






See page opposite for mounting possibilities according to the contactor type

Instantaneous auxiliary contact blocks for connection by screw clamp terminals**For use in normal operating environments**

In order to mount an LAD 8N on an LC1 D80 to D95, a set of shims must be ordered separately, see page 24511/9

Clip-on mounting (1)	Number of contacts per block	Composition					Reference	Weight kg
								
Front	1	-	-	-	1	-	LAD N10	0.020
		-	-	-	-	1	LAD N01	0.020
	2	-	-	-	1	1	LAD N11	0.030
		-	-	-	2	-	LAD N20	0.030
	4	-	-	-	-	2	LAD N02	0.030
		-	-	-	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
	4 incl. 1 N/O & 1 N/C make before break	-	-	-	2	2	LAD C22	0.050
Side	2	-	-	-	1	1	LAD 8N11 (2)	0.030
		-	-	-	2	-	LAD 8N20 (2)	0.030
		-	-	-	-	2	LAD 8N02 (2)	0.030

For terminal referencing conforming to EN 50012

Front on 3P contactors and 4P contactors 20 to 80 A	2	-	-	-	1	1	LAD N11G	0.030
	4	-	-	-	2	2	LAD N22G	0.050
Front on 4P contactors 125 to 200 A	2	-	-	-	1	1	LAD N11P	0.030
	4	-	-	-	2	2	LAD N22P	0.050

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

Front	2	-	2	-	-	-	LA1 DX20	0.040
		1	1	-	-	-	LA1 DX11	0.040
		2	-	-	-	-	LA1 DX02	0.040
		-	2	2	-	-	LA1 DY20 (3)	0.040
		-	2	-	2	-	LA1 DZ40	0.050
	4	-	2	-	1	1	LA1 DZ31	0.060

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.

(1) Maximum number of auxiliary contacts that can be fitted

Type	Number of poles and size	Instantaneous auxiliary contacts	Side mounted	Front mounted			Time delay Front mounted
				1 contact	2 contacts	4 contacts	
~	3P	LC1 D09...D38	1 on LH side	and -	1	or 1	or 1
		LC1 D80...D95 (50/60 Hz)	1 on each side	or 2	and 1	or 1	or 1
		LC1 D40A...D65A	1 on LH or 1 on RH side	and -	1	or 1	or 1
	4P	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
		LC1 DT20...DT40	1 on LH side	and -	1	or 1	or 1
		LC1 DT60A...D80A	1 on LH side or 1 on RH side	and -	1	or 1	or 1
≡	3P	LC1 D115	1 on each side	and 1	or 1	or 1	or 1
		LC1 D09...D38	-	-	1	or 1	or 1
		LC1 D40A...D65A	1 on LH or 1 on RH side	and -	1	or 1	or 1
	4P	LC1 D80 and D95	-	-	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
		LC1 DT60A...D80A	-	-	1	or 1	or 1
LC (4)	3P	LC1 D115	1 on each side	-	and 1	or 1	or 1
	4P	LC1 D09...D38	-	-	1	-	-
		LC1 DT20...DT40	-	-	1	-	-

(2) Not compatible with LC1 D40A...LC1 D95 d.c. contactors.

(3) Device fitted with 4 earth screen continuity terminals.

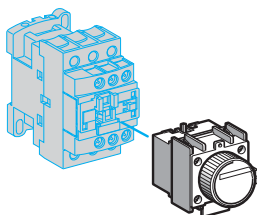
(4) LC: low consumption.

TeSys contactors

TeSys d contactors and reversing contactors

Time delay auxiliary contact blocks

Mechanical latch blocks



LAD T

Time delay auxiliary contact blocks for connection by screw clamp terminals

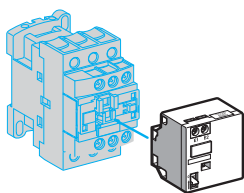
Maximum number of auxiliary contact blocks that can be fitted per contactor, see page 24511/3.

Sealing cover to be ordered separately, see page 24511/9.

LAD T0 and LAD R0: with extended scale from 0.1 to 0.6 s.

