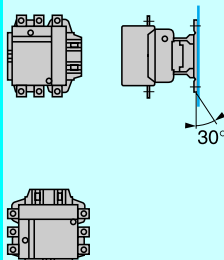
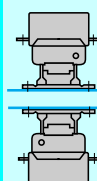



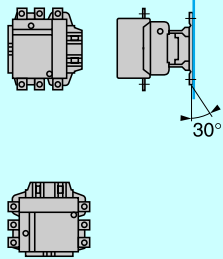



Contactors

Type LC1-F (115 to 800 A)
Control circuit : a.c. or d.c. supply

Type			LC1-F115	LC1-F150	LC1-F185
Environment					
Rated insulation voltage (Ui)	Conforming to IEC 947-4-1	V	1000	1000	1000
	Conforming to VDE 0110 gr C	V	1500	1500	1500
Rated impulse withstand voltage (Uimp)	Coil not connected to the power circuit	kV	8	8	8
Conforming to standards			EN 60947-1, EN 60947-4-1, IEC 947-1, IEC 947-4-1 JEM 1038		
Product certifications			CSA, UL, BV, GL, DNV, RINA, RMR0S, LROS		
Degree of protection	Conforming to IEC 529		IP 20 front face with shrouds LA9-F		
	Conforming to VDE 0106		Front face protected against direct finger contact with shrouds LA9-F		
Protective treatment	Standard version		"TH"		
Ambient air temperature around the device	Storage	°C	- 60...+ 80		
	Operation	°C	- 5...+ 55		
	Permissible at Uc (1)	°C	- 40...+ 70		
Maximum operating altitude	Without derating	m	3000		
Operating positions	Without derating				
					
	With derating		<p>Apply the following derating coefficients : 0.75 on the pull-in voltage, 0.9 on the drop-out voltage and 0.8 on the operational current in AC-1.</p> <p>Apply the following derating coefficients : 1.15 on the pull-in voltage, 1.1 on the drop-out voltage and 0.8 on the operational current in AC-1.</p> <p>In either case, neither the making and breaking capacities nor the electrical and mechanical durabilities can be assured.</p>		
Forbidden					
Shock resistance (2) 1/2 sine wave = 11 ms	Contacteur open		9 gn	9 gn	7 gn
	Contacteur closed		15 gn	15 gn	15 gn
Vibration resistance (2) 5...300 Hz	Contacteur open		2 gn	2 gn	2 gn
	Contacteur closed		6 gn	6 gn	5 gn

(1) In these conditions, it is recommended that LX9-F coils be used for contactor sizes F115 to F225.

(2) In the least favourable direction, without change of contact state (coil at Uc). For conditions requiring a much higher value resistance to mechanical shock, the use of our shock-proof contactors is recommended. Please consult your Regional Sales Office.

LC1-F225	LC1-F265	LC1-F330	LC1-F400	LC1-F500	LC1-F630	LC1-F780	LC1-F800
1000	1000	1000	1000	1000	1000	1000	1000
1500	1500	1500	1500	1500	1500	1500	1500
8	8	8	8	8	8	8	8
EN 60947-1, EN 60947-4-1, IEC 947-1, IEC 947-4-1, JEM 1038							
CSA, UL, BV, GL, DNV, RINA, RMR0S						UL, CSA	
IP 20 front face with shrouds LA9-F							
Front face protected against direct finger contact with shrouds LA9-F							
"TH"							
- 60...+ 80						- 60...+ 80	
- 5...+ 55						- 5...+ 55	
- 40...+ 70						- 5...+ 55	
3000							
							
 <p>Apply the following derating coefficients : 0.75 on the pull-in voltage, 0.9 on the drop-out voltage and 0.8 on the operational current in AC-1.</p>							
 <p>Apply the following derating coefficients : 1.15 on the pull-in voltage, 1.1 on the drop-out voltage and 0.8 on the operational current in AC-1.</p>							
In either case, neither the making and breaking capacities nor the electrical and mechanical durabilities can be assured.							
							
7 gn	6 gn	6 gn	6 gn	9 gn	6 gn	5 gn	6 gn
15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn	15 gn
2 gn	2 gn	2 gn	1.5 gn	2 gn	2 gn	2.5 gn	2 gn
5 gn	5 gn	5 gn	5 gn	4 gn	4 gn	5.5 gn	4 gn

(1) In these conditions, it is recommended that LX9-F coils be used for contactor sizes F115 to F225.

(2) In the least favourable direction, without change of contact state (coil at U_c). For conditions requiring a much higher value resistance to mechanical shock, the use of our shock-proof contactors is recommended. Please consult your Regional Sales Office.

Contactors

Type LC1-F (115 to 800 A)
Control circuit : a.c. or d.c. supply

Type			LC1-F115	LC1-F150	LC1-F185	
Pole characteristics						
Number of poles			3 or 4	3 or 4	3 or 4	
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3, θ ≤ 55 °C	A	115	150	185	
	In AC-1, θ ≤ 40 °C	A	200	250	275	
Rated operational voltage (Ue)	Up to	V	1000	1000	1000	
Frequency limits	Of the operational current (1)	Hz	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	
Conventional rated thermal current	θ ≤ 40 °C	A	200	250	275	
Rated making capacity	I rms to IEC 947-4-1	A	Making current : 10 x I in AC-3 or 12 x I in AC-4			
Rated breaking capacity	I rms to IEC 947-4-1	A	Making and breaking current : 8 x I in AC-3 or 10 x I in AC-4			
Permissible short time rating From cold state, no current flowing for preceding 60 minutes θ ≤ 40 °C	For 10 s	A	1100	1200	1500	
	For 30 s	A	640	700	920	
	For 1 min	A	520	600	740	
	For 3 min	A	400	450	500	
	For 10 min	A	320	350	400	
Short-circuit protection by fuses U ≤ 440 V	Motor circuit (type aM)	A	125	160	200	
	With thermal overload relay (type gG)	A	200	200	315	
	gG fuses	A	200	250	315	
Average impedance per pole	At Ith and 50 Hz	mΩ	0.37	0.35	0.33	
Power dissipation per pole for the above operational currents	AC-3	W	5	8	12	
	AC-1	W	15	22	25	
Connections/cabling	Bar	Number of bars	Maximum c.s.a.			
		Bar size	mm	2 20 x 3	2 25 x 3	2 25 x 3
	Cable with lug		mm²	95	120	150
	Cable with connector		mm²	95	120	150
	Bolt diameter		mm	Ø 6	Ø 8	Ø 8
Tightening torque	Power circuit connections	N.m	10	18	18	

(1) Sine wave without interference. Above these values, please consult your Regional Sales Office.

LC1-F225	LC1-F265	LC1-F330	LC1-F400	LC1-F500	LC1-F630		LC1-F780	LC1-F800
3 or 4	3 or 4	3 or 4	2, 3 or 4	2, 3 or 4	2, 3 or 4		3 or 4	3
225	265	330	400	500	630		780	800
315	350	400	500	700	1000	1250	1600	1000
1000	1000	1000	1000	1000	1000		1000	1000
16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200		16 ^{2/3} ...200	16 ^{2/3} ...200
315	350	400	500	700	1000	1250	1600	1000
Making current : 10 x I in AC-3 or 12 x I in AC-4								
Making and breaking current : 8 x I in AC-3 or 10 x I in AC-4								
1800	2200	2650	3600	4200	5050		6250	5500
1000	1230	1800	2400	3200	4400		5600	4600
850	950	1300	1700	2400	3400		4600	3600
560	620	900	1200	1500	2200		3000	2600
440	480	750	1000	1200	1600		2200	1700
250	315	400	400	500	630		800	800
315	500	500	630	800	800		1000	1000
315	400	500	500	800	1000		2 x 800 (2)	1000
0.32	0.3	0.28	0.26	0.18	0.12		0.10	0.12
16	21	31	42	45	48		60	77
	37	44	65	88	120		250	120
2 32 x 4	2 32 x 4	2 30 x 5	2 30 x 5	2 40 x 5	2 60 x 5	3 60 x 5	2 100 x 5	2 60 x 5
185	240	240	2 x 150	2 x 240	-		-	-
185	240	-	-	-	-		-	-
Ø 10	Ø 10	Ø 10	Ø 10	Ø 10	Ø 12		2 x Ø 12	Ø 12
35	35	35	35	35	58		58	58

