

# TeSys contactors

TeSys D contactors for motor control  
 up to 75 kW at 400 V, in category AC-3  
 For connection by screw clamp terminals and lugs

810356



LC1 D09●●

810353



LC1 D25●●

106906



LC1 D65A●●

810352



LC1 D95●●

105517



LC1 D115●●

## 3-pole contactors

Standard power ratings of 3-phase motors  
 50-60 Hz in category AC-3  
 ( $\theta \leq 60^\circ\text{C}$ )

Rated oper-  
 ational  
 current  
 in AC-3  
 440 V  
 up to

Instan-  
 taneous  
 auxiliary  
 contacts

Basic reference,  
 to be completed by adding  
 the control voltage code (2)

Weight  
 (3)

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

kW kW kW kW kW kW kW A kg

### Connection by screw clamp terminals

2.2	4	4	4	5.5	5.5	—	9	1	1	LC1 D09●●	0.320
3	5.5	5.5	5.5	7.5	7.5	—	12	1	1	LC1 D12●●	0.325
4	7.5	9	9	10	10	—	18	1	1	LC1 D18●●	0.330
5.5	11	11	11	15	15	—	25	1	1	LC1 D25●●	0.370
7.5	15	15	15	18.5	18.5	—	32	1	1	LC1 D32●●	0.375
9	18.5	18.5	18.5	18.5	18.5	—	38	1	1	LC1 D38●●	0.380

### Power connections by EverLink® BTR screw connectors (4) and control by spring terminals

11	18.5	22	22	22	30	—	40	1	1	LC1 D40A●● (5)	0.850
15	22	25	30	30	33	—	50	1	1	LC1 D50A●● (5)	0.855
18.5	30	30	30	37	37	—	65	1	1	LC1 D65A●● (5)	0.860

### Connection by screw clamp terminals or connectors

22	37	45	45	55	45	45	80	1	1	LC1 D80●●	1.590
25	45	45	45	55	45	45	95	1	1	LC1 D95●●	1.610
30	55	59	59	75	80	65	115	1	1	LC1 D115●●	2.500
40	75	80	80	90	100	75	150	1	1	LC1 D150●●	2.500

### Connection by lugs or bars

In the references selected above, insert a figure 6 before the voltage code.

Example: LC1 D09●● becomes LC1 D096●●.

## Separate components

Auxiliary contact blocks and add-on modules: see pages 168 to 175.

- (1) LC1 D09 to D65A: clip-on mounting on 35 mm rail AM1 DP or screw fixing.  
 LC1 D80 to D95: clip-on mounting on 35 mm rail AM1 DP or 75 mm rail AM1 DL or screw fixing.  
 LC1 D80 to D95: clip-on mounting on 75 mm rail AM1 DL or screw fixing.  
 LC1 D115 and D150: clip-on mounting on 2 x 35 mm rails AM1 DP or screw fixing.

- (2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

### a.c. supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1 D09...D150 (D115 and D150 coils with built-in suppression as standard, by bi-directional peak limiting diode).													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC1 D80...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	—

### d.c. supply

Volts	12	24	36	48	60	72	110	125	220	250	440
LC1 D09...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
LC1 D80...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	—	—
LC1 D115 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

Volts	5	12	20	24	48	110	220	250
LC1 D09...D38 (coils with integral suppression device fitted as standard)								
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL

For other voltages between 5 and 690 V, see pages 176 to 181.

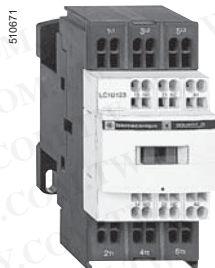
- (3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1 D09 to D38, 0.075 kg from LC1 D40A to D65A and 1 kg for LC1 D80 and D95.

- (4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLEN4, see page 175).

- (5) For low consumption kit LA4 DBL (see page 173).

