc
Ambient air temperature for storage	-60…80 °C
Operating altitude	3000 m without derating
Shock resistance	10 gn control relay open 15 gn control relay closed
Vibration resistance	2 gn 5…300 Hz control relay open 4 gn 5…300 Hz control relay closed

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.500 cm
Package 1 Width	7.500 cm
Package 1 Length	9.400 cm
Package 1 Weight	502.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	18
Package 2 Height	15.000 cm

Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.482 kg

Contractual warranty

Warranty (in months)	18

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	**38 kg CO2 eq.**
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]	**33 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**2 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**B67ac941-f42f-4afd-894a-0b6f9cefde62**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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**

Use Again

Repack and remanufacture

Recyclability potential, in %	**75**
End of life manual availability	**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**