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

Range	TeSys TeSys Deca
Product Name	TeSys CAD
Product Or Component Type	Control relay
Device Short Name	CAD
Contactor Application	Control circuit

Complementary

Utilisation Category	DC-13 AC-15 AC-14
Pole Contact Composition	5 NO
[Ue] Rated Operational Voltage	<= 690 V AC 25...400 Hz
Control Circuit Type	AC 50/60 Hz
[Uc] Control Circuit Voltage	110 V AC 50/60 Hz
[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 0.00…0.01 in² (1…4 mm²)flexible without cable end screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible without cable end screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)flexible with cable end screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)solid without cable end screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)solid without cable end
Tightening Torque	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 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2

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

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

Control Circuit Voltage Limits	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
Operating Time	12...22 ms coil energisation and NO closing 4...12 ms coil de-energisation and NO opening
Mechanical Durability	30 Mcycles
Maximum Operating Rate	180 cyc/mn
Inrush Power In Va	70 VA 50 Hz (at 68 °F (20 °C))
Hold-In Power Consumption In Va	8 VA 50 Hz (at 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	1.77 in (45 mm)
Depth	3.31 in (84 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	-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...9842.52 ft (0...3000 m)

Ordering and shipping details

Category	US10I1222371
Discount Schedule	0I12
Gtin	3389110402940
Returnability	Yes
Country Of Origin	MX

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	3.62 in (9.200 cm)
Package 1 Length	4.41 in (11.200 cm)
Package 1 Weight	12.56 oz (356.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	20
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	16.38 lb(US) (7.428 kg)

Contractual warranty

Warranty	18 months

Sustainability

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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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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