

TeSys

contactors & thermal
overload relays

from 6 to 2750 A



Front mounted additional blocks

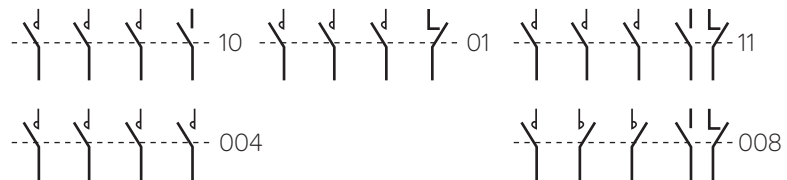


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- 2

	■ ■	■ ■	▲ ▲	▲	● ●	■ ■
	AC	DC	AC/DC	AC	DC	DC
Hz	50/60		...400	40/400	≤ 2.4W	≤ 2.4W
24V	B7	BD			BW	BL
48V	E7	ED			EW	EL
71V	-	SD			SW	SL
110V	F7	FD	FW	F		
120V	G7	-	FW	-		
220V	M7	MD	MW	M		
230V	P7		MW	P		
240V	U7		MW	U		
380V	Q7		QW	Q		
400V	V7		QW	V		
415V	N7		QW	N		
440V	R7		QW	R		

Conta

le max		$\theta \leq 40^\circ\text{C}$
MAXIMUM POWER RATING	3 ~ AC-1	at 415/440V
ϕ maxi		conforming to IEC 947-4
le max - (NORMAL LIFE)		$U_c \leq 440\text{V}$
RATED OPERATIONAL POWER	3 ~ AC-3	at 415/440V
ELECTRICAL LIFE		x 1000
le max - (LONG LIFE)		conforming to IEC 947-4
RATED OPERATIONAL POWER	3 ~ AC-3	at 415/440V
ELECTRICAL LIFE		x 1000
RATED INSULATION VOLTAGE		Upto
RATED OPERATIONAL VOLTAGE		Upto
RATED MAKING CAPACITY		I _{rms} at 415/440V
RATED BREAKING CAPACITY		Conforming to IEC 947-4
SHORT TIME RATING		For 10s, $\theta \leq 40^\circ\text{C}$



* All LCID contactors are with 1NO and 1NC built in auxiliary contacts

Standard overload relays

Direct mounting on the contactor

Class 10
Class 20

Multifunction overload relays

LA1-KN20
LA1-KN11
LA1-KN02



4	-	LA1-KN40
3	1	LA1-KN31
2	2	LA1-KN22
1	3	LA1-KN13
-	4	LA1-KN04



2	-	LAD-N20
1	1	LAD-N11
-	2	LAD-N02



4	-	
3	1	
2	2	
1	3	
-	4	

actors



Amp	20	20	20	20	25	25	32
KW	14	14	14	14	17	17	21
mm	4	4	4	4	4	4	6
Amp	6	9	12	16	12	18	25
KW	2.2	4	5.5	7.5	5.5	9	11
Nos.	1100	1200	1350	800	1500	1500	1100
Amp	-	-	-	-	9	12	18
KW	-	-	-	-	4	5.5	9
Nos.	-	-	-	-	2000	2000	1700
V	690	690	690	690	690	690	690
V	690	690	690	690	690	690	690
Amp	110	110	144	160	250	250	300
Amp	110	110	120	130	250	250	300
Amp	80	80	100	100	105	105	145

AC	LC1-K06	LC1-K09	LC1-K12	LC1-K16	LC1-D09	LC1-D12	LC1-D18	LC1-D25
DC	LP1-K06	LP1-K09	LP1-K12					
	10	10	10	10				
	01	01	01	01				
		004						
		008						
						004		
						008		



0,11	0,16	0,23	0,36
LR2-K0301	LR2-K0302	LR2-K0303	
0,36	0,54	0,8	1,2
LR2-K0304	LR2-K0305	LR2-K0306	
1,2	1,8	2,6	3,7
LR2-K0307	LR2-K0308	LR2-K0310	
3,7	5,5	8	11,5
LR2-K0312	LR2-K0314	LR2-K0316	
	10	14	12
	LR2-K0321	LR2-K0322	16

