LC	____	D	____	____	____	____
Full Voltage, Non-Reversing	1					
Full Voltage, Reversing	2					

TeSys D 3 Pole Contactors 9A to 150A

Contactor AC-3 Full Load Amps (FLA)

9A FLA	09
12A FLA	12
18A FLA	18
25A FLA	25
32A FLA	32
38A FLA (not marketed in US)	38
40A FLA	40
50A FLA	50
65A FLA	65
80A FLA	80
95A FLA (not marketed in US)	95
115A FLA	115
150A FLA	150

Everlink Power Connection (40A to 65A only)	A
No Everlink Power Connection (9A to 32A, 80A to 150A)	Blank

Termination Options (choose one)

Screw Termination	Blank
Spring Terminations †	3
Ring Tongue Terminations ●	6
Slip-on Terminations (9A to 12A only)	9

Coil Voltage (choose one)

AC Coils (50/60 Hz)		DC Coils (standard)		DC Coils low consumption available for 9 to 38 amp only	
12V	J7	12V	JD	5V	AL
21V	Z7	21V	ZD	12V	JL
24V	B7	24V	BD	21V	ZL
36V	C7	36V	CD	24V	BL
42V	D7	48V	ED	48V	EL
48V	E7	60V	ND	72V	SL
60V	EE7	72V	SD	96V	DL
100V	K7	110V	FD	110V	FL
110V	F7	125V	GD	220V	ML
115V	FE7	220V	MD	250V	UL
120V	G7	250V	UD		
127V	FC7	440V	RD		
200V	L7				
208V	LE7				
220V	M7				
230V	P7				
240V	U7				
277V	W7				
380V	Q7				
400V	V7				
415V	N7				
440V	R7				
480V	T7				
500V	S7				
575V	SC7				
600V	X7				
660V	Y5 (50 Hz only)				

▲ On LC1D09 - LC1D65A, for spring terminals versions add '3' to the catalog number prior to adding the voltage code (ex. LC1D12G7 becomes LC1D123G7 and LC1D40AG7 becomes LC1D40A3G7 - Note that 40A to 65A spring terminals are only on the control terminations and not on power terminations). No price adder for this modification.

■ On LC1D09 - LC1D65A and LC1DT20 through LC1DT80A, for ring tongue versions add '6' to the catalog number prior to adding the voltage code (ex. LC1D09G7 becomes LC1D096G7 and LC1D50AG7 becomes LC1D50A6G7). No price adder for this modification.

Note: To be used for interpretation of current catalog numbers only.


LC1D09


LC1D093


LC1D40A


LC1D115


LRD22


LRD3

E164862
CCN NLDX

LR43364
Class 3211 04

Table 18.1: 3- or 4-Pole Screw Terminal Connections

Maximum Horsepower Ratings						Maximum Current Utilization Categories		No of Poles		Instantaneous Auxiliary Contacts		Catalog Number ▲	$ Price	
Single Phase		Three Phase				Inductive AC3 Amperes	Resistive AC1 Amperes	N.O.	N.C.	N.O.	N.C.			
115 V hp	230 V hp	200 V hp	230 V hp	460 V hp	575 V hp								AC Coils	DC Coils
0.5	1	2	2	5	7.5	9	20	3	0	1	1	LC1D09 ♦★▼	**94.00**	**119.00**
—	—	—	—	—	—	—		4				LC1DT20 ♦	**94.00**	**119.00**
—	—	—	—	—	—	—		2	2			LC1D098 ♦	**94.00**	**119.00**
1	2	3	3	7.5	10	12	25	3	0	1	1	LC1D12 ♦★▼	**119.00**	**149.00**
—	—	—	—	—	—	—		4				LC1DT25 ♦	**119.00**	**149.00**
—	—	—	—	—	—	—		2	2			LC1D128 ♦	**119.00**	**149.00**
1	3	5	5	10	15	18	32	3	0	1	1	LC1D18 ♦★	**136.00**	**160.00**
—	—	—	—	—	—	—		4				LC1DT32 ♦	**149.00**	**183.00**
—	—	—	—	—	—	—		2	2			LC1D188 ♦	**149.00**	**183.00**
2	3	7.5	7.5	15	20	25	40	3	0	1	1	LC1D25 ♦★	**151.00**	**181.00**
—	—	—	—	—	—	—		4				LC1DT40 ♦	**193.00**	**240.00**
—	—	—	—	—	—	—		2	2			LC1D258 ♦	**193.00**	**240.00**
2	5	10	10	20	30	32	50	3	0	1	1	LC1D32 ♦★	**172.00**	**213.00**
3	5	10	10	30	30	40	60	3	0	1	1	LC1D40A	**218.00**	**275.00**
—	—	—	—	—	—	—		4		0	0	LC1DT60A	**296.00**	**353.00**
3	7.5	15	15	40	40	50	80	3	0	1	1	LC1D50A	**234.00**	**291.00**
5	10	20	20	40	50	65		3				LC1D65A	**322.00**	**379.00**
—	—	—	—	—	—	—		4	0	0	0	LC1DT80A	**446.00**	**503.00**
7.5	15	25	30	60	60	80	125	3	0	1	1	LC1D80	**363.00**	**420.00**
—	—	—	—	—	—	—		4		0	0	LC1D80004 ■	**489.00**	**524.00**
—	—	—	—	—	—	—		2	2			LC1D80008 ■	**489.00**	**524.00**
—	—	30	40	75	100	115	200	3	0	1	1	LC1D115	**479.00**	**479.00**
—	—	40	50	100	125	150		3				LC1D150	**696.00**	**696.00**
—	—	—	—	—	—	—		4		0	0	LC1D115004	**630.00**	**630.00**

▲ Complete catalog number with coil voltage code from table on page 18-6; example, LC1D09G7.
■ For DC version of these devices replace the 'C' with 'P' (ex. LC1D80004** becomes LP1D80004**). This applies only to 80A 4 pole devices.
♦ On LC1D09 - LC1D65A and LC1DT20 through LC1DT80A, for ring tongue versions add '6' to the catalog number prior to adding the voltage code (ex. LC1D09G7 becomes LC1D096G7 and LC1D50AG7 becomes LC1D50A6G7). No price adder for this modification.
★ On LC1D09 - LC1D65A, for spring terminals versions add '3' to the catalog number prior to adding the voltage code (ex. LC1D12G7 becomes LC1D123G7 and LC1D40AG7 becomes LC1D40A3G7 - Note that 40A to 65A spring terminals are only on the control terminations and not on power terminations). No price adder for this modification.
▼ On LC1D09 and LC1D12 only, for slip-on connector versions add "9" to the catalog number prior to adding the voltage code (ex. LC1D09G7 becomes LC1D099G7). No price adder for this modification.

