

TeSys D

Contactors

0.06...75 kW



Connections

screw clamp terminals or connectors

Rated operational voltage		690 V					
Rated operational current	Ie max AC-3 (Ue ≤ 440 V)	9 A	12 A	18 A	25 A	32 A	38 A
	Ie AC-1 (θ ≤ 60° C)	25 A		32 A	40 A	50 A	
Rated operational power in category AC3	220/240 V	2.2 kW	3 kW	4 kW	5.5 kW	7.5 kW	9 kW
	380/400 V	4 kW	5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW
	415/440 V	4 kW	5.5 kW	9 kW	11 kW	15 kW	18.5 kW
	500 V	5.5 kW	7.5 kW	10 kW	15 kW	18.5 kW	18.5 kW
	660/690 V	5.5 kW	7.5 kW	10 kW	15 kW	18.5 kW	18.5 kW
	1000 V	—	—	—	—	—	—
Contactor type *		LC1D09	LC1D12	LC1D18	LC1D25	LC1D32	LC1D38
Reversing contactor type * with mechanical interlock		LC2D09	LC2D12	LC2D18	LC2D25	LC2D32	LC2D38

spring terminals (1)

Add the figure 3 before the voltage code. Example: **LC1D09P7** becomes **LC1-093P7**

lug-clamps (2)

Add the figure 6 before the voltage code. Example: **LC1D09P7** becomes **LC1-096P7**

Faston connectors (3) 2 x 6.35 (power) and 1 x 6.35 (control) up to D12 only

Add the figure 9 before the voltage code. Example: **LC1D09P7** becomes **LC1-099P7**

* Basic reference to be completed by adding the coil voltage code



(1)



(2)



(3)

Standard control circuit voltages

~ supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
Contactors LC1D09...D150 (coils D115 and D150 with integral suppression device fitted as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
Contactors LC1D80...D115													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	-	E6	F6	-	M6	-	U6	Q6	-	-	R6	-

— supply

Volts	12	24	36	48	60	72	110	125	220	250	440		
Contactors LC1D09...D65A (coils with integral suppression device fitted as standard)													
U 0.75...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
Contactors LC1D80...D95													
U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
U 0.75...1.2 Uc	JW	BW	CW	EW	-	SW	FW	-	MW	-	-		
Contactors LC1D115 and D150 (coils with integral suppression device fitted as standard)													
U 0.75...1.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD		

Low consumption

Contactors **LC1D09...D38** (coils with integral suppression device fitted as standard)

Volts —	5	12	20	24	48	110	120	250					
U 0.7...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

Example of complete reference: **LC1D09P7**



690 V			1000 V on ~ supply, 690 V on ≡ supply			
40 A	50 A	65 A	80 A	95 A	115 A	150 A
60 A	80 A	80 A	125 A		200 A	
11 kW	15 kW	18.5 kW	22 kW	25 kW	30 kW	40 kW
18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
22 kW	25 kW	30 kW	45 kW	45 kW	59 kW	80 kW
22 kW	30 kW	37 kW	55 kW	55 kW	75 kW	90 kW
30 kW	33 kW	37 kW	45 kW	45 kW	80 kW	100 kW
–	–	–	45 kW	45 kW	75 kW	90 kW
LC1D40A	LC1D50A	LC1D65A	LC1D80	LC1D95	LC1D115	LC1D150
LC2D40A	LC2D50A	LC2D65A	LC2D80	LC2D95	LC2D115	LC2D150

Mounting accessories for 3-pole reversing contactors

2 identical contactors with screw clamp terminals or connectors, horizontally mounted

Mechanical interlock	Set of connections	Mechanical interlock
■ with an electrical interlocking kit for the contactors		
LC1-D09...D38	LAD-9R1V	included
■ with integral electrical interlocking		
LC1-D80 and D95 (~)	LA9D8069	LA9D4002
LC1-D80 and D95 (≡)	LA9D8069	LA9D8002
LC1-D115 and D150	LA9D11569	LA9D11502
■ without electrical interlocking		
LC1-D09...D38	LA99R1	included
LC1-D40A...D65A	LAD9R3	included
LC1-D80 and D95 (~)	LA9D8069	LA9D50978
LC1-D80 and D95 (≡)	LA9D8069	LA9D80978



Mechanical latch blocks

Clip-on front mounting, manual or electrical unlatching control

For use on contactor	Reference	Standard control circuit voltages
LC1D09...D65A ~ or ≡, LC1DT20...DT80 ~ or ≡	LAD6K10•	B E F M Q
LC1D80...D150 3P ~, LC1D80 and D115 3P ~, LC1D115 4P ≡	LA6DK20•	B E F M Q



Contact type			instantaneous, connection by screw terminals	
Block mounting			Front mounting	Side mounting
References	Contact	1 NO	LADN10	–
		1 NC	LADN01	–
		1 NO + 1 NC	LADN11	LAD8N11
		2 NO	LADN20	LAD8N20
		2 NC	LADN02	LAD8N02
		2 NO + 2 NC	LADN22	–
		1 NO + 3 NC	LADN13	–
		3 NO + 1 NC	LADN31	–
		4 NO	LADN40	–
		4 NC	LADN04	–