LAD S2: 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	Weight kg
		Type	Setting range		
Front	1 N/O + 1 N/C	On-delay	0.1...3 s	LAD T0	0.060
			0.1...30 s	LAD T2	0.060
			10...180 s	LAD T4	0.060
			1...30 s	LAD S2	0.060
		Off-delay	0.1...3 s	LAD R0	0.060
			0.1...30 s	LAD R2	0.060
			10...180 s	LAD R4	0.060



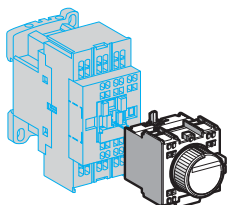
LA6 DK

Time delay auxiliary contact blocks for connection by lugs

Add the figure 6 to the end of the references selected above. Example: LAD T0 becomes LAD T06.

Time delay auxiliary contact blocks for connection by spring terminals

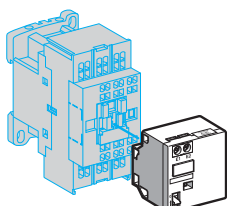
Add the figure 3 to the end of the references selected above. Example: LAD T0 becomes LAD T03



LAD T03

Time delay auxiliary contact blocks for connection by Faston connectors

Add the figure 9 to the end of the references selected above. Example: LAD T0 becomes LAD T09.



LA6 DK

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)	Weight kg
Front	Manual or electric	LC1 D09...D38 (~ or ---)	LAD 6K10●	0.070
		LC1 DT20...DT40 (~ or ---)		
		LC1 D40A...D65A (3 P ~ or ---) LC1 DT60A and DT80A (4 P ~ or ---)	LAD 6K10●	0.070
Front	Manual or electric	LC1 D80...D150 (3 P ~)	LA6 DK20●	0.090
		LC1 D80 and D115 (3 P ---)		
		LC1 D80 (4 P ~)		
		LC1 D80 and D115 (4 P ~)		
		LP1 D80 and LC1 D115(4 P ---)		

(1) 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,

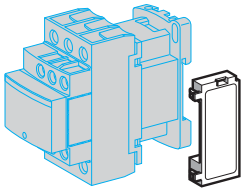
(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office).

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

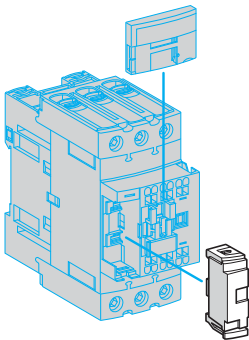
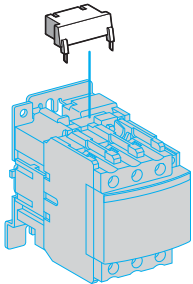
TeSys contactors

TeSys d contactors and reversing contactors

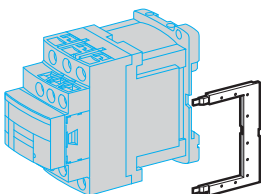
Suppressor modules



LAD 4●●

LAD 4RC3●, LAD 4V3●,
LAD 4D3U, LAD 4T3●

LA4 D●●



LAD 4DDL or LAD 4T●DL

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 Uc max. and oscillating frequency limited to 400 Hz max. Slight increase in drop-out time (1.2 to 2 times the normal time).

Mounting	For use with contactor (1) Rating	Type		Reference	Weight kg
		V ~	V ---		
Clip-on side mounting (3)	D09...D38 (3P) DT20...DT40	24...48	–	LAD 4RCE	0.012
		50...127	–	LAD 4RCG	0.012
		110...240	–	LAD 4RCU	0.012
Clip-on front mounting (3)	D40A...D65A (3P) DT60A...DT80A (4P)	24...48	–	LAD 4RC3E	0.020
		50...127	–	LAD 4RC3G	0.020
		110...240	–	LAD 4RC3U	0.020
		380...415	–	LAD 4RC3N	0.040
Screw fixing (4)	D80...D150 (3P) D40...D115 (4P)	24...48	–	LA4 DA2E	0.018
		50...127	–	LA4 DA2G	0.018
		110...240	–	LA4 DA2U	0.018
		380...415	–	LA4 DA2N	0.018

Varistors (peak limiting)