Table 18.2: TeSys D Overload Relays — Ambient Compensated, Bi-Metallic Direct Mount

Current Setting Range Amperes	For Direct Mounting to LC1...	Class 10 with Single Phase Sensitivity	Class 10 without Single Phase Sensitivity	Class 20 with Single Phase Sensitivity	Class 20 without Single Phase Sensitivity	$ Price
0.10–0.16	D09–D32	LRD01	LR3D01	—	—	**60.00**
0.16–0.25		LRD02	LR3D02	—	—	
0.25–0.40		LRD03	LR3D03	—	—	
0.40–0.63		LRD04	LR3D04	—	—	
0.63–1		LRD05	LR3D05	—	—	
1–1.6		LRD06	LR3D06	—	—	
1.6–2.5		LRD07	LR3D07	—	—	
2.5–4		LRD08	LR3D08	LRD1508	LR3D1508A1	
4–6		LRD10	LR3D10	LRD1510	LR3D1510A1	
5.5–8	D09–D32	LRD12	LR3D12	LRD1512	LR3D1512A1	**62.00**
7–10	D09–D32	LRD14	LR3D14	LRD1514	LR3D1514A1	
9–13	D12–D32	LRD16	LR3D16	LRD1516	LR3D1516A1	
12–18	D18–D32	LRD21	LR3D21	LRD1521	LR3D1521A1	
16–24	D25–D32	LRD22	LR3D22	—	—	
17–25	D25–D32	—	—	LRD1522	LR3D1522A1	
23–32	D25–D32	LRD32	LR3D32	—	—	**73.00**
23–28	D25–D32	—	—	LRD1530	LR3D1530A1	
25–32	D25–D32	—	—	LRD1532	LR3D1532A1	
30–38	D32	LRD35	LR3D35	—	—	
9-13	D40A-D65A △	LRD313	LR3D313	LRD313L	—	**107.00**
12-18	D40A-D65A △	LRD318	LR3D318	LRD318L	—	
16-25	D40A-D65A △	LRD325	LR3D325	LRD325L	—	
23-32	D40A-D65A △	LRD332	LR3D332	LRD332L	—	
30-40	D40A-D65A △	LRD340	LR3D340	LRD340L	—	
37-50	D40A-D65A △	LRD350	LR3D350	LRD350L	—	
48-65	D40A-D65A △	LRD365	LR3D365	LRD365L	—	
17-25	D40-D80 □	LRD3322	LR3D3322	LR2D3522	LR3D3522	**107.00**
23-32	D40-D80 □	LRD3353	LR3D3353	LR2D3553	LR3D3553	
30-40	D40-D80 □	LRD3355	LR3D3355	LR2D3555	LR3D3555	
37-50	D50-D80 □	LRD3357	LR3D3357	LR2D3557	LR3D3557	
48-65	D50-D80 □	LRD3359	LR3D3359	LR2D3559	LR3D3559	
55–70	D65–D80	LRD3361	LR3D3361	LR2D3561	LR3D3561	**127.00**
63–80	D65–D80	LRD3363	LR3D3363	LR2D3563	LR3D3563	
80–104	D80	LRD3365	—	—	—	
80–104	D115–D150	LRD4365	—	—	—	**362.00**
95–120	D115–D150	LRD4367	—	—	—	
110–140	D150	LRD4369	—	—	—	

△ Overload relays with Everlink termination - direct mount to D40A to D65A only.
□ Direct mount to old D2 style D40 to D65 (no Everlink terminations) and to D80 only.

TeSys D contactor accessories . . . . . pages 18-8 to 18-11
TeSys D overload relay accessories . . . . . page 18-16
TeSys D replacement coils. . . . . pages 18-17 to 18-19
Dimensions. . . . . pages 18-40 to 18-46
TeSys T. . . . . pages 16-91

Table 18.3: TeSys D Overload Relays — Solid State

Current Setting Range Amperes	For Direct Mounting Beneath Contractor LC1	Class 10	Class 20	$ Price
60–100	D115–D150	LR9D5367	LR9D5567	**298.00**
90–150	D115–D150	LR9D5369	LR9D5569	**298.00**

Table 18.4: TeSys F 2-, 3-, and 4-Pole Contactors

LC1F115

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3				Maximum Current		Number of Poles	Catalog Number ▲	$ Price
200 V 208 V	220 V 240 V	460 V 480 V	575 V 600 V	AC-3	AC-1		Panel Mount with Screws	
HP	HP	HP	HP	A	A			
30	40	75	100	115	200	3	LC1F115	**479.00**
						4	LC1F1154	**630.00**
40	50	100	125	150	250	3	LC1F150	**696.00**
						4	LC1F1504	**825.00**
50	60	125	150	185	275	3	LC1F185	**938.00**
						4	LC1F1854	**1439.00**
Current Rated				225	315	3	LC1F225	**1059.00**
						4	LC1F2254	**1935.00**
60	75	150	175	265	350	3	LC1F265	**1179.00**
						4	LC1F2654	**1646.00**
75	100	200	250	330	400	3	LC1F330	**1621.00**
						4	LC1F3304	**1846.00**
100	125	250	300	400	500	2	LC1F4002	**1521.00**
						3	LC1F400	**1874.00**
						4	LC1F4004	**2133.00**
150	200	400	500	500	700	2	LC1F5002	**4324.00**
						3	LC1F500	**4970.00**
						4	LC1F5004	**5617.00**
250	300	600	800	630	1000	2	LC1F6302	**5917.00**
						3	LC1F630	**6474.00**
						4	LC1F6304	**7582.00**
Current Rated				780	1600	3	LC1F780	**7788.00**
						4	LC1F7804	**9940.00**
—	450	800	900	800	1000	3	LC1F800	**6676.00**

▲ Complete part number by adding coil voltage code from table below. For example: LC1F115G7. All contactors (except F780) include 1 N.O. coil interlock contact.