# TeSys contactors

TeSys D contactors for motor control  
up to 30 kW at 400 V, in category AC-3  
For connection by spring terminals



LC1 D123●●



LC1 D65A3●●

## 3-pole contactors

Standard power ratings of 3-phase motors  
50-60 Hz in category AC-3  
( $\theta \leq 60^\circ \text{C}$ )

Rated  
oper-  
ational  
current  
in AC-3  
440 V  
up to

Instan-  
taneous  
auxiliary  
contacts

Basic reference,  
to be completed by adding  
the control voltage code (2)

Weight  
(3)

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

Fixing (1)

kW	kW	kW	kW	kW	kW	kW	A					kg
Power and control connections by spring terminals												
2.2	4	4	4	5.5	5.5		9	1	1	LC1 D093●●		0.320
3	5.5	5.5	5.5	7.5	7.5		12	1	1	LC1 D123●●		0.325
4	7.5	9	9	10	10		18	1	1	LC1 D183●●		0.330
5.5	11	11	11	15	15		25	1	1	LC1 D253●●		0.370
7.5	15	15	15	18.5	18.5		32 (4)	1	1	LC1 D323●●		0.375

## Power connections by EverLink® BTR screw connectors (5) and control by spring terminals

11	18.5	22	22	22	30		40	1	1	LC1 D40A3●● (6)		0.850
15	22	25	30	30	33		50	1	1	LC1 D50A3●● (6)		0.855
18.5	30	30	30	37	37		65	1	1	LC1 D65A3●● (6)		0.860

## Connection by Faston connectors

These contactors are fitted with Faston connectors: 2 x 6.35 mm on the power poles and 1 x 6.35 mm on the coil and auxiliary terminals.

For contactors LC1 D09 and LC1 D12 only, replace the figure 3 with a 9 in the references selected above.

Example: LC1 D093●● becomes LC1 D099●●.

## Separate components

Auxiliary contact blocks and add-on modules: see pages 168 to 175.

(1) LC1 D09 to D32: clip-on mounting on 35 mm rail AM1 DP or screw fixing.

(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

### a.c. supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440
-------	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----

### LC1 D09...D65A

50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7
----------	----	----	----	----	-----	----	----	----	----	----	----	----

### d.c. supply

Volts	12	24	36	48	60	72	110	125	220	250	440
-------	----	----	----	----	----	----	-----	-----	-----	-----	-----

LC1 D09...D65A (coils with built-in suppression as standard, by bi-directional peak limiting diode)

U 0.75...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
------------------	----	----	----	----	----	----	----	----	----	----	----

### Low consumption

Volts ---	5	12	20	24	48	110	220	250
-----------	---	----	----	----	----	-----	-----	-----

LC1 D09...D32 (coils with integral suppression device fitted as standard)

U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL
-----------------	----	----	----	----	----	----	----	----

For other voltages between 5 and 690 V, see pages 176 to 181.

(3) The weights indicated are for contactors with a.c. control circuit.

For d.c. or low consumption control circuit, add 0.160 kg from LC1 D09 to D32 and 0.075 kg from LC1 D40A to D65A.

(4) Must be wired with 2 x 4 mm<sup>2</sup> cables in parallel on the upstream side. On the downstream side, outgoing terminal block LAD 331 may be used (Quickfit technology, see page 227). When wired with a single cable, the product is limited to 25 A (11 kW/400 V motors).

(5) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLEN4, see page 175).

(6) For low consumption kit LA4 DBL (see page 173).

## TeSys contactors

TeSys D, 3-pole contactors

for control in category AC-1, from 25 to 200 A

810356



LC1 D09●●

106896



LC1 D65A●●

## 3-pole contactors

Non inductive loads maximum current ( $\theta \leq 60^\circ\text{C}$ ) utilisation category AC-1	Number of poles	Instan- taneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code (1)	Weight (3)
			Fixing (2)	

A					kg
<b>Connection by screw clamp terminals</b>					
25	3	1	1	LC1 D09●●	0.320
				or LC1 D12●●	0.325
32	3	1	1	LC1 D18●●	0.330
40	3	1	1	LC1 D25●●	0.370
50	3	1	1	LC1 D32●●	0.375
				or LC1 D38●●	0.380

## Connection by EverLink®, BTR screw connectors (4)

60	3	1	1	LC1 D40A●● (7)	0.850
80	3	1	1	LC1 D50A●● (7)	0.855
				or LC1 D65A●● (5) (7)	0.860

## Connection by screw clamp terminals or connectors

125	3	1	1	LC1 D80●●	1.590
				or LC1 D95●● (5)	1.610
200	3	1	1	LC1 D115●●	2.500
				or LC1 D150●● (6)	2.500

## 3-pole contactors for connection by lugs

In the references selected above, insert a figure 6 before the voltage code.