(2) Paralleling of poles must be carried out only in accordance with the fuse manufacturer's recommendations

Contactors

Type LC1-F (115 to 800 A)

Control circuit : a.c. supply

Type			LC1-F115	LC1-F150	LC1-F185		
Control circuit characteristics with LX1 coil							
Rated control circuit voltage (Uc)	50 or 60 Hz	V	24...1000				
Control voltage limits ($\theta \leq 55\text{ }^\circ\text{C}$)	50 or 60 Hz coils	Operational	0.85...1.1 Uc				
		Drop-out	0.35...0.55 Uc				
	40...400 Hz coils	Operational	-				
		Drop-out	-				
Average consumption at 20 °C and at Uc	~ 50 Hz	Inrush	50 Hz coil	VA	550	550	805
			40...400 Hz coil	VA	-	-	-
			Cos φ		0.3	0.3	0.3
		Sealed	50 Hz coil	VA	45	45	55
			40...400 Hz coil	VA	-	-	-
			Cos φ		0.3	0.3	0.3
	~ 60 Hz	Inrush	60 Hz coil	VA	660	660	970
			40...400 Hz coil	VA	-	-	-
			Cos φ		0.3	0.3	0.3
		Sealed	60 Hz coil	VA	55	55	66
			40...400 Hz coil	VA	-	-	-
			Cos φ		0.3	0.3	0.3
Heat dissipation		W	12...16	12...16	18...24		
Operating time (1)	Closing "C"	ms	23...35	23...35	20...35		
	Opening "O"	ms	5...15	5...15	7...15		
Mechanical durability at Uc	In millions of operating cycles		10	10	10		
Maximum operating rate at ambient temperature $\leq 55\text{ }^\circ\text{C}$	In operating cycles per hour		2400	2400	2400		
Cabling	Flexible cable without cable end	1 or 2 conductors	mm ²	Min./max. c.s.a. 1/4	1/4	1/4	
		1 conductor	mm ²	1/4	1/4	1/4	
	Flexible cable with cable end	2 conductors	mm ²	1/2.5	1/2.5	1/2.5	
		1 or 2 conductors	mm ²	1/4	1/4	1/4	
Tightening torque		N.m	1.2	1.2	1.2		
Mechanical latching	Due to their rating, LC1-F contactors cannot be fitted with LA6-DK add-on mechanical latch blocks. For similar type of operation, use magnetic latching contactors CR1-F. See pages 26001/2 to 26008/9.						

(1) The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

LC1-F225	LC1-F265	LC1-F330	LC1-F400	LC1-F500	LC1-F630	LC1-F780	LC1-F800
24...1000			48...1000		48...1000	110 ...500	110 ...400
0.85...1.1 Uc	–						
0.35...0.55 Uc	–						
–	0.85...1.1 Uc		0.85...1.1 Uc		0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc
–	0.35...0.55 Uc		0.3...0.5 Uc		0.25...0.5 Uc	0.2...0.4 Uc	0.3...0.5 Uc
805	–	–	–	–	–	–	–
–	650	650	1075	1100	1650	2100	1700
0.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
55	–	–	–	–	–	–	–
–	10	10	15	18	22	50	12
0.3	0.9	0.9	0.9	0.9	0.9	0.9	–
970	–	–	–	–	–	–	–
–	650	650	1075	1100	1650	2100	1700
0.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66	–	–	–	–	–	–	–
–	10	10	15	18	22	50	12
0.3	0.9	0.9	0.9	0.9	0.9	0.9	–
18... 24	8	8	14	18	20	2 x 22	25
20...35	40...65	40...65	40...75	40...75	40...80	40...80	60...80
7...15	100...170	100...170	100...170	100...170	100...200	130...230	150...180
10	10	10	10	10	5	5	5
2400	2400	2400	2400	2400	1200	600	600
Min./max. c.s.a.							
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2.5	1/2.5	1/2.5	1/2.5	1/2.5	1/2.5	1/2.5	1/2.5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Due to their rating, LC1-F contactors cannot be fitted with LA6-DK add-on mechanical latch blocks.
For similar type of operation, use magnetic latching contactors CR1-F.
See pages 26001/2 to 26008/9.

Contactors

Type LC1-F (115 to 800 A)

Control circuit : d.c. supply

Type			LC1-F115	LC1-F150	LC1-F185	
Control circuit characteristics with LX4 coil						
Rated control circuit voltage (Uc)	---	V	24...460	24...460	24...460	
Control voltage limits ($\theta \leq 55\text{ }^\circ\text{C}$)	Operational		0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc	
	Drop-out		0.15...0.2 Uc	0.15...0.2 Uc	0.15...0.2 Uc	
Average consumption at 20 °C and at Uc	---	Inrush	W	560	560	800
		Sealed	W	4.5	4.5	5
Average operating time at Uc (1)	Closing "C"		ms	30...40	30...40	30...40
	Opening "O"		ms	30...50	30...50	30...50
Note : The arcing time depends on the circuit switched by the poles. For normal 3-phase applications, the arcing time is usually less than 10 ms. The load is isolated from the supply after a time equal to the sum of the opening time and the arcing time.						
Mechanical durability at Uc	In millions of operating cycles			10	10	10
Maximum operating rate at ambient temperature $\leq 55\text{ }^\circ\text{C}$	In operating cycles per hour			2400	2400	2400
Cabling	Flexible cable without cable end	1 conductors	mm²	Min./max. c.s.a. 1/4	1/4	1/4
		2 conductors	mm²	1/4	1/4	1/4
	Flexible cable with cable end	1 conductor	mm²	1/4	1/4	1/4
		2 conductors	mm²	1/2.5	1/2.5	1/2.5
	Solid cable without cable end	1 conductor	mm²	1/4	1/4	1/4
		2 conductors	mm²	1/4	1/4	1/4
Tightening torque			N.m	1.2	1.2	1.2
Mechanical latching	Due to their rating, LC1-F contactors cannot be fitted with LA6-DK add-on mechanical latch blocks. For similar type of operation, use magnetic latching contactors CR1-F. See pages 26001/2 to 26008/9.					

(1) The operating times depend on the type of contactor electromagnet and its control mode. The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

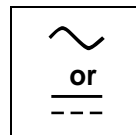
LC1-F225	LC1-F265	LC1-F330	LC1-F400	LC1-F500	LC1-F630	LC1-F780	LC1-F800
24...460	24...460	24...460	48...440	48...440	48...440	110...440	110...400
0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc	0.85...1.1 Uc
0.15...0.2 Uc	0.15...0.2 Uc	0.15...0.2 Uc	0.2...0.35 Uc	0.2...0.35 Uc	0.2...0.35 Uc	0.2...0.4 Uc	0.3...0.5 Uc
800	750	750	1000	1100	1600	2 x 1000	1900
5	5	5	6	6	9	2 x 21	12
30...40	40...50	40...50	50...60	50...60	60...70	70...80	60...80
30...50	40...65	40...65	45...60	45...60	40...50	100...130	40...50
Note : The arcing time depends on the circuit switched by the poles. For normal 3-phase applications, the arcing time is usually less than 10 ms. The load is isolated from the supply after a time equal to the sum of the opening time and the arcing time.							
10	10	10	10	10	5	5	5
2400	2400	2400	2400	2400	1200	600	600
Min./max. c.s.a. 1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2.5	1/2.5	1/2.5	1/2.5	1/2.5	1/2.5	1/2.5	1/2.5
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

Due to their rating, LC1-F contactors cannot be fitted with LA6-DK add-on mechanical latch blocks.
For similar type of operation, use magnetic latching contactors CR1-F.
See pages 26001/2 to 26008/9.

(1) The operating times depend on the type of contactor electromagnet and its control mode.
The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles.
The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

Contactors

For motor control in category AC-3 (115 to 800 A)
Control circuit : a.c. or d.c.