Table 18.5: TeSys F 3-Phase Overload Relays — Solid State Separate Mount ■

Current Setting Range Amps	For Direct Mounting to Contactor LC1●●●●	Class 10 Trip ♦ Catalog Number	Class 20 ♦ Catalog Number	$ Price
30–50	F115–F185	LR9F5357	LR9F5557	**298.00**
48–80	F115–F185	LR9F5363	LR9F5563	**298.00**
60–100	F115–F185	LR9F5367	LR9F5567	**298.00**
90–150	F115–F185	LR9F5369	LR9F5569	**298.00**
132–220	F185 ★ –F265	LR9F5371	LR9F5571	**298.00**
200–330	F265–F500	LR9F7375■	LR9F7575■	**333.00**
300–500	F265–F500	LR9F7379■	LR9F7579■	**737.00**
380–630	F400–F630	LR9F7381■	LR9F7581■	**905.00**

■ When mounting overload relays LR9F5●57 to LR9F5●71 directly beneath the contactor, supporting the relays with a mounting plate is recommended. With overload relays LR9F7●75 to LR9F7●81, use of a support mounting plate is mandatory.

♦ IEC standard 60947-4 specifies the following trip times when the overload relay senses 7.2 times the setting current:
Class 10 — between 4 and 10 seconds
Class 20 — between 6 and 20 seconds

★ Interconnection kit LA7F407 is required to mount an LR9F●71 to an LC1F185.

Table 18.6: Coil Voltage Codes ◊

Contactor	Hz	24 V	48 V	110 V	120 V	125 V	208 V	220 V	240 V	250 V	440 V	480 V	600 V
AC													
D09–D150	50/60	B7	E7	F7	G7	—	LE7	M7	U7	—	—	T7 ▼	X7 ▼△
LC1D80–LC1D150 only	60	B6	E6	F6	G6	—	L6	M6	U6	—	—	T6	X6 △
	50	B5	E5	F5	—	—	—	M5 ▼	U5	—	—	—	—
F115, F150, and F185	50	B5	E5	F5	—	—	—	M5	U5	—	—	—	—
	60	B6	E6	F6	G6	—	L6	M6	U6	—	—	Q5	SC
F265, and F330	40–400	B7	E7	F7	G7	—	L7	M7	U7	—	—	S7☆	X7
F400— F780	40–400	—	E7	F7	G7	—	L7	M7	U7	—	—	N7	X7 □
DC													
D09-D32, DT20-D258 Low Consumption	—	BL	EL	FL	—	—	—	ML	—	UL	—	—	—
D09–D150	—	BD	ED	FD	—	GD	—	MD	—	UD	RD	—	—
F115-F330	—	BD	ED	FD	—	GD	—	MD	—	UD	RD	—	—
F400–F780	—	—	ED	FD	—	GD	—	MD	—	UD	RD	—	—

▼ Not available for LC1D80 - LC1D150
△ Not available for LC1D115 or LC1D150
□ Not available for LC1F780. The 600 V coils for the LC1F400 - LC1F630 do not include an auxiliary contact for holding circuits.
◊ For additional voltage codes refer to the IEC Contactor and Starter Catalog **8502CT9901**.
☆ For use with F265—F330 only.

Table 18.7: Coil Voltage Codes for AC and DC Voltages for F800 (includes built-in surge suppressor)

Volts AC/DC	24	48	110	120	127	208	220	240	277	380	415	440	480	575	600	660
50/60 HZ	—	—	FW	FW	FW	—	MW	MW	—	QW	QW	QW	—	—	—	—

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Dimensions . . . . . pages 18-42 to 18-49

E164862
CCN NLDX

LR43364
Class 3211 04

Front Mounted Auxiliary Blocks (shown on TeSys D contactor)

Table 18.15: Standard, instantaneous auxiliary contact blocks

Snap-On Mounting	Number of Contacts	Composition N.O.	Composition N.C.	Catalog Number ▲	$ Price
To front of LC●DT20–D258 (4P), LC●D09–D150▲ or **To right side of** LC●F	4 ▲	2	2	LADN22 ■	**41.50**
		1	3	LADN13 ■	**41.50**
		4	0	LADN40 ■	**41.50**
		0	4	LADN04 ■	**41.50**
		3	1	LADN31 ■	**41.50**
		2 ♦	2 ♦	LADC22 ■ ♦	**41.50**
	2	1	1	LADN11 ■	**20.70**
		2	0	LADN20 ■	**20.70**
		0	2	LADN02 ■	**20.70**
To front of LC●D80 and D115 or **To left side of** LC●F	1	1	0	LADN10 ★	**13.10**
		0	1	LADN01 ★	**13.10**
To side of LC●D09 to D150 only (not for use on TeSys F)	2	1	1	LAD8N11 ▼	**20.70**
		2	0	LAD8N20 ▼	**20.70**

▲ For low consumption coils (LC1D09 to D32 only), only one front-mounted two-contact block allowed. No side-mounted contact blocks allowed.

■ For spring terminal versions of these blocks, add a "3" to the end of the catalog number. (Ex. LADN223). No price adder for this modification.

♦ Including 1 N.O. + 1 N.C. make before break overlapping contacts.

★ This block cannot be added to the LC1D 09 to D32 contactors; a maximum of 2 blocks can be mounted on the LC1D40A to LC1/LP1D80 contactors only.

▼ 1 block may be added to the left side of the LC1D 09 to D32, AC coils only; 1 block may be added to each side of the LC1D 40A to D80 contactors, AC coils only. Cannot be installed on TeSys D contactors with DC coils.