0,1	0,16	0,25	0,4	0,63
LRD-01		LRD-03		LRD-05
	LRD-02		LRD-04	
4	6	7	10	12
LRD-10		LRD-14		LRD-21
LR2-D1510		LR2-D1514		LR2-D1522
	LRD-12		LRD-16	
	LR2-D1512		LRD-D1516	
	5,5	8	9	13

1A

0,2A

LT6-POM

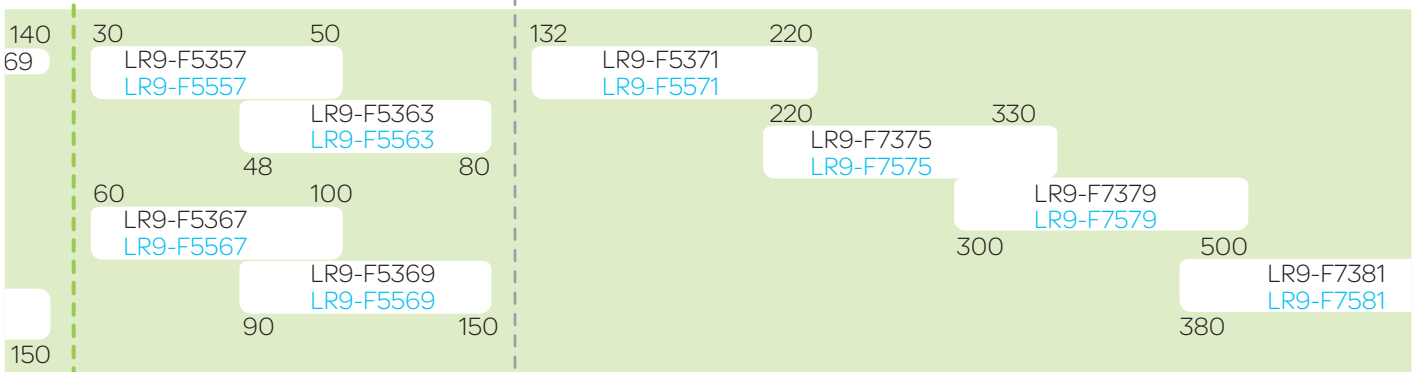
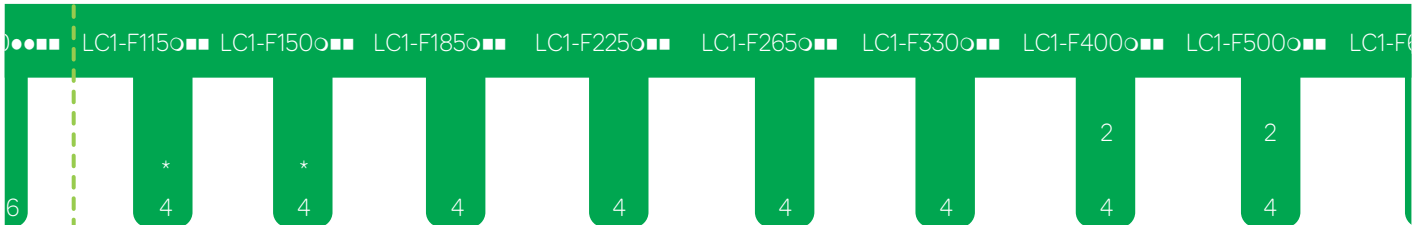


0.1 -3s LAD-R0
 1 -30s LAD-R2
 10 -180s LAD-R4

0
 2
 4



250	200	250	275	315	350	400	500	700	
40	125	160	170	185	220	260	310	445	
120	95	120	150	185	185	240	2X150	2X240	2X6
-	150	185	205	265	300	410	450	630	
-	80	100	110	140	160	220	250	375	
-	778	660	770	820	820	640	720	610	
150	115	150	185	225	265	330	400	500	
80	59	80	100	110	140	180	220	280	
00	1200	1100	1200	1000	1000	1000	900	900	
00	1500	1500	1500	1500	1500	1500	1500	1500	
00	1000	1000	1000	1000	1000	1000	1000	1000	1
60	1300	1700	2100	2460	2940	3600	4500	5550	6
00	1300	1500	1800	2050	2450	3000	4000	5000	6
00	1100	1200	1500	1800	2200	2650	3600	4200	5



