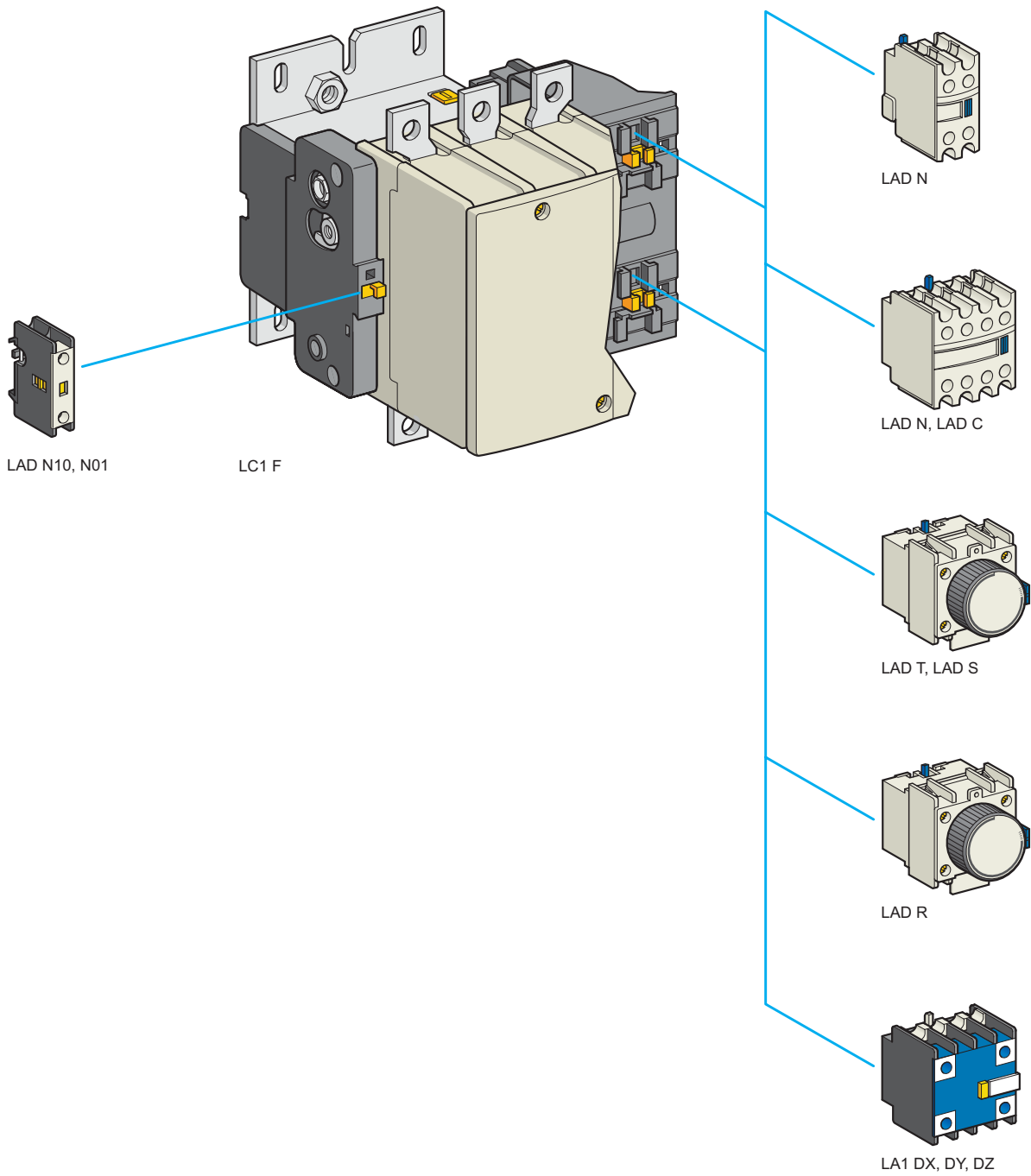


5



TeSys contactors

TeSys F contactors

Auxiliary contact blocks

Instantaneous auxiliary contact blocks

For use in normal operating environments

Number of contacts	Maximum number of blocks per contactor Clip-on mounting	Composition	Reference	Weight
1	1	– – 1 –	LAD N10	0.020
		– – – 1	LAD N01	0.020
2	2	– – 1 1	LAD N11	0.030
		– – 2 –	LAD N20	0.030
		– – – 2	LAD N02	0.030
4	2	– – 2 2	LAD N22	0.050
		– – 1 3	LAD N13	0.050
		– – 4 –	LAD N40	0.050
		– – – 4	LAD N04	0.050
		– – 3 1	LAD N31	0.050
		– – 2 2 (1)	LAD C22	0.050

With terminal referencing conforming to EN 50012

2	2	– – 1 1	LAD N11P	0.030
		– – 1 1	LAD N11G	0.030
4	2	– – 2 2	LAD N22P	0.050
		– – 2 2	LAD N22G	0.050

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 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	Weight
2	2	2 – – –	LA1 DX20	0.040
		2 2 (2) – –	LA1 DY20	0.040
4	2	2 – 2 –	LA1 DZ40	0.050
		2 – 1 1	LA1 DZ31	0.050

