

# 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



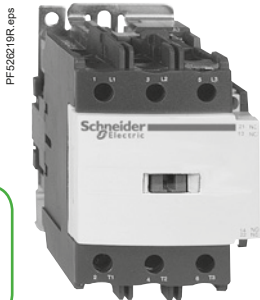
LC1 D09●●



LC1 D25●●



LC1 D80A●●



LC1 D95●●



LC1 D115●●

## 3-pole contactors

| Standard power ratings of 3-phase motors<br>50-60 Hz in category AC-3<br>(θ ≤ 60 °C)                          |                |       |       |       |                |        |     | Rated<br>operational<br>current<br>in AC-3<br>440 V<br>up to | Instan-<br>taneous<br>auxiliary<br>contacts | Basic reference,<br>to be completed by adding<br>the control voltage code <sup>(2)</sup><br><br>Fixing <sup>(1)</sup> | Weight<br><sup>(3)</sup><br><br>kg |
|---|----------------|-------|-------|-------|----------------|--------|-----|--|---|---|------------------------------------|
| 220 V<br>230 V  | 380 V<br>400 V | 415 V | 440 V | 500 V | 660 V<br>690 V | 1000 V |     |  |   |   |                                    |
| kW  | kW             | kW    | kW    | kW    | kW             | kW     | A   |  |   |   |                                    |
| <b>Connection by screw clamp terminals</b>  |                |       |       |       |                |        |     |  |   |   |                                    |
| 2.2   | 4              | 4     | 4     | 5.5   | 5.5            | -      | 9   | 1  | 1   | LC1D09●●  | 0.320                              |
| 3   | 5.5            | 5.5   | 5.5   | 7.5   | 7.5            | -      | 12  | 1  | 1   | LC1D12●●  | 0.325                              |
| 4   | 7.5            | 9     | 9     | 10    | 10             | -      | 18  | 1  | 1   | LC1D18●●  | 0.330                              |
| 5.5   | 11             | 11    | 11    | 15    | 15             | -      | 25  | 1  | 1   | LC1D25●●  | 0.370                              |
| 7.5   | 15             | 15    | 15    | 18.5  | 18.5           | -      | 32  | 1  | 1   | LC1D32●●  | 0.375                              |
| 9   | 18.5           | 18.5  | 18.5  | 18.5  | 18.5           | -      | 38  | 1  | 1   | LC1D38●●  | 0.380                              |
| <b>Power connections by EverLink® BTR screw connectors <sup>(4)</sup> and control by screw clamp terminal</b> |                |       |       |       |                |        |     |  |   |   |                                    |
| 11  | 18.5           | 22    | 22    | 22    | 30             | -      | 40  | 1  | 1   | LC1D40A●●   | 0.850                              |
| 15  | 22             | 25    | 30    | 30    | 33             | -      | 50  | 1  | 1   | LC1D50A●●   | 0.855                              |
| 18.5  | 30             | 37    | 37    | 37    | 37             | -      | 65  | 1  | 1   | LC1D65A●●   | 0.860                              |
| 22  | 37             | 37    | 37    | 37    | 37             | -      | 66  | 1  | 1   | LC1D80A●●   | 0.860                              |
| <b>Connection by screw clamp terminals or connectors</b>  |                |       |       |       |                |        |     |  |   |   |                                    |
| 22  | 37             | 45    | 45    | 55    | 45             | 45     | 80  | 1  | 1   | LC1D80●●  | 1.590                              |
| 25  | 45             | 45    | 45    | 55    | 45             | 45     | 95  | 1  | 1   | LC1D95●●  | 1.610                              |
| 30  | 55             | 59    | 59    | 75    | 80             | 65     | 115 | 1  | 1   | LC1D115●●   | 2.500                              |
| 40  | 75             | 80    | 80    | 90    | 100            | 75     | 150 | 1  | 1   | LC1D150●●   | 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 B8/23 to B8/29.

- (1) LC1 D09 to D80A: 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 D09...D65 (not available with "connection for lugs or bars")   |    |    |    |     |     |     |     |     |     |     |     |     |     |
| 50 Hz  | B5 | D5 | E5 |     |     |     | P5  |     |     |     |     |     |     |
| 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...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)    |    |    |    |    |    |    |     |     |     |     |     |
| U 0.7...1.25 Uc   | JD | BD | CD | ED | ND | SD | FD  | GD  | MD  | UD  | RD  |
| LC1 D40A ...D65A (coils with integral suppression device fitted 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  |
| 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 (coil with built-in suppression device 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, by bi-directional peak limiting diode) |    |    |    |    |    |     |     |     |
| U 0.8...1.25 Uc  | AL | JL | ZL | BL | EL | FL  | ML  | UL  |

### a.c. / d.c. supply - low consumption

See TeSys D Green, page B8/13

For other voltages between 5 and 690 V, see pages B8/32 to B8/35.

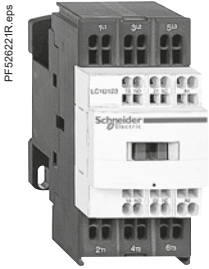
(3) The weights indicated are for contactors with a.c. control circuit. For d.c. or low consumption control circuit, add 0.160 kg from LC1 D09 to D38, 0.075 kg from LC1 D40A to D80A and 1 kg for LC1 D80 and D95.

(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 B8/29).

# 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●●



LCD 80A3●●

### 3-pole contactors

| Standard power ratings of 3-phase motors<br>50-60 Hz in category AC-3<br>( $\theta \leq 60^\circ\text{C}$ ) | Rated<br>operational<br>current in<br>AC-3 440 V<br>up to | Instan-<br>taneous<br>auxiliary<br>contacts | Basic reference,<br>to be completed by adding<br>the control voltage code <sup>(2)</sup> |
|---|---|---|--|
| 220 V 380 V 415 V 440 V 500 V 660 V 1000 V<br>230 V 400 V   |   |   | Fixing <sup>(1)</sup>  |

### Power and control connections by spring terminals

| kW  | kW  | kW  | kW  | kW   | kW   | kW | A                 |   |   |           |
|-----|-----|-----|-----|------|------|----|-------------------|---|---|-----------|
| 2.2 | 4   | 4   | 4   | 5.5  | 5.5  |    | 9                 | 1 | 1 | LC1D093●● |
| 3   | 5.5 | 5.5 | 5.5 | 7.5  | 7.5  |    | 12                | 1 | 1 | LC1D123●● |
| 4   | 7.5 | 9   | 9   | 10   | 10   |    | 18                | 1 | 1 | LC1D183●● |
| 5.5 | 11  | 11  | 11  | 15   | 15   |    | 25                | 1 | 1 | LC1D253●● |
| 7.5 | 15  | 15  | 15  | 18.5 | 18.5 |    | 32 <sup>(4)</sup> | 1 | 1 | LC1D323●● |

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

|      |      |    |    |    |    |    |    |   |   |            |
|------|------|----|----|----|----|----|----|---|---|------------|
| 11   | 18.5 | 22 | 22 | 22 | 30 | 30 | 40 | 1 | 1 | LC1D40A3●● |
| 15   | 22   | 25 | 30 | 30 | 33 | 33 | 50 | 1 | 1 | LC1D50A3●● |
| 18.5 | 30   | 37 | 37 | 37 | 37 | 37 | 65 | 1 | 1 | LC1D65A3●● |
| 22   | 37   | 37 | 37 | 37 | 37 | 37 | 66 | 1 | 1 | LC1D80A3●● |

### 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 B8/23 to B8/29.

(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 |    |
| <b>LC1 D09...D80A</b>   |    |    |    |     |     |     |     |     |     |     |     |     |    |
| 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 |     |    |
| <b>LC1 D09...D32</b> (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)   |    |    |    |     |     |     |     |     |     |     |     |     |    |
| U 0.7...1.25 Uc   |    | JD | BD | CD  | ED  | ND  | SD  | FD  | GD  | MD  | UD  | RD  |    |
| <b>LC1 D40A...D65A</b> (coils with integral suppression device fitted 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 |     |     |     |     |    |
| <b>LC1 D09...D32</b> (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)   |    |    |    |     |     |     |     |     |     |     |     |     |    |
| U 0.8...1.25 Uc   |    | AL | JL | ZL  | BL  | EL  | FL  | ML  | UL  |     |     |     |    |

For other voltages between 5 and 690 V, see pages B8/32 to B8/35.

