

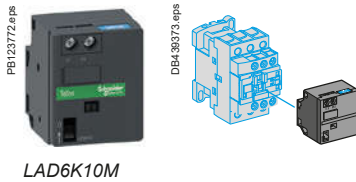
Time delay auxiliary contact blocks for connection by screw clamp terminals ⁽¹⁾

Number and type of contacts	Maximum number per relay Front mounting	Time delay		Reference
		Type	Range	
1 N/C and 1 N/O	1	On-delay	0.3...3 s ⁽²⁾	LADT0
			1...30 s	LADT2
			10...180 s	LADT4
		Off-delay	1...30 s ⁽³⁾	LADS2
			0.3...3 s ⁽²⁾	LADR0
			1...30 s	LADR2
		10...180 s	LADR4	

(Sealing cover: see page B8/42)

Time delay auxiliary contact blocks for connection by spring terminals

Add the digit 3 to the references selected above. Example: LADT0 becomes LADT03.



Mechanical latch blocks ⁽⁴⁾

Unlatching control	Maximum number per relay Front mounting	Basic reference to be completed ⁽⁵⁾
Manual or electric	1	LAD6K10●

Suppressor modules

These modules clip onto the top of the control relay and the electrical connection is instantly made. Fitting of 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 time delay on drop-out (1.2 to 2 times the normal time).

For mounting on	Operational voltage	Reference
CAD ~	~ 24...48 V	LAD4RCE
	~ 50...127 V	LAD4RCG
	~ 110...250 V	LAD4RCU

Varistors (peak limiting)

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

CAD ~	Operational voltage	Reference
CAD ~	~ 24...48 V	LAD4VE
	~ 50...127 V	LAD4VG
	~ 110...250 V	LAD4VU

Freewheel diode

- No overvoltage or oscillating frequency.
- Increase in drop-out time (6 to 10 times the normal time).
- Polarised component.

CAD ---	Operational voltage	Reference
CAD ---	--- 5...600 V	LAD4DDL ⁽⁶⁾

Bidirectional peak limiting diode ⁽⁷⁾

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

CAD ~	Operational voltage	Reference
CAD ~	~ 24 V	LAD4TB
	~ 72 V	LAD4TS
	--- 24 V	LAD4TBDL
CAD ---	--- 72 V	LAD4TSDL
	--- 125 V	LAD4TGDL
	--- 250 V	LAD4TUDL

⁽¹⁾ These contact blocks cannot be used on low consumption control relays.

⁽²⁾ With extended scale from 0.1 to 0.6 s.

⁽³⁾ With switching time of 40 ms ±15 ms between opening of the N/C contact and closing of the N/O contact.

⁽⁴⁾ Power should not be simultaneously applied or maintained to the mechanical latching block of the CADN. The duration of the control signal to the mechanical latching block and the CADN should be ≥ 100 ms.

⁽⁵⁾ Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

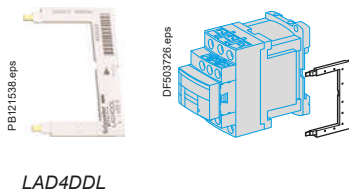
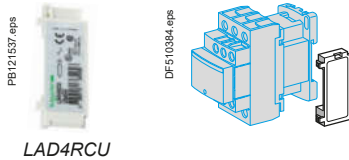
Volts ~ and ---	24	32/36	42/48	60/72	100	110/127	220/240	256/277	380/415
Code	B	C	E	EN	K	F	M	U	Q

⁽⁶⁾ Not compatible with low consumption control relays.

⁽⁷⁾ CAD●● --- and low consumption control relays are fitted with a built-in bi-directional peak limiting diode suppressor as standard. On control relays produced after 15th July 2004, this diode is removable. It can therefore be replaced by the user (see references LAD4T●●● above). It can also be replaced by a freewheel diode LAD4DDL.



Control relays

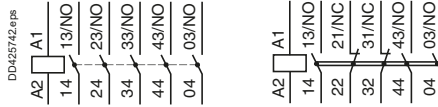


Instantaneous auxiliary contacts

5 N/O 3 N/O + 2 N/C

CAD50

CAD32



Instantaneous auxiliary contact blocks

1 N/O + 1 N/C

2 N/O

2 N/C

LADN11

LAD8N11 (1)

LADN20

LAD8N20 (1)

LAD8N02

LADN02



(1) The figures in brackets are for the device mounted on the RH side of the control relay.

