

# TeSys™ D-Line Contactors and Starters

## Selection of Contactors for Motor Control

The tables below show the kilowatt ratings (for international applications) and horsepower ratings (for North American applications) of contactors for motor control.

### AC and DC Control Circuit — 3-pole Contactors with Touch-safe Terminals for Power Cabling (AC-3 category)

Maximum horsepower ratings						Maximum Inductive Current in AC-3 Category 600 V	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3							Rated Operating Current in AC-3 up to 440 V	Instantaneous Auxiliary Contacts		Catalog Number ▼◆	Weight lb (kg)	
1-phase 50/60 Hz		3-phase 50/60 Hz					220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V		A	N.O.			N.C.
115/ 120 V	230/ 240 V	200/ 208 V	220/ 240 V	460/ 480 V	575 V 600 V														
HP	HP	HP	HP	HP	HP	A	kW	kW	kW	kW	kW	kW	kW	A					
0.5	1	2	2	5	7.5	9	2.2	4	4	4	5.5	5.5	—	9	1	1	LC1D09••	0.71 (0.320)	
1	2	3	3	7.5	10	12	3	5.5	5.5	5.5	7.5	7.5	—	12	1	1	LC1D12••	0.72 (0.325)	
1	3	5	5	10	15	18	4	7.5	9	9	10	10	—	18	1	1	LC1D18••	0.73 (0.330)	
2	3	7.5	7.5	15	20	25	5.5	11	11	11	15	15	—	25	1	1	LC1D25••	0.82 (0.370)	
2	5	10	10	20	30	32	7.5	15	15	15	18.5	18.5	—	32	1	1	LC1D32••	0.83 (0.375)	
Not for North American applications ■						38	9	18.5	18.5	18.5	18.5	18.5	—	38	1	1	LC1D38••	0.84 (0.380)	
3	5	10	10	30	30	40	11	18.5	22	22	22	30	22	40	1	1	LC1D40••	3.11 (1.400)	
3	7.5	15	15	40	40	50	15	22	25	30	30	33	30	50	1	1	LC1D50••	3.11 (1.400)	
5	10	20	20	50	50	65	18.5	30	37	37	37	37	37	65	1	1	LC1D65••	3.11 (1.400)	
7.5	15	25	30	60	60	80	22	37	45	45	55	45	45	80	1	1	LC1D80••	3.53 (1.590)	
Not for North American applications ■						95	25	45	45	45	55	45	45	95	1	1	LC1D95••	3.58 (1.610)	
—	—	30	40	75	100	115	30	55	59	59	75	80	75	115	1	1	LC1D115••	5.38 (2.420)	
—	—	40	50	100	125	150	40	75	80	80	90	100	90	150	1	1	LC1D150••	5.42 (2.440)	

- ◆ For LC1D09 to LC1D38: clip-on mounting on 35 mm DIN rail AM1DP or screw mounting.  
For LC1D40 to LC1D95: clip-on mounting on 35 mm DIN rail AM1DE or 75 mm DIN rail AM1DL or screw mounting.  
For LC1D115 and LC1D150: clip-on mounting on 2 x 35 mm DIN rails AM1DP or screw mounting.
- ▼ Use voltage codes on page 115 "Voltage Code Table" to complete catalog number.
- Devices are UL Listed at the same HP ratings as 32 and 80 amp devices, respectively.

LC1D09••



LC1D65••



LC1D150••



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## Selection of Contactors for Resistive Loads (AC-1) and Inductive Loads (AC-3)



LC1DT20\*\*

### AC and DC Control Circuit — 3- or 4-Pole Screw Terminal Connections (AC-1 Category)

Maximum Current Utilization Categories		Number of Poles		Instantaneous Auxiliary Contacts		Catalog Number ◆ ▼	Weight lb (kg)
AC-1	AC-3	N.O.	N.C.	N.O.	N.C.		
20	9	3	0	1	1	LC1D09**	0.71 (0.320)
		4	0	1	1	LC1DT20**	0.80 (0.365)
		2	2	1	1	LC1D098**	0.80 (0.365)
25	12	3	0	1	1	LC1D12**	0.75 (0.340)
		4	0	1	1	LC1DT25**	0.80 (0.365)
		2	2	1	1	LC1D128**	0.80 (0.365)
32	18	3	0	1	1	LC1D18**	0.79 (0.355)
		4	0	1	1	LC1DT32**	0.93 (0.425)
		2	2	1	1	LC1D188**	0.93 (0.425)
40	25	3	0	1	1	LC1D25**	0.82 (0.370)
		4	0	1	1	LC1DT40**	0.93 (0.425)
		2	2	1	1	LC1D258**	0.93 (0.425)
50	32	3	0	1	1	LC1D32**	0.83 (0.375)
		3	0	1	1	or ▲ LC1D38** ■	0.84 (0.380)
60	40	3	0	1	1	LC1D40**	3.11 (1.400)
		4	0	1	1	LC1D40004**	0.93 (0.425)
		2	2	1	1	LC1D40008**	0.93 (0.425)
		4	0	1	1	LP1D40004**	0.93 (0.425)
		2	2	1	1	LP1D40008**	0.93 (0.425)
80	65	3	0	1	1	LC1D50**	3.22 (1.450)
		3	0	1	1	or ▲ LC1D65**	3.11 (1.400)
		4	0	0	0	LC1D65004**	3.20 (1.440)
		4	0	0	0	LP1D65004**	4.89 (2.220)
		2	2	0	0	LC1D65008**	3.22 (1.450)
125	80	2	2	0	0	LP1D65008**	4.89 (2.220)
		3	0	1	1	LC1D80**	3.53 (1.590)
		3	0	1	1	or ▲ LC1D95** ■	3.55 (1.600)
		4	0	0	0	LC1D80004**	3.91 (1.760)
		4	0	0	0	LP1D80004**	4.87 (2.210)
200	115	2	2	0	0	LC1D80008**	4.09 (1.940)
		2	2	0	0	LP1D80008**	5.84 (2.650)
		3	0	1	1	LC1D115**	5.38 (2.420)
200	150	3	0	1	1	or ▲ LC1D150**	5.42 (2.440)
		4	0	0	0	LC1D115004**	6.35 (2.860)