(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 D80A.

(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 B1/18). 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 B8/29).

# TeSys contactors

TeSys D, 3-pole contactors

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



LC1 D09●●



LC1 D80A●●

### 3-pole contactors

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

A kg

#### Connection by screw clamp terminals

|    |   |   |   |                         |                |
|----|---|---|---|-------------------------|----------------|
| 25 | 3 | 1 | 1 | LC1D09●●<br>or LC1D12●● | 0.320<br>0.325 |
| 32 | 3 | 1 | 1 | LC1D18●●                | 0.330          |
| 40 | 3 | 1 | 1 | LC1D25●●                | 0.370          |
| 50 | 3 | 1 | 1 | LC1D32●●<br>or LC1D38●● | 0.375<br>0.380 |

#### Connection by EverLink®, BTR screw connectors <sup>(4)</sup>

|    |   |   |   |   |                         |
|----|---|---|---|---|-------------------------|
| 60 | 3 | 1 | 1 | LC1D40A●●   | 0.850                   |
| 80 | 3 | 1 | 1 | LC1D50A●●<br>or LC1D65A●● <sup>(5)</sup><br>or LC1D80A●● <sup>(5)</sup> | 0.855<br>0.860<br>0.860 |

#### Connection by screw clamp terminals or connectors

|     |   |   |   |  |                |
|-----|---|---|---|--|----------------|
| 125 | 3 | 1 | 1 | LC1D80●●<br>or LC1D95●● <sup>(5)</sup>   | 1.590<br>1.610 |
| 200 | 3 | 1 | 1 | LC1D115●●<br>or LC1D150●● <sup>(6)</sup> | 2.500<br>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●●.

<sup>(1)</sup> 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 (LC1D115 and D150 coils with built-in suppression device as standard)

50/60 Hz B7 D7 E7 F7 FE7 M7 P7 U7 Q7 V7 N7 R7 S7

LC1 D09...D65 (not available with "connection for lugs or bars")

50 Hz B5 D5 E5 P5

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...D38 (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

U 0.7...1.25 Uc JD BD CD ED ND SD FD GD MD UD RD

LC1 D40A ...D65A (coils with integral suppression device fitted 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

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 built-in 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, by bi-directional peak limiting diode)

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

For other voltages between 5 and 690 V, see pages B8/32 to B8/35.

<sup>(2)</sup> LC1 D09 to D80A: 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.

<sup>(3)</sup> 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 D80A and 1 kg for LC1 D80 and D95.

<sup>(4)</sup> 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 B8/29).

<sup>(5)</sup> Selection according to the number of operating cycles, see AC-1 curve, page A6/30.

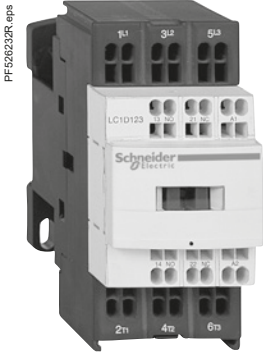
<sup>(6)</sup> 32 A with 2 x 4 mm<sup>2</sup> cables connected in parallel.

# References - TeSys D

## TeSys contactors

### TeSys D, 3-pole contactors

For control in category AC-1, from 16 to 80 A



LC1 D123●●



LC1 D80A3●●

### 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 | Instantaneous auxiliary contacts | Basic reference, to be completed by adding the control voltage code <sup>(1)</sup> | Weight <sup>(3)</sup> |
|--|-----------------|----------------------------------|--|-----------------------|
|  |                 |                                  | Fixing <sup>(2)</sup>  |                       |
| <b>A</b>   |                 |                                  |  | <b>kg</b>             |

#### Connection by spring terminals

|    |   |   |   |                             |       |
|----|---|---|---|-----------------------------|-------|
| 16 | 3 | 1 | 1 | LC1D093●● <sup>(4)</sup>    | 0.320 |
|    |   |   |   | or LC1D123●● <sup>(4)</sup> | 0.325 |
| 25 | 3 | 1 | 1 | LC1D183●● <sup>(5)</sup>    | 0.335 |
|    |   |   |   | or LC1D253●● <sup>(6)</sup> | 0.325 |
|    |   |   |   | or LC1D323●● <sup>(6)</sup> | 0.325 |

#### Power connections by EverLink® BTR screw connectors <sup>(7)</sup> and control by spring terminals

|    |   |   |   |                              |       |
|----|---|---|---|------------------------------|-------|
| 60 | 3 | 1 | 1 | LC1D40A3●●                   | 0.850 |
| 80 | 3 | 1 | 1 | LC1D50A3●● <sup>(8)</sup>    | 0.855 |
|    |   |   |   | or LC1D65A3●● <sup>(8)</sup> | 0.860 |
|    |   |   |   | or LC1D80A3●● <sup>(8)</sup> | 0.860 |

### Separate components

**Auxiliary contact blocks and add-on modules:** see pages B8/23 to B8/29.

<sup>(1)</sup> 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 |
|-----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>LC1 D09...D80A</b> |    |    |    |     |     |     |     |     |     |     |     |     |     |
| 50/60 Hz              | B7 | D7 | E7 | F7  | FE7 | M7  | P7  | U7  | Q7  | V7  | N7  | R7  | S7  |

#### d.c. supply

| Volts   | 12 | 24 | 36 | 48 | 60 | 72 | 110 | 125 | 220 | 250 | 440 |
|---|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| <b>LC1 D09...D32</b> (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode) |    |    |    |    |    |    |     |     |     |     |     |
| U 0.7...1.25 U <sub>c</sub>   | JD | BD | CD | ED | ND | SD | FD  | GD  | MD  | UD  | RD  |

**LC1 D40A...D65A** (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode)

|                              |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------|----|----|----|----|----|----|----|----|----|----|----|
| U 0.75...1.25 U <sub>c</sub> | JD | BD | CD | ED | ND | SD | FD | GD | MD | UD | RD |
|------------------------------|----|----|----|----|----|----|----|----|----|----|----|

#### Low consumption

| Volts   | 5  | 12 | 20 | 24 | 48 | 110 | 220 | 250 |
|---|----|----|----|----|----|-----|-----|-----|
| <b>LC1 D09...D32</b> (coils with integral suppression device fitted as standard, by bi-directional peak limiting diode) |    |    |    |    |    |     |     |     |
| U 0.8...1.25 U <sub>c</sub>   | AL | JL | ZL | BL | EL | FL  | ML  | UL  |

For other voltages between 5 and 690 V, see pages B8/32 to B8/35.

<sup>(2)</sup> **LC1 D09 to D80A:** clip-on mounting on 35 mm rail **AM1 DP** or screw fixing.

<sup>(3)</sup> 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 D80A**.