Example: LC1 D09●● becomes LC1 D096●●.

(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

a.c. supply													
Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1 D09...D150 (coils D115 and D150 fitted with integral suppression device as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	–
LC1 D80...D150													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	–	E6	F6	–	M6	–	U6	Q6	–	–	R6	–
d.c. supply													
Volts	12	24	36	48	60	72	110	125	220	250	440		
LC1 D09...D65A (coils with integral suppression device fitted as standard)													
U 0.7...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
LC1 or LP1 D80 and 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	–	–		
LC1 D115 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													
Volts	5	12	20	24	48	110	220	250					
LC1 D09...D38 (coils with integral suppression device fitted as standard)													
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages 176 to 181.

(2) LC1 D09 to D65A: clip-on mounting on 35 mm rail AM1 DP or screw fixing.

LC1 D80 and D95: clip-on mounting on 35 mm rail AM1 DP or 75 mm rail AM1 DL or screw fixing.

LC1 or LP1 D80 to D95: clip-on mounting on 75 mm rail AM1 DL or screw fixing.

LC1 D115 and D150: clip-on mounting on 2 x 35 mm rails AM1 DP or screw fixing.

(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1 D09 to D38, 0.075 kg from LC1 D40 to D65 and 1 kg for LC1 D80 and D95.

(4) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLEN4, see page 175).

(5) Selection according to the number of operating cycles, see AC-1 curve, page 130.

(6) 32 A with 2 x 4 mm<sup>2</sup> cables connected in parallel.

(7) For low consumption kit LA4 DBL (see page 173).





LC1 D123●●



LC1 D65A3●●

### 3-pole contactors for connection by Faston connectors

These contactors are fitted with Faston connectors: 2 x 6.35 mm on the power poles and 1 x 6.35 mm on the coil terminals. For contactors LC1 D09 and LC1 D12 only, in the references selected from the previous page, insert a figure 9 before the voltage code. Example: **LC1 D09●●** becomes **LC1 D099●●**.

### 3-pole contactors

Non inductive loads maximum current ( $\theta \leq 60^\circ\text{C}$ ) utilisation category AC-1	Number of poles	Instan- taneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code (1)	Weight (3)
			Fixing (2)	
<b>A</b>				<b>kg</b>
<b>Connection by spring terminals</b>				
16	3	1	1	LC1 D093●● (4)
				or LC1 D123●● (4)
25	3	1	1	LC1 D183●● (5)
				or LC1 D253●● (6)
				or LC1 D323●● (6)
<b>Power connections by EverLink® BTR screw connectors and control by spring terminals</b>				
60	3	1	1	LC1 D40A3●● (8)
80	3	1	1	LC1 D50A3●● (7) (8)
				or LC1 D65A3●● (7) (8)

### Separate components

Auxiliary contact blocks and add-on modules: see pages 168 to 175.

(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

<b>a.c. supply</b>													
<b>Volts</b>	24	42	48	110	115	220	230	240	380	400	415	440	500
<b>LC1 D09...D150</b> (coils D115 and D150 fitted with integral suppression device as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	—
<b>LC1 D80...D115</b>													
50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
60 Hz	B6	—	E6	F6	—	M6	—	U6	Q6	—	—	R6	—
<b>d.c. supply</b>													
<b>Volts</b>	12	24	36	48	60	72	110	125	220	250	440		
<b>LC1 D09...D65A</b> (coils with integral suppression device fitted as standard)													
U 0.7...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD		
<b>LC1 or LP1 D80 and LC1 D95</b>													
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	—	—		
<b>LC1 D115 and D150</b> (coils with integral suppression device fitted as standard)													
U 0.75...1.2 Uc	—	BD	—	ED	ND	SD	FD	GD	MD	UD	RD		
<b>Low consumption</b>													
<b>Volts</b>	5	12	20	24	48	110	220	250					
<b>LC1 D09...D38</b> (coils with integral suppression device fitted as standard)													
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL					

For other voltages between 5 and 690 V, see pages 176 to 181.