Table 18.16: Instantaneous blocks with dust-tight auxiliary contacts (IP54) NEMA 12

Snap-On Mounting	Standard Contacts N.O.	Standard Contacts N.C.	Dusttight Contacts N.O.	Dusttight Contacts N.C.	Catalog Number	$ Price
To front of LP●D40–D80, LC●DT20–D258 (4P), LC●D09 to D80 or **To right side of** LC●F	—	—	2	—	LA1DX20	**65.00**
	2	—	2	—	LA1DZ40	**82.00**
	1	1	2	—	LA1DZ31	**82.00**
	—	—	2	—	LA1DY20△	**77.00**

△ Device supplied with 4 ground terminal points.

Table 18.17: Pneumatic time delay contact blocks

Snap-On Mounting	Time Delay Contacts N.O.	Time Delay Contacts N.C.	Type	Range of Time Delay	Catalog Number ◊	$ Price
To front of LP●D40–D80, LC●DT20–D258 (4P), LC●D09 to D150 or **To right side of** LC●F	1	1	On energization (on delay)	0.1 to 3 s□	LADT0	**131.00**
				0.1 to 30 s	LADT2	**131.00**
				10 to 180 s	LADT4	**131.00**
				1 to 30 s☆	LADS2	**131.00**
	1	1	On de-energization (off-delay)	0.1 to 3 s□	LADR0	**131.00**
				0.1 to 30 s	LADR2	**131.00**
				10 to 180 s	LADR4	**131.00**

□ Scale range is expanded between 0.1 and 0.6 seconds on the dial for more accurate settings at the lower end of the range.

◊ For spring terminal versions of these blocks, add a "3" to the end of the catalog number. (Ex. LADT23). No price adder for this modification.

☆ With switching time of 40 ms ± 15 ms between the opening of the N.C. contact to the closing of the N.O. contact.

Table 18.18: Mechanical latch blocks with manual or electrical unlatch (TeSys D only)

Front snap-on mounting onto	Application	Catalog number to be completed by the code corresponding to the coil voltage	$ Price
LC●D09 to D65A	For silent operation and energy conservation	LAD6K10▽◒	**77.00**
LC1 D80 to D150 LP1 D80	For silent operation and energy conservation	LA6DK20▽◒	**77.00**

▽ Does not include internal coil clearing contact.

◒ Complete catalog number by adding coil voltage code. For example: LAD6K10F.

Table 18.19: Coil Voltage Codes for LA6DK mechanical latch blocks

Volts	12	24	32/36	42/48	60/72	100	110/127	200/208	220/240	380/415	440/480	500/600
AC or DC	J	B	C	E	EN	K	F	L	M	Q	R	S

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E164862
CCN NLDX

LR43364
Class 3211 04

RC Coil Suppressor

LA4DA1U

- Limitation of transient voltage to 300% of nominal voltage maximum
- Oscillating frequency limited to 400 Hz maximum. Slight increase in drop-out time (1.2 to 2 times normal)

Table 18.20: Resistor/capacitor circuit (RC) for reduction of "electrical noise" in AC contactor coils

Installed by	Mounting on	Operating voltage 50/60 Hz	Catalog Number	$ Price
Snapping into cavity on right side without tools■	LC1D09 to LC1D32 (3P) LC●DT20 to DT40 (4P),	24–28 V	LAD4RCE	26.20
		50–127 V	LAD4RCG	26.20
		110–240 V	LAD4RCU	26.20
Snap-on mounting and connection without tools to the contactor coil terminals	LC1D40A to LC1D65A (3P), LC1DT60A to LC1DT80A (4P)	24-48 V	LAD4RC3E	26.20
		50-127 V	LAD4RC3G	26.20
		110-240 V	LAD4RC3U	26.20
		380-415 V	LAD4RC3N	26.20
Screw connection to the contactor coil terminals	LC●D80 to D150 (3 or 4P) LC●D80 to D115 (4P)	24–48 V	LA4DA2E	26.20
		50–127 V	LA4DA2G	26.20
		110–240 V	LA4DA2U	26.20
		380–415 V	LA4DA2N	26.20

Varistor Coil Suppressor

LA4DA2U

- Limitation of transient voltage value to 200% of nominal voltage maximum
- Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times normal)

Table 18.21: Varistor (peak limiting) for reduction of "electrical noise" in AC or DC contactor coils

Installed by	Mounting on	Operating voltage 50/60 Hz	Catalog Number	$ Price
Snapping into cavity on right side without tools■	LC●D09 to D32▲ TeSys D contactors	24–48 V	LAD4VE	26.20
		50–127 V	LAD4VG	26.20
		110–250 V	LAD4VU	26.20
Snap-on mounting and connection without tools to the contactor coil terminals	LC1D40A to LC1D65A (3P), LC1DT60A to LC1DT80A (4P)	24-48 V	LAD4V3E	26.20
		50-127 V	LAD4V3G	26.20
		110-250 V	LAD4V3U	26.20
Screw connection to the contactor coil terminals	LC●D80 to D115 (3P or 4P) LC●D12, D25 (4P)	24–48 Vac	LA4DE2E	26.20
		50–127 Vac	LA4DE2G	26.20
		110–250 Vac	LA4DE2U	26.20
Screw connection to the contactor coil terminals	LC●D80 (3P or 4P)	24–48 Vdc	LA4DE3E	26.20
		50–127 Vdc	LA4DE3G	26.20
		110–250 Vdc	LA4DE3U	26.20

▲ For DC coils 3-pole contactors are fitted with built-in surge suppression as standard.