LC1-F225



LC1-F630

3-pole contactors

Standard power ratings
of 3-phase motors
50/60 Hz in category AC-3

Rated operational
current in AC-3

Basic reference.
Complete with code indicating
control circuit voltage (2)
Screw fixing,
cabling
(1) Standard
voltages

Weight

220 V 380 V 660 V
230 V 400 V 415 V 440 V 500 V 690 V 1000 V
kW kW kW kW kW kW kW

440 V
up to
A

kW	kW	kW	kW	kW	kW	kW	kW	A						kg
30	55	59	59	75	80	65		115	LC1-F115●●	E7	F7	P7	V7	3.430
40	75	80	80	90	100	65		150	LC1-F150●●	E7	F7	P7	V7	3.430
55	90	100	100	110	110	100		185	LC1-F185●●	E7	F7	P7	V7	4.650
63	110	110	110	129	129	100		225	LC1-F225●●	E7	F7	P7	V7	4.750
75	132	140	140	160	160	147		265	LC1-F265●●	E7	F7	P7	V7	7.440
100	160	180	200	200	220	160		330	LC1-F330●●	E7	F7	P7	V7	8.600
110	200	220	250	257	280	185		400	LC1-F400●●	E7	F7	P7	V7	9.100
147	250	280	295	355	335	335		500	LC1-F500●●	E7	F7	P7	V7	11.350
200	335	375	400	400	450	450		630	LC1-F630●●	E7	F7	P7	V7	18.600
220	400	425	425	450	475	450		780	LC1-F780●●	F7	P7	V7		39.500
250	450	450	450	450	475	450		800	LC1-F800●●	FE7	P7	V7		18.750

Note : auxiliary contact blocks, modules and accessories : see pages 25010/2 to 25010/7.

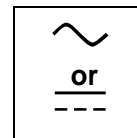
(1) Power terminal protection shrouds available separately for contactors LC1-F115 to LC1-F630 (see page 25010/6).
(2) Standard control circuit voltages (For other voltages, please consult your Regional Sales Office).

Volts ~	24	48	110	115	120	208	220	230	240	380	400	415	440
LC1-F115...F225													
50 Hz (coil LX1)	B5	E5	F5	FE5	-	-	M5	P5	U5	Q5	V5	N5	-
60 Hz (coil LX1)	-	E6	F6	-	G6	L6	M6	-	U6	Q6	-	-	R6
40...400 Hz (coil LX9)	-	E7	F7	FE7	G7	L7	M7	P7	U7	Q7	V7	N7	R7
LC1-F265...F330													
40...400 Hz (coil LX1)	B7	E7	F7	FE7	G7	L7	M7	P7	U7	Q7	V7	N7	R7
LC1-F400...F630													
40...400 Hz (coil LX1)	-	E7	F7	FE7	G7 (3)	L7	M7	P7	U7	Q7	V7	N7	R7
LC1-F780													
40...400 Hz (coil LX1)	-	-	F7	FE7	F7	L7	M7	P7	U7	Q7	V7	N7	R7
LC1-F800													
40...400 Hz (coil LX1)	-	-	FE7	FE7	FE7	-	P7	P7	P7	V7	V7	V7	V7
Volts =	24	48	110	125	220	230	250	400	440				
LC1-F115...F330 (coil LX4-F)	BD	ED	FD	GD	MD	MD	UD	-	RD				
LC1-F400...F630 (coil LX4-F)	-	ED	FD	GD	MD	-	UD	-	RD				
LC1-F780 (coil LX4-F)	-	-	FD	GD	MD	-	UD	-	RD				
LC1-F800 (coil LX4-F)	-	-	FW	FW	MW	MW	-	QW	-				

(3) F7 for LC1-F630.

Contactors

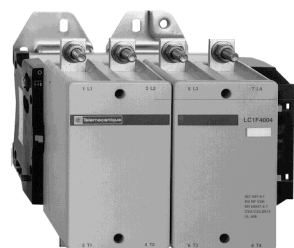
For control in category AC-1 (200 to 1600 A)
Control circuit : a.c. or d.c.



2, 3 and 4-pole contactors




LC1-F1854



LC1-F4004



LC1-F6304

Maximum current in AC-1 ($\theta \leq 40\text{ }^{\circ}\text{C}$)	Number of poles 	Basic reference. Complete with code indicating control circuit voltage (2) Screw fixing, cabling (1)	Standard voltages	Weight kg
200	3	LC1-F115●●	E7 F7 P7 V7	3.430
	4	LC1-F1154●●	E7 F7 P7 V7	3.830
250	3	LC1-F150●●	E7 F7 P7 V7	3.430
	4	LC1-F1504●●	E7 F7 P7 V7	3.830
275	3	LC1-F185●●	E7 F7 P7 V7	4.650
	4	LC1-F1854●●	E7 F7 P7 V7	5.450
315	3	LC1-F225●●	E7 F7 P7 V7	4.750
	4	LC1-F2254●●	E7 F7 P7 V7	5.550
350	3	LC1-F265●●	E7 F7 P7 V7	7.440
	4	LC1-F2654●●	E7 F7 P7 V7	8.540
400	3	LC1-F330●●	E7 F7 P7 V7	8.600
	4	LC1-F3304●●	E7 F7 P7 V7	9.500
	2	LC1-F4002●●	E7 F7 P7 V7	8.000
500	3	LC1-F400●●	E7 F7 P7 V7	9.100
	4	LC1-F4004●●	E7 F7 P7 V7	10.200
	2	LC1-F5002●●	E7 F7 P7 V7	9.750
700	3	LC1-F500●●	E7 F7 P7 V7	11.350
	4	LC1-F5004●●	E7 F7 P7 V7	12.950
	2	LC1-F6302●●	E7 F7 P7 V7	15.500
1000	3	LC1-F630●●	E7 F7 P7 V7	18.600
	4	LC1-F6304●●	E7 F7 P7 V7	21.500
	2	LC1-F6302●●S011	E7 F7 P7 V7	15.500
1250	3	LC1-F630●●S011	E7 F7 P7 V7	18.600
	4	LC1-F6304●●S011	E7 F7 P7 V7	21.500
	3	LC1-F780●●	F7 P7 V7	39.500
1600	4	LC1-F7804●●	F7 P7 V7	48.000

Note : auxiliary contact blocks, modules and accessories : see pages 25010/2 to 25010/7.

(1) Power terminal protection shrouds available separately for contactors LC1-F115 to LC1-F630 (see page 25010/6).

(2) Standard control circuit voltages, see previous page.

Contactors

Reversing contactors for motor control
in utilisation category AC-3 (115 to 265 A),
pre-assembled
Control circuit: a.c. or d.c.

813149



LC2 F115

3-pole reversing contactors (horizontally mounted) (1)

Pre-wired power connections

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3							Operational current in AC-3	Maximum operational voltage	Contactors supplied without coil (2) Complete reference Fixing, cabling (3)	Weight
kW	kW	kW	kW	kW	kW	kW	A	V		kg
220 V 380 V						660 V	440 V up to			
230 V 400 V 415 V 440 V 500 V 690 V 1000 V										
30	55	59	59	75	80	65	115	1000	LC2 F115	7.560
40	75	80	80	90	100	65	150	1000	LC2 F150	7.560
55	90	100	100	110	110	100	185	1000	LC2 F185	10.100
63	110	110	110	129	129	100	225	1000	LC2 F225	14.200
75	132	140	140	160	160	147	265	1000	LC2 F265	16.480

Accessories (to be ordered separately)

Description	For reversing contactors	Quantity required	Reference	Weight kg
Power terminal protection shrouds	LC2 F115	2	LA9 F701	0.250
	LC2 F150, F185	2	LA9 F702	0.250
	LC2 F225, F265	2	LA9 F703	0.250
Auxiliary contact blocks and add-on modules	–	–	See pages 25010/2 to 25010/7	

(1) Fitted with a mechanical interlock without electrical interlocking. Order separately 2 auxiliary contact blocks LAD N#1 to obtain electrical interlocking between the 2 contactors, see page 25010/3 For accessories, see pages 25010/4 to 25010/7

(2) Coils to be ordered separately:

- a.c. supply, see pages 25014/2 and 25014/3,
- d.c. supply, see page 25014/5.