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

Clip-on side mounting (3)	D09...D38 (3P) DT20...DT40	24...48	–	LAD 4VE	0.012
		50...127	–	LAD 4VG	0.012
		110...250	–	LAD 4VU	0.012
Clip-on front mounting (3)	D40A...D65A (3P) DT60A...DT80A (4P)	24...48	–	LAD 4V3E	0.020
		50...127	–	LAD 4V3G	0.020
		110...250	–	LAD 4V3U	0.020
Screw fixing (4)	D80...D115 (3P) D80...D115 (4P)	24...48	–	LA4 DE2E	0.018
		50...127	–	LA4 DE2G	0.018
		110...250	–	LA4 DE2U	0.018
	–	24...48	–	LA4 DE3E	0.018
	–	50...127	–	LA4 DE3G	0.018
	–	110...250	–	LA4 DE3U	0.018

Flywheel diodes

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

Clip-on side mounting (5)	D09...D38 (3P). DT20...DT40	–	24...250	LAD 4DDL	0.012
Clip-on front mounting (5)	D40A...D65A (3P). DT60A...DT80A (4P)	–	24...250	LAD 4D3U	0.020
Screw fixing (4)	D80 and D95 (3P). D40...D80 (4P)	–	24...250	LA4 DC3U	0.018

Bidirectional peak limiting diodes

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

Clip-on side mounting (3) (5)	D09...D38 (3P) DT20...DT40 (4P) (2)	24	–	LAD 4TB	0.012
		–	24	LAD 4TBDL	0.012
		72	–	LAD 4TS	0.012
		–	72	LAD 4TSDL	0.012
		–	125	LAD 4TGD	0.012
		–	250	LAD 4TUDL	0.012
Clip-on front mounting (3)	D40A...D65A (3P) DT60A...DT80A (4P) (2)	–	600	LAD 4TXDL	0.012
		24	24	LAD 4T3B	0.020
		72	72	LAD 4T3S	0.020
		125	125	LAD 4T3G	0.020
		250	250	LAD 4T3U	0.020
		440	440	LAD 4T3R	0.020
Screw fixing (4)	D80...D95 (3P) D40...D80 (4P)	24	–	LA4 DB2B	0.018
		72	–	LA4 DB2S	0.018
		–	24	LA4 DB3B	0.018
		–	72	LA4 DB3S	0.018

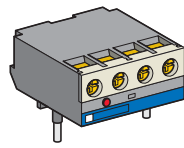
(1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor.

(2) From D09 to D65A and from LC1 DT20 to DT80A, d.c. and low consumption 3-pole contactors are fitted with a built-in bidirectional peak limiting diode suppressor as standard. This bidirectional peak limiting diode is removable and can therefore be replaced by the user. (See reference above). If a d.c. or low consumption contactor is used without suppression, the standard suppressor should be replaced with a blanking plug (reference LAD 9DL for LC1 D09 to D38 and LC1 DT20 to DT40; reference LAD 9DL3 for LC1 D40A to D65A and LC1 DT60A to DT80A).

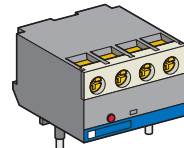
(3) Clipping-on makes the electrical connection. The overall size of the contactor remains unchanged.

(4) Mounting at the top of the contactor on coil terminals A1 and A2.

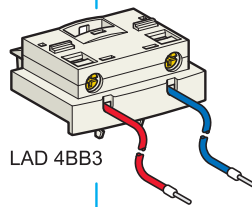
(5) In order to install these accessories, the existing suppression device must first be removed.