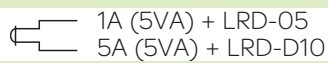
LT6-POM005FM 1A/5A

Built-in auxiliary contacts



000	1000	1600	800	1250	2000	2750	Amp
630	630	1000	525	825	1250	1700	KW
0X5	2x60x5	2x100x5	2x50x5	2x80x5	3x100x5	4x100x5	mm
800	-	-	-	-	-	-	Amp
450	-	-	-	-	-	-	KW
600	-	-	-	-	-	-	Nos.
630	800	780	750	1000	1500	1800	Amp
375	450	425	425	530	800	900	KW
800	600	-	-	-	-	-	Nos.
1500	1500	1500	1000	1000	1000	1000	V
000	1000	1000	1000	1000	1000	1000	V
5740	8200	8550	10000	10000	15000	18000	Amp
5300	7400	7100	8000	9000	12000	16000	Amp
5050	6500	6250	7000	8000	9600	12000	Amp

630	LC1-F800	LC1-F780	LC1-BL3	LC1-BM3	LC1-BP3	LC1-BR3	AC DC
2	4	4	1	1	1	1	1
4	4	4	2	2	2	2	2
			3	3	3	3	3
			4	4	4	4	4



630

630

2750 A

2750 A

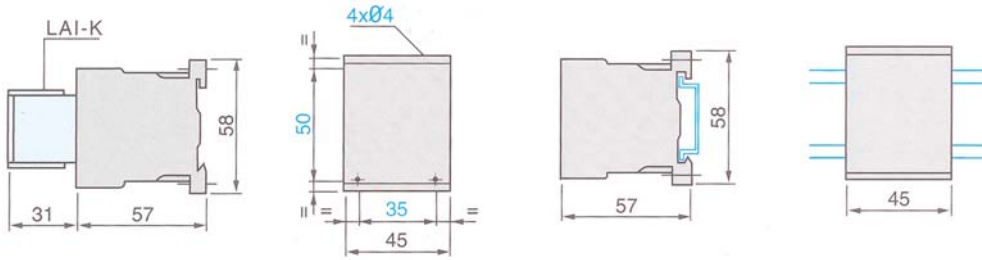
*Will be discontinued soon.

Contactors

Contactors LC1-K and LP1-K Dimensions, mounting

LC1-K, LP1-K
On panel

On mounting rail AM-1DP200 or AM 1 De200 (└└ 35 MM)



Contactors LC1-D Mounting

LC1-D09 to D38

Panel mounted

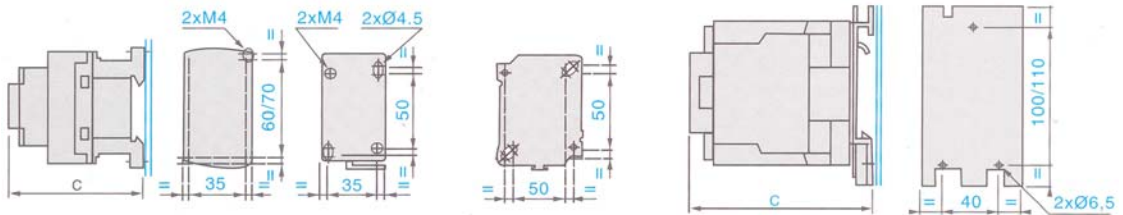
LC1 or
LP1-D12 (4P)

Panel mounted

LC1 or
LP1D25 (4P)