(3) Screw fixing.

Power terminals can be protected against direct finger contact by the addition of shrouds, to be ordered separately, see above.

Contactors

Changeover contactor pairs for control
in utilisation category AC-1 (200 to 350 A),
pre-assembled
Control circuit: a.c. or d.c.



LC2 F1854

4-pole changeover contactor pairs (horizontally mounted) (1)

Pre-wired power connections

Utilisation category AC-1 Non inductive loads Maximum operational current $\theta < 40\text{ }^{\circ}\text{C}$	Maximum operational voltage	Contactors supplied without coil (2) Complete reference Fixing, cabling (3)	Weight kg
A	V		kg
200	1000	LC2 F1154	8.860
250	1000	LC2 F1504	8.860
275	1000	LC2 F1854	12.100
315	1000	LC2 F2254	15.200
350	1000	LC2 F2654	19.480

Accessories (to be ordered separately)

Description	For changeover pairs	Quantity required	Reference	Weight kg
Power terminal protection shrouds	LC2 F1154	2	LA9 F706	0.250
	LC2 F1504, F1854	2	LA9 F707	0.250
	LC2 F2254, F2654	2	LA9 F708	0.250
Auxiliary contact blocks and add-on modules	–	–	See pages 25010/2 to 25010/7	

(1) Fitted with a mechanical interlock without electrical interlocking. Order separately 2 auxiliary contact blocks LAD N●1 to obtain electrical interlocking between the 2 contactors, see page 25010/3 For accessories, see pages 25010/4 to 25010/7

(2) Coils to be ordered separately:
- a.c. supply, see pages 25014/2 and 25014/3,
- d.c. supply, see page 25014/5.

(3) Screw fixing.

Power terminals can be protected against direct finger contact by the addition of shrouds, to be ordered separately, see above.

Contactors

Reversing contactors and changeover contactor pairs LC2 F

Components for assembling 3-pole reversing contactors and changeover contactor pairs, for customer assembly

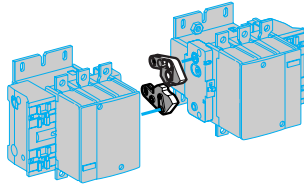
Horizontally mounted

Reversers assembled using 2 contactors of identical rating, type :

- LC1 F115
- LC1 F150
- LC1 F185
- LC1 F225
- LC1 F265
- LC1 F330
- LC1 F400
- LC1 F500
- LC1 F630
- LC1 F800

Mechanical interlocks

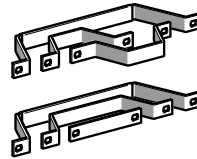
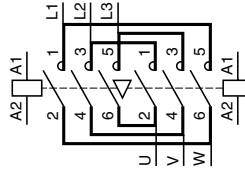
LA9 F●970 (2)



Sets of power connections

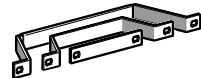
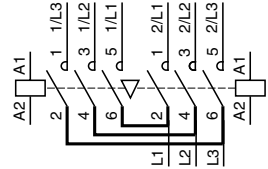
Reversing contactors

LA9 F●●●76 (2)



3-pole changeover contactor pairs (1)

LA9 F●●●82 (2)



Vertically mounted

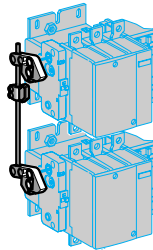
Reversers assembled using 2 contactors of identical rating, type :

- LC1 F115
- LC1 F150
- LC1 F185
- LC1 F225
- LC1 F265
- LC1 F330
- LC1 F400
- LC1 F500
- LC1 F630
- LC1 F800

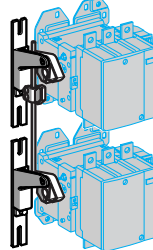
Reversers assembled using 2 contactors of different ratings, see page 25012/6

Mechanical interlocks

LA9 FF4F
LA9 FG4G

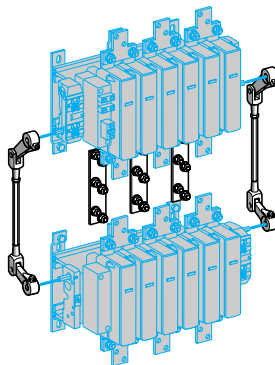


LA9 FH4H
LA9 FJ4J
LA9 FK4K
LA9 FL4L



LC1 F780

LA9 FX970



(1) For 4-pole changeover contactor pairs, see pages 25012/6 and 25012/7.

(2) Complete references: see page 25012/5.

Contactors

Reversing contactors and changeover pairs LC2 F
Components for assembling 3-pole reversing contactors
and changeover contactor pairs, for customer assembly
Control circuit: a.c. or d.c.

Reversers assembled using 2 contactors of identical rating

Contactor type (1)	Set of power connections		Mechanical interlock	
	Reference	Weight kg	Kit reference	Weight kg
For assembly of 3-pole reversing contactors for motor control				
Horizontally mounted				
LC1 F115	LA9 FF976	0.600	LA9 FF970	0.060
LC1 F150	LA9 F15076	0.600	LA9 FF970	0.060
LC1 F185	LA9 FG976	0.780	LA9 FG970	0.060
LC1 F225	LA9 F22576	1.500	LA9 FG970	0.060
LC1 F265	LA9 FH976	1.500	LA9 FJ970	0.140
LC1 F330	LA9 FJ976	2.100	LA9 FJ970	0.140
LC1 F400	LA9 FJ976	2.100	LA9 FJ970	0.140
LC1 F500	LA9 FK976	2.350	LA9 FJ970	0.140
LC1 F630 or F800	LA9 FL976	3.800	LA9 FL970	0.150
Vertically mounted				
LC1 F115 or F150	(2)	–	LA9 FF4F	0.345
LC1 F185	(2)	–	LA9 FG4G	0.350
LC1 F225	(2)	–	LA9 FG4G	0.350
LC1 F265 or F330	(2)	–	LA9 FH4H	1.060
LC1 F400	(2)	–	LA9 FJ4J	1.200
LC1 F500	(2)	–	LA9 FK4K	1.200
LC1 F630 or F800	(2)	–	LA9 FL4L	1.220
LC1 F780	(3)	–	LA9 FX970 (3)	6.100

For assembly of 3-pole changeover contactor pairs (4)

Horizontally mounted				
LC1 F115	LA9 FF982	0.460	LA9 FF970	0.060
LC1 F150	LA9 F15082	0.460	LA9 FF970	0.060
LC1 F185	LA9 FG982	0.610	LA9 FG970	0.060
LC1 F225	LA9 F22582	1.200	LA9 FG970	0.060
LC1 F265	LA9 FH982	1.200	LA9 FJ970	0.140
LC1 F330	LA9 FJ982	1.800	LA9 FJ970	0.140
LC1 F400	LA9 FJ982	1.800	LA9 FJ970	0.140
LC1 F500	LA9 FK982	2.300	LA9 FJ970	0.140
LC1 F630 or F800	LA9 FL982	3.400	LA9 FL970	0.150
Vertically mounted				
LC1 F115 or F150	(2)	–	LA9 FF4F	0.345
LC1 F185	(2)	–	LA9 FG4G	0.350
LC1 F225	(2)	–	LA9 FG4G	0.350
LC1 F265 or F330	(2)	–	LA9 FH4H	1.060
LC1 F400	(2)	–	LA9 FJ4J	1.200
LC1 F500	(2)	–	LA9 FK4K	1.200
LC1 F630 or F800	(2)	–	LA9 FL4L	1.220
LC1 F780	(3)	–	LA9 FX970 (3)	7.800

(1) To order the 2 contactors: see pages 25008/2 and 25008/3 For the 2 auxiliary contact blocks LAD N●1 required to obtain electrical interlocking between the 2 contactors, see page 25010/3 For accessories, see pages 25010/4 to 25010/7

(2) With the exception of contactors LC1 F780, all power connections are to be made by the customer.