Diode Coil Suppressor

LA4DC3U

- No overvoltage or oscillating frequency
- Polarized component. Increased drop-out time (6 to 10 times normal)

Table 18.22: Diode for reduction of "electrical noise" in DC contactor coils

Installed on the upper part by	Mounting on	Operating voltage DC	Catalog Number	$ Price
Snap-on mounting and connection w/o tools to the contactor coil terminals	LC●D09 - D32	24–250 V	LAD4DDL	26.20
Clip-on front mounting	LC●D40A to D65, D65A to DT80A	24–250 V	LAD4D3U	26.20
Screw connection of wire to the contactor coil terminals	D80 (3P) D80 (4P)	24–250 V	LA4DC3U	26.20

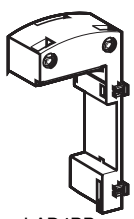
Bidirectional Diode Coil Suppressor

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

Table 18.23: Bidirectional peak limiting diode

Installed by	Mounting on	Operating Voltage 50/60 Hz and DC	Catalog Number	$ Price
Snapping into cavity on right side of contactor ■	LC●D09 to LC●D32 (3P) ♦ DT20 to DT40 (4P)	24 (AC only)	LAD4TB	26.20
		72 (AC only)	LAD4TS	26.20
Clip-on front mounting and connection without tools to the contactor coil terminals ♦	LC1D40A to LC1D65A (3P), LC1DT60A to LC1DT80A (4P)	12 - 24 V	LAD4T3B	26.20
		25 - 72 V	LAD4T3S	26.20
		73 - 125 V	LAD4T3G	26.20
		126 - 250 V	LAD4T3U	26.20
		251 - 440 V	LAD4T3R	26.20
Screw Mounting ★	LC●D80	24 (AC only)	LA4DB2B	56.00
		72 (AC only)	LA4DB2S	26.20
		24 (DC only)	LA4DB3B	56.00
		72 (DC only)	LA4DB3S	56.00

■ Installing suppressor into the cavity makes the electrical connection. Overall width of contactor remains the same.
♦ For LC●D09 through LC●D65A with DC or low consumption DC coils, 3-pole contactors are fitted with built-in bidirectional diode suppression as standard.
★ Mounting at the top of the contactor on coil terminals A1 and A2.



LAD4BB••

Table 18.24: Cabling Accessories

Usage	Mounting on	Operating voltage 50/60 Hz		Catalog Number	$ Price
For adapting existing wiring to a new product or for use with top mount accessory.	LC1D09 to D38 LC1DT20 to DT60 AC only	Without coil suppression		LAD4BB	23.00
		With coil suppression (varistor)	24-48 V	LAD4BBVE	23.00
			50-127 V	LAD4BBVG	23.00
			110-250 V	LAD4BBVU	23.00
For adapting existing wiring to a new product or for use with top mount accessory	LC1D40A to LC1D65A (with no coil suppressor)	—		LAD4BB3	26.20

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Dimensions . . . . . pages 18-40 to 18-46

The following accessories require use of cabling accessories (LAD4BB●●) for proper mounting. See page 18-9 for illustration.

Electronic Serial Timer Modules

These solid state modules delay the energizing and de-energizing of the contactor coil.

Table 18.25:

Type	Operational Voltage ▲		Time Delay	Catalog Number	$ Price
	24–250 Vac	100–250 Vac			
On-delay	LC1D09–D65A	LC1D80–D150	0.1–2 s	LA4DT0U	82.
			1.5–30 s	LA4DT2U	82.
			25–500 s	LA4DT4U	82.

▲ For 24 V operation, the contactor must be fitted with a 21 V coil: coil voltage code Z5 for 50 Hz; Z6 for 60 Hz; ZD for DC.

Interface Modules ■

These modules allow the contactor coils to be energized from low voltage and low current level signals. They come in mechanical relay and solid state versions. The relay plus manual operation versions include a lever for manually turning the contactor on and off. When a module receives a low level signal, it allows the separate sourced control voltage to flow to the contactor coil. It saves space and wiring time compared to conventional interposing relays.

LA4DFB

Table 18.26:

Interface Type	Operational Voltage		Input Voltage	Catalog Number	$ Price
	24–250 Vac	100–250 Vac			
Relay	LC1D09–D150		24 Vdc	LA4DFB	55.
	LC1D09–D150		48 Vdc	LA4DFE	55.
Relay Plus Manual Operation	LC1D09–D150		24 Vdc	LA4DLB	71.
	LC1D09–D150		48 Vdc	LA4DLE	71.
Solid State	LC1D09–D65	LC1D80–D115	24 Vdc	LA4DWB	71.

■ Adapter required for D09 - D65A, see table 18.24.

Automatic-Manual-Stop Control Modules

These modules allow for local and/or remote operation of the contactor coil. Each module includes a lever to switch from automatic to manual operation and a dial to turn the contactor on and off.

Table 18.27:

Operational Voltage		Catalog Number	$ Price
24–100 Vac	100–250 Vac		
LC1D09–D150	—	LA4DMK	35.

Low Voltage Ride Through Module (meets SEMI F47 requirements)

By ensuring SEMI F47 compliance of AC powered IEC contactors and relays, the low voltage ride through modules can be used to increase the voltage sag immunity of semiconductor processing equipment. These modules make it possible for AC powered Telemecanique contactors and relays to exceed the requirements of SEMI F47, both in the magnitude and duration of a voltage sag event—even with accessories such as auxiliary contact blocks and pneumatic timers.

The low voltage ride through modules can be used with Telemecanique contactors from 9 A through 80 A, as well as the CAD series of control relays

Table 18.28:

For use on:		Catalog Number	$ Price
Contactor	Relay		
LC1D●●B7	CAD●●B7	LADLVRT24V ♦	124.
LC1D●●G7	CAD●●G7	LADLVRT120V ♦	124.
LC1D●●LE7	CAD●●LE7	LADLVRT208V ♦	124.
Top mount bracket (**required** when using above modules) D09 - D32		LAD4BB ♦	23.
Top mount bracket (**required** when using above modules) D40 - D65		LAD4BB3 ♦	23.
Fuse		LA9D941	120.

♦ LAD4BB must be used when the low voltage ride through module is being used with contactors 32 A and less, and TeSys CAD Series of Control Relays. The LAD4BB3 must be used with the D40 - D65A. See table 18.24 on page 18-10.