Panel mounted

LC1-D40 to D95, LP1-D40 to D80

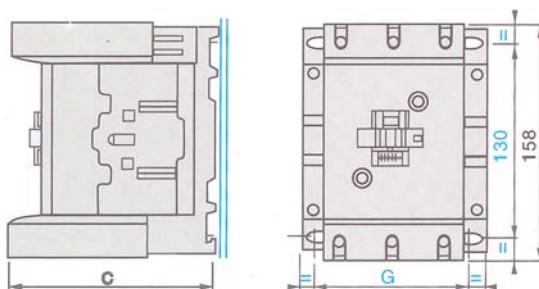


Control circuit	A.C. Coil		D.C. Coil	
LC1-	D09 to D18	D25 to D38	D09 to D18	D25 to D38
c with cover	86	92	95	101
4-pole contactors				
	LC1-D12	LC1D25	LP1-D12	LP1-D25
c	80	93	118	132

Control circuit:	A.C. Coil		D.C. coil	
LC1-	D40 to D65	D80 to D95	D40 to D65	D80 and D95
c with cover	119	130	175	186
LP1-	-	-	D40 & D65	D80
c without cover	-	-	171	181

LC1-D115, D150

Panel mounted



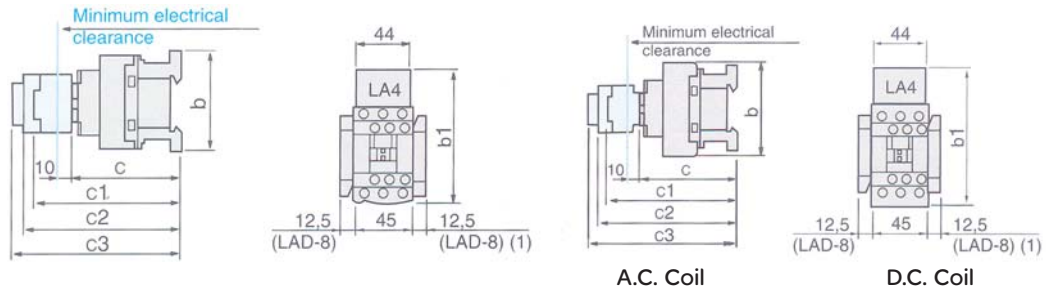
LC1-	D115	D1156	D150	D1506
c	132	115	132	115
G (3-pole)	96/110	96/110	96/110	96/110
G (4-pole)	130/144	130/144	-	-

Contactor

Contactor LC1D Dimensions, mounting

LC1-D09 to D18 (3-pole)
LC1-D12004 and D12008 (4-pole)

LC1-D25 to D38 (3-pole)
LC1-D12004 and D12008 (4-pole)

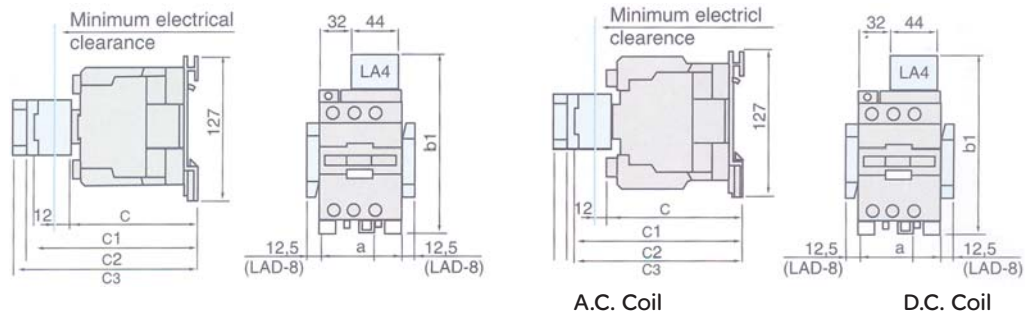


LC1-	D09...D18	D25...D38	D09...D18	D25...D38	
b	without add-on blocks	77	85	77	85
b1	with LAD-4BB	94	98		
	with LA4-D02	110 (2)	114 (2)		
	with LA4-DF, DT	119 (2)	123 (2)		
	with LA4-DR, DW, DL	126 (2)	130 (2)		
c	without cover on add-on blocks	84	90	93	99
	with cover, without add-on blocks	86	92	95	101
c1	with LAD-N or C(2 or 4 contacts)	117	123	126	132
c2	with LA6-DK 10 LAD-GK10	129	135	138	144
c3	with LAD-T, R, S	137	143	146	152
	with LAD-T, R, S and sealing cover	141	147	150	156