(3) Double mechanical interlock mechanism with 2 interlock connecting rods and 3 power connecting links.

(4) For assembly of 4-pole changeover contactor pairs, see pages 25012/6 and 25012/7

Contactors

Changeover contactor pairs LC2 F
 Components for assembling 3 and 4-pole changeover contactor pairs, for customer assembly

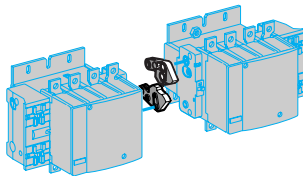
Horizontally mounted

Contactor pairs assembled using 2 contactors of identical rating, type :

- LC1 F1154
- LC1 F1504
- LC1 F1854
- LC1 F2254
- LC1 F2654
- LC1 F3304
- LC1 F4004
- LC1 F5004
- LC1 F6304

Mechanical interlocks

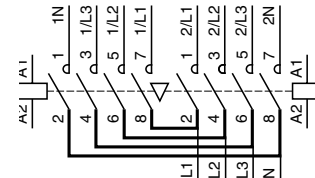
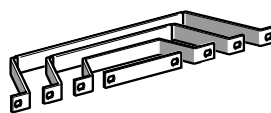
LA9 F●970



Sets of power connections

4-pole changeover contactor pairs (1)

LA9 F●●77



Vertically mounted

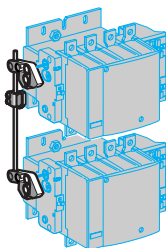
Contactor pairs assembled using 2 contactors of identical rating, type :

- LC1 F1154
- LC1 F1504
- LC1 F1854
- LC1 F2254
- LC1 F2654
- LC1 F3304
- LC1 F4004
- LC1 F5004
- LC1 F6304

Mechanical interlocks

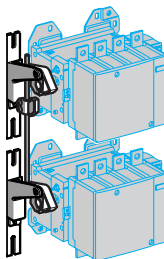
Assembly A

LA9 FF4F
 LA9 FG4G



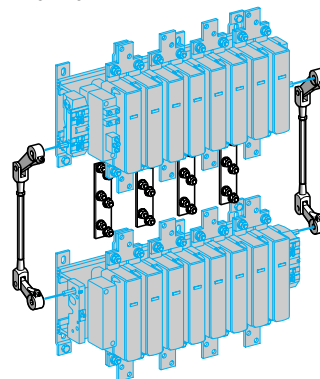
Assembly B

LA9 FH4H
 LA9 FJ4J
 LA9 FK4K
 LA9 FL4L



Assembly C

LA9 FX971

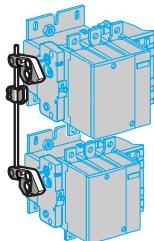


Contactor pairs assembled using 2 contactors of different ratings, type :

- LC1 F115 or F1154
- LC1 F150 or F1504
- LC1 F185 or F1854
- LC1 F225 or F2254
- LC1 F265 or F2654
- LC1 F330 or F3304
- LC1 F400 or F4004
- LC1 F500 or F5004
- LC1 F630 or F6304
- LC1 F800

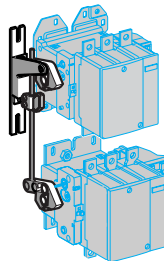
Assembly A

LA9 FG4F



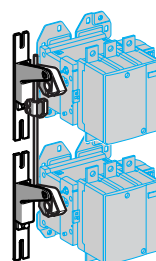
Assembly B

LA9 FH4F, LA9 FH4G
 LA9 FJ4F, LA9 FJ4G
 LA9 FK4F, LA9 FK4G
 LA9 FL4F, LA9 FL4G



Assembly C

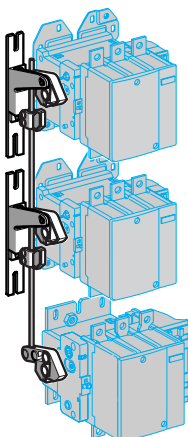
LA9 FJ4H
 LA9 FK4H, LA9 FK4J
 LA9 FL4H, LA9 FL4J and LA9 FL4K



Contactor pairs assembled using 3 contactors of identical or different ratings, type :

- LC1 F115 or F1154
- LC1 F150 or F1504
- LC1 F185 or F1854
- LC1 F225 or F2254
- LC1 F265 or F2654
- LC1 F330 or F3304
- LC1 F400 or F4004
- LC1 F500 or F5004
- LC1 F630 or F6304
- LC1 F800

LA9 F●4●4● : see pages 25030/2 and 25030/3.



Important: the contactor ratings must be in decreasing size from top to bottom.

(1) For 3-pole changeover contactor pairs, see pages 25012/4 and 25012/5.

Contactors

Changeover contactor pairs LC2 F

Components for assembling 3 and 4-pole changeover contactor pairs, for customer assembly

Control circuit: a.c. or d.c.

Contactor pairs assembled using 2 contactors of identical rating

For assembly of 4-pole changeover contactor pairs (1)

Contactor type (2)	Set of power connections		Mechanical interlock	
	Reference	Weight kg	Kit reference	Weight kg
Horizontally mounted				
LC1 F1154	LA9 FF977	0.460	LA9 FF970	0.060
LC1 F1504	LA9 F15077	0.460	LA9 FF970	0.060
LC1 F1854	LA9 FG977	0.610	LA9 FG970	0.060
LC1 F2254	LA9 F22577	1.200	LA9 FG970	0.060
LC1 F2654	LA9 FH977	1.200	LA9 FJ970	0.140
LC1 F3304	LA9 FJ977	1.800	LA9 FJ970	0.140
LC1 F4004	LA9 FJ977	1.800	LA9 FJ970	0.140
LC1 F5004	LA9 FK977	2.300	LA9 FJ970	0.140
LC1 F6304	LA9 FL977	3.400	LA9 FL970	0.150
Vertically mounted				
LC1 F1154 or F1504	(3)	–	LA9 FF4F	0.345
LC1 F1854	(3)	–	LA9 FG4G	0.350
LC1 F2254	(3)	–	LA9 FG4G	0.350
LC1 F2654 or F3304	(3)	–	LA9 FH4H	1.060
LC1 F4004	(3)	–	LA9 FJ4J	1.200
LC1 F5004	(3)	–	LA9 FK4K	1.200
LC1 F6304	(3)	–	LA9 FL4L	1.220
LC1 F7804	(4)	–	LA9 FX971 (4)	7.800

Contactor pairs assembled using 2 contactors of different ratings

For assembly of 3 or 4-pole changeover contactor pairs

Contactor type(1)			Mechanical interlock	
	At bottom	At top	Kit reference	Weight kg
Vertically mounted				
LC1 F115 or F1154 or LC1 F150 or F1504	LC1 F185 or F1854	LA9 FG4F	0.350	
	LC1 F225 or F2254	LA9 FG4F	0.350	
	LC1 F265 or F2654	LA9 FH4F	0.870	
	LC1 F330 or F3304	LA9 FH4F	0.870	
	LC1 F400 or F4004	LA9 FJ4F	0.930	
	LC1 F500 or F5004	LA9 FK4F	0.940	
LC1 F185 or F1854 or LC1 F225 or F2254	LC1 F630, F6304 or F800	LA9 FL4F	0.940	
	LC1 F265 or F2654	LA9 FH4G	0.860	
	LC1 F330 or F3304	LA9 FH4G	0.860	
	LC1 F400 or F4004	LA9 FJ4G	0.940	
	LC1 F500 or F5004	LA9 FK4G	0.940	
	LC1 F630, F6304 or F800	LA9 FL4G	0.950	
LC1 F265 or F2654 or LC1 F330 or F3304	LC1 F400 or F4004	LA9 FJ4H	1.130	
	LC1 F500 or F5004	LA9 FK4H	1.130	
	LC1 F630, F6304 or F800	LA9 FL4H	1.140	
LC1 F400 or F4004	LC1 F500 or F5004	LA9 FK4J	1.200	
	LC1 F630 or F6304 or F800	LA9 FL4J	1.210	
LC1 F500 or F5004	LC1 F630 or F6304 or F800	LA9 FL4K	1.210	

For assembly of reversers using 3 contactors, vertically mounted

See pages 25030/2 and 25030/3.

