Product datasheet

Specification





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

CAD50F7

EAN Code: 3389110402940

Main

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

Complementary

Complementary	
Utilisation Category	DC-13 AC-15 AC-14
Pole Contact Composition	5 NO
[Ue] Rated Operational Voltage	<= 690 V AC 25400 Hz
Control Circuit Type	AC at 50/60 Hz
[Uc] Control Circuit Voltage	110 V AC 50/60 Hz
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C)
Irms Rated Making Capacity	140 A AC conforming to IEC 60947-5-1 250 A DC conforming to 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 certified 600 V CSA certified 690 V conforming to IEC 60947-5-1
Mounting Support	Rail Plate
Connections - Terminals	Screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Screw clamp terminals 1 cable(s) 14 mm²solid without cable end Screw clamp terminals 2 cable(s) 14 mm²solid without cable end
Tightening Torque	1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm

1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2

Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz
	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz
	11.1 Uc (6070 °C):operational AC 50/60 Hz
Operating Time	1222 ms coil energisation and NO closing
	412 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 20 °C)
Hold-In Power Consumption In Va	8 VA 50 Hz (at 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 open: 10 Gn for 11 ms conforming to IEC 60068-2-27
	Shocks control relay closed: 15 Gn for 11 ms conforming to IEC 60068-2-27
	Vibrations control relay open: 2 Gn, 5300 Hz conforming to IEC 60068-2-6
	Vibrations control relay closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6
Height	77 mm
Width	45 mm
Depth	84 mm
Net Weight	0.58 kg
Environment	
Standards	EN/IEC 60947-5-1
Standards	GB/T 14048.5
Standards	GB/T 14048.5 UL 60947-5-1
Standards	GB/T 14048.5
Standards Product Certifications	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1
	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1
	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL
	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA
	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL
	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC
	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE
Product Certifications	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106
Product Certifications Ip Degree Of Protection Protective Treatment	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating -6080 °C
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For Storage	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating -6080 °C
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Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude Packing Units	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating -6080 °C 03000 m
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude Packing Units Unit Type Of Package 1	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating -6080 °C 03000 m
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude Packing Units Unit Type Of Package 1 Number Of Units In Package 1	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating -6080 °C 03000 m
Product Certifications Ip Degree Of Protection Protective Treatment Ambient Air Temperature For Operation Ambient Air Temperature For Storage Operating Altitude Packing Units Unit Type Of Package 1 Number Of Units In Package 1 Package 1 Height	GB/T 14048.5 UL 60947-5-1 CSA C22.2 No 60947-5-1 JIS C8201-5-1 CB CCC UL CSA EAC CE UKCA IP2X front face conforming to VDE 0106 TH conforming to IEC 60068 -4060 °C 6070 °C with derating -6080 °C 03000 m

Package 1 Weight	356.000 g
Unit Type Of Package 2	002
	S02
Number Of Units In Package 2	20
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.428 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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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