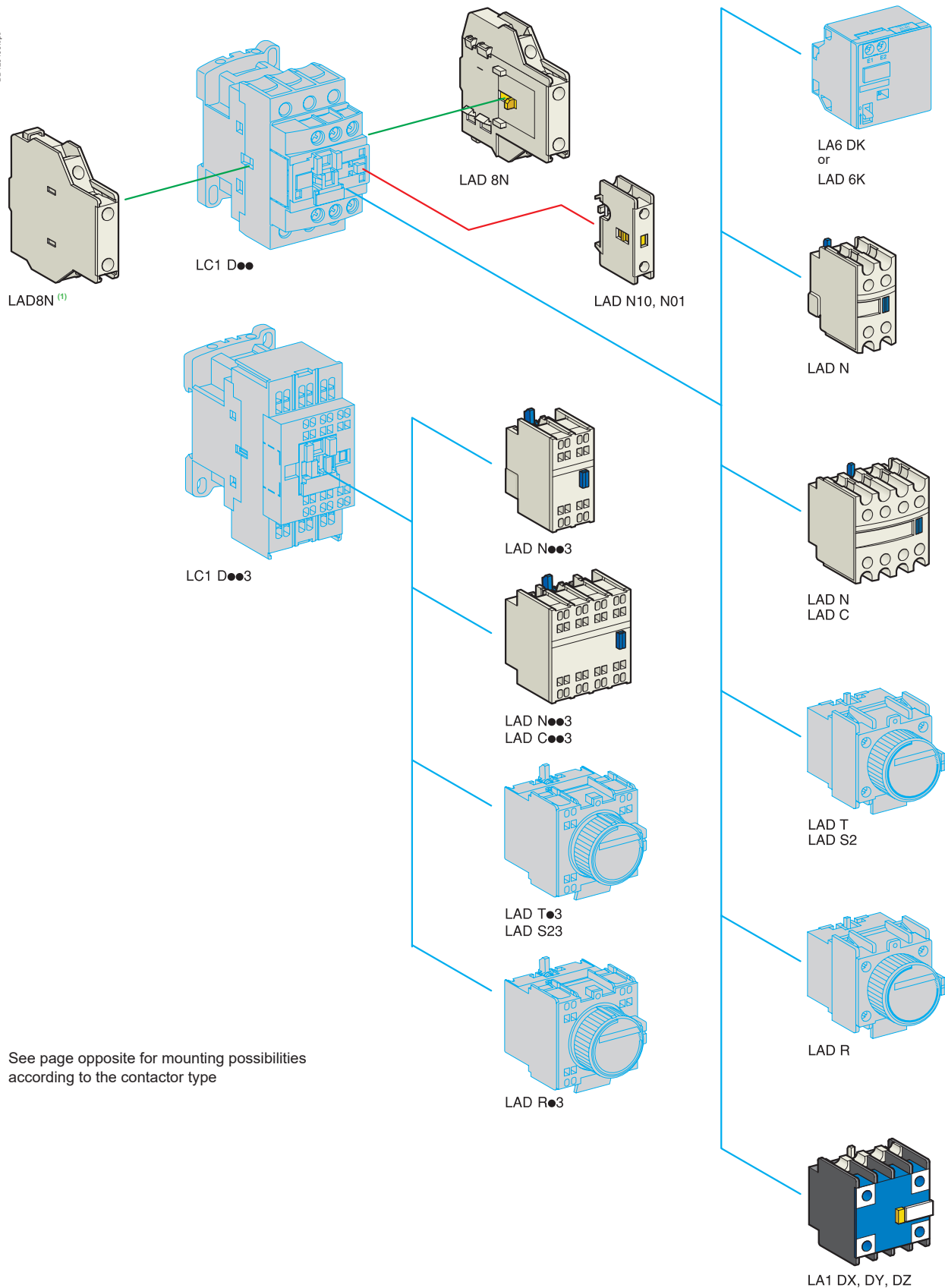


# TeSys contactors

Auxiliary contact blocks with dust and damp protected contacts for TeSys D, TeSys D Green contactors