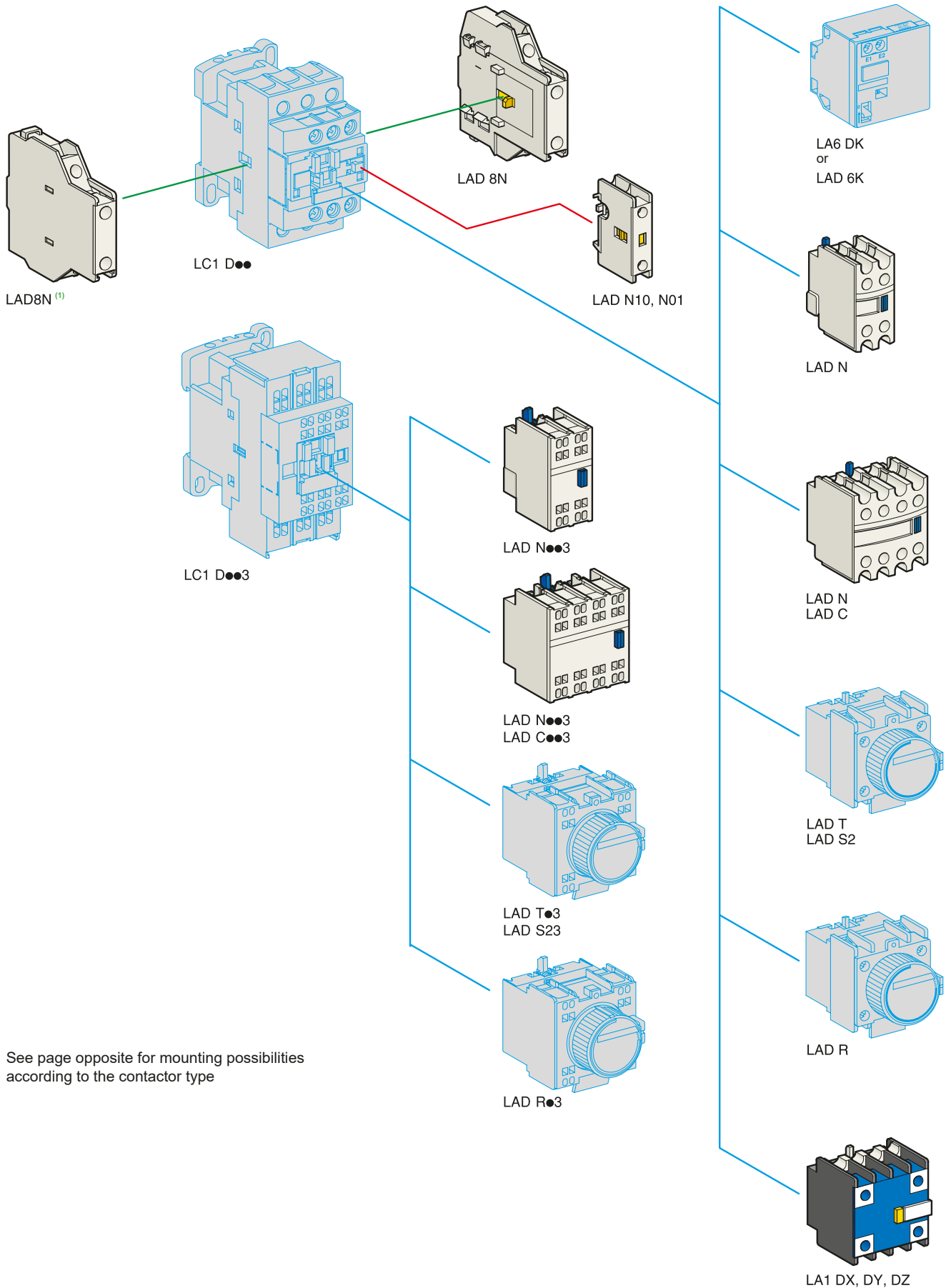
<sup>(4)</sup> 20 A with 2 x 2.5 mm<sup>2</sup> cables connected in parallel.

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

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

<sup>(7)</sup> 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 B8/29).

<sup>(8)</sup> Selection according to the number of operating cycles, see AC-1 curve, page A6/30.



See page opposite for mounting possibilities according to the contactor type

(1) No left side mounting on TeSys D Green contactors.






# TeSys contactors

TeSys D contactors and reversing contactors

Instantaneous auxiliary contact blocks

## Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

| Clip-on mounting   | Number of contacts per block | Composition   |   |   |   |   | Reference                     |
|--|------------------------------|---|---|---|---|---|-------------------------------|
|  |                              |  |  |  |  |  |                               |
| Front  | 1                            | -   | -   | -   | 1   | -   | LADN10                        |
|  |                              | -   | -   | -   | -   | 1   | LADN01                        |
|  | 2                            | -   | -   | -   | 1   | 1   | LADN11                        |
|  |                              | -   | -   | -   | 2   | -   | LADN20                        |
|  | 4                            | -   | -   | -   | -   | 2   | LADN02                        |
|  |                              | -   | -   | -   | 2   | 2   | LADN22 LADN22S <sup>(4)</sup> |
|  |                              | -   | -   | -   | 1   | 3   | LADN13                        |
|  |                              | -   | -   | -   | 4   | -   | LADN40                        |
|  |                              | -   | -   | -   | -   | 4   | LADN04                        |
|  |                              | -   | -   | -   | 3   | 1   | LADN31                        |
| 4 incl. 1 N/O & 1 N/C make before break                          | -                            | -   | -   | 2   | 2   | LADC22  |                               |
| Side<br>(contact blocks compatible with AC coil contactors only) | 2                            | -   | -   | -   | 1   | 1   | LAD8N11                       |
|  |                              | -   | -   | -   | 2   | -   | LAD8N20                       |
|  |                              | -   | -   | -   | -   | 2   | LAD8N02                       |

## For terminal referencing conforming to EN 50012

|   |   |   |   |   |   |   |         |
|---|---|---|---|---|---|---|---------|
| Front on 3P contactors and 4P contactors 20 to 80 A | 2 | - | - | - | 1 | 1 | LADN11G |
|   | 4 | - | - | - | 2 | 2 | LADN22G |
| Front on 4P contactors 125 to 200 A                 | 2 | - | - | - | 1 | 1 | LADN11P |
|   | 4 | - | - | - | 2 | 2 | LADN22P |

## With dust and damp protected contacts, for use in particularly harsh industrial environments

|       |   |   |   |   |   |         |                        |
|-------|---|---|---|---|---|---------|------------------------|
| Front | 2 | - | 2 | - | - | -       | LA1DX20                |
|       |   | 1 | 1 | - | - | -       | LA1DX11                |
|       |   | 2 | - | - | - | -       | LA1DX02                |
|       |   | - | 2 | 2 | - | -       | LA1DY20 <sup>(2)</sup> |
|       |   | - | 2 | - | 2 | -       | LA1DZ40                |
| 4     | - | 2 | - | 1 | 1 | LA1DZ31 |                        |

## Instantaneous auxiliary contact blocks for connection by lugs

This type of connection is not possible for blocks with 1 contact or blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the figure 6 to the end of the references selected above. Example: LAD N11 becomes LAD N116.

## Instantaneous auxiliary contact blocks for connection by spring terminals

This type of connection is not possible for LAD 8, LAD N with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure 3 to the end of the references selected above. Example: LAD N11 becomes LAD N113.

## Instantaneous auxiliary contact blocks for connection by Faston connectors

This type of connection is not possible for LAD 8, LAD N with 1 contact or blocks with dust and damp protected contacts. For all other contact blocks, add the figure 9 to the end of the references selected above. Example: LAD N11 becomes LAD N119.