(2) **LC1 D09 to D65A**: clip-on mounting on 35 mm rail **AM1 DP** or screw fixing.

**LC1 D80 and D95**: clip-on mounting on 35 mm rail **AM1 DP** or 75 mm rail **AM1 DL** or screw fixing.

**LC1 or LP1 D80 and D95**: clip-on mounting on 75 mm rail **AM1 DL** or screw fixing.

**LC1 D115 and D150**: clip-on mounting on 2 x 35 mm rails **AM1 DP** or screw fixing.

(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from **LC1 D09 to D38** and 0.075 kg from **LC1 D40A to D65A**.

(4) 20 A with 2 x 2.5 mm<sup>2</sup> cables connected in parallel.

(5) 32 A with 2 x 4 mm<sup>2</sup> cables connected in parallel.

(6) 40 A with 2 x 4 mm<sup>2</sup> cables connected in parallel.

(7) Selection according to the number of operating cycles, see AC-1 curve, page 130.

(8) For low consumption kit **LA4 DBL** (see page 173).

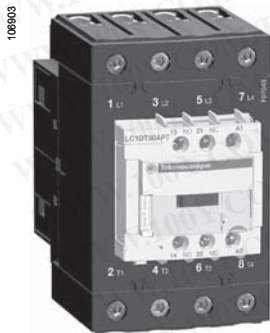
## TeSys contactors

TeSys D, 4-pole contactors

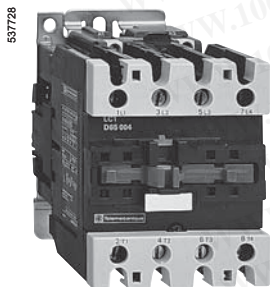
For control in category AC-1, 25 to 200 A



LC1 DT20●●







LC1 DT80A●●



LC1 D65008●●

## 4-pole contactors for connection by screw clamp terminals or connectors

Non inductive loads maximum current ( $\theta \leq 60\text{ }^{\circ}\text{C}$ ) utilisation category AC-1	Number of poles	Instan- taneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code (1)		Weight (3)	
					Fixing (2)	
A					kg	
Connection by screw clamp terminals						
20	4	–	1	1	LC1 DT20●●	0.365
	2	2	1	1	LC1 D098●●	0.365
25	4	–	1	1	LC1 DT25●●	0.365
	2	2	1	1	LC1 D128●●	0.365
32	4	–	1	1	LC1 DT32●●	0.425
	2	2	1	1	LC1 D188●●	0.425
40	4	–	1	1	LC1 DT40●●	0.425
	2	2	1	1	LC1 D258●●	0.425
Connection by EverLink®, BTR screw connectors						
60	4	–	1	1	LC1 DT60A●●	1.090
80	4	–	1	1	LC1 DT80A●●	1.150
Connection by screw clamp terminals or connectors						
60	2	2	–	–	LC1 D40008●●	1.440
					or LP1 D40008●●	2.210
80	2	2	–	–	LC1 D65008●●	1.450
					or LP1 D65008●●	2.220
125	4	–	–	–	LC1 D80004●●	1.760
					or LP1 D80004●●	2.685
	2	2	–	–	LC1 D80008●●	1.840
					or LP1 D80008●●	2.910
200	4	–	–	–	LC1 D115004●●	2.860

## 4-pole contactors for connection by lugs or bars

In the references selected above, insert a figure 6 before the voltage code.

Example: LC1 DT20●● becomes LC1 DT206●●.

(1) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

## a.c. supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC1 D09...D150 and LC1 DT20...DT80A (coils D115 and D150 fitted with integral suppression device as standard)													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	—
LC1 D80...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	—

## d.c. supply

Volts	12	24	36	48	60	72	110	125	220	250	440
LC1 D09...D65A and LC1 DT20...DT80A (coils with integral suppression device fitted as standard)											
U 0.7...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
LC1 or LP1 D80											
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	—	—
LC1 D115 (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

Volts	5	12	20	24	48	110	220	250
LC1 D09...D38 and LC1 DT20...DT40 (coils with integral suppression device fitted as standard)								
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL

For other voltages between 5 and 690 V, see pages 176 to 181.