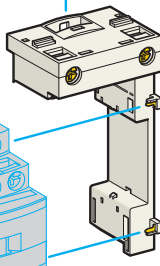
LA4 DFB



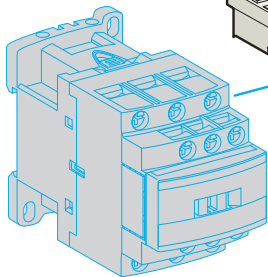
LA4 DWB



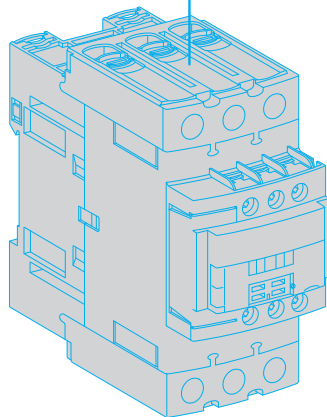
LAD 4BB3



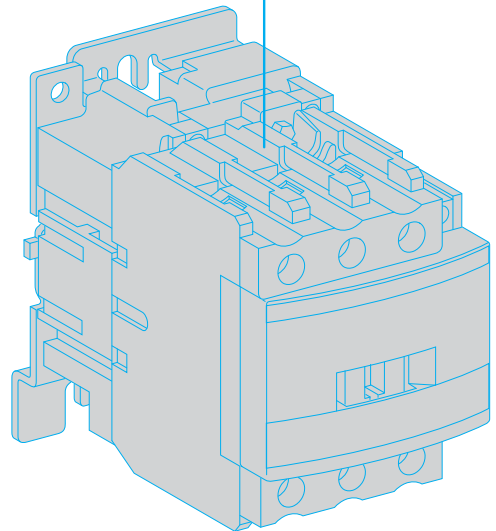
LAD 4BB



LC1 D09...D38



LC1 D40A...D65A



LC1 D80...D95

See page opposite for mounting possibilities according to the contactor type

Electronic serial timer modules (1)

- 3-pole contactors LC1 D09 to D38 and 4-pole contactors LC1 DT20 to DT40: mounted using adapter LAD 4BB, to be ordered separately, see below.
- 3-pole contactors LC1 D40A to D65A and 4-pole contactors LC1 DT60A to DT80A: mounted using adapter LAD 4BB3, to be ordered separately, see below.
- 3-pole contactors LC1 D80 to D150 and 4-pole contactors LC1 D40 to D115: mounted directly across terminals A1 and A2 of the contactor.

On-delay type

Operational voltage ~		Time delay	Reference	Weight kg
24...250 V	100...250 V			
LC1 D09...D65A (3P). LC1 DT20...DT80A (4P)	LC1 D80...D150 (3P)	0.1...2 s	LA4 DT0U	0.040
		1.5...30 s	LA4 DT2U	0.040
		25...500 s	LA4 DT4U	0.040

Interface modules

- 3-pole contactors LC1 D09 to D38 and 4-pole contactors LC1 DT20 to DT40: mounted using adapter LAD 4BB, to be ordered separately, see page below
- 3-pole contactors LC1 D40A to D65A: mounted using adapter LAD4 BB3, to be ordered separately, see page below.

Relay interface

Operational voltage ~		Supply voltage E1-E2 (---)	Reference	Weight kg
24...250 V	380...415 V			
LC1 D09...D150 (3P). LC1 DT20...DT80A (4P)	–	24 V	LA4 DFB	0.050

Relay interface with "AUTO-I" manual override switch (output forced "ON"), solid state type

Operational voltage ~		Supply voltage E1-E2 (---)	Reference	Weight kg
24...250 V	100...250 V			
LC1 D09...D65A (3P). LC1 DT20...DT80A (4P)	LC1 D80...D115 (3P)	24 V	LA4 DWB	0.045

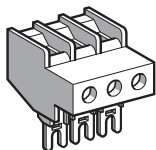
Low consumption kit

For use on contactors	Composition	Reference	Weight kg
LC1 D40A...D65A (3P)	Kit comprising: <ul style="list-style-type: none"> ■ a retrofit coil LAD 4BB3. ■ a relay interface module LA4 DFB. 	LA4 DBL	0.077

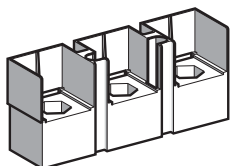
Retrofit: coil for 3-pole contactor**For adapting existing wiring to a new product**

For use on contactors		Reference	Weight kg	
LC1 D09...D38 LC1 DT20...DT25	Without coil suppression	LAD 4BB	0.019	
	With coil suppression	~ 24...48 V	LAD 4BBVE	0.014
		~ 50...127 V	LAD 4BBVG	0.014
		~ 110...250 V	LAD 4BBVU	0.014
LC1 D40A...65A	Without coil suppression	LAD 4BB3	0.027	

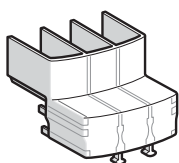
(1) For 24 V operation, the contactor must be fitted with a 21 V coil (code Z). See pages 24507/2 to 24507/7.



