

# Product data sheet

Specifications



## TeSys Deca control relay - 5 NO - <= 690 V - 24 V DC standard coil

CAD50BD

**Product availability : Stock - Normally stocked in distribution facility**

**Price\* : 112.20 USD**

### Main

<b>Range</b>	TeSys TeSys Deca
<b>Product name</b>	TeSys CAD
<b>Product or Component Type</b>	Control relay
<b>Device short name</b>	CAD
<b>Contactor application</b>	Control circuit

### Complementary

<b>Utilisation category</b>	AC-14 DC-13 AC-15
<b>Pole contact composition</b>	5 NO
<b>[Ue] rated operational voltage</b>	<= 690 V AC 25...400 Hz
<b>Control circuit type</b>	DC standard
<b>[Uc] control circuit voltage</b>	24 V DC
<b>[Uimp] rated impulse withstand voltage</b>	6 kV IEC 60947
<b>[Ith] conventional free air thermal current</b>	10 A 140 °F (60 °C)
<b>Irms rated making capacity</b>	140 A AC IEC 60947-5-1 250 A DC IEC 60947-5-1
<b>[Icw] rated short-time withstand current</b>	100 A - 1 s 120 A - 500 ms 140 A - 100 ms
<b>Associated fuse rating</b>	10 A gG IEC 60947-5-1
<b>[Ui] rated insulation voltage</b>	600 V UL 600 V CSA 690 V IEC 60947-5-1
<b>Mounting Support</b>	Rail Plate
<b>Connections - terminals</b>	screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end
<b>Tightening torque</b>	10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm

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

10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2

<b>Control circuit voltage limits</b>	0.1...0.25 Uc -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 Uc -40...140 °F (-40...60 °C) operational DC 1...1.25 Uc 140...158 °F (60...70 °C) operational DC
<b>Operating time</b>	53...72 ms coil energisation and NO closing 16...24 ms coil de-energisation and NO opening
<b>Mechanical durability</b>	30 Mcycles
<b>Maximum operating rate</b>	180 cyc/mn
<b>Time constant</b>	28 ms
<b>Inrush power in W</b>	5.4 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	5.4 W 68 °F (20 °C)
<b>Minimum switching voltage</b>	17 V
<b>Minimum switching current</b>	5 mA
<b>Non-overlap time</b>	1.5 ms on energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact
<b>Insulation resistance</b>	> 10 MOhm
<b>Mechanical robustness</b>	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
<b>Height</b>	3.03 in (77 mm)
<b>Width</b>	1.77 in (45 mm)
<b>Depth</b>	3.66 in (93 mm)
<b>Net Weight</b>	1.28 lb(US) (0.58 kg)

## Environment

<b>Standards</b>	BS 4794 EN 60947-5 IEC 60947-5-1 NF C 63-140 VDE 0660 IEC 60335-1
<b>Product Certifications</b>	CSA UL UKCA
<b>IP degree of protection</b>	IP2x front face VDE 0106
<b>Protective treatment</b>	TH IEC 60068
<b>Ambient air temperature for operation</b>	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
<b>Ambient Air Temperature for Storage</b>	-76...176 °F (-60...80 °C)
<b>Operating altitude</b>	0...9842.52 ft (0...3000 m)

## Ordering and shipping details

<b>Category</b>	22371-RELAYS, CONTROL
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110405583
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
-------------------------------	-----

<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.97 in (5.000 cm)
<b>Package 1 Width</b>	3.54 in (9.000 cm)
<b>Package 1 Length</b>	4.53 in (11.500 cm)
<b>Package 1 Weight</b>	18.59 oz (527.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	15
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	17.97 lb(US) (8.151 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	240
<b>Package 3 Height</b>	29.53 in (75.000 cm)
<b>Package 3 Width</b>	31.50 in (80.000 cm)
<b>Package 3 Length</b>	23.62 in (60.000 cm)
<b>Package 3 Weight</b>	305.16 lb(US) (138.416 kg)

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
<b>RoHS exemption information</b>	Yes
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------

## Recommended replacement(s)