Time delay auxiliary contact blocks

Number of contacts	Maximum number of blocks per contactor Clip-on mounting	Time delay		Reference	Weight
		Type	Range		
s					
1 N/O + 1 N/C	2	On-delay	0.1...3 (3)	LAD T0	0.060
			0.1...30	LAD T2	0.060
		Off-delay	10...180	LAD T4	0.060
			1...30 (4)	LAD S2	0.060
1 N/O + 1 N/C	2	On-delay	0.1...3 (3)	LAD R0	0.060
			0.1...30	LAD R2	0.060
		Off-delay	10...180	LAD R4	0.060

Interface for PLC control

Type of I/O	Reference	Weight
kg		
Inputs: ~ 24 V - 100 mA Outputs: ~ 480 V - 25 A	LA4 FSRE ▲	–

(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.

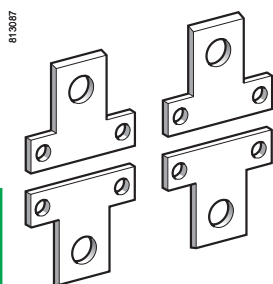
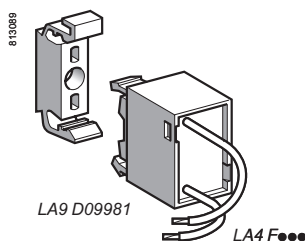
(4) With switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

▲Available 2nd half 2009.

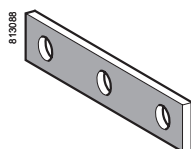
TeSys contactors

TeSys F contactors

Suppressor blocks



5



Suppressor blocks

RC circuits (resistor-capacitor)

- Effective protection for circuits highly sensitive to "high frequency" interference. For use only in cases where the voltage is virtually sinusoidal, i.e. less than 5% total harmonic distortion.
- Voltage limited to 3 U_c max. and oscillating frequency limited to 400 Hz max.
- Slight increase in drop-out time (1.1 to 1.3 times the normal time).

Mounting	U_c		Reference	Weight kg
Clip-on mounting on all ratings and all a.c. coils.	~	24...48 V	LA4 FRCE	0.040
		50...110 V	LA4 FRCF	0.040
		127...240 V	LA4 FRCP	0.040
		265...415 V	LA4 FRCV	0.040

Suppressor block bracket	LA9 D09981	0.010
--------------------------	------------	-------

Varistors (peak limiting)

- Protection provided by limiting the transient voltage to 2 U_c max.
- Maximum reduction of transient voltage peaks.

Mounting	U_c		Reference	Weight kg
Clip-on mounting on all ratings and all coils.	~ or ---	24...48 V	LA4 FVE	0.040
		50...110 V	LA4 FVF	0.040
		127...240 V	LA4 FVP	0.040
		265...415 V	LA4 FVV	0.040

Diodes

- No overvoltage or oscillating frequencies.
- Increase in drop-out time (3 to 4 times the normal time).
- Polarised component.

Mounting	U_c		Reference	Weight kg
Clip-on mounting on all ratings and all d.c. coils.	---	24...48 V	LA4 FDE	0.040
		55...110 V	LA4 FDF	0.040
		125...250 V	LA4 FDP	0.040
		280...440 V	LA4 FDV	0.040

Bidirectional peak limiting diodes (transil)

- Protection provided by limiting the transient voltage to between 2 and 2.5 times U_c max.
- Maximum reduction of transient voltage peaks.

Mounting	U_c		Reference	Weight kg
Clip-on mounting on all ratings and all coils.	~ or ---	24...48 V	LA4 FTE	0.040
		50...110 V	LA4 FTF	0.040
		127...240 V	LA4 FTP	0.040
		265...415 V	LA4 FTV	0.040

Connection accessories

For use on 4-pole contactors	Set of 4 links Set reference	Weight kg
Links for parallel connection of poles (in pairs)		
LC1 F1154	LA9 FF602	0.200
LC1 F1504, F1854	LA9 FG602	0.350
LC1 F2254, F2654, F3304, F4004	LA9 FH602	1.000
LC1 F5004	LA9 FK602	1.750
LC1 F6304	LA9 FL602	3.000

Links for "star" connection of 3 poles

LC1 F115	LA9 FF601	0.035
LC1 F150, F185	LA9 FG601	0.050
LC1 F225, F265, F330, F400	LA9 FH601	0.120
LC1 F500	LA9 FK601	0.180
LC1 F630, F800	LA9 FL601	0.550

Control circuit voltage take-off from power terminals

For use with contactors	Mounted on bolt size	Sold in lots of	Unit reference	Weight kg
LC1 F115	M6	10	DZ3 FA3	0.004
LC1 F150, F185	M8	10	DZ3 GA3	0.004
LC1 F225...F500	M10	10	DZ3 HA3	0.006
LC1 F630, F800	M12	10	DZ3 JA3	0.009