(1) LC-D09 to D38 3-pole: for mounting on LH side only (2) Including LAD-4BB

LC1-D40 to D65 (3-pole)

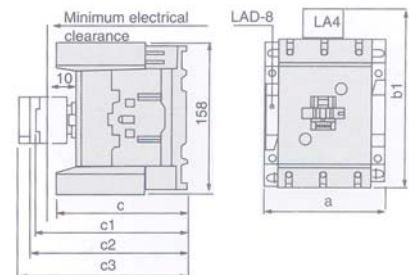
LC1-D80 and D95 (3-pole)



LC1-	D40...D65	D80	D95	D40...D65	D80 and D95
a	75	85	85		
b1	with LA4-D.2	135	135		
	with LA4-DB3	-	135		
	with LA4-DF, DT	142	142		
	with LA4-DM, DR, DW, DL	150	150		
c	without cover on add-on blocks	114	125	171	181
	with cover, without add-on blocks	119	130	176	186
c1	with LAD-N (1 contact)	139	150	196	204
	with LAD-N or C (2 to 4 contacts)	147	158	202	210
c2	with LA6-DK	159	170	213	221
c3	with LAD-T, R, S	167	178	221	229
	with LAD-T, R, S and sealing cover	171	182	225	233

LC1-D115 to D150(3-pole)
LC1-D115004 (4-pole)

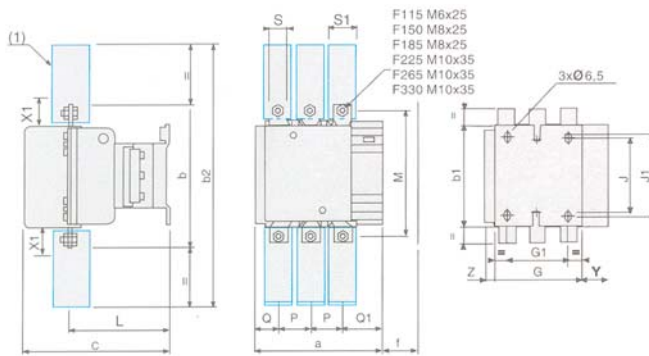
LC1-	D115	D115006	D15006	D1150046
a	120	120	120	155
b1	with LA4-DA2	174	174	174
	with LA4-DF, DT	185	185	185
	with LA4-DM, DR, DL	188	188	188
	with LA4-DW	188	188	-
c	without cover or add-on blocks	132	115	115
	with cover, without add-on blocks	136	-	-
c1	with LAD-N or C (2 or 4 contacts)	150	150	150
c2	with LA6-DK20	155	155	155
c3	with LAD-T, R, S	168	168	168
	with LAD-T, R, S and sealing cover	172	172	172