(2) LC1 D09 to D38 and LC1 DT20 to DT80A: clip-on mounting on 35 mm rail AM1 DP or screw fixing.

LC1 D80 ~: clip-on mounting on 35 mm rail AM1 DP or 75 mm rail AM1 DL or screw fixing.

LC1 or LP1 D80 ~: clip-on mounting on 75 mm rail AM1 DL or screw fixing.

LC1 D115 and D150: clip-on mounting on 2 x 35 mm rails AM1 DP or screw fixing.

(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1 D09 to D38, 0.075 kg from LC1 DT60A and D80A and 1 kg for LC1 D80.

# TeSys contactors

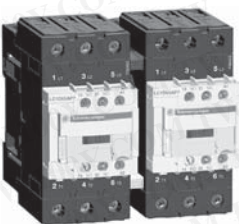
TeSys D, 3-pole reversing contactors for motor control  
up to 75 kW at 400 V, in category AC-3  
Horizontally mounted, pre-assembled

810389



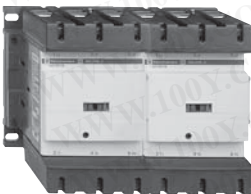
LC2 D12●●

106905



LC2 D65A●●

113119



LC2 D115●●

## 3-pole reversing contactors for connection by screw clamp terminals

Pre-wired power connections.

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 (θ ≤ 60 °C)								Rated operational current in AC-3 440 V up to	<div>Instantaneous auxiliary contacts per contactor</div> <div><div></div><div></div></div>	Contactors supplied with coil Basic reference, to be completed by adding the control voltage code (2)		Weight (3)
										Fixing (1)		
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V	1000 V						
kW	kW	kW	kW	kW	kW	kW	A				kg	
With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or connectors												
2.2	4	4	4	5.5	5.5	—	9	1	1	LC2 D09●● (4)	0.687	
3	5.5	5.5	5.5	7.5	7.5	—	12	1	1	LC2 D12●● (4)	0.697	
4	7.5	9	9	10	10	—	18	1	1	LC2 D18●● (4)	0.707	
5.5	11	11	11	15	15	—	25	1	1	LC2 D25●● (4)	0.787	
7.5	15	15	15	18.5	18.5	—	32	1	1	LC2 D32●● (4)	0.797	
9	18.5	18.5	18.5	18.5	18.5	—	38	1	1	LC2 D38●● (4)	0.807	
11	18.5	22	22	22	30	—	40	1	1	LC2 D40A●● (5)	1.870	
15	22	25	30	30	33	—	50	1	1	LC2 D50A●● (5)	1.880	
18.5	30	30	30	37	37	—	65	1	1	LC2 D65A●● (5)	1.890	
22	37	45	45	55	45	—	80	1	1	LC2 D80●●	3.200	
25	45	45	45	55	45	—	95	1	1	LC2 D95●●	3.200	
With mechanical interlock and electrical interlocking, for connection by screw clamp terminals or connectors												
30	55	59	59	75	80	65	115	1	1	LC2 D115●●	6.350	
40	75	80	80	90	100	75	150	1	1	LC2 D150●●	6.400	

## Connection by lugs or bars

For reversing contactors LC2 D09 to LC2 D38, LC2 D115 and LC2 D150, in the references selected above, insert a figure 6 before the voltage code. Example: **LC2 D09●●** becomes **LC2 D096●●**.

To build a 40 to 65 A reversing contactor, for connection by lugs, order 2 contactors **LC1 D●●A6** and mechanical interlock **LAD 4CM** (see page 166).

## Component parts

Auxiliary contact blocks and add-on modules: see pages 168 to 175.

(1) LC2 D09 to D38: clip-on mounting on 35 mm rail **AM1 DP** or screw fixing.

LC2 D40 to D95: clip-on mounting on 35 mm rail **AM1 DP** or 75 mm rail **AM1 DL** or screw fixing.

LC2 D115 and D150: clip-on mounting on 35 mm rail **AM1 DP** or screw fixing.