2 N/O + 2 F N/C

1 N/O + 3 N/C

4 N/O

4 N/C

3 N/O + 1 N/C

LADN22

LADN13

LADN40

LADN04

LADN31



2 N/O + 2 N/C including
1 N/O + 1 N/C
make before break

With dust and damp protected contacts
2 N/O protected 2 N/C protected

2 N/O protected (2)
with 2 cable screen
terminals

2 N/O protected +
2 N/O non protected

2 N/O protected +
1 N/O + 1 N/C
non protected

LADC22

LA1DX20

LA1DX02

LA1DY20

LA1DZ40

LA1DZ31



(2) Product fitted with 4 earth screen continuity terminals.

Time delay auxiliary contact blocks

On-delay 1 N/O + 1 N/C

Off-delay
1 N/O + 1 N/C

Mechanical latch blocks

LADT

LADS

LADR

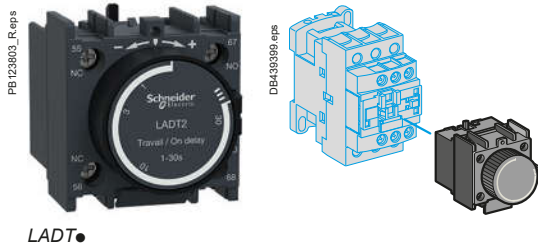
LAD6K10



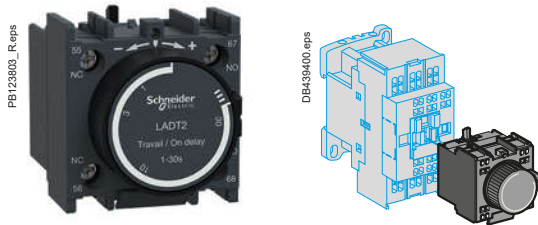
TeSys Control

Deca Contactors - Time delay auxiliary contact blocks

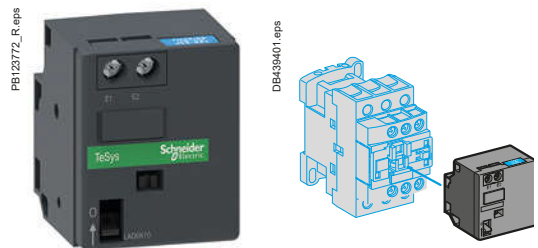
Product references



LADT0●



LADT03●



LAD6K10●

Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, see page B8/36.
 Sealing cover to be ordered separately, see page B8/42.
 LADS2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

Clip-on mounting	Number of contacts	Time delay		Reference
		Type	Setting range	
Front	1 N/O + 1 N/C	On-delay	0.3...3 s	LADT0
			1...30 s	LADT2
			10...180 s	LADT4
			1...30 s	LADS2
		Off-delay	0.3...3 s	LADR0
			1...30 s	LADR2
			10...180 s	LADR4

Time delay auxiliary contact blocks for connection by lugs

Add the figure 6 to the end of the references selected above. Example: LADT0 becomes LADT06.

Time delay auxiliary contact blocks for connection by spring terminals

Add the figure 3 to the end of the references selected above. Example: LADT0 becomes LADT03.

Time delay auxiliary contact blocks for connection by Faston connectors

Add the figure 9 to the end of the references selected above. Example: LADT0 becomes LADT09.

