

Product data sheet

Specifications



TeSys Deca control relay - 3 NO + 2 NC - <= 690 V - 24 V DC standard coil

CAD32BD

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	3 NO + 2 NC
[Ue] rated operational voltage	<= 690 V AC 25...400 Hz
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
[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) 1...4 mm²flexible without cable end Screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Screw clamp terminals 2 cable(s) 1...4 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	0.1...0.25 Uc (-40...70 °C):drop-out DC 0.7...1.25 Uc (-40...60 °C):operational DC 1...1.25 Uc (60...70 °C):operational DC
Operating time	53...72 ms coil energisation and NO closing 16...24 ms coil de-energisation and NO opening 47...63 ms coil energisation and NC opening 15...25 ms coil de-energisation and NC closing
Mechanical durability	30 Mcycles
Maximum operating rate	180 cyc/mn
Time constant	28 ms
Inrush power in W	5.4 W (at 20 °C)
Hold-in power consumption in W	5.4 W 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, 5...300 Hz conforming to IEC 60068-2-6 Vibrations control relay closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6
Height	77 mm
Width	45 mm
Depth	93 mm
Net weight	0.58 kg

Environment

Standards	BS 4794 EN 60947-5 IEC 60947-5-1 NF C 63-140 VDE 0660 IEC 60335-1
Product certifications	UL CSA UKCA
IP degree of protection	IP2x front face conforming to VDE 0106
Protective treatment	TH conforming to IEC 60068
Ambient air temperature for operation	-40...60 °C 60...70 °C with derating
Ambient air temperature for storage	-60...80 °C
Operating altitude	0...3000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	528 g
Package 1 Height	5.2 cm
Package 1 width	9.2 cm
Package 1 Length	11.2 cm
Unit Type of Package 2	S02

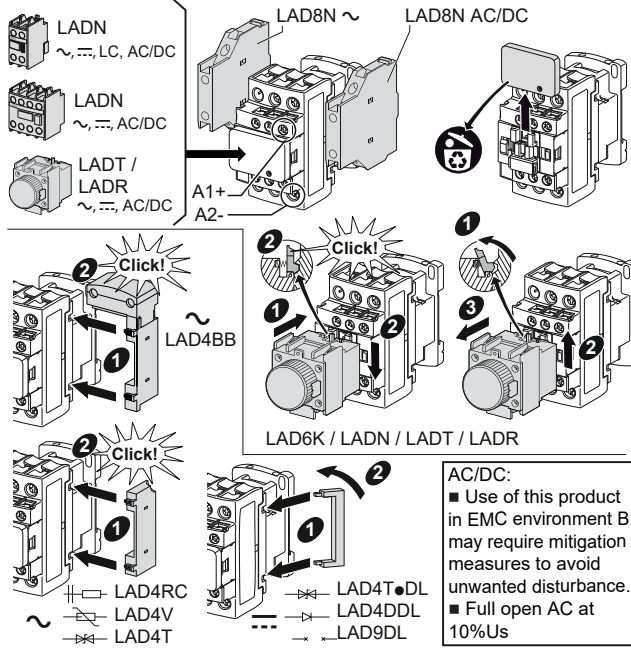
Number of Units in Package 2	15
Package 2 Weight	8.262 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Weight	142.02 kg
Package 3 Height	77 cm
Package 3 width	60 cm
Package 3 Length	80 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

Contractual warranty

Warranty	18 months
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04/2021

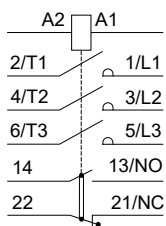
Elevator Duty HP ratings/ 电梯专用马力 (HP) 额定值					
	One Phase / 单相	Three Phases / 三相			
	230 V	200/208 V	230 V	460 V	575 V
LC1D12	1.5	2	3	7.5	7.5
LC1D18	3	5	5	-	-
LC1D25	3	5	7.5	15	20
LC1D32	5	10	7.5	-	-

Only applicable for UL / CSA marked products except DC coil.