(2) Standard control circuit voltages (for other voltages between 16 and 690 V, please consult your Regional Sales Office):

### a.c. supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
LC2 D09...D150 (D115 and D150 coils with integral suppression device fitted as standard))													
50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	S7
LC2 D80...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	—

### d.c. supply

Volts	12	24	36	48	60	72	110	125	220	250	440
LC2 D09...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
Low consumption											
Volts ---	5	12	20	24	48	110	220	250			
LC2 D09...D38 (coils with integral suppression device fitted as standard)											
U 0.8...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL			

For other voltages between 5 and 690 V, see pages 176 to 181.

(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.330 kg for **LC2 D09** to **D38**, 0.150 kg for **LC1 D40A** to **D65A**.

(4) For reversing contactors with electrical interlocking pre-wired at the factory, add suffix **V** to the references selected above.

Example: **LC2 D09P7** becomes **LC2 D09P7V**.

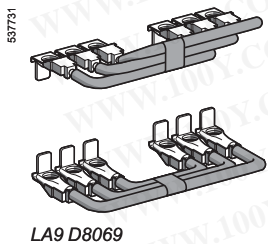
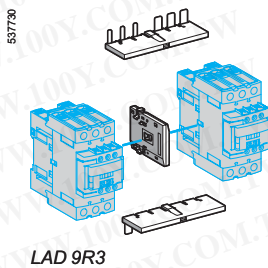
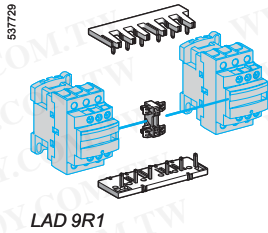
(5) For low consumption kit **LA4 DBL** (see page 173).

**Note:** when assembling a reversing contactor, it is good practice to incorporate a 50 ms time delay.



# TeSys contactors

Component parts for assembling  
reversing contactors for motor control,  
low-speed/high-speed starters and star-delta starters



## For 3-pole reversing contactors for motor control

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer

Description	For contactors (1) (2 identical contactors)	Reference	Weight kg
<b>Kits for assembly of reversing contactors</b>			
<b>Kit comprising:</b> ■ a mechanical interlock LAD 9V2 with electrical interlocking LAD 9V1. ■ a set of power connections LAD 9V5 (parallel) and LAD 9V6 (reversing)	LC1 D09 to D38	LAD 9R1V	0.045
<b>Kit comprising:</b> ■ a mechanical interlock LAD 9V2 without electrical interlocking ■ a set of power connections LAD 9V5 (parallel) and LAD 9V6 (reversing)	LC1 D09 to D38	LAD 9R1	0.045
<b>Kit comprising:</b> ■ a mechanical interlock LAD 4CM, ■ a set of power connections LA9 D65A69.	LC1 D40A to D65A	LAD 9R3	0.170
<b>Mechanical interlocks</b>			
<b>Mechanical interlock with integral electrical interlocking</b>	LC1 D80 and D95 (∼)	LA9 D4002	0.170
	LC1 D80 and D95 (≡)	LA9 D8002	0.170
	LC1 D115 and D150	LA9 D11502	0.290
<b>Mechanical interlock without integral electrical interlocking</b>	LC1 D09 to D38	LAD 9V2	0.040
	LC1 D40A to D65A	LAD 4CM	0.040
	LC1 D80 and D95 (∼)	LA9 D50978	0.170
	LC1 D80 and D95 (≡)	LA9 D80978	0.170
<b>Sets of power connections</b>			
<b>Comprising:</b> ■ a set of parallel bars, ■ a set of reverser bars.	LC1 D09 to D38 with screw clamp terminals or connectors	LAD 9V5 + LAD 9V6	—
	LC1 D09...D32 with spring terminal connections	LAD 9V12 + LAD 9V13 (2)	—
	LC1 D40A to D65A	LA9 D65A69	0.130
	LC1 D80 and D95 (∼)	LA9 D8069	0.490
	LC1 D80 and D95 (≡)	LA9 D8069	0.490
	LC1 D115 and D150	LA9 D11569	1.450

