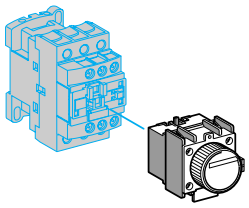
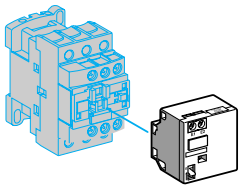


LADT

Time Delay Auxiliary Contact Blocks

Number and Type of Contacts	Maximum Number per Device Front Mounting	Time Delay Type	Termination Type	Range	Catalog Number	Weight lb. (kg)
1 N/C and 1 N/O	1	On-Delay	Screw Clamp	0.1 to 3 sec. ✚	**LADT0**	0.13 (0.060)
				0.1 to 30 sec.	**LADT2**	0.13 (0.060)
				10 to 180 sec.	**LADT4**	0.13 (0.060)
				1 to 30 sec. ■	**LADS2**	0.13 (0.060)
			Spring Terminal	0.1 to 3 sec. ✚	**LADT03**	0.13 (0.060)
				0.1 to 30 sec.	**LADT23**	0.13 (0.060)
				10 to 180 sec.	**LADT43**	0.13 (0.060)
				1 to 30 sec. ■	**LADS23**	0.13 (0.060)
		Off-Delay	Screw Clamp	0.1 to 3 sec. ✚	**LADR0**	0.13 (0.060)
				0.1 to 30 sec.	**LADR2**	0.13 (0.060)
				10 to 180 sec.	**LADR4**	0.13 (0.060)
			Spring Terminal	0.1 to 3 sec. ✚	**LADR03**	0.13 (0.060)
				0.1 to 30 sec.	**LADR23**	0.13 (0.060)
(Lockout Cover, See page 7)				10 to 180 sec.	**LADR43**	0.13 (0.060)

✚ With extended scale from 0.1 to 0.6 s.
■ With switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

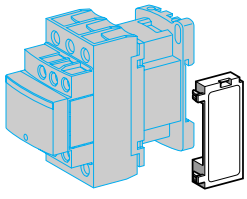


LA6DK

Mechanical Latch Blocks ★

Unlatching Control	Maximum Number per Device Front mounting	Catalog Number	Weight lb. (kg)
Manual or electrical	1	**LA6DK10** ▲	0.15 (0.070)
		LAD6K10 ▲	0.15 (0.070)

★ Power should not be simultaneously applied or maintained to the mechanical latching block and the CAD relay. The duration of the control signal to the mechanical latching block and the CAD relay should be ≥ 100 ms.



LAD4

Coil Suppressor Modules

These modules clip onto the right hand side of the control relay and the electrical connection is instantly made. Adding an input module is still possible.

RC Circuits (Resistor-Capacitor)

- Effective protection for circuits highly sensitive to “high frequency” interference.
- Voltage limited to 3 Uc maximum and oscillating frequency limited to 400 Hz maximum.
- Slight increase in drop-out time (1.2 to 2 times the normal time).

For Mounting On:	Operational Voltage	Catalog Number	Weight lb. (kg)
CAD (Vac)	24 to 48 Vac	**LAD4RCE**	0.03 (0.012)
	110 to 240 Vac	**LAD4RCU**	0.03 (0.012)

Varistors (Peak Limiting)

- Protection provided by limiting the transient voltage value to 2 Uc maximum.
- Maximum reduction of transient voltage peaks.
- Slight increase in drop-out time (1.1 to 1.5 times the normal time).

CAD (Vac)	24 to 48 Vac	**LAD4VE**	0.03 (0.012)
	50 to 127 Vac	**LAD4VG**	0.03 (0.012)
	110 to 250 Vac	**LAD4VU**	0.03 (0.012)

Bidirectional Peak Limiting Diode

- Protection provided by limiting the transient voltage value to 2 Uc maximum.
- Maximum reduction of transient voltage peaks.

CAD (Vac)	24 Vac	**LAD4TB**	0.03 (0.012)
	72 Vac	**LAD4TS**	0.03 (0.012)

▲ Standard coil voltage codes.

Vac and Vdc	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	B	C	E	EN	K	F	M	U	Q

Control Circuit Characteristics

Type				CAD (Vac)	CAD (Vdc)	CAD (Vdc) Low Consumption
Rated Control Circuit Voltage (Uc)			V	12 to 690	12 to 440	5 to 72
Control Voltage Limits						
Operation	With coil type:	Vac 50/60 Hz		80 to 110% Uc at 50 Hz	-	-
				85 to 110% Uc at 60 Hz	-	-
		Vdc standard, wide range		-	70 to 125% Uc	70 to 125% Uc
Drop-out				30 to 60% Uc	10 to 25% Uc	10 to 25% Uc
Average Consumption at 68 °F (20 °C) and at Uc	Vac Coil 50/60 Hz		VA	Inrush: 70	-	-
				Hold-in: 8	-	-
	Vdc Coil with standard coil		W	-	Inrush or hold-in: 5.4	Inrush or hold-in: 2.4
Operating Time	Between coil energization and					
(at rated control circuit voltage	- opening of the N/C contacts		ms	4 to 19	35 to 45	45 to 55
and at 68 °F (20 °C)	- closing of the N/O contacts		ms	12 to 22	50 to 55	60 to 70
	Between coil de-energization and					
	- opening of the N/O contacts		ms	4 to 12	6 to 14	10 to 15
	- closing of the N/C contacts		ms	6 to 17	20	25
Short Supply Failures	Maximum duration without affecting hold-in of the device		ms	2	2	2
Maximum Operating Rate	In operating cycles per second			3	3	3
Mechanical Durability	With coil type:	Vac 50/60 Hz		15	-	-
(in millions of operating cycles) ✚		Vdc standard, wide range		-	30	30
Time Constant L/R			ms	-	28	40

✚ The product life expressed above is based on average usage and normal operating conditions. Actual operating life will vary with conditions. The above statements are not intended to, nor shall they create any expressed or implied warranties as to product operation or life. For information on the listed warranty offered on this product, refer to the Square D terms and conditions of sale found in the Square D Digest.

Characteristics of Instantaneous Contacts incorporated in the Control Relay

Number of Contacts				5
Rated Operational Voltage (Ue)	Up to		V	690
Rated Insulation Voltage (Ui)	Conforming to IEC 60947-1-1		V	690
	Conforming to UL, CSA		V	600
Rated Conventional Thermal Current (Ith)	For ambient temperature ≤ 104 °F (40 °C)		A	10
Frequency of Operational Current			Hz	25 to 400
Minimum Switching Capacity	U min.		V	17
	I min.		mA	5
Short-circuit Protection	Conforming to IEC 60947-1-1			gG fuse: 10 A (10 Amp Class J Time delay)
Rated Making Capacity	Conforming to IEC 60947-1-1 I rms			140 Aac, 250 Adc
Short Time Rating	Permissible for	1 s	A	100
		500 ms	A	120
		100 ms	A	140
Insulation Resistance			MΩ	> 10
Non-overlap time	Guaranteed between N/O and N/C contacts		ms	1.5 (on energization and on de-energization)
Tightening Torque	Phillips n°2 and ∅ 6		lb-in (N●m)	10.6 (1.2)
Non-overlap Distance				Linked contacts in association with auxiliary contacts LADN
Linked Contacts	According to draft standard IEC 60947-4-5			The three “N/O” contacts and the two “N/C” contacts of CADN32 are linked mechanically by one mobile contact holder.