TeSys D contactors . . . . . .pages 18-4, 18-6
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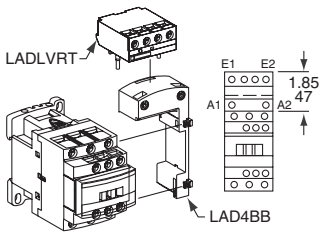
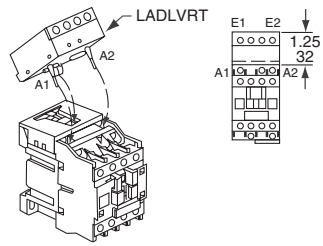
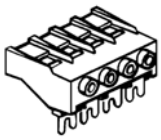
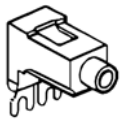


Contactors 32 A and less



Contactors 40 A–80 A


LA9D1260


LA9D2561


LA9D40961


LA9D6567

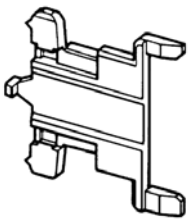

LA9D511

Table 18.29: For Power Pole or Control Connection

Description			For use with contactors LC1/LP1	Sold in lots of	Catalog Number	$ Price each
Connectors for larger cable sizes	4 poles	#8 AWG (10 mm²)	D09, D12	1	LAD92560	**8.70**
	3 poles	#4 AWG (25 mm²)	D09–D32	1	LA9D3260	**12.00**
Everlink® terminal block	3 poles		D40A-D65A	1	LAD96560	**10.00**
Links for the parallel connection of	2 poles		D09–D32	10	LA9D2561	**26.20**
			D40A–D65A	1	LAD9P32	**6.00**
			D80	2	LA9D80961	**6.50**
			F115	4	LA9FF602	**55.00**
			F150, F185	4	LA9FG602	**65.00**
			F265, F330, F400	4	LA9FH602	**169.00**
			F500	4	LA9FK602	**228.00**
			F630, F800	4	LA9FL602	**278.00**
	3 poles (Wye-Delta Shorting Strap)		D09–D32	10	LAD9P3	**10.00**
			D40A-D65A	1	LAD9P33	**25.00**
			D80	1	LA9D80962	**6.50**
			F115	1	LA9FF601	**6.80**
			F150, F185	1	LA9FG601	**8.20**
			F265, F330, F400	1	LA9FH601	**12.00**
			F500	1	LA9FK601	**21.80**
			F630, F800	1	LA9FL601	**38.20**
	4 poles		DT20, DT25	2	LA9D1263	**8.70**
			D80	2	LA9D80963	**17.50**
Second coil connection			LP1D40–D80	10	LA9D09966	**2.20**
Control circuit take-off from main pole			D115, D150	10	LA9D11567	**4.00**
			D80	10	LA9D8067	**5.50**
Spreaders for increasing pole pitch to 45 mm			D115, D150	3	GV7AC03	**31.10**

Table 18.30: For Marking

Description	For use with contactors LC1/LP1	Sold in lots of	Catalog Number	$ Price each
Reference label holder snap-on 8 x 22 mm	4-pole contactors D80 - D115	100	LA9D92	**.06**
Reference label holder snap-on 8 x 18 mm 3 poles	D09-D65A, DT20-DT80A, LADN, LADT, LADR	100	LAD90	**.06**
Sheet of 300 labels self adhesive 7 x 21 mm	For holder LA9D92	1	LA9D93	**4.30**

Table 18.31: For Mounting

Description	For use with contactors LC1/LP1	Sold in lots of	Catalog Number	$ Price each
Set of shims for mounting LAD8N and LA8DN	D80	1	LA9D511	**9.80**
Retrofit plate for replacement of LC1D40-D65 with LC1D40A-D65A	D40A-D65A	1	LAD7X3	**25.00**
35 mm DIN Rail – 2 meters long	LC1D09 to D80	10	AM1DP200	**5.20**

Table 18.32: Replacement contacts

	For use with contactors		Catalog Number	$ Price
Three-pole	LC1D115	3 poles	LA5D1158031	**239.00**
	LC1D150	3 poles	LA5D150803	**239.00**
Four-pole	LC1D115	4 poles	LA5D115804	**318.00**

Table 18.33: Arc chambers

	For use with contactors		Catalog Number	$ Price
Three-pole	LC1D115	3 poles	LA5D11550	**90.00**
	LC1D150	3 poles	LA5D15050	**90.00**
Four-pole	LC1D115	4 poles	LA5D115450	**119.00**

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TeSys D overload relay accessories. . . . . .page 18-16
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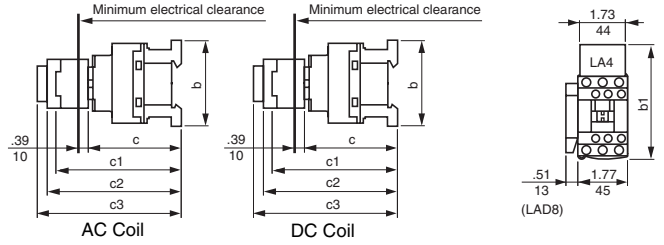
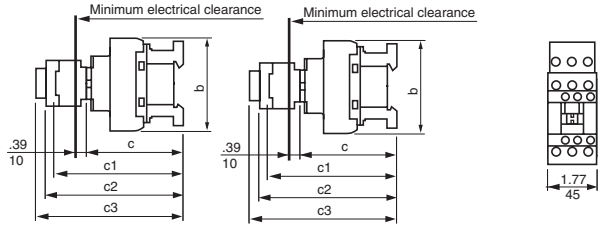
TeSys F contactors . . . . . pages 18-5, 18-7
TeSys F replacement coils and parts . . . . . pages 18-13, 18-18, 18-20

Table 18.154: TeSys D Contactors AC Control Circuits

LC1D09 to D18 (3-pole) and LC1DT12 to LC1DT40 (4 pole)



LC1D25 to D38 (3-pole)