Maximum number of auxiliary contacts that can be fitted:

| Contactors            | Type | Number of poles and size      | Instantaneous auxiliary contacts           |               |            |            | Time delay Front mounted |
|-----------------------|------|-------------------------------|--|---------------|------------|------------|--------------------------|
|                       |      |                               | Side mounted                               | Front mounted |            |            |                          |
|                       |      |                               |  | 1 contact     | 2 contacts | 4 contacts |                          |
| AC                    | 3P   | LC1 D09...D38                 | 1 on LH or 1 on RH side <sup>(1)</sup> and | -             | 1          | or 1       | or 1                     |
| AC/DC                 |      | LC1 D40A...D80A               | 1 on LH or 1 on RH side and                | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 D80 and D95 (50/60 Hz)    | 1 on each side or                          | 2             | and 1      | or 1       | or 1                     |
|                       |      | LC1 D80 and D95 (50 or 60 Hz) | 1 on each side and                         | 2             | and 1      | or 1       | or 1                     |
|                       |      | LC1 D115 and D150             | 1 on LH side and                           | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 DT20...DT40               | 1 on LH side and                           | -             | 1          | or 1       | or 1                     |
|                       | 4P   | LC1 DT60A and DT80A           | 1 on LH or 1 on RH side and                | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 D40008, D65008 and D80    | 1 on each side or                          | 1             | or 1       | or 1       | or 1                     |
|                       |      | LC1 D115                      | 1 on each side and                         | 1             | or 1       | or 1       | or 1                     |
|                       |      | LC1 D09...D38                 | -  | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 D40A...D80A               | -  | -             | 1          | or 1       | or 1                     |
| DC                    | 3P   | LC1 D80 and D95               | -  | 1             | or 1       | or 1       | or 1                     |
|                       |      | LC1 D115 and D150             | 1 on LH side and                           | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 DT20...DT40               | -  | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 DT60A and DT80A           | -  | -             | 1          | or 1       | or 1                     |
|                       |      | LC1 D40008, D65008 and D80    | -  | 2             | and 1      | or 1       | or 1                     |
|                       | 4P   | LC1 D115                      | 1 on each side                             | -             | and 1      | or 1       | or 1                     |
| LC <sup>(3) (5)</sup> | 3P   | LC1 D09...D38                 | -  | -             | 1          | -          | -                        |
|                       | 4P   | LC1 DT20...DT40               | -  | -             | 1          | -          | -                        |

(1) 1 on LH side for AC coils - 1 on RH side for AC/DC coils. (4) With red front face - for safety chain indication.

(2) Device fitted with 4 earth screen continuity terminals.

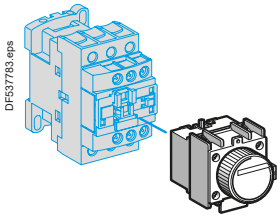
(5) LA1D●●● dust & damp proof auxiliary contact blocks not allowed.

(3) LC: low consumption.

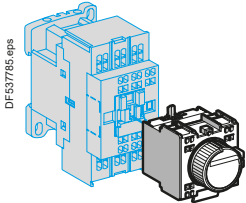
# TeSys contactors

TeSys D contactors and reversing contactors

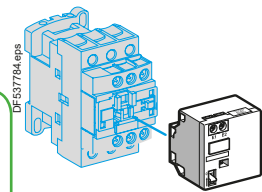
Time delay auxiliary contact blocks Mechanical latch blocks



LAD T●



LAD T●3



LAD 6K10●

Contactors

## Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, see page B8/23.

Sealing cover to be ordered separately, see page B8/29.

LAD T0 and LAD R0: with extended scale from 0.1 to 0.6 s.

LAD S2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.

| Clip-on mounting | Number of contacts | Time delay |               | Reference |
|------------------|--------------------|------------|---------------|-----------|
|                  |                    | Type       | Setting range |           |
| Front            | 1 N/O + 1 N/C      | On-delay   | 0.1...3 s     | LADT0     |
|                  |                    |            | 0.1...30 s    | LADT2     |
|                  |                    |            | 10...180 s    | LADT4     |
|                  |                    | Off-delay  | 1...30 s      | LADS2     |
|                  |                    |            | 0.1...3 s     | LADR0     |
|                  |                    |            | 0.1...30 s    | LADR2     |
|                  |                    | 10...180 s | LADR4         |           |

## Time delay auxiliary contact blocks for connection by lugs

Add the figure 6 to the end of the references selected above. Example: LAD T0 becomes LAD T06.

## Time delay auxiliary contact blocks for connection by spring terminals

Add the figure 3 to the end of the references selected above. Example: LAD T0 becomes LAD T03.

## Time delay auxiliary contact blocks for connection by Faston connectors

Add the figure 9 to the end of the references selected above. Example: LAD T0 becomes LAD T09.

## Mechanical latch blocks <sup>(1)</sup>

| Clip-on mounting | Unlatching control | For use on contactor  | Basic reference, to be completed by adding the control voltage code <sup>(2)</sup> |
|------------------|--------------------|---|--|
| Front            | Manual or electric | LC1 D09...D38 (~ or ---) <sup>(3)</sup>   | LAD6K10●   |
|                  |                    | LC1 DT20...DT40 (~ or ---)  | LAD6K10●   |
|                  |                    | LC1 D40A...D80A (3 P ~ or ---)  | LAD6K10●   |
|                  |                    | LC1 DT60A and DT80A (4 P ~ or ---)  | LAD6K10●   |
|                  |                    | LC1 D80...D150 (3 P ~)  | LA6DK20●   |
|                  |                    | LC1 D80 and D115 (3 P ---)<br>LC1 D80 (4 P ~)<br>LC1 D80 and D115 (4 P ~)<br>LP1 D80 and LC1 D115 (4 P ---) | LA6DK20●   |

<sup>(1)</sup> The mechanical latch block must not be powered up at the same time as the contactor. The duration of the control signal for the mechanical latch block and the contactor should be: ≥ 100 ms for a contactor operating on an a.c. supply, ≥ 250 ms for a contactor operating on a d.c. supply.

Maximum impulse duration for the LAD 6K10● mechanical latch block: 10 seconds.

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

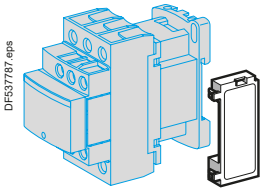
|                    |       |       |       |     |         |         |         |         |   |
|--------------------|-------|-------|-------|-----|---------|---------|---------|---------|---|
| Volts 50/60 Hz, 24 | 32/36 | 42/48 | 60/72 | 100 | 110/127 | 220/240 | 256/277 | 380/415 |   |
| ---                |       |       |       |     |         |         |         |         |   |
| Code               | B     | C     | E     | EN  | K       | F       | M       | U       | Q |

<sup>(3)</sup> The DC, low consumption contactors (coil code ●L) are not compatible with the mechanical latch blocks LAD6K10●.