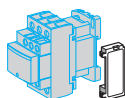
Contact type			Time delay, connection by screw terminals		
Block mounting			Front mounting		
Temporisation			0.1...3 s	0.1...30 s	10...180 s
References		On-delay	LADT0	LADT2	LADT4
		Off-delay	LADR0	LADR2	LADR4

Maximum number of auxiliary contacts that can be fitted

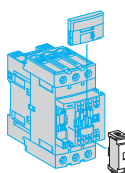
Type	Number of poles and size		Instantaneous						Time delay
			Side mounting			Front mounting			Front mounting
			on left side	on right side		1 contact	2 contacts	4 contacts	
AC	3P	LC1D09...D38	1	–	and	–	1	or 1	or 1
		LC1D40A...D65A	1	or 1	and	–	1	or 1	or 1
		LC1D80...95 (50/60 Hz)	1	1	or	2	and 1	or 1	or 1
		LC1D80...95 (50 or 60 Hz)	1	1	and	2	and 1	or 1	or 1
		LC1D115 and D150	1	–	and	–	1	or 1	or 1
	4P	LC1DT20...DT40	1	–	and	–	1	or 1	or 1
		LC1DT60A...D80A	1	or 1	and	–	1	or 1	or 1
DC	3P	LC1D115	1	1	and	1	or 1	or 1	or 1
		LC1D09...D38	–	–		–	1	or 1	or 1
		LC1D40A...D65A	1	or 1	and	–	1	or 1	or 1
		LC1D80 and 95	–	–		1	or 1	or 1	or 1
	4P	LC1D115 and D150	1	–	and	–	1	or 1	or 1
		LC1DT20...DT40	–	–		–	1	or 1	or 1
		LC1DT60A...D80A	–	–		–	1	or 1	or 1
DC low consumption	3P	LC1D115	1	1		–	and 1	or 1	or 1
	4P	LC1D09...D38	–	–		–	1	–	–
		LC1DT20...DT40	–	–		–	1	–	–

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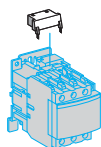
Contactor Suppressor modules



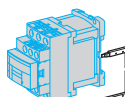
Type of module			RC circuits (Resistor-Capacitor)			
Mounting			Side clip-on	Front clip-on	Screw fixing	
For use with contactor			D09...D38(3P) DT20...DT40(4P)	D40A...D65A(3P) DT60A...DT80A(4P)	D80...D150(3P) D40...D115(4P)	
References	Voltage	24...48 VAC	LAD4RCE	LAD4RC3E	LA4DA2E	
		50...127 VAC	LAD4RCG	LAD4RC3G	LA4DA2G	
		110...240 VAC	LAD4RCU	LAD4RC3U	LA4DA2U	
		380...415 VAC	–	LAD4RC3N	LA4DA2N	



Type of module			Varistors (peak limiting)			
Mounting			Side clip-on	Front clip-on	Screw fixing	
For use with contactor			D09...D38(3P) DT20...DT40(4P)	D40A...D65A(3P) DT60A...DT80A(4P)	D80...D150(3P) D40...D115(4P)	
References	Voltage	24...48 VAC	LAD4VE	LAD4V3E	LA4DE2E	
		50...127 VAC	LAD4VG	LAD4V3G	LA4DE2G	
		110...240 VAC	LAD4VU	LAD4V3U	LA4DE2U	
		24...48 VDC	–	–	LAD4DE3E (AC and DC)	
		50...127 VDC	–	–	LAD4DE3G (AC and DC)	
		110...240 VDC	–	–	LAD4DE3U (AC and DC)	



Type of module			Flywheel diodes			
Mounting			Side clip-on	Front clip-on	Screw fixing	
For use with contactor			D09...D38(3P) DT20...DT40(4P)	D40A...D65A(3P) DT60A...DT80A(4P)	D80...D150(3P) D40...D115(4P)	
References	Voltage	24...250 VDC	LAD4DDL	LAD4D3U	LAD4DC3U	



Type of module			Bidirectional peak limiting diode			
Mounting			Side clip-on	Front clip-on	Screw fixing	
For use with contactor			D09...D38(3P) DT20...DT40(4P)	D40A...D65A(3P) DT60A...DT80A(4P)	D80...D150(3P) D40...D115(4P)	
References	Voltage	24 VAC	LAD4TB	LAD4T3B	LA4DB2B	
		24 VDC	LAD4TBDL	LAD4T3B	LA4DB2S	
		72 VAC	LAD4TS	LAD4T3S	LA4DB3B	
		72 VDC	LAD4TSDL	LAD4T3S	LA4DB3S	
		125 VDC	LAD4TGDL	LAD4T3G (AC and DC)	–	
		250 VDC	LAD4TUDL	LAD4T3U (AC and DC)	–	
		600 VDC	LAD4TXDL	LAD4T3R (AC and DC)	–	