(1) For assembly of 3-pole changeover contactor pairs, see pages 25012/4 and 25012/6.

(2) To order the 2 contactors: see pages 25008/2 and 25008/3. For the 2 auxiliary contact blocks LAD N^o1 required to obtain electrical interlocking between the 2 contactors, see page 25010/3. For accessories, see pages 25010/4 to 25010/7

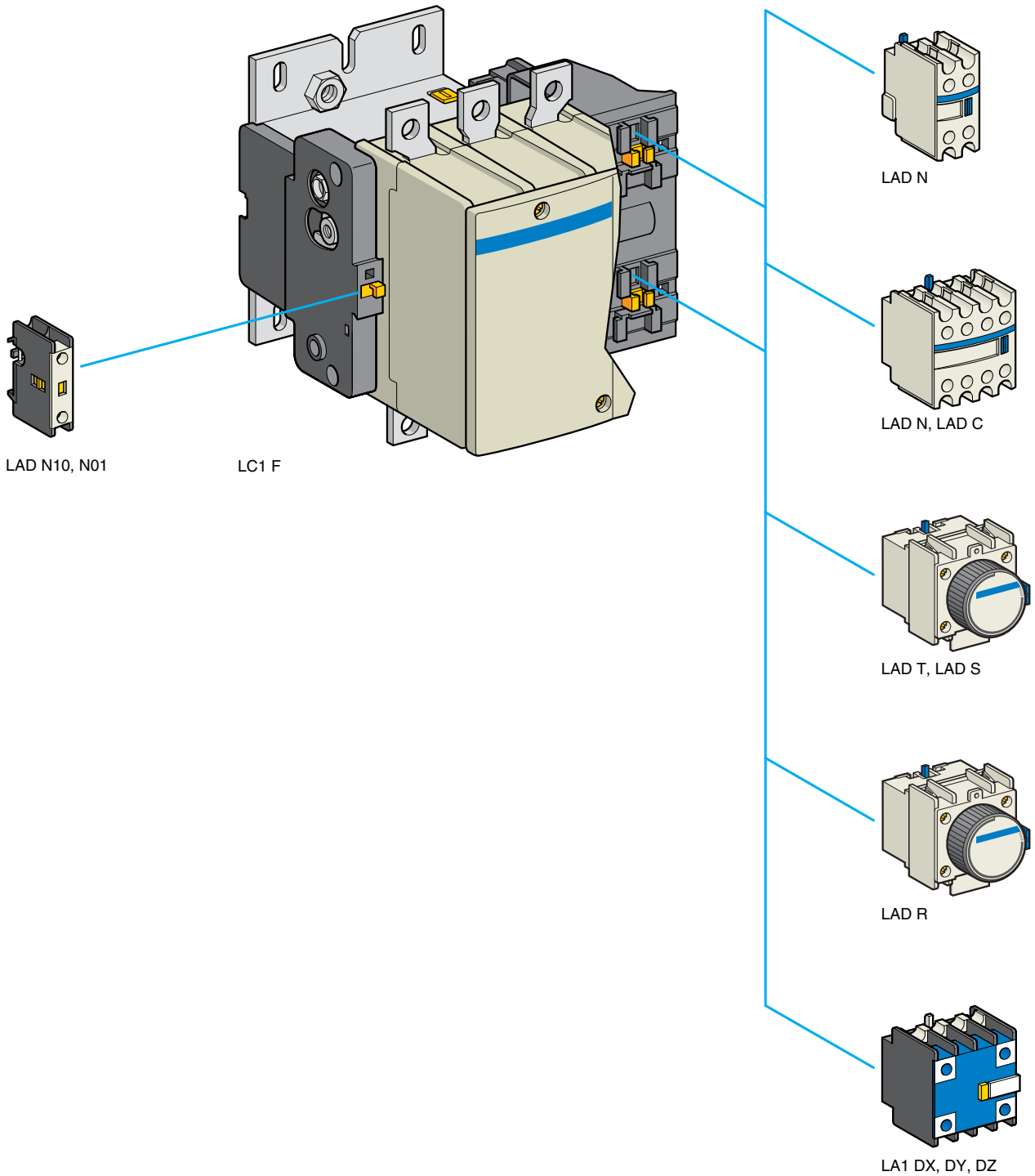
(3) All power connections are to be made by the customer.

(4) Double mechanical interlock mechanism with 2 interlock connecting rods and 4 power connecting links.

TeSys contactors

TeSys LC1 F

Auxiliary contact blocks







TeSys contactors

TeSys LC1 F

Auxiliary contact blocks

Instantaneous auxiliary contact blocks

For use in normal operating environments

Number of contacts	Max. number of blocks per contactor Clip-on mounting	Composition				Reference	Weight kg
							
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	Max. number of blocks per contactor Clip-on mounting	Composition				Reference	Weight kg
							
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	Max. number of blocks per contactor Clip-on mounting	Time delay		Reference	Weight kg
		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
			10...180	LAD T4	0.060
			1...30 (4)	LAD S2	0.060
		Off-delay	0.1...3 (3)	LAD R0	0.060
			0.1...30	LAD R2	0.060
			10...180	LAD R4	0.060

(1) Including 1 N/O + 1 N/C make before break.

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

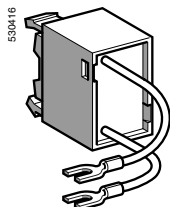
(3) With extended scale from 0.1 to 0.6 s.

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

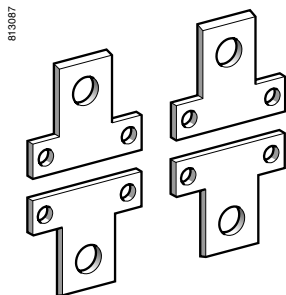
TeSys contactors

TeSys LC1 F

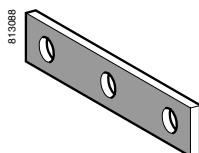
Accessories



LA4 F...●●●



LA9 F602



LA9 F601



DZ3 FA3

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 Uc 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	Uc		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

Varistors (peak limiting)

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

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 frequency.
- Increase in drop-out time (3 to 4 times the normal time).
- Polarised component.

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 Uc max.
- Maximum reduction of transient voltage peaks.

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

Cabling accessories

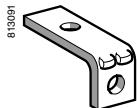
For use on 4-pole contactors	Set of 4 links	Weight kg
	Set reference	
Links for parallel connection of poles (in pairs)		
LC1 F1154	LA9 FF602	0.200
LC1 F1504, F1854	LA9 FG602	0.350
LC1 F2254, F2654, F3304, F4004	LA9 FH602	1.000
LC1 F5004	LA9 FK602	1.750
LC1 F6304	LA9 FL602	3.000

Links for "star" connection of 3 poles

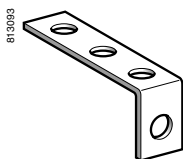
LC1 F115	LA9 FF601	0.035
LC1 F150, F185	LA9 FG601	0.050
LC1 F225, F265, F330, F400	LA9 FH601	0.120
LC1 F500	LA9 FK601	0.180
LC1 F630, F800	LA9 FL601	0.550

Control circuit voltage take-off from power terminals

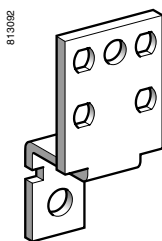
For use on contactors	Mounted on bolt size	Sold in lots of	Unit reference	Weight kg
LC1 F115	M6	10	DZ3 FA3	0.004
LC1 F150, F185	M8	10	DZ3 GA3	0.004
LC1 F225...F500	M10	10	DZ3 HA3	0.006
LC1 F630, F800	M12	10	DZ3 JA3	0.009