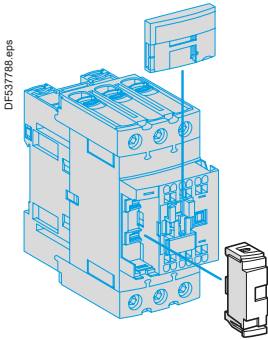
# TeSys contactors

## TeSys D contactors and reversing contactors

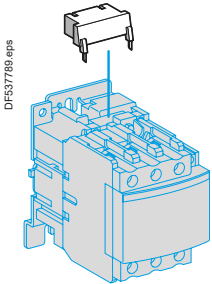
### Suppressor modules



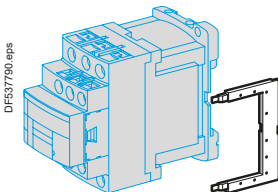
LAD 4••



LAD 4RC3•, LAD 4V3•,  
LAD 4D3U, LAD 4T3•



LA4 D••



LAD 4DDL or LAD 4T•DL

### RC circuits (Resistor-Capacitor)

Effective protection for circuits highly sensitive to "high frequency" interference. For use only in cases where the voltage is virtually sinusoidal. i.e. less than 5 % total harmonic distortion. Voltage limited to 3 Uc max. and oscillating frequency limited to 400 Hz max. Slight increase in drop-out time (1.2 to 2 times the normal time).

| Mounting                                 | For use with contactor <sup>(1)</sup><br>Rating | Type      |      | Reference |
|--|---|-----------|------|-----------|
|  |   | V~        | V--- |           |
| Clip-on side mounting <sup>(3)(5)</sup>  | D09...D38 (3P)<br>DT20...DT40                   | 24...48   | -    | LAD4RCE   |
|  |   | 50...127  | -    | LAD4RCG   |
|  |   | 110...250 | -    | LAD4RCU   |
| Clip-on front mounting <sup>(3)(5)</sup> | D40A...D65A (3P)<br>DT60A...DT80A (4P)          | 24...48   | -    | LAD4RC3E  |
|  |   | 50...127  | -    | LAD4RC3G  |
|  |   | 110...240 | -    | LAD4RC3U  |
|  |   | 380...415 | -    | LAD4RC3N  |
| Screw fixing <sup>(4)</sup>              | D80...D150 (3P)<br>D40...D115 (4P)              | 24...48   | -    | LA4DA2E   |
|  |   | 50...127  | -    | LA4DA2G   |
|  |   | 110...240 | -    | LA4DA2U   |
|  |   | 380...415 | -    | LA4DA2N   |

### Varistors (peak limiting)

Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time).

|  |  |           |           |         |
|--|--|-----------|-----------|---------|
| Clip-on side mounting <sup>(3)(5)</sup>  | D09...D38 (3P)<br>DT20...DT40          | 24...48   | -         | LAD4VE  |
|  |  | 50...127  | -         | LAD4VG  |
|  |  | 110...250 | -         | LAD4VU  |
| Clip-on front mounting <sup>(3)(5)</sup> | D40A...D65A (3P)<br>DT60A...DT80A (4P) | 24...48   | 24...48   | LAD4V3E |
|  |  | 50...127  | 50...127  | LAD4V3G |
|  |  | 110...250 | 110...250 | LAD4V3U |
|  |  | 380...415 | -         | LAD4V3N |
| Screw fixing <sup>(4)</sup>              | D80...D115 (3P)<br>D80...D115 (4P)     | 24...48   | -         | LA4DE2E |
|  |  | 50...127  | -         | LA4DE2G |
|  |  | 110...250 | -         | LA4DE2U |
|  | D80...D95 (3P)<br>D80 (4P)             | -         | 24...48   | LA4DE3E |
|  |  | -         | 50...127  | LA4DE3G |
|  |  | -         | 110...250 | LA4DE3U |

### Flywheel diodes

No overvoltage or oscillating frequency. Increase in drop-out time (6 to 10 times the normal time). Polarised component.

|                                       |                                      |   |          |         |
|---------------------------------------|--------------------------------------|---|----------|---------|
| Clip-on side mounting <sup>(5)</sup>  | D09...D38 (3P), DT20...DT40          | - | 5...600  | LAD4DDL |
| Clip-on front mounting <sup>(5)</sup> | D40A...D65A (3P), DT60A...DT80A (4P) | - | 24...250 | LAD4D3U |
| Screw fixing <sup>(4)</sup>           | D80 and D95 (3P), D40...D80 (4P)     | - | 24...250 | LA4DC3U |

### Bidirectional peak limiting diodes

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

|                                       |   |           |           |          |
|---------------------------------------|---|-----------|-----------|----------|
| Clip-on side mounting <sup>(3)</sup>  | D09...D38 (3P)<br>DT20...DT40 (4P) <sup>(2)</sup>     | 24        | -         | LAD4TB   |
|                                       |   | -         | 24        | LAD4TBDL |
|                                       |   | 72        | -         | LAD4TS   |
|                                       |   | -         | 72        | LAD4TSDL |
|                                       |   | -         | 125       | LAD4TGDL |
|                                       |   | -         | 250       | LAD4TUDL |
| Clip-on front mounting <sup>(3)</sup> | D40A...D65A (3P)<br>DT60A...DT80A (4P) <sup>(2)</sup> | 12...24   | 12...24   | LAD4T3B  |
|                                       |   | 25...72   | 25...72   | LAD4T3S  |
|                                       |   | 73...125  | 73...125  | LAD4T3G  |
|                                       |   | 126...250 | 126...250 | LAD4T3U  |
|                                       |   | 251...440 | 251...440 | LAD4T3R  |
|                                       |   | 441...600 | -         | LAD4T3N  |
| Screw fixing <sup>(4)</sup>           | D80...D95 (3P)<br>D40...D80 (4P)                      | 12...24   | -         | LA4DB2B  |
|                                       |   | 25...72   | -         | LA4DB2S  |
|                                       |   | -         | 24        | LA4DB3B  |
|                                       |   | -         | 72        | LA4DB3S  |

(1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor except for TeSys D Green (••E coil), as surge protection is already embedded.

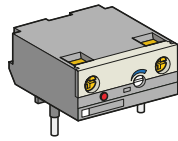
(2) From D09 to D65A and from LC1 DT20 to DT80A, d.c. low consumption or TeSys D Green 3-pole contactors are fitted with a built-in bidirectional peak limiting diode suppressor as standard. This bidirectional peak limiting diode is removable and can therefore be replaced by the user. (See reference above). If a d.c. or low consumption contactor is used without suppression, the standard suppressor should be replaced with a blanking plug (reference LAD 9DL for LC1 D09 to D38 and LC1 DT20 to DT40; reference LAD 9DL3 for LC1 D40A to D65A and LC1 DT60A to DT80A).

(3) Clipping-on makes the electrical connection. The overall size of the contactor remains unchanged.

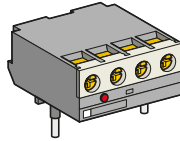
(4) Mounting at the top of the contactor on coil terminals A1 and A2.

(5) In order to install these accessories, the existing suppression device must first be removed.

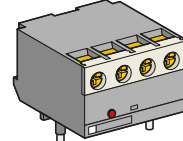




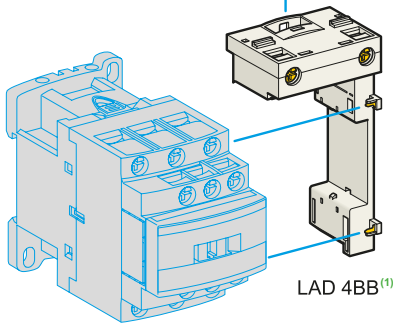
LA4 DT



LA4 DFB<sup>(1)</sup>

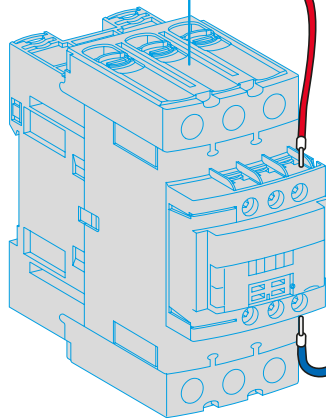


LA4 DWB



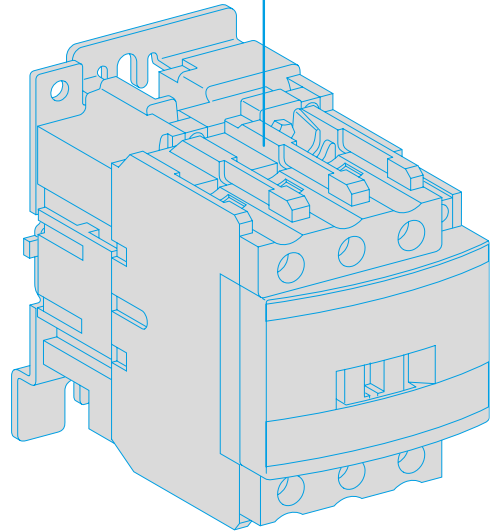
LC1 D09...D38

LAD 4BB<sup>(1)</sup>



LC1 D40A...D80A

LAD 4BB3



LC1 D80...D95

Contactors

See page opposite for mounting possibilities according to the contactor type.