## For low-speed/high-speed starter

Description	For contactors with connection type	Reference	Weight kg
<b>Connection kit enabling reversing of low and high speed directions using a reversing contactor and a 2N/O + 2N/C main pole contactor</b>	Screw clamps or connectors	LAD 9PVG	0.016
	Power connection module with spring terminal connections	LAD 3PVG	0.034
	Outgoing terminal block with spring terminal connections	LAD 3PVG10	0.034

## For star-delta starter

Description	For contactors	Reference	Weight kg
<b>Mounting kit comprising:</b> ■ 1 time delay contact block LAD S2 (LC1 D09...D80), ■ power circuit connections (LC1 D09...D80), ■ hardware required for fixing the contactors onto the mounting plate (LC1 D80).	LC1 D09 and D12	LAD 91217	0.180
	LC1 D18 to D32	LAD 93217	0.310
	LC1 D40A and D50A	LAD 9SD3	0.380
	LC1 D80	LA9 D8017	0.680
	LC1 D09, D12 and D18	LA9 D12974	0.150
<b>Equipment mounting plates</b>	LC1 D32	LA9 D32974	0.180
	LC1 D40A and D50A	—	—
	LC1 D80	LA9 D80973	0.300

(1) To order the 2 contactors: see pages 154 and 162.

(2) To assemble a reversing contactor with spring terminal connections, the following components must be ordered:

- 1 mechanical interlock LAD 9V2,

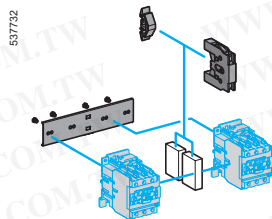
- 1 upstream power connection kit and 1 downstream power connection kit..

Upstream power connection kit LAD 9V10: installed in the Quickfit system with power connection module LAD 34.

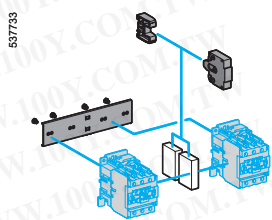
(If module LAD 34 is not used, replace LAD 9V10 with LAD 9V12).

Downstream power connection kit LAD 9V11: installed in the Quickfit system with outgoing terminal block LAD 331.

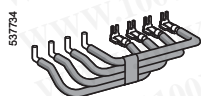
(If LAD 331 is not used, replace LAD 9V11 with LAD 9V13).



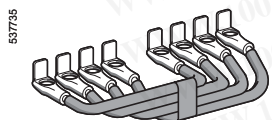
LA9 D4002



LA9 D50978



LA9 D6570



LA9 D8070

**For 4-pole changeover contactor pairs (3-phase distribution + neutral)**

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors (1) (2 identical contactors)	Reference	Weight kg
<b>Kits for assembly of changeover contactor pairs</b>			
<b>Kit comprising:</b> ■ a mechanical interlock <b>LAD 9V2</b> with electrical interlocking <b>LAD 9V1</b> , ■ a set of power connections (changeover) <b>LAD 9V7</b> .	LC1 DT20 to DT40 with screw clamps or connectors	<b>LAD T9R1V</b>	0.045
<b>Kit comprising:</b> ■ a mechanical interlock <b>LAD 9V2</b> without electrical interlocking, ■ a set of power connections (changeover) <b>LAD 9V7</b> .	LC1 DT20 to DT40 with screw clamps or connectors	<b>LAD T9R1</b>	0.045
<b>Mechanical interlocks</b>			
<b>With integral electrical interlocking</b>	LC1 D80004	<b>LA9 D4002</b>	0.170
	LP1 D80004	<b>LA9 D8002</b>	0.170
	LC1 D115004	<b>LA9 D11502</b>	0.280
<b>Without integral electrical interlocking</b>	LC1 DT20 to DT40 with screw clamps or connectors	<b>LAD 9V2 (2)</b>	0.040
	LC1 DT203 to DT403 with spring terminals	<b>LAD 9V2 (2)</b>	0.040
	LC1 DT60A and DT80A	<b>LAD 4CM</b>	0.040
	LC1 D80004	<b>LA9 D50978</b>	0.155
	LP1 D80004	<b>LA9 D80978</b>	0.180
<b>Sets of power connections</b>			
Comprising a set of parallel bars	LC1 D60A and D80A	<b>LA9 D65A70 ▲</b>	0.150
	LC1 D80004	<b>LA9 D8070</b>	0.280
	LP1 D80004	<b>LA9 D8070</b>	0.280
	LC1 D115004	<b>LA9 D11570</b>	1.100
	LC1 DT203 to DT403 with spring terminals	<b>LAD 9V9</b>	0.100
	LC1 D80004	<b>LA9 D8070 (2)</b>	—
	LP1 D80004	<b>LA9 D8070 (2)</b>	—

**For 3-pole changeover contactor pairs**

Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.