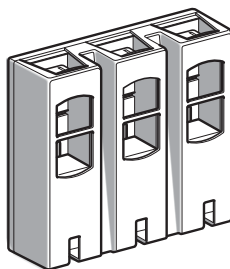
LA9 D3260



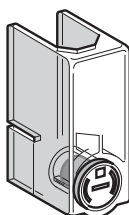
LA9 D11550



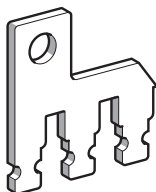
LAD 96570



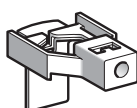
LA9 D11560



LA9 D11570



LA9 D80962



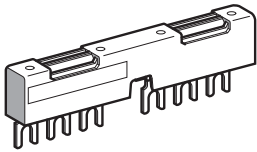
LA9 D11567

Accessories for main pole and control connections

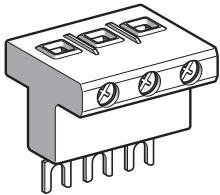
Description	For use with contactors LC1		Sold in lots of	Unit reference	Weight kg	
	~	---				
Connectors for cable, size (1 connector)	4-pole 10 mm ²	DT20, DT25	DT20, DT25	1	LAD 92560	0.030
	3-pole 25 mm ²	D09...D38	D09...D38	1	LA9 D3260	0.040
EverLink® terminal block	3-pole	D40A...D65A	D40A...D65A	1	LAD 96560	0.087
Connectors for cables (2 connectors)	3-pole 120 mm ²	D115, D150	D115, D150	1	LA9 D115603	0.560
	4-pole 120 mm ²	D115	D115	1	LA9 D115604	0.740
Connectors for lug type terminals (2 connectors)	3-pole	D115, D150	D115, D150	1	LA9 D115503	0.300
	4-pole	D115	D115	1	LA9 D115504	0.360
Protective covers for connectors for lug type terminals	3-pole	D40A...D65A	D40A...D65A	1	LAD 96570	0.021
		D115, D150	D115, D150	1	LA9 D115703 (1)	0.250
	4-pole	D60A...D80A	D60A...D80A	1	LAD 96580	0.027
		D115, D150	D115, D150	1	LA9 D115704	0.300
IP 20 covers for lug type terminals (for use when mounted with circuit-breakers GV3 P●●6 and GV3 P●●6)	–	D40A...D65A	D40A...D65A	1	LAD 96575	0.010
Links for parallel connection of	2 poles	D09...D38	D09...D38	10	LA9 D2561	0.060
		DT20, DT25 (4P)	DT20, DT25 (4P)	10	LA9 D1261	0.012
		DT32, DT40 (4P)	DT32, DT40 (4P)	10	LAD 96061	0.060
		D40A...D65A	D40A...D65A	1	LAD 9P32	0.021
		D80, D95	D80	2	LA9 D80961	0.060
		3 poles (star connection)	D09...D38	D09...D38	10	LAD 9P3 (2)
4 poles	D40A...D65A	D40A...D65A	1	LAD 9P33	0.021	
	D80, D95	D80, D95	1	LA9 D80962	0.080	
	DT20, DT25	DT20, DT25	2	LA9 D1263	0.024	
Staggered coil connection	–	D80	D80	2	LA9 D80963	0.100
		D80	D80	10	LA9 D09966	0.006
Control circuit take-off from main pole	–	D80, D95	D80, D95	10	LA9 D8067	0.010
		D115, D150	D115, D150	10	LA9 D11567	0.014
Spreaders for increasing the pole pitch to 45 mm	–	D115, D150	D115, D150	3	GV7 AC03	0.180

(1) For 3-pole contactors: 1 set of 6 covers, for 4-pole contactors: 1 set of 8 covers.

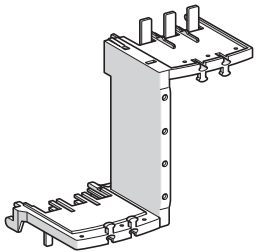
(2) Separate connecting bar for connecting 2 poles in parallel.



