Product data sheet

Specifications





Control relay, TeSys Deca, 5NO, 0 to 690V, 60VDC standard coil, screw clamp

CAD50ND

! Discontinued

Main

Range	TeSys	
Product name	TeSys CAD	
Product or Component Type	Control relay	
Device short name	CAD	
contactor application	Control circuit	

Complementary

Complementary		
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 standard	
[Uc] control circuit voltage	60 V DC	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
[Ith] conventional free air thermal current	I 10 A (at 140 °F (60 °C))	
Irms rated making capacity	140 A AC IEC 60947-5-1	
g capacity	250 A DC 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	
	600 V CSA	
	690 V IEC 60947-5-1	
Mounting Support	Plate	
	Rail	
Connections - terminals	screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end	
	screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without cable end	
	screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end	
	screw clamp terminals 1 0.0020.000 in (14 min)flexible with cable end	
	screw clamp terminals 2 0.0020.004 in (12.3 mm²)solid without cable end	
	screw clamp terminals 10.0020.006 in² (14 mm²)solid without cable end	
Tightening torque	10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2	
3 3 3 3 3 3 3 3 3 3	10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm	
Control circuit voltage limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC	
	0.71.25 Uc -40140 °F (-4060 °C) operational DC	
	11.25 Uc 140158 °F (6070 °C) operational DC	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Operating time	5372 ms coil energisation and NO closing 1624 ms coil de-energisation and NO opening	
Mechanical durability	30 Mcycles	
Maximum operating rate	180 cyc/mn	
Time constant	28 ms	
Inrush power in W	5.4 W 68 °F (20 °C))	
Hold-in power consumption in W	W 5.4 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, 5300 Hz IEC 60068-2-6 Vibrations control relay closed4 Gn, 5300 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 front face VDE 0106	
Protective treatment	TH IEC 60068	
Ambient air temperature for operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Ambient Air Temperature for Storage	-76176 °F (-6080 °C)	
Operating altitude	09842.52 ft (03000 m)	

Ordering and shipping details

Category	22371-RELAYS, CONTROL	
Discount Schedule		
GTIN	3389110406726	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	1.9 in (4.9 cm)	
Package 1 Width	4.4 in (11.1 cm)	
Package 1 Length	3.5 in (8.9 cm)	
Package 1 Weight	12.8 oz (362.0 g)	

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
Circularity Profile	End of Life Information
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

Jul 2, 2024