

# Product data sheet

Specifications



## TeSys Deca control relay - 5 NO - <= 690 V - 110 V AC standard coil

CAD50F7

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

**Price\* : 63.25 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>	DC-13 AC-15 AC-14
<b>Pole contact composition</b>	5 NO
<b>[Ue] rated operational voltage</b>	<= 690 V AC 25...400 Hz
<b>Control circuit type</b>	AC 50/60 Hz
<b>[Uc] control circuit voltage</b>	110 V AC 50/60 Hz
<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>	0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz
<b>Operating time</b>	12...22 ms coil energisation and NO closing 4...12 ms coil de-energisation and NO opening
<b>Mechanical durability</b>	30 Mcycles
<b>Maximum operating rate</b>	180 cyc/mn
<b>Inrush power in VA</b>	70 VA 50 Hz 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	8 VA 50 Hz 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>	3.31 in (84 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>	UL CSA 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>	3389110402940
<b>Nbr. of units in pkg.</b>	1
<b>Package weight(Lbs)</b>	12.56 oz (356.0 g)
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.97 in (5.0 cm)
Package 1 width	3.62 in (9.2 cm)
Package 1 Length	4.41 in (11.2 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Weight	16.38 lb(US) (7.428 kg)
Package 2 Height	5.91 in (15.0 cm)
Package 2 width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Weight	284.61 lb(US) (129.099 kg)
Package 3 Height	30.31 in (77.0 cm)
Package 3 width	23.62 in (60.0 cm)
Package 3 Length	31.50 in (80.0 cm)

## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information.
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Contractual warranty

Warranty	18 months
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