LA9 F981



LA9 F979



LA9 FL980

Right-angled connectors

For contactors or thermal overload relays

For use on		With connector plates		Set of 3 connectors		
Contactors	Thermal overload relays (1)	Width	Type	Set reference	Weight kg	
						Side
LC1 F115	LR9 F567, LR9 F67	15 mm	Rear	LA9 FF981	0.060	
				Side	LA9 FF979	0.240
				Large surface area	LA9 FF980	0.150
LC1 F150, F185	LR9 F569, F571, LR9 F69, F71	20 mm	Rear	LA9 FG981	0.080	
				Side	LA9 FG979	0.350
				Large surface area	LA9 FG980	0.200
LC1 F225, F265, F330, F400	LR9 F775, LR9 F75	25 mm	Rear	LA9 FJ981	0.430	
				Side	LA9 FJ979	0.750
				Large surface area	LA9 FJ980	0.490
LC1 F500	LR9 F779, F781, LR9 F79, F81	30 mm	Rear	LA9 FK981	0.480	
				Side	LA9 FK979	0.920
				Large surface area	LA9 FK980	0.800
LC1 F630, F800	LR9 F781, LR9 F81	40 mm	Rear	LA9 FL981	1.210	
				Side	LA9 FL979	2.570
				Large surface area	LA9 FL980	3.190

Connection accessories

For reversing contactors or "star-delta" contactors combined with a thermal overload relay

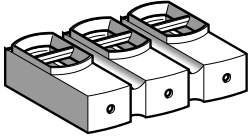
For use on		Width of connector plate	Set of 3 busbars	
Contactors	Thermal overload relays (1)		Set reference	Weight kg
LC1 F115	LR9 F557, F563 LR9 F567, F569 LR9 F69, F71	15 mm	LA7 F401	0.110
LC1 F150 and F185	LR9 F557, F563	20 mm	LA7 F402	0.110
LC1 F185	LR9 F571, LR9 F71	25 mm	LA7 F407	0.160
LC1 F225 and F265	LR9 F571, LR9 F71	25 mm	LA7 F403	0.160
	LR9 F775, F779 LR9 F75, F79	25 mm	LA7 F404	0.160
LC1 F330 and F400	LR9 F775, F779 LR9 F75, F79	25 mm	LA7 F404	0.160
LC1 F400	LR9 F781, LR9 F81	25 mm	LA7 F404	0.160
LC1 F500	LR9 F775, F779 LR9 F75, F79, F81	30 mm	LA7 F405	0.270
LC1 F630, F800	LR9 F781, LR9 F81	40 mm	LA7 F406	0.600

(1) For protection relays class 10, replace the ● with a 3 and for class 20, replace the ● with a 5.

TeSys contactors

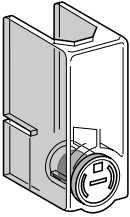
TeSys LC1 F
Accessories

813094



LA9 F103

813095



LA9 F701

Insulated terminal blocks

For use on 3-pole contactors	Cabling	Tightening tool	Set of 2 blocks Set reference	Weight kg
LC1 F115, F150, F185	1 x 16...150 mm ² or 2 x 16...95 mm ²	4 mm hexagonal socket key	LA9 F103	0.560

Power terminal protection shrouds

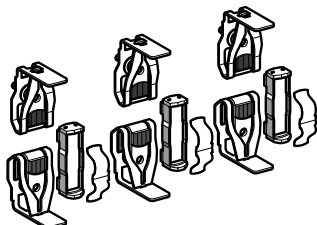
For use on 2, 3 and 4-pole contactors	Number of shrouds per set	Set reference	Weight kg
LC1 F115	6	LA9 F701	0.250
LC1 F150, F185	6	LA9 F702	0.250
LC1 F225, F265, F330, F400 and F4002, F500 and F5002	6	LA9 F703	0.250
LC1 F630, F6302 and F800	6	LA9 F704	0.250
LC1 F1154	8	LA9 F706	0.300
LC1 F1504 and F1854	8	LA9 F707	0.300
LC1 F2254, F2654, F3304, F4004, F5004	8	LA9 F708	0.300
LC1 F6304	8	LA9 F709	0.300

TeSys contactors

TeSys LC1 F

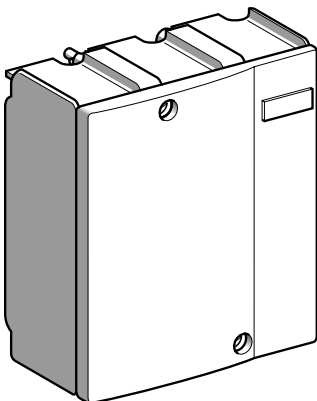
Spare parts

813086



LA5 FG431

813087



LA5 F40050

Main contact sets

Per pole: 2 fixed contacts and 1 moving contact, 2 deflectors, 1 backplate, fixing screws and washers.

For contactor	Type	Replacement for	Reference	Weight kg
2-pole	LC1 F4002	2 poles	LA5 F400802	1.350
	LC1 F5002	2 poles	LA5 F500802	1.950
	LC1 F6302	2 poles	LA5 F630802	4.700
	LC1 F6302S011	2 poles	LA5 F630802S011	4.800
3-pole	LC1 F115, F150	3 poles	LA5 FF431	0.270
	LC1 F185, F225	3 poles	LA5 FG431	0.350
	LC1 F265	3 poles	LA5 FH431	0.660
	LC1 F330, F400	3 poles	LA5 F400803	2.000
	LC1 F500	3 poles	LA5 F500803	2.950
	LC1 F630	3 poles	LA5 F630803	6.100
	LC1 F780	1 pole	LA5 F780801 (1)	4.700
		3 poles	LA5 F780803	13.200
	LC1 F800	3 poles	LA5 F800803	6.100
	LC1 F630S011	3 poles	LA5 F630803S011	6.200
4-pole	LC1 F1504, F1154	4 poles	LA5 FF441	0.360
	LC1 F1854, F2254	4 poles	LA5 FG441	0.465
	LC1 F2654	4 poles	LA5 FH441	0.880
	LC1 F3304, F4004	4 poles	LA5 F400804	2.700
	LC1 F5004	4 poles	LA5 F500804	3.900
	LC1 F6304	4 poles	LA5 F630804	8.150
	LC1 F7804	1 pole	LA5 F780801 (1)	4.700
		4 poles	LA5 F780804	17.300
	LC1 F6304S011	4 poles	LA5 F630804S011	8.400

Arc chambers

For contactor	Type	Replacement for	Reference	Weight kg
2-pole	LC1 F4002	2 poles	LA5 F400250	0.870
	LC1 F5002	2 poles	LA5 F500250	1.250
	LC1 F6302	2 poles	LA5 F630250	2.100
	LC1 F6302S011	2 poles	LA5 F630250	2.100
3-pole	LC1 F115	3 poles	LA5 F11550	0.490
	LC1 F150	3 poles	LA5 F15050	0.490
	LC1 F185	3 poles	LA5 F18550	0.670
	LC1 F225	3 poles	LA5 F22550	0.670
	LC1 F265	3 poles	LA5 F26550	0.920
	LC1 F330	3 poles	LA5 F33050	1.300
	LC1 F400	3 poles	LA5 F40050	1.300
	LC1 F500	3 poles	LA5 F50050	1.850
	LC1 F630	3 poles	LA5 F63050	3.150
	LC1 F780	1 pole	LA5 F780150 (1)	2.100
	LC1 F800	3 poles	LA5 F80050	3.150
	LC1 F630S011	3 poles	LA5 F63050	3.150
	4-pole	LC1 F1154	4 poles	LA5 F115450
LC1 F1504		4 poles	LA5 F150450	0.660
LC1 F1854		4 poles	LA5 F185450	0.910
LC1 F2254		4 poles	LA5 F225450	1.000
LC1 F2654		4 poles	LA5 F265450	1.220
LC1 F3304		4 poles	LA5 F330450	1.740
LC1 F4004		4 poles	LA5 F400450 (2)	1.740
LC1 F5004		4 poles	LA5 F500450 (2)	2.500
LC1 F6304		4 poles	LA5 F630450 (3)	4.200
LC1 F7804		1 pole	LA5 F780150 (1)	2.100
LC1 F6304S011		4 poles	LA5 F630450	4.200

(1) Comprising 2 identical items per pole.