UL/CSA Lighting Ratings / UL/CSA 照明电流额定值		
Device / 设备	Ballast, 600 V / 镇流器	Tungsten, 480 V/277 V / 钨丝灯
LC1D09	20 A	20 A
LC1D12	25 A	25 A CSA only
LC1D18	32 A	25 A
LC1D25	40 A	40 A
LC1D32	50 A	50 A
LC1DT20	20 A	20 A
LC1DT25	25 A	25 A CSA only
LC1DT32	32 A	25 A
LC1DT40	40 A	40 A

"For Motor Starting Use Schneider Electric Overload Relay Series LR".
电动机启动请使用施耐德电气LR系列热过载继电器

Only applicable for UL / CSA marked products except DC coil.



⚠ DANGER / 危险
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH
 Disconnect all power before servicing equipment.
Failure to follow these instructions will result in death or serious injury.
 可能有触电、爆炸或者电弧灼伤的危险。
 在此电力设备上工作时，请先切断所有电源。
 不遵循上述规定将可能导致人员伤亡。



	LC1D09/ D12	LC1DT20/ DT25/ D098/D128	LC1D18	LC1D25/ D32/D38	LC1DT32/ DT40/ D188/D258	LC1D●●, LA●●
	8 mm 5/16"	12 mm 6/13"	8 mm 5/16"	10 mm 3/8"	12 mm 6/13"	8 mm 5/16"
	1...4	1...4	1.5...6	2.5...10	2.5...10	1...4
	1...4	1...4	1.5...6	2.5...10	2.5...10	1...4
	1...4	1...4	1...6	1...10	2.5...10	1...4
	1...2.5	1...2.5	1...4	1.5...6	2.5...10	1...2.5
	1...4	1...4	1.5...6	1.5...10	2.5...16	1...4
	1...4	1...4	1.5...6	2.5...10	2.5...16	1...4
AWG	10-18 CU 75°C	10-18 CU 75°C	8-18 CU 75°C	6-14 CU 75°C	8-12 CU 75°C	10-18 CU 75°C
	6 mm	6 mm	6 mm	6 mm	6 mm	6 mm
	1.7 N.m 15 lb-in	1.7 N.m 15 lb-in	1.7 N.m 15 lb-in	2.5 N.m 22 lb-in	1.8 N.m 16 lb-in	1.7 N.m 15 lb-in

⚠ WARNING / AVERTISSEMENT
HAZARD OF FIRE OR ELECTRIC SHOCK (FOR CONTACTOR WITH UL HI-FAULT SHORT CIRCUIT CURRENT RATINGS ONLY)
 ■ The opening of the branch-circuit protective device may be an indication that a fault current has been interrupted.
 ■ To reduce the risk of fire or electric shock, current-carrying parts and the other components of the controller should be examined and replaced if damaged.
Failure to follow these instructions can result in death, serious injury, or equipment damage.
RISQUE D'INCENDIE OU D'ÉLECTROCUTION (POUR LE CONTACTEUR AYANT DES COURANTS DE COURT-CIRCUIT ASSIGNÉS UL TRÈS ÉLEVÉS UNIQUEMENT)
 ■ L'ouverture du dispositif de protection du circuit de dérivation peut indiquer qu'un courant de défaut a été interrompu.
 ■ Pour réduire le risque d'incendie ou d'électrocution, les parties sous tension et les autres composants du contrôleur doivent être examinés et remplacés en cas de dommage.
Le non-respect de ces instructions peut provoquer la mort, des blessures graves ou des dommages matériels.

**Definite Purpose ratings, 3 Phase, Load wiring:
 breaking all lines**
 Hermetic refrigeration compressor
 特定用途额定值, 3 相, 断开所有线路
 封闭式制冷压缩机设备

Device	FLA	LRA		
		240 V	480 V	600 V
LC1D09	9	54	45	36
LC1D12	12	72	60	48
LC1D18	18	108	90	72
LC1D25	25	150	125	100
LC1D32	32	192	160	128

Only applicable for UL/CSA marked products except DC coil.

3P AC TeSys D contactors are grade 3 (LC1D09 -> LC1D18) and grade 2 (LC1D25 -> LC1D38) according to GB 21518.
 Maximum power consumption lower than 9.5 VA.
 根据GB 21518标准, 三相 TeSys D系列交流接触器能效等级为3级 (LC1D09 -> LC1D18)和2级 (LC1D25 -> LC1D38), 产品最大吸持功率低于9.5VA