Mechanical latch blocks ⁽¹⁾

Clip-on mounting	Unlatching control	For use on contactor	Basic reference, to be completed by adding the control voltage code ⁽²⁾⁽³⁾
Front	Manual or electric	LC1D09...D38 (~ or ---) ⁽⁴⁾	LAD6K10●
		LC1DT20...DT40 (~ or ---)	
		LC1D40A...D80A	LAD6K10●
		(3 P ~ or ---)	
		LC1DT60A and DT80A	
		(4 P ~ or ---)	
		LC1D80...D150 (3 P ~)	LA6DK20●
		LC1D80 and D150 (3 P ---)	
		LC1D80 (4 P ~)	
		LC1D80 and D115 (4 P ~)	
LP1D80 and LC1D115 (4 P ---)			
LC1D40 and D65 (4 P ~)	LA6DK10●		
LP1D40 and D65 (4 P ---)			

- The mechanical latch block must not be powered up at the same time as the contactor. The duration of the control signal for the mechanical latch block and the contactor should be:
 - ≥ 100 ms for a contactor operating on an a.c. supply,
 - ≥ 250 ms for a contactor operating on a d.c. supply.
 Maximum impulse duration for the LAD6K10● mechanical latch block: 10 seconds.
- Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts 50/60 Hz, 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





- Please check the availability of your variant in the index page B8/55. The SEARCH function of your viewer can be used.
- The DC, low consumption contactors (coil code ●L) are not compatible with the mechanical latch blocks LAD6K10●.



Contactors

Instantaneous auxiliary contact blocks

For use in normal operating environments

Number of contacts	Maximum number of blocks per contactor Clip-on mounting	Composition				Reference
						
1	1	-	-	1	-	LADN10
		-	-	-	1	LADN01
2	2	-	-	1	1	LADN11
		-	-	2	-	LADN20
		-	-	-	2	LADN02
4	2	-	-	2	2	LADN22
		-	-	1	3	LADN13
		-	-	4	-	LADN40
		-	-	-	4	LADN04
		-	-	3	1	LADN31
		-	-	2	2 ⁽¹⁾	LADC22

With terminal referencing conforming to EN 50012





2	2	-	-	1	1	LADN11P
		-	-	1	1	LADN11G
4	2	-	-	2	2	LADN22P
		-	-	2	2	LADN22G

Instantaneous auxiliary contact blocks for connection by lugs

This type of connection is not possible for blocks with 1 contact or blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the figure 6 to the end of the references selected above. Example: LADN11 becomes LADN116.

Instantaneous auxiliary contact blocks with dust and damp protected contacts

Recommended for use in particularly harsh industrial environments

Number of contacts	Maximum number of blocks per contactor Clip-on mounting	Composition				Reference
						
2	2	2	-	-	-	LA1DX20
		2	2 ⁽²⁾	-	-	LA1DY20
4	2	2	-	2	-	LA1DZ40
		2	-	1	1	LA1DZ31

Time delay auxiliary contact blocks

Number of contacts	Maximum number of blocks per contactor Clip-on mounting	Time delay		Reference
		Type	Range s	
1 N/O +	2	On-delay	0.3 ⁽³⁾	LADT0
			1...30	LADT2
1 N/C	2	Off-delay	10...180	LADT4
			1...30 ⁽⁴⁾	LADS2
			0.3 ⁽³⁾	LADR0
			1...30	LADR2
			10...180	LADR4

(1) Including 1 N/O + 1 N/C make before break.
 (2) Device fitted with 4 earth screen continuity terminals.
 (3) With extended scale from 0.1 to 0.6 s.
 (4) With switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.



High power contactors



LADN●●



LADT●

Auxiliary contact blocks for LC1FG 3-pole shockproof contactors

Instantaneous auxiliary contact blocks

For use in normal operating environments

Number of contacts	Max. number of blocks per contactor Clip-on mounting	Composition				Reference	
1	1	-	-	1	-	LADN10	(1)
		-	-	-	1	LADN01	(1)
4	1	-	-	2	2	LADN22	(1)
		-	-	4	-	LADN40	(1)
		-	-	-	4	LADN04	(1)
		-	-	3	1	LADN31	(1)

Time delay auxiliary contact blocks

Number of contacts	Max. number of blocks per contactor Clip-on mounting	Time delay		Reference	
		Type	Range s		
1 N/O +	1	On-delay	0...3 (2)	LADT0	
			1...30	LADT2	(1)
			10...180	LADT4	
		1 N/C	1	Off-delay	1...30 (3)
0...3 (2)	LADR0				
			1...30	LADR2	(1)
			10...180	LADR4	

(1) Device approved by the DCN (French naval shipyard department) and authorised for on-board use.
 (2) With extended scale from 0.1 to 0.6 s.
 (3) With switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