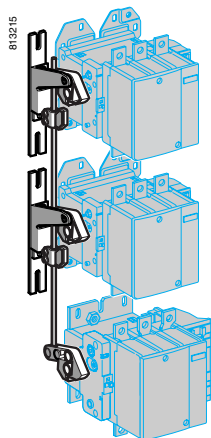
(2) Comprising two 2-pole arc chambers.

(3) Comprising single-pole arc chambers.

TeSys contactors

TeSys LC1 F

Accessories for assembly of reversing contactors and changeover contactor pairs using 3 contactors, vertically mounted - for customer assembly



LA9 F4040

Closing of one of the 3 contactors prevents closing of the other 2.

Mechanical interlock kits

Contactor type (1)			Mechanical interlock (2)	
Top	Middle	Bottom	Kit reference (3)	Weight kg
LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FF4F4F	0.554
LC1 F185, F225, F1854 or F2254	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FG4F4F	0.559
		LC1 F185, F225, F1854 or F2254	LA9 FG4G4F	0.559
LC1 F265, F330, F2654 or F3304	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FH4F4F	1.350
		LC1 F185, F225, F1854 or F2254	LA9 FH4G4F	1.375
	LC1 F185, F225, F1854 or F2254	LC1 F115, F150, F1154 or F1504	LA9 FH4G4G	1.375
		LC1 F185, F225, F1854 or F2254	LA9 FH4H4F	1.524
LC1 F400, F4002 or F4004	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FJ4F4F	1.421
		LC1 F185, F225, F1854 or F2254	LA9 FJ4G4F	1.424
	LC1 F185, F225, F1854 or F2254	LC1 F115, F150, F1154 or F1504	LA9 FJ4G4G	1.428
		LC1 F185, F225, F1854 or F2254	LA9 FJ4H4F	1.595
LC1 F265, F330, F2654 or F3304	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FJ4H4G	1.598
		LC1 F185, F225, F1854 or F2254	LA9 FJ4H4H	1.755
	LC1 F265, F330, F2654 or F3304	LC1 F115, F150, F1154 or F1504	LA9 FJ4J4F	1.666
		LC1 F185, F225, F1854 or F2254	LA9 FJ4J4G	1.669
LC1 F500, F5002 or F5004 (continued on page 25030/3)	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FJ4J4H	1.829
		LC1 F265, F330, F2654 or F3304	LA9 FJ4J4J	1.890
	LC1 F185, F225, F1854 or F2254	LC1 F115, F150, F1154 or F1504	LA9 FK4F4F	1.421
		LC1 F185, F225, F1854 or F2254	LA9 FK4G4F	1.424
LC1 F400, F4002 or F4004	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FK4G4G	1.428
		LC1 F185, F225, F1854 or F2254	LA9 FK4H4F	1.595
	LC1 F265, F330, F2654 or F3304	LC1 F115, F150, F1154 or F1504	LA9 FK4H4G	1.598
		LC1 F185, F225, F1854 or F2254	LA9 FK4H4H	1.755
LC1 F500, F5002 or F5004	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FK4J4F	1.666
		LC1 F185, F225, F1854 or F2254	LA9 FK4J4G	1.669
	LC1 F265, F330, F2654 or F3304	LC1 F115, F150, F1154 or F1504	LA9 FK4J4H	1.829
		LC1 F185, F225, F1854 or F2254	LA9 FK4J4J	1.896
LC1 F400, F4002 or F4004	LC1 F115, F150, F1154 or F1504	LA9 FK4K4F	1.666	
	LC1 F185, F225, F1854 or F2254			

(1) To order the 3 contactors, see pages 25008/2 and 25008/3. For auxiliary contact blocks LAD N02 used for electrical locking, see page 25010/3. For accessories, see pages 25010/4 to 25010/7

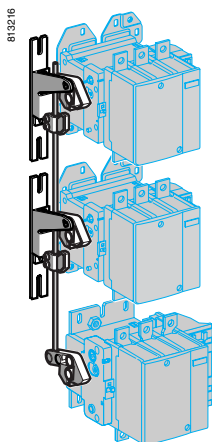
(2) Minimum distances between contactors, see page 25030/3.

(3) The kit contains the lever arms, the 2 x Ø 8 mm rods and all parts required for assembly.

TeSys contactors

TeSys LC1 F

Accessories for assembly of reversing contactors and changeover contactor pairs using 3 contactors, vertically mounted - for customer assembly



LA9 FK4K4G

Mechanical interlock kits (continued)

Contactor type (1)			Mechanical interlock (2)		
Top	Middle	Bottom	Kit reference (3)	Weight kg	
LC1 F500, F5002 or F5004 (continued)	LC1 F500, F5002 or F5004	LC1 F185, F225, F1854 or F2254	LA9 FK4K4G	1.669	
		LC1 F265, F330, F2654 or F3304	LA9 FK4K4H	1.825	
		LC1 F400, F4002 or F4004	LA9 FK4K4J	1.896	
		LC1-F500, F5002 or F5004	LA9 FK4K4K	1.896	
LC1 F630, F800, F6302 or F6304	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FL4F4F	1.428	
		LC1 F185, F225, F1854 or F2254	LA9 FL4G4F	1.431	
		LC1 F185, F225, F1854 or F2254	LA9 FL4G4G	1.436	
	LC1 F265, F330, F2654 or F3304	LC1 F115, F150, F1154 or F1504	LA9 FL4H4F	1.602	
		LC1 F185, F225, F1854 or F2254	LA9 FL4H4G	1.606	
		LC1 F265, F330, F2654 or F3304	LA9 FL4H4H	1.751	
	LC1 F400, F4002 or F4004	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FL4J4F	1.673
			LC1 F185, F225, F1854 or F2254	LA9 FL4J4G	1.676
			LC1 F265, F330, F2654 or F3304	LA9 FL4J4H	1.832
			LC1 F400, F4002 or F4004	LA9 FL4J4J	1.903
	LC1-F500, F5002 or F5004	LC1 F115, F150, F1154 or F1504	LC1 F115, F150, F1154 or F1504	LA9 FK4K4F	1.666
			LC1 F185, F225, F1854 or F2254	LA9 FK4K4G	1.669
LC1 F265, F330, F2654 or F3304			LA9 FK4K4H	1.825	
LC1 F400, F4002 or F4004			LA9 FK4K4J	1.896	
LC1-F500, F5002 or F5004			LA9 FK4K4K	1.896	
LC1 F630, F800, F6302 or F6304			LA9 FL4L4F	1.680	
LC1 F185, F225, F1854 or F2254			LA9 FL4L4G	1.683	
LC1 F265, F330, F2654 or F3304			LA9 FL4L4H	1.910	
LC1 F400, F4002 or F4004	LC1 F400, F4002 or F4004	LC1 F400, F4002 or F4004	LA9 FL4L4J	1.896	
		LC1 F500, F5002 or F5004	LA9 FL4L4K	1.896	
		LC1 F630, F800, F6302, or F6304	LA9 FL4L4L	1.920	

(1) To order the 3 contactors, see pages 25008/2 and 25008/3. For auxiliary contact blocks LAD N02 used for electrical locking, see page 25010/3. For accessories, see pages 25010/4 to 25010/7.

(2) Minimum distances between contactors.

This is the distance, in mm, between the centres of two adjacent contactors (between the top and middle contactors or between the middle and bottom contactors).

Contactor	Bottom or top					
	Middle	LC1 F115 or F150	LC1 F185 or F225	LC1 F265 or F330	LC1 F400	LC1 F500
LC1 F115 or F150	200	210	240	250	270	320
LC1 F185 or F225	210	220	250	250	270	330
LC1 F265 or F330	240	250	250	260	280	350
LC1 F400	250	250	260	260	280	320
LC1 F500	270	270	280	280	300	340
LC1 F630 or F800	320	330	350	320	340	380

(3) The kit contains the lever arms, the 2 x Ø 8 mm rods and all parts required for assembly.