<sup>(1)</sup> For TeSys D with AC coil only.

## TeSys contactors

TeSys D contactors and reversing contactors

Accessories

Electronic serial timer modules <sup>(1)</sup>

- 3-pole contactors LC1 D09 to D38: mounted using adapter LAD 4BB, to be ordered separately, see below.
- 3-pole contactors LC1 D40A to D65A: mounted using adapter LAD 4BB3, to be ordered separately, see below.
- 3-pole contactors LC1 D80 to D150 and 4-pole contactors LC1 D40 to D115: mounted directly across terminals A1 and A2 of the contactor.

## On-delay type

| Operational voltage ~ |                     | Time delay | Reference |
|-----------------------|---------------------|------------|-----------|
| 24...250 V            | 100...250 V         |            |           |
| LC1 D09...D80A (3P)   | LC1 D80...D150 (3P) | 0.1...2 s  | LA4DT0U   |
|                       |                     | 1.5...30 s | LA4DT2U   |
|                       |                     | 25...500 s | LA4DT4U   |

## Interface modules

- 3-pole contactors LC1 D09 to D38: mounted using adapter LAD 4BB, to be ordered separately, see below.
- 3-pole contactors LC1 D40A to D80A: mounted using adapter LAD4 BB3, to be ordered separately, see below.

## Relay interface

| Operational voltage ~ |  | Supply voltage E1-E2 (---) | Reference |
|-----------------------|--|----------------------------|-----------|
| 24...250 V            |  |                            |           |
| LC1 D09...D150 (3P)   |  | 24 V                       | LA4DFB    |

## Static relay interface

| Operational voltage ~ |                     | Supply voltage E1-E2 (---) | Reference |
|-----------------------|---------------------|----------------------------|-----------|
| 24...250 V            | 100...250 V         |                            |           |
| LC1 D09...D80A (3P)   | LC1 D80...D115 (3P) | 24 V                       | LA4DWB    |

## Adapter kit for low control signal

| For use on contactors               | Composition  | Reference |
|-------------------------------------|--|-----------|
| LC1 D40A...D80A (3P) <sup>(2)</sup> | <ul style="list-style-type: none"> <li>■ 1 LAD4BB3 coil wiring adapter</li> <li>■ 1 LA4DFB relay interface module</li> </ul> | LA4DBL    |

## Wiring adapters for coil retrofit of 3 pole contactors

## For adapting existing wiring to a new product

| For use on contactors |                          | Reference             |          |
|-----------------------|--------------------------|-----------------------|----------|
| LC1 D09...D38         | Without coil suppression | LAD4BB <sup>(3)</sup> |          |
|                       | With coil suppression    | ~ 24...48 V           | LAD4BBVE |
|                       |                          | ~ 50...127 V          | LAD4BBVG |
|                       |                          | ~ 110...250 V         | LAD4BBVU |
| LC1 D40A...80A        | Without coil suppression | LAD4BB3               |          |

<sup>(1)</sup> For 24 V operation, the contactor must be fitted with a 21 V coil (code Z).  
See pages B8/32 to B8/35.

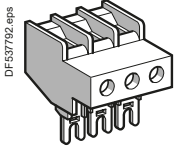
<sup>(2)</sup> The kit is compatible with a coil voltage of ~ 24 V to ~ 250 V (B7 to U7) and --- 24 V to --- 250 V (BD to UD).

<sup>(3)</sup> LAD4BB can not be used with 4 poles contactors.

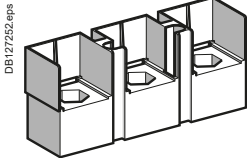
# TeSys contactors

## TeSys D contactors and reversing contactors

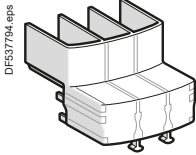
### Accessories



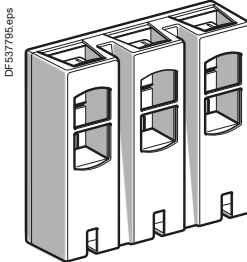
LA9 D3260



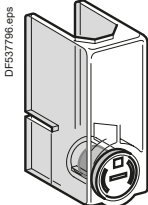
LA9 D11550



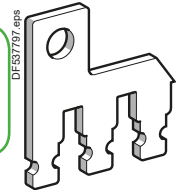
LA9 D11550



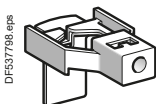
LA9 D11560



LA9 D11570



LA9 D80962



LA9 D11567

### Accessories for main pole and control connections

| Description  | For use with contactors LC1 |                 | Sold in lots of | Unit reference              |
|--|-----------------------------|-----------------|-----------------|-----------------------------|
|  | ~                           | ---             |                 |                             |
| Connectors for cable, size (1 connector)   | 4-pole 10 mm <sup>2</sup>   | DT20, DT25      | DT20, DT25      | 1 LA92560                   |
|  | 3-pole 25 mm <sup>2</sup>   | D09...D38       | D09...D38       | 1 LA9D3260                  |
| EverLink® terminal block   | 3-pole                      | D40A...D80A     | D40A...D80A     | 1 LA96560                   |
| Connectors for cables (2 connectors)   | 3-pole 120 mm <sup>2</sup>  | D115, D150      | D115, D150      | 1 LA9D115603                |
|  | 4-pole 120 mm <sup>2</sup>  | D115            | D115            | 1 LA9D115604                |
| Connectors for lug type terminals (2 connectors)   | 3-pole                      | D1156, D1506    | D1156, D1506    | 1 LA9D115503                |
|  | 4-pole                      | D1156           | D1156           | 1 LA9D115504                |
| Protective covers for connectors for lug type terminals  | 3-pole                      | D40A6...D80A6   | D40A6...D80A6   | 1 LA96570                   |
|  |                             | D1156, D1506    | D1156, D1506    | 1 LA9D115703 <sup>(1)</sup> |
|  | 4-pole                      | D60A6...D80A6   | D60A6...D80A6   | 1 LA96580                   |
|  |                             | D1156, D1506    | D1156, D1506    | 1 LA9D115704                |
| IP 20 covers for lug type terminals (for mounting with circuit breakers GV3 P●●6 and GV3 L●●6) | 3 poles                     | D40A6...D80A6   | D40A6...D80A6   | 1 LA96575                   |
| Links for parallel connection of   | 2 poles                     | D09...D38       | D09...D38       | 10 LA9D2561                 |
|  |                             | DT20, DT25 (4P) | DT20, DT25 (4P) | 10 LA9D1261                 |
|  |                             | DT32, DT40 (4P) | DT32, DT40 (4P) | 10 LA96061                  |
|  |                             | D40A...D80A     | D40A...D80A     | 1 LA9D9P32                  |
|  |                             | D80, D95        | D80, D95        | 2 LA9D80961                 |
|  | 3 poles                     | D09...D38       | D09...D38       | 10 LA9D9P3 <sup>(2)</sup>   |
|  |                             | D40A...D80A     | D40A...D80A     | 1 LA9D9P33                  |
|  | 4 poles                     | D80, D95        | D80, D95        | 1 LA9D80962                 |
|  |                             | DT20, DT25      | DT20, DT25      | 2 LA9D1263                  |
|  |                             | D80             | D80             | 2 LA9D80963                 |
| Staggered coil connection  | –                           | D80             | 10 LA9D09966    |                             |
| Control circuit take-off from main pole  | D80, D95                    | D80, D95        | 10 LA9D8067     |                             |
|  | D115, D150                  | D115, D150      | 10 LA9D11567    |                             |
| Spreaders for increasing the pole pitch to 45 mm   | D115, D150                  | D115, D150      | 3 GV7AC03       |                             |

(1) For 3-pole contactors: 1 set of 6 covers, for 4-pole contactors: 1 set of 8 covers.