Description	For contactors (1) (2 identical contactors)	Reference	Weight kg
<b>Mechanical interlocks</b>			
<b>Without integral electrical interlocking</b>	LC1 D40A...D65A	<b>LAD 9R3S</b>	0.105
<b>With integral electrical interlocking</b>	LC1 D115 and D150	<b>LA9 D11502</b>	0.280
<b>Sets of power connections</b>			
Comprising a set of parallel bars,	LC1 D115 and D150	<b>LA9 D11571</b>	0.960

(1) To order the 2 contactors: see pages 154 and 162.

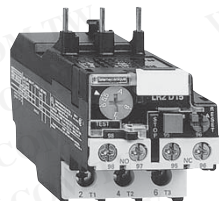
(2) Order 2 contact blocks **LAD N●1** to build the electrical interlock, see page 169.

▲ Available 3<sup>rd</sup> quarter 2009.



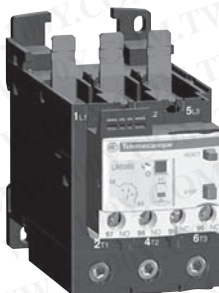
勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw

810468



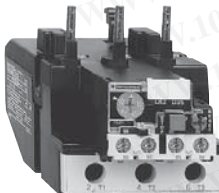
LRD 15●●

536762



LRD 3●●L

536765



LR2 D35●●

**Differential thermal overload relays****for use with fuses or magnetic circuit-breakers GV2 L and GV3 L**

- Compensated relays with manual or automatic reset,
- with relay trip indicator,
- for a.c. or d.c.

Relay setting range (A)	Fuses to be used with selected relay			For use with contactor LC1	Reference	Weight kg
	aM (A)	gG (A)	BS88 (A)			
Classes 20 (1) for connection by screw clamp terminals						
2.5...4	6	10	16	D09...D32	LRD 1508	0.190
4...6	8	16	16	D09...D32	LRD 1510	0.190
5.5...8	12	20	20	D09...D32	LRD 1512	0.190
7...10	16	20	25	D09...D32	LRD 1514	0.190
9...13	16	25	25	D12...D32	LRD 1516	0.190
12...18	25	35	40	D18...D32	LRD 1521	0.190
17...25	32	50	50	D25 and D32	LRD 1522	0.190
23...28	40	63	63	D25 and D32	LRD 1530	0.190
25...32	40	63	63	D25 and D32	LRD 1532	0.190
Class 20 (1) for connection by EverLink® BTR screw connectors (2)						
9...13	20	32	35	D40A...D65A	LRD 313L	0.375
12...18	25	40	40	D40A...D65A	LRD 318L	0.375
17...25	32	50	50	D40A...D65A	LRD 325L	0.375
23...32	40	63	63	D40A...D65A	LRD 332L	0.375
30...40	50	80	80	D40A...D65A	LRD 340L	0.375
37...50	63	100	100	D40A...D65A	LRD 350L	0.375
48...65	80	125	125	D50A and D65A	LRD 365L	0.375
Classes 20 (1) for connection by screw clamp terminals						
17...25	32	50	50	D80 and D95	LR2 D3522	0.535
23...32	40	63	63	D80 and D95	LR2 D3553	0.535
30...40	40	100	80	D80 and D95	LR2 D3555	0.535
37...50	63	100	100	D80 and D95	LR2 D3557	0.535
48...65	80	125	100	D80 and D95	LR2 D3559	0.535
55...70	100	125	125	D80 and D95	LR2 D3561	0.535
63...80	100	160	125	D80 and D95	LR2 D3563	0.535

(1) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current  $I_R$ :  
 class 20: between 6 and 20 seconds

(2) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference **LAD ALLEN4**, see page 175).