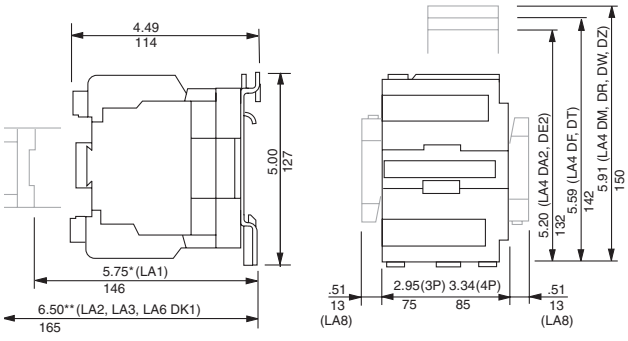


LC1		D09 to D18	D093 to D18	D099 to D189	D25 to D38	D183 and D323	DT20 and DT25	DT203 and DT253	DT32 to DT40	DT323 and DT403
		IN (mm)	IN (mm)	IN (mm)	IN (mm)	IN (mm)	IN (mm)	IN (mm)	IN (mm)	IN (mm)
b	AC coil, without add-on accessories	3.03 (77)	3.89 (99)	3.14 (80)	3.36 (85)	3.89 (99)	3.34 (85)	3.89 (99)	3.58 (91)	4.13 (105)
	DC coil									
b1	AC coil, with LAD4BB ■	3.70 (94)	4.21 (107)	3.75 (95.5)	3.85 (98)	4.21 (107)	3.85 (98)	—	—	—
	AC coil, with LA4D*2 ■	4.33 (110) ▲	4.84 (123) ▲	4.30 (111.5) ▲	4.48 (114) ▲	4.84 (123) ▲	4.48 (114)	—	—	—
	AC coil, with LA4DF, DT ■	4.68 (119) ▲	5.19 (132) ▲	4.76 (120.5) ▲	4.84 (123) ▲	5.19 (132) ▲	5.02 (129)	—	—	—
	AC coil, with LA4DR, DW, DL ■	4.96 (126) ▲	5.67 (139) ▲	5.0 (127.5) ▲	5.11 (130) ▲	5.47 (139) ▲	7.48 (190)	—	—	—
c	AC coil, without cover or add-on blocks	3.30 (84)	3.30 (84)	3.30 (84)	3.54 (90)	3.54 (90)	3.54 (90)	3.54 (90)	3.85 (98)	3.85 (98)
	AC coil, with cover, without add-on blocks	3.38 (86)	3.38 (86)	3.38 (86)	3.62 (92)	3.62 (92)	3.62 (92)	3.62 (92)	3.93 (100)	3.93 (100)
	DC coil, without cover or add-on blocks	3.66 (93)	3.66 (93)	3.66 (93)	3.89 (99)	3.89 (99)	—	—	—	—
	DC coil, with cover, without add-on blocks	3.76 (95)	3.76 (95)	3.76 (95)	3.97 (101)	3.97 (101)	3.90 (99)	3.90 (99)	4.21 (107)	4.21 (107)
c1	AC coil, with LADN or C (two or four contacts)	4.60 (117)	4.60 (117)	4.60 (117)	4.84 (123)	4.84 (123)	4.84 (123)	4.84 (123)	5.15 (131)	5.15 (131)
	DC coil, with LADN or C (two or four contacts)	4.96 (126)	4.96 (126)	4.96 (126)	5.19 (132)	5.19 (132)	4.84 (123)	4.84 (123)	5.15 (131)	5.15 (131)
c2	AC coil, with LAD6K10	5.07 (129)	5.07 (129)	5.07 (129)	5.31 (135)	5.31 (135)	5.31 (135)	5.31 (135)	5.62 (143)	5.62 (143)
	DC coil, with LAD6K10	5.43 (138)	5.43 (138)	5.43 (138)	5.66 (144)	5.66 (144)	5.31 (135)	5.31 (135)	5.62 (143)	5.62 (143)
c3	AC coil, with LADT,R,S	5.39 (137)	5.39 (137)	5.39 (137)	5.62 (143)	5.62 (143)	5.62 (143)	5.62 (143)	5.94 (151)	5.94 (151)
	AC coil, with LADT,R,S and sealing cover	5.55 (141)	5.55 (141)	5.55 (141)	5.78 (147)	5.78 (147)	5.78 (147)	5.78 (147)	6.10 (155)	6.10 (155)
	DC coil with LADT,R,S	5.76 (146)	5.76 (146)	5.76 (146)	5.98 (152)	5.98 (152)	5.62 (143)	5.62 (143)	5.94 (151)	5.94 (151)
	DC coil with LADT,R,S and sealing cover	5.90 (150)	5.76 (146)	5.76 (146)	6.14 (156)	6.14 (156)	5.78 (147)	5.78 (147)	6.10 (155)	6.10 (155)

▲ Including LAD4BB
■ Not applicable to devices with DC coils

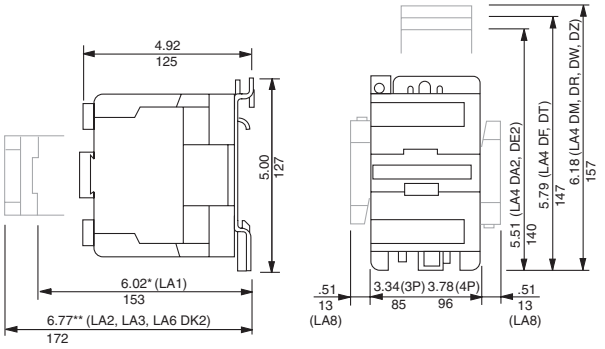
Table 18.155: AC Coil

LC1D40, D50, D65 (3P), LC1D65004 (4P)



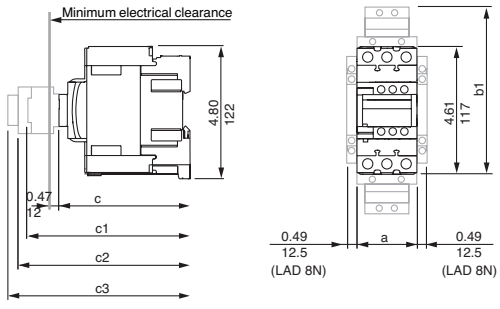
*except LA1DN10, DN01 = 136
** +4 mm with lead sealing device

LC1D80004 (4P)