Environment							
Contact block type			LA1 DX	LA1 DZ		LA1 DY	
			Protected	Protected	Non protected	Protected	
Conforming to standards			IEC 60947-5-1, VDE 0660				
Product certifications			UL, CSA				
Protective treatment	Conforming to IEC 60068		“TH”				
Degree of protection	Conforming to VDE 0106		Protection against direct finger contact IP 2X				
Ambient air temperature	Storage and operation	°C	-25...+70				
Cabling	Phillips n° 2 and Ø6 mm Flexible or solid conductor with or without cable end	mm²	Min: 1 x 1; max: 2 x 2.5				
Number of contacts			2	2	2	2	
Contact characteristics							
Rated operational voltage (Ue)	Up to	Vac	125	125	690	125	
		Vdc	30	30		30	
Rated insulation voltage (Ui)	Conforming to IEC 60947-5-1	V	250	250	690	250	
	Conforming to UL, CSA	V	–	–	600	–	
Conventional thermal current (Ith)	For ambient temperature ≤ 40 °C	A	–	–	10	–	
Maximum operational current (Ie)		mA	100	100	–	100	
Frequency of the operational current		Hz	–	–	25...400	–	
Minimum switching capacity	U min	V	5	5	17	5	
	I min	mA	1	1	5	1	
Short-circuit protection	Conforming to IEC 609475-1 gG fuse	A	–	–	10	–	
Rated making capacity	Conforming to IEC 609475-1	I rms	A	–	~:140; ∞: 250	–	
Short-time rating	Permissible for	1 s	A	–	100	–	
		500 ms	A	–	120	–	
		100 ms	A	–	140	–	
Insulation resistance		MΩ	> 10	> 10	> 10	> 10	
Mechanical durability	In millions of operating cycles			5	5	30	5
Materials and technology used for dust and damp protected contacts				Gold alloy - Single break	Gold alloy - Single break	–	Gold alloy - Single break with crossed bars



See page opposite for mounting possibilities according to the contactor type

**(1)** No left side mounting on TeSys D Green contactors.






## TeSys contactors

TeSys D contactors and reversing contactors

Instantaneous auxiliary contact blocks

## Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

Clip-on mounting	Number of contacts per block	Composition	Reference
		    	
Front	1	– – – 1 –	LADN10
		– – – – 1	LADN01
	2	– – – 1 1	LADN11
		– – – 2 –	LADN20
	4	– – – – 2	LADN02
		– – – 2 2	LADN22 LADN22S <sup>(4)</sup>
		– – – 1 3	LADN13
		– – – 4 –	LADN40
		– – – – 4	LADN04
		– – – 3 1	LADN31
Side (contact blocks compatible with AC coil contactors only)	2	4 incl. 1 N/O & 1 N/C make before break	LADC22
		– – – 1 1	LAD8N11
		– – – 2 –	LAD8N20
		– – – – 2	LAD8N02

## For terminal referencing conforming to EN 50012

Front on 3P contactors and 4P contactors 20 to 80 A	2	– – – 1 1	LADN11G
	4	– – – 2 2	LADN22G
Front on 4P contactors 125 to 200 A	2	– – – 1 1	LADN11P
	4	– – – 2 2	LADN22P

## With dust and damp protected contacts, for use in particularly harsh industrial environments

Front	2	– 2 – – –	LA1DX20
		1 1 – – –	LA1DX11
		2 – – – –	LA1DX02
	4	– 2 2 – –	LA1DY20 <sup>(2)</sup>
		– 2 – 2 –	LA1DZ40
		– 2 – 1 1	LA1DZ31

## 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: LAD N11 becomes LAD N116.

## Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for LAD 8, LAD N with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure 3 to the end of the references selected above. Example: LAD N11 becomes LAD N113.

## Instantaneous auxiliary contact blocks for connection by Faston connectors

This type of connection is not possible for LAD 8, LAD N with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure 9 to the end of the references selected above. Example: LAD N11 becomes LAD N119.

Maximum number of auxiliary contacts that can be fitted:

Contactors			Instantaneous auxiliary contacts					Time delay Front mounted
Type	Number of poles and size		Side mounted	Front mounted				
				1 contact	2 contacts	4 contacts		
AC AC/DC	3P	LC1 D09...D38	1 on LH or 1 on RH side <sup>(1)</sup> and	–	1	or 1	or 1	
		LC1 D40A...D80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		LC1 D80 and D95 (50/60 Hz)	1 on each side	or	2	and 1	or 1	or 1
		LC1 D80 and D95 (50 or 60 Hz)	1 on each side	and	2	and 1	or 1	or 1
		LC1 D115 and D150	1 on LH side	and	–	1	or 1	or 1
	4P	LC1 DT20...DT40	1 on LH side	and	–	1	or 1	or 1
		LC1 DT60A and DT80A	1 on LH or 1 on RH side	and	–	1	or 1	or 1
		LC1 D40008, D65008 and D80	1 on each side	or	1	or 1	or 1	or 1
		LC1 D115	1 on each side	and	1	or 1	or 1	or 1
		LC1 D115	1 on each side	and	1	or 1	or 1	or 1
DC	3P	LC1 D09...D38	–	–	1	or 1	or 1	
		LC1 D40A...D80A	–	–	1	or 1	or 1	or 1
		LC1 D80 and D95	–	1	or 1	or 1	or 1	or 1
		LC1 D115 and D150	1 on LH side	and	–	1	or 1	or 1
		LC1 DT20...DT40	–	–	1	or 1	or 1	or 1
	4P	LC1 DT60A and DT80A	–	–	1	or 1	or 1	or 1
		LC1 D40008, D65008 and D80	–	2	and 1	or 1	or 1	or 1
		LC1 D115	1 on each side	–	and 1	or 1	or 1	or 1
		LC1 D09...D38	–	–	1	–	–	–
		LC1 DT20...DT40	–	–	1	–	–	–