(2) Separate connecting bar for connecting 2 poles in parallel.

Contactors

## TeSys contactors

TeSys D contactors and reversing contactors

Accessories

## Sets of contacts and arc chambers

| Description      | For contactor | Reference            |
|------------------|---------------|----------------------|
| Sets of contacts | 3-pole        | LC1 D115<br>LC1 D150 |
|                  | 4-pole        | LC1 D115004          |
| Arc chambers     | 3-pole        | LC1 D115<br>LC1 D150 |
|                  | 4-pole        | LC1 D115004          |

## Power connection accessories

|   |  |                              |
|---|--|------------------------------|
| Terminal block                                      | For supply to one or more GV2 G busbar sets  | <b>GV1G09</b>                |
| Set of 63 A busbars for parallelling of contactors  | 2 contactors LC1 D09...D18 or D25...D38  | <b>GV2G245</b>               |
|   | 4 contactors LC1 D09...D18 or D25...D38  | <b>GV2G445</b>               |
| Set of 115 A busbars for parallelling of contactors | 2 contactors LC1 D40A...D80A   | <b>GV3G264</b>               |
|   | 3 contactors LC1 D40A...D80A   | <b>GV3G364<sup>(1)</sup></b> |
| Set of S-shape busbars                              | For circuit breakers GV3 P●● and GV3 L●● <sup>(3)</sup> and contactors LC1 D40A...D73A | <b>GV3S</b>                  |

## Protection accessories

| Description  | Use                                     | Sold in lots of | Reference       |
|--|---|-----------------|-----------------|
| Miniature control circuit fuse holder                        | 5 x 20 with 4 A-250 V fuse              | <b>1</b>        | <b>LA9D941</b>  |
| Sealing cover  | For LAD T, LAD R                        | <b>1</b>        | <b>LA9D901</b>  |
| Safety cover preventing access to the moving contact carrier | LC1 D09...D80A and DT20...DT80A         | <b>1</b>        | <b>LAD9ET1</b>  |
|  | Red cover (for safety chain indication) | <b>1</b>        | <b>LAD9ET1S</b> |
|  | LC1 D80 and D95                         | <b>1</b>        | <b>LAD9ET3</b>  |
|  | Red cover (for safety chain indication) | <b>1</b>        | <b>LAD9ET3S</b> |
|  | LC1 D115 and D150                       | <b>1</b>        | <b>LAD9ET4</b>  |
|  | Red cover (for safety chain indication) | <b>1</b>        | <b>LAD9ET4S</b> |

## Marking accessories

| Description  | Use   | Sold in lots of | Unit reference |
|--|---|-----------------|----------------|
| Sheet of 64 blank legends, self-adhesive, 8 x 33 mm <sup>(2)</sup>         | Contactors (except 4P)<br>LC1 D80...D115,<br>LAD N (4 contacts), LA6 DK | <b>10</b>       | <b>LAD21</b>   |
| Sheet of 112 blank legends, self-adhesive, 8 x 12 mm <sup>(2)</sup>        | LAD N (2 contacts),<br>LAD T, LAD R, LRD                                | <b>10</b>       | <b>LAD22</b>   |
| Sheet of 64 blank legends for marking using plotter or 8 x 33 mm engraver  | Contactors (except 4P)<br>LC1 D80...D115,<br>LAD (4 contacts), LA6 DK   | <b>10</b>       | <b>LAD23</b>   |
| Sheet of 440 blank legends for marking using plotter or 8 x 12 mm engraver | All products  | <b>35</b>       | <b>LAD24</b>   |
| Marker holder snap-in, 8 x 22 mm   | 4-pole contactors,<br>LC1 D80...D115, LA6 DK                            | <b>100</b>      | <b>LA9D92</b>  |
| Marker holder snap-in, 8 x 18 mm   | LC1 D09...D65A, LC1 DT20...DT80A,<br>LAD N (4 contacts), LAD T, LAD R   | <b>100</b>      | <b>LAD90</b>   |
| Bag of 300 blank legends self-adhesive, 7 x 21 mm                          | On holder LA9 D92   | <b>1</b>        | <b>LA9D93</b>  |

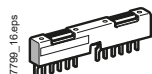
## Mounting accessories

|                                     |   |          |                  |
|-------------------------------------|---|----------|------------------|
| Retrofit plate for screw fixing     | For replacement of LC1 D40 to D80 with LC1 D40A to D80A   | <b>1</b> | <b>LAD7X3</b>    |
| Mounting plate                      | For replacement of LC1 F115 or F150 with LC1 D115 or D150 | <b>1</b> | <b>LA9D730</b>   |
| Size 4 Allen key, insulated, 1000 V | For use on contactors LC1 D40A to LC1 D150                | <b>5</b> | <b>LADALLEN4</b> |

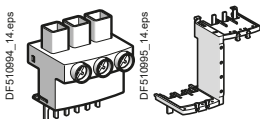
<sup>(1)</sup> With this set of busbars, any one contactor can be supplied directly by its EverLink® double cage power terminal block. The other two contactors are supplied by the busbar set. The 115 A limitation is therefore applied to these two contactors. Example: 1 **LC1 D65A** supplied directly + 1 contactor **LC1 D65A** and 1 contactor **LC1 D50 A** supplied via the busbar set = 115 A. This combination is compatible with busbar set **GV3 G364**.

<sup>(2)</sup> These legends are for sticking onto the safety cover of the contactors or add-on block, if fitted.

<sup>(3)</sup> With 73 A current limit for **GV3L73**, **GV3P73**.

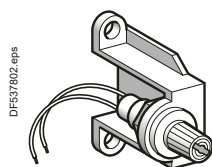


GV2 G245

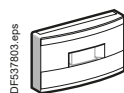


GV1 G09

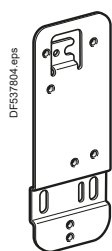
GV3 S



LA9 D941



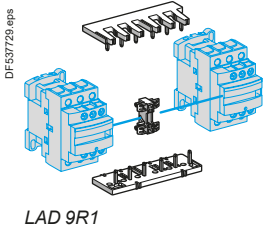
LAD 9ET●



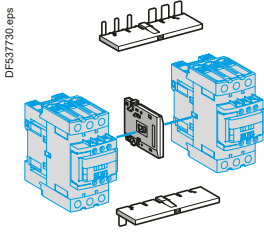
LAD 7X3

# TeSys contactors

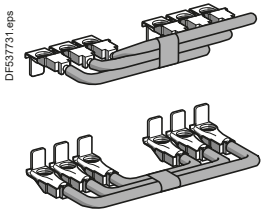
Component parts for assembling reversing contactors for motor control, low-speed/high-speed starters and star-delta starters



LAD 9R1



LAD 9R3



LA9 D8069

## For 3-pole reversing contactors for motor control

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

| Description | For contactors <sup>(1)</sup><br>(2 identical contactors) | Reference |
|-------------|---|-----------|
|-------------|---|-----------|