Contactor

Contactor LC1F Dimensions, mounting

LC1-F115 to F330



X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

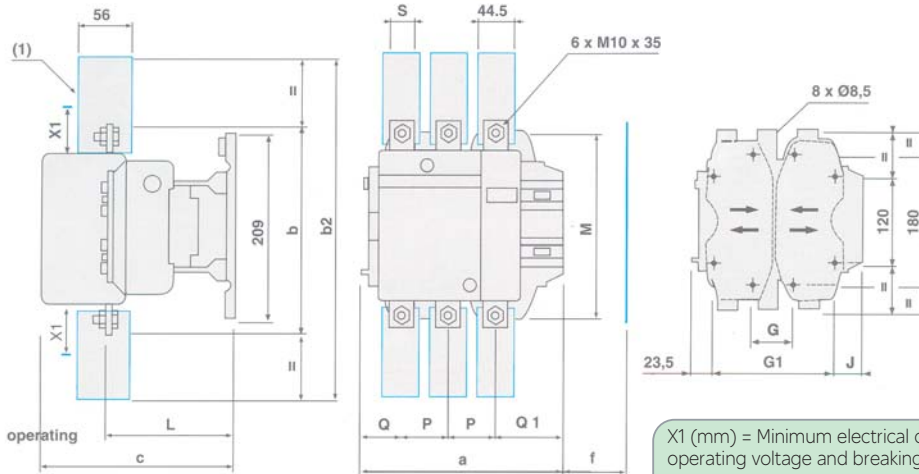
LC1-	200...500V	600...1000V
F115, F150	10	15
F185	10	15
F225, F265	10	15
F330	10	15

(1) Power terminal protection shroud (optional)

LC1-	a	b	b1	b2	c	f	G	G1	J	J1	L	M	P	Q	Q1	S	S1	Y	Z	
F115	3P	163.5	162	137	265	171	131	106	80	106	120	107	147	37	29.5	60	20	26	44	13.5
	4P	200.5	162	137	265	171	131	143	80	106	120	107	147	37	29.5	60	20	26	44	13.5
F150	3P	163.5	170	137	301	171	131	106	80	106	120	107	150	40	26	57.5	20	34	44	13.5
	4P	200.5	170	137	301	171	131	143	80	106	120	107	150	40	26	55.5	20	34	44	13.5
F185	3P	168.5	174	137	305	181	130	111	80	106	120	113.5	154	40	29	59.5	20	34	44	13.5
	4P	208.5	174	137	305	181	130	151	80	106	120	113.5	154	40	29	59.5	20	34	44	13.5
F225	3P	168.5	197	137	364	181	130	111	80	106	120	113.5	172	48	21	51.5	25	44.5	44	13.5
	4P	208.5	197	137	364	181	130	151	80	106	120	11.5	172	48	17	47.5	25	44.5	44	21.5
F265	3P	201.5	203	145	375	213	147	142	96	106	120	141	178	48	39	66.5	25	44.5	38	13.5
	4P	244.5	203	145	375	213	147	190	96	106	120	141	178	48	34	66.5	25	44.5	38	21.5
F330	3P	213	206	145	375	219	147	154.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5
	4P	261	206	145	375	219	147	202.5	96	106	120	145	181	48	43	74	25	44.5	38	20.5

f= minimum distance required for coil removal

LC1-F400 and F500



X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

LC1-	200...500V	600...1000V
F400	15	20
F500	15	20

(1) Power terminal protection shroud (see page 1/170)

LC1	a	b	b2	C	f	G*	G min.	G max.	G1*	G1 min.	G1 max.	J	L	M	P	Q	Q1	S	
F400	2P	213	206	375	219	119	80	66	102	170	156	192	19.5	145	181	48	69	96	25
	3P	213	206	375	219	119	80	66	102	170	156	192	19.5	145	181	48	43	74	25
	4P	261	206	375	219	119	80	66	150	170	156	240	67.5	145	181	48	43	74	25
F500	2P	233	238	400	232	141	80	66	120	170	156	210	39.5	146	208	55	76	102	30
	3P	233	238	400	232	141	80	66	120	170	156	210	39.5	146	208	55	46	77	30
	4P	288	238	400	232	141	140	66	175	230	156	265	34.5	146	208	55	46	77	30