(1) 1 on LH side for AC coils - 1 on RH side for AC/DC coils. (4) With red front face - for safety chain indication.

(2) Device fitted with 4 earth screen continuity terminals. (5) LA1D... dust &amp; damp proof auxiliary contact blocks not

(3) LC: low consumption.

allowed.

## TeSys contactors

TeSys D, TeSys D Green contactors

### Front mounting add-on contact blocks for TeSys D, TeSys D Green

Dust and damp protected instantaneous auxiliary contacts (References: page B8/23)

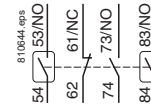
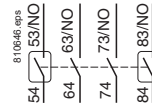
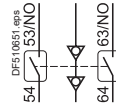
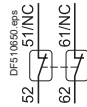
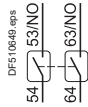
2 N/O (24-50 V)  
LA1 DX20

2 N/C (24-50 V)  
LA1 DX02

2 N/O (5-24V) with 2  
cable screen terminals  
LA1 DY20

2 N/O protected (24-50 V)  
2 N/O standard LA1 DZ40

2 N/O protected (24-50 V)  
+ 1 N/O + 1 N/C standard LA1 DZ31

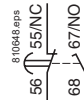
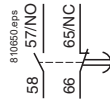
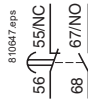


### Time delay auxiliary contacts (References: page B8/24)

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

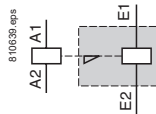
Off-delay 1 N/O + 1 N/C  
LAD R

On-delay 1 N/C + 1 N/O break before make LAD S



### Mechanical latch blocks for TeSys D, TeSys D Green (References: page B8/24)

LAD 6K10 and LA6 DK20



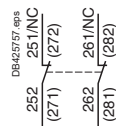
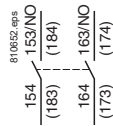
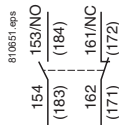
### Side mounting add-on contact blocks for TeSys D, TeSys D Green

Instantaneous auxiliary contacts (References: page B8/23)

1 N/O + 1 N/C LAD 8N11 <sup>(1)</sup>

2 N/O LAD 8N20 <sup>(1)</sup>

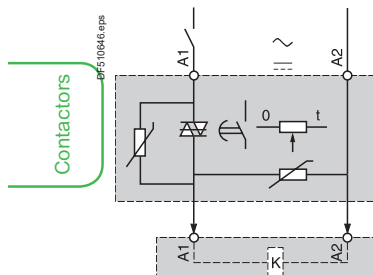
2 N/C LAD 8N02 <sup>(1)</sup>



<sup>(1)</sup> Items in brackets refer to blocks mounted on right-hand side of contactor.

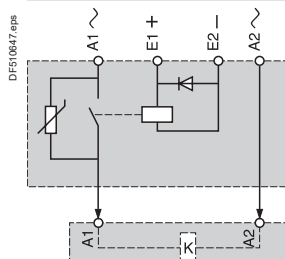
### Electronic serial timer modules for TeSys D, TeSys D Green

On-delay LA4 DT•U

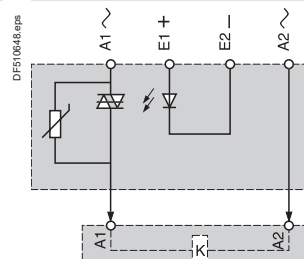


### Interface modules

Relay output for TeSys D  
LA4 DFB



Solid state for TeSys D, TeSys D Green  
LA4 DWB



References: page B8/85.

Selection:  
pages A6/25 to A6/49

Characteristics:  
pages B8/63 to B8/75

References:  
pages B8/2 to B8/27

Dimensions:  
pages B8/76 and B8/77