*except LA1DN10, DN01 = 136
** +4 mm with lead sealing device

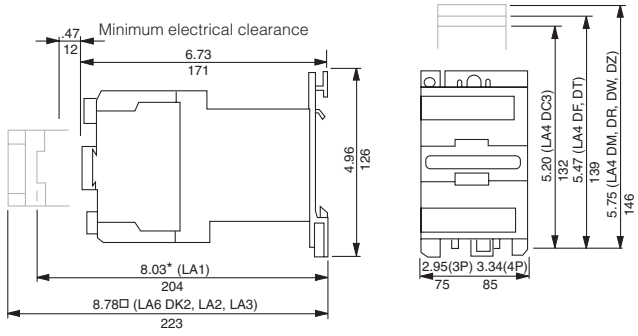
LC1 D40A…D65A (3P), LC1 DT60A…DT80A (4P) AC OR DC



LC1		D40A…D65A	DT60A…DT80A	D40008
		IN (mm)	IN (mm)	IN (mm)
a		2.17 (55)	2.76 (70)	3.35 (85)
b1	with LA4 D•2	—	—	5.31 (135)
	with LA4 DB3 or LAD 4BB3	5.35 (136)	—	—
	with LA4 DF, DT	6.18 (157)	—	5.59 (142)
	with LA4 DM, DW, DL	6.54 (166)	—	5.91 (150)
c	without cover or add-on blocks	4.65 (118)	4.65 (118)	4.92 (125)
	with cover, without add-on blocks	4.72 (120)	4.72 (120)	—
c1	with LAD N (1 contact)	—	—	5.47 (139)
	with LAD N or C (2 or 4 contacts)	5.91 (150)	5.91 (150)	5.79 (147)
c2	with LAD 6K10 or LA6 DK	6.42 (163)	6.42 (163)	6.26 (159)
c3	with LAD T, R, S	6.73 (171)	6.73 (171)	6.57 (167)
	with LAD T, R, S and sealing cover	6.89 (175)	6.89 (175)	6.73 (171)

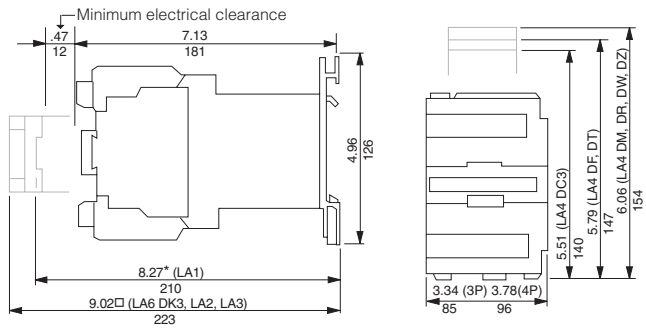
Table 18.156: DC Coil

LC1D40, D50, D65 (3P), LC1D650004, (4P)



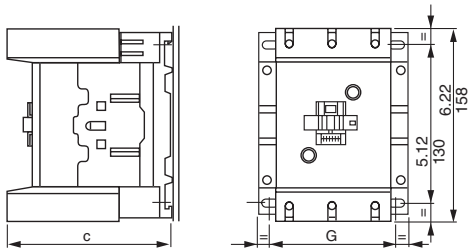
*except LA1DN10, DN01 = 136
□ + 4 mm with lead sealing device

LC1D80 (3P), LC1D800004(4P)



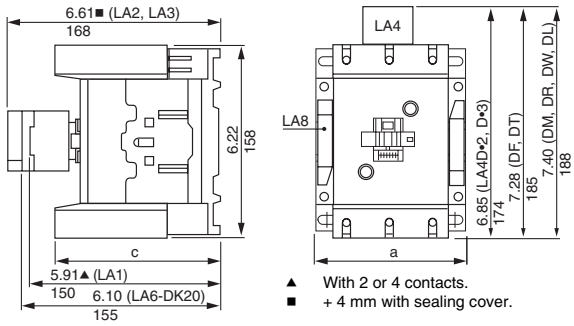
*except LA1DN10, DN01 = 143
□ + 4 mm with lead sealing device

LC1D115, D150
Panel mounted with 1/4" screws



LC1	D115	D1156	D150	D1506
c	5.12 (132)	4.53 (115)	5.12 (132)	4.53 (115)
G (3-poles)	3.78/4.33 (96/110)	3.78/4.33 (96/110)	3.78/4.33 (96/110)	3.78/4.33 (96/110)
G (4-poles)	5.12/5.67 (130/144)	5.12/5.67 (130/144)	—	—

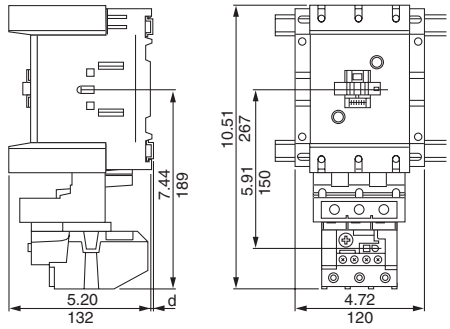
LC1D115, D150



▲ With 2 or 4 contacts.
■ + 4 mm with sealing cover.

LC1	C	A
D115, D150	5.12 (132)	4.72 (120)
D115004	5.12 (132)	6.10 (155)
D1156, D1506	4.53 (115)	4.72 (120)
D1150046	4.53 (115)	6.10 (155)

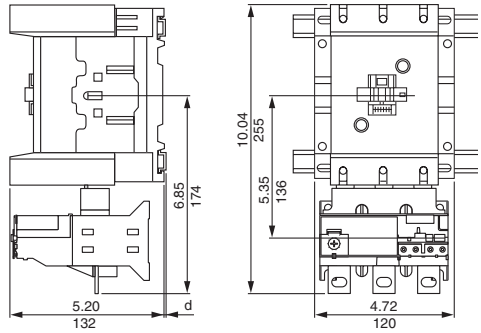
LR2D4 bimetallic overload relay
Direct mounting beneath contactors
LC1D115 and D150



35 mm DIN rail dimensions

	AM1DP200 and DR200	AM1DE••• and ED•••
d	0.10 (2.5)	.41 (10.5)

LR9D solid-state overload relay
Direct mounting beneath contactors
LC1D115 and D150



35 mm DIN rail dimensions

	AM1DP200 and DR200	AM1DE••• and ED•••
d	0.10 (2.5)	.41 (10.5)

Note: All dimensions are in Inches (mm).