### Kits for assembly of reversing contactors

|  |                  |                |
|--|------------------|----------------|
| Kit comprising:<br>■ a mechanical interlock <b>LAD 9V2</b><br>with electrical interlocking <b>LAD 9V1</b><br>■ a set of power connections <b>LAD 9V5</b> (parallel)<br>and <b>LAD 9V6</b> (reversing). | LC1 D09 to D38   | <b>LAD9R1V</b> |
| Kit comprising:<br>■ a mechanical interlock <b>LAD 9V2</b><br>without electrical interlocking<br>■ a set of power connections <b>LAD 9V5</b> (parallel)<br>and <b>LAD 9V6</b> (reversing).             | LC1 D09 to D38   | <b>LAD9R1</b>  |
| Kit comprising:<br>■ a mechanical interlock <b>LAD 4CM</b><br>■ a set of power connections <b>LA9 D65A69</b> .   | LC1 D40A to D80A | <b>LAD9R3</b>  |

### Mechanical interlocks

|  |                      |                  |
|--|----------------------|------------------|
| Mechanical interlock with<br>integral electrical interlocking    | LC1 D80 and D95 (∩)  | <b>LA9D4002</b>  |
|  | LC1 D80 and D95 (∩∩) | <b>LA9D8002</b>  |
|  | LC1 D115 and D150    | <b>LA9D11502</b> |
| Mechanical interlock without<br>integral electrical interlocking | LC1 D09 to D38       | <b>LAD9V2</b>    |
|  | LC1 D40A to D80A     | <b>LAD4CM</b>    |
|  | LC1 D80 and D95 (∩)  | <b>LA9D50978</b> |
|  | LC1 D80 and D95 (∩∩) | <b>LA9D80978</b> |

### Sets of power connections

|  |  |   |
|--|--|---|
| Comprising:<br>■ a set of parallel bars<br>■ a set of reverser bars. | LC1 D09 to D38 with screw<br>clamp terminals or connectors | <b>LAD9V5 + LAD9V6</b>                  |
|  | LC1 D09...D32 with<br>spring terminal connections          | <b>LAD9V12 + LAD9V13 <sup>(2)</sup></b> |
|  | LC1 D40A to D80A   | <b>LA9D65A69</b>                        |
|  | LC1 D80 and D95 (∩)  | <b>LA9D8069</b>                         |
|  | LC1 D80 and D95 (∩∩)                                       | <b>LA9D8069</b>                         |
|  | LC1 D115 and D150  | <b>LA9D11569</b>                        |

## For low-speed/high-speed starter

| Description   | For LC1D09... D38 contactors<br>with connection type | Reference        |
|---|--|------------------|
| Connection kit enabling<br>reversing of low and high speed directions<br>using a reversing contactor and a 2N/O + 2N/C<br>main pole contactor | Screw clamps or connectors                           | <b>LAD9PVG V</b> |
|   | Spring terminals                                     | <b>LAD3PVG V</b> |

## For star-delta starter

| Description   | For contactors                | Reference        | Without timer LADS2 |
|---|-------------------------------|------------------|---------------------|
| Mounting kit comprising:<br>■ 1 time delay contact block <b>LAD S2 (LC1 D09...D80)</b> ,<br>■ power circuit connections ( <b>LC1 D09...D80</b> ),<br>■ hardware required for fixing the contactors<br>onto the mounting plate ( <b>LC1 D80</b> ). | LC1 D09 to D38 <sup>(3)</sup> | <b>LAD91217</b>  | <b>LAD91218</b>     |
|   | LC1 D09 to D38 <sup>(4)</sup> | <b>LAD93217</b>  | <b>LAD93218</b>     |
|   | LC1 D40A to D65A              | <b>LAD9SD3</b>   | –                   |
|   | LC1 D80                       | <b>LA9D8017</b>  | –                   |
| Equipment mounting plates   | LC1 D09 to D38                | <b>LA9D12974</b> |                     |
|   | LC1 D40A and D50A             | –                |                     |
|   | LC1 D80                       | <b>LA9D80973</b> |                     |

(1) To order the 2 contactors: see pages B8/3 and B8/16.

(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**.

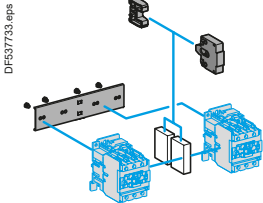
(If **LAD 331** is not used, replace **LAD 9V11** with **LAD 9V13**).

(3) For assembly of 3 contactors of the same physical size (depth).

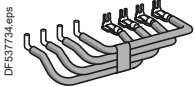
(4) For assembly of 3 contactors with star contactor physically smaller (depth).

# TeSys contactors

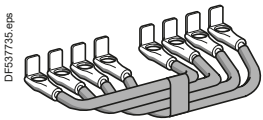
## Component parts for assembling changeover contactor pairs



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.

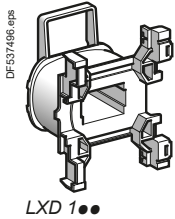
| Description   | For contactors <sup>(1)</sup><br>(2 identical contactors) | Reference                      |
|---|---|--------------------------------|
| <b>Kits for assembly of changeover contactor pairs</b>  |   |                                |
| Kit comprising:<br>■ a mechanical interlock LAD 9V2 with electrical interlocking LAD 9V1,<br>■ a set of power connections (changeover) LAD 9V7. | LC1 DT20 to DT40 with screw clamps or connectors          | <b>LADT9R1V</b>                |
| Kit comprising:<br>■ a mechanical interlock LAD 9V2 without electrical interlocking,<br>■ a set of power connections (changeover) LAD 9V7.      | LC1 DT20 to DT40 with screw clamps or connectors          | <b>LADT9R1</b>                 |
| <b>Mechanical interlocks</b>  |   |                                |
| With integral electrical interlocking   | LC1 D80004  | <b>LA9D4002</b>                |
|   | LP1 D80004  | <b>LA9D8002</b>                |
|   | LC1 D115004   | <b>LA9D11502</b>               |
| Without integral electrical interlocking  | LC1 DT20 to DT40 with screw clamps or connectors          | <b>LAD9V2 <sup>(2)</sup></b>   |
|   | LC1 DT203 to DT403 with spring terminals                  | <b>LAD9V2 <sup>(2)</sup></b>   |
|   | LC1 DT60A and DT80A                                       | <b>LAD4CM</b>                  |
|   | LC1 D80004  | <b>LA9D50978</b>               |
|   | LP1 D80004  | <b>LA9D80978</b>               |
| <b>Sets of power connections</b>  |   |                                |
| Comprising a set of parallel bars   | LC1 D80004  | <b>LA9D8070</b>                |
|   | LP1 D80004  | <b>LA9D8070</b>                |
|   | LC1 D115004   | <b>LA9D11570</b>               |
|   | LC1 DT203 to DT403 with spring terminals                  | <b>LAD9V9</b>                  |
|   | LC1 D80004  | <b>LA9D8070 <sup>(2)</sup></b> |
|   | LP1 D80004  | <b>LA9D8070 <sup>(2)</sup></b> |
| <b>For 3-pole changeover contactor pairs</b>  |   |                                |
| Contactors with screw clamp terminals or connectors. Horizontally mounted, assembled by customer.   |   |                                |
| Description   | For contactors <sup>(1)</sup><br>(2 identical contactors) | Reference                      |
| <b>Kits for assembly of changeover contactor pairs</b>  |   |                                |
| Kit comprising:<br>■ a mechanical interlock LAD4CM<br>■ a set of parallel bars LA9D65