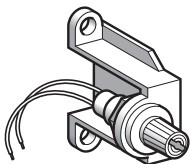
GV2 G245



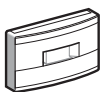
GV1 G09



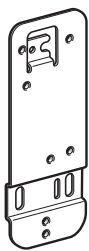
GV3 S



LA9 D941



LAD 9ET●



LAD 7X3

Sets of contacts and arc chambers

Description	For contactor		Reference	Weight kg
Sets of contacts	3-pole	LC1 D115	LA5 D1158031	0.260
		LC1 D150	LA5 D150803	0.260
	4-pole	LC1 D115004	LA5 D115804	0.330
Arc chambers	3-pole	LC1 D115	LA5 D11550	0.395
		LC1 D150	LA5 D15050	0.395
	4-pole	LC1 D115004	LA5 D115450	0.470

Power connection accessories

Terminal block	For supply to one or more GV2 G busbar sets		GV1 G09	0.040
Set of 63 A busbars for parallelling of contactors	2 contactors LC1 D09...D18 or D25...D38		GV2 G245	0.036
	4 contactors LC1 D09...D18 or D25...D38		GV2 G445	0.077
Set of 115 A busbars for parallelling of contactors	2 contactors LC1 D40A...D65A		GV3 G264	0.150
	3 contactors LC1 D40A...D65A		GV3 G364 (1)	0.250
Set of S-shape busbars	For circuit-breakers GV3 P●● and GV3 L●● and contactors LC1 D40A...D65A		GV3 S	0.104

Protection accessories

Description	Use	Sold in lots of	Reference	Weight kg
Miniature control circuit fuse holder	5 x 20 with 4 A-250 V fuse	1	LA9 D941	0.025
Sealing cover	For LAD T, LAD R	1	LA9 D901	0.005
Safety cover preventing access to the moving contact carrier	LC1 D09...D65A and DT20...DT80A	1	LAD 9ET1	0.026
	LC1 D80 and D95	1	LAD 9ET3	0.004
	LC1 D115 and D150	1	LAD 9ET4	0.004

Marking accessories

Description	Use	Sold in lots of	Unit reference	Weight kg
Sheet of 64 blank legends, self-adhesive, 8 x 33 mm (2)	Contactors (except 4P) LC1 D80...D115, LAD N (4 contacts), LA6 DK	10	LAD 21	0.020
Sheet of 112 blank legends, self-adhesive, 8 x 12 mm (2)	LAD N (2 contacts), LAD T, LAD R, LRD	10	LAD 22	0.020
Sheet of 64 blank legends for marking using plotter or 8 x 33 mm engraver	Contactors (except 4P) LC1 D80...D115, LAD (4 contacts), LA6 DK	10	LAD 23	0.050
Sheet of 440 blank legends for marking using plotter or 8 x 12 mm engraver	All products	35	LAD 24	0.200
Marker holder snap-in, 8 x 22 mm	4-pole contactors, LC1 D80...D115, LA6 DK	100	LA9 D92	0.001
Marker holder snap-in, 8 x 18 mm	LC1 D09...D65A, LC1 DT20...DT80A, LAD N (4 contacts), LAD T, LAD R	100	LAD 90	0.001
Bag of 300 blank legends self-adhesive, 7 x 21 mm	On holder LA9 D92	1	LA9 D93	0.001
"SIS Label" labelling software supplied on CD-Rom	Multi-language version: English, French, German, Italian, Spanish	1	XBY 2U	0.100

Mounting accessories

Retrofit plate for screw fixing	For replacement of LC1 D40 to D65 with LC1 D40A to D65A	1	LAD 7X3	0.150
Mounting plate	For replacement of LC1 F115 or F150 with LC1 D115 or D150	1	LA9 D730	0.360
Set of shims	For fitting side mounting blocks LAD 8N on LC1 D80 and D95	1	LA9 D511	0.020
Size 4 Allen key, insulated, 1000 V	For use on contactors LC1 D40A to LC1 D150	5	LAD ALLEN4	0.026

(1) With this set of busbars, any one contactor can be supplied directly by its EverLink® double cage power terminal block. The other two contactors are supplied by the busbar set. The 115 A limitation is therefore applied to these two contactors. Example: 1 LC1 D65A supplied directly + 1 contactor LC1 D65A and 1 contactor LC1 D50 A supplied via the busbar set = 115 A. This combination is compatible with busbar set GV3 G364.

(2) These legends are for sticking onto the safety cover of the contactors or add-on block, if fitted.