### AC and DC Control Circuit — 3- or 4-Pole Spring Terminal Connections (AC-1 Category)

20	9	3	0	1	1	◆	LC1D093**	0.710 (0.320)
		4	0	1	1	◆	LC1DT203**	0.837 (0.380)
		2	2	1	1	◆	LC1D0983**	0.837 (0.380)
25	12	3	0	1	1	◆	LC1D123**	0.710 (0.320)
		4	0	1	1	◆	LC1DT253**	0.840 (0.380)
		2	2	1	1	◆	LC1D1283**	0.840 (0.380)
32	18	3	0	1	1	◆	LC1D183**	0.730 (0.330)
		4	0	1	1	◆	LC1DT323**	0.940 (0.425)
		2	2	1	1	◆	LC1D1883**	0.940 (0.425)
40	25	3	0	1	1	◆	LC1D253**	0.820 (0.370)
		4	0	1	1	◆	LC1DT403**	0.940 (0.425)
		2	2	1	1	◆	LC1D2583**	0.940 (0.425)

- ◆ For LC1D09 to LC1D38: clip-on mounting on 35 mm DIN rail AM1DP or screw mounting.
- For LC1D40 to LC1D95: clip-on mounting on 35 mm DIN rail AM1DE or 75 mm DIN rail AM1DL or screw mounting.
- For LC1D115 and LC1D150: clip-on mounting on 2 x 35 mm DIN rails AM1DP or screw mounting.
- ◆ For LC1D09 to LC1D25: clip-on mounting on 35 mm DIN rail AM1DP or screw mounting.
- ▲ Select between the two shown based upon the number of operating cycles; see the AC-1 graph on page 22 for further information.
- ▼ Use voltage codes on page 115 "Voltage Code Table" to complete catalog number.
- Devices are UL Listed at the same ratings as 32 and 80 amp devices, respectively.

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## D-line Voltage Code Table

**D-line Voltage Code**

Voltage	Frequency	D-line (see notes at end of table)		
		LC1D09 - D38 LC2D09 - D38 Notes D1, D3	LC1D40 - D95 LC2D40 - D95 Note D1	LC1D115 - D150 Note D1, D2, D4
5	Low Consump DC	AL	-	-
12	50/60	J7	-	-
	50	-	J5	-
	DC	JD	JD	-
	Low Consump DC	JL	-	-
	Wide Range DC	-	JW	-
20	50/60	-	Z7	-
	50	-	Z5	-
	60	-	Z6	-
	DC	-	-	-
24	Low Consump DC	ZL	-	-
	50/60	B7	B7	B7
	50	-	B5	B5
	60	-	B6	B6
	40-400	-	-	-
36	DC	BD	BD	BD
	Low Consump DC	BL	-	-
	Wide Range DC	-	BW	-
	50/60	CC7	-	-
42	DC	CD	CD	CD
	Wide Range DC	-	CW	-
	50/60	D7	D7	D7
48	50	-	D5	D5
	60	-	-	-
	50/60	E7	E7	E7
	50	-	E5	E5
	60	-	E6	E6
	40-400	-	-	-
	DC	ED	ED	ED
60	Low Consump DC	EL	-	-
	Wide Range DC	-	EW	-
	50/60	EE7	-	-
72	DC	ND	ND	ND
	DC	SD	SD	SD
	Low Consump DC	SL	-	-
96	Wide Range DC	-	SW	-
	Low Consump DC	DL	-	-
100	50/60	K7	K7	-
	DC	-	-	-

**D-line Voltage Code (Continued)**

Voltage	Frequency	D-line (see notes at end of table)		
		LC1D09 - D38 LC2D09 - D38 Notes D1, D3	LC1D40 - D95 LC2D40 - D95 Note D1	LC1D115 - D150 Note D1, D2, D4
110	50/60	F7	F7	F7
	50	-	F5	F5
	60	-	F6	F6
	40-400	-	-	-
	DC	FD	FD	FD
	Low Consump DC	FL	-	-
	Wide Range DC	-	FW	-
110/127	40-400	-	-	-
115	50/60	FE7	FE7	FE7
	50	-	FE5	FE5
	40-400	-	-	-
120	50/60	G7	G7	G7
	50	-	-	-
	60	-	G6	G6
	40-400	-	-	-
	DC	-	-	-
125	DC	GD	GD	GD
127	50/60	FC7	-	FC7
	60	-	G5	FC5
	40-400	-	-	-
155	DC	PD	-	-
174	DC	-	-	-
200	50/60	L7	L7	-
	DC	-	-	-
200/208	50/60	-	-	-
	60	-	-	-
	40-400	-	-	-
208	50/60	LE7	LE7	LE7
	60	-	L6	L6
	40-400	-	-	-
220	50/60	M7	M7	M7
	50	-	-	M5
	60	-	M6	M6
	40-400	-	-	-
	DC	MD	MD	MD
220/230	Low Consump DC	ML	-	-
	Wide Range DC	-	MW	-
	50/60	-	-	-
220/240	50	-	M5	-
	60	-	-	-
	40-400	-	-	-
220/240	DC	-	-	-
	40-400	-	-	-
220/240	DC	-	-	-