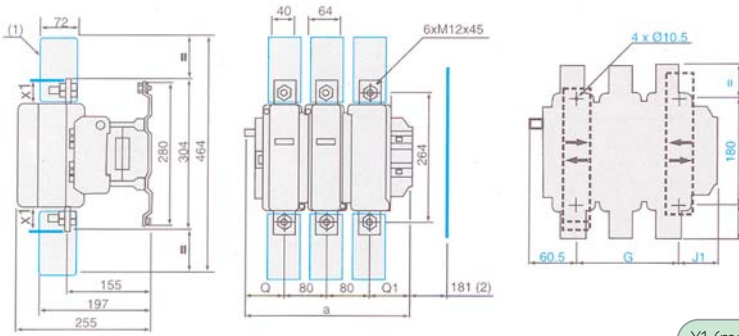
* supplied

f= minimum distance required for coil removal

Contactors

Contactors LC1F Dimensions, mounting

LC1-F630 and F800



LC1-		a	Gsuppi	G min.	G max.	J1	Q	Q1
F630	2P	309	180	100	195	68.5	102	127
F630, F800	3P	309	180	100	195	68.5	60	89
F630	4P	389	240	150	275	68.5	60	89

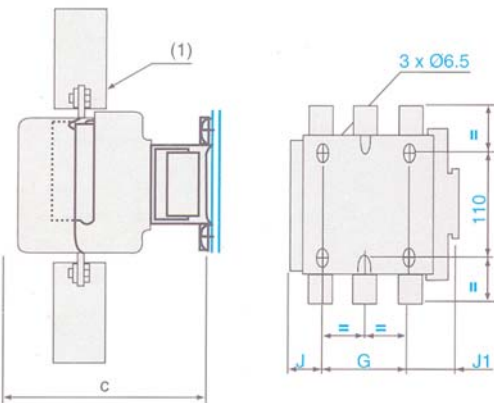
X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity

Voltage	200...500V	690...1000V	200...690V	1000V
LC1-F630	20	30	-	-
LC1-F800	-	-	10	20

(1) Power terminal protection shroud (optional)
(2) Minimum distance required for coil removal

Contactor LC1F Mounting

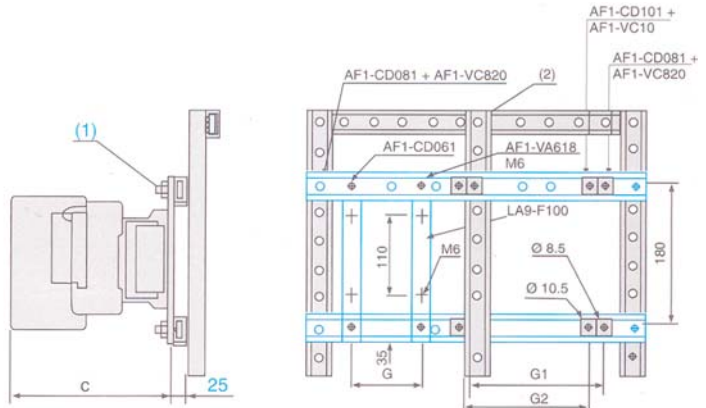
LC1-F115 to F330 On panel



LC1-		F115, F150	F185, F225	F265	F330
c(3)	3P	171	181	213	219
	4P	171	181	213	219
G	3P	80	80	96	96
	4P	80	80	96	96
J	3P	26.5	29	44.5	44.5
	4P	45	49	68.5	68.5
J1	3P	57	59.5	61.5	61.5
	4P	75.5	79.5	85.5	85.5

(1) Power terminal protection shroud (optional)

LC1-F400 to F800 On 2 notched rails AM-EC ●●●



LC1-		F400	F500	F630	F780	F800
c	3P	219	232	255	255	255
	4P	219	232	255	255	-
G(M6)	3P	-	-	-	-	-
	4P	-	-	-	-	-
G1(Ø8.5)	3P	80	80	-	-	-
	4P	80	140	-	-	-
G2(Ø10.5)	3P	-	-	180	-	180
	4P	-	-	240	-	-

(1) AF1-CD ●●● and AF1-VA ●●●

(2) This AM1-EC200 upright is required when G2 or G3 is > 700 mm



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Corporate office : A-29, Mohan Co-operative Industrial Estate, New Delhi-110044. Tel: 011-39404000. Fax: 41678010/11

Customer Care Centre: Toll Free: 1800 111 341 (BSNL/MTNL), 1800 103 0011 (Airtel)

Phone: +91 11 4168 2434/35, email: in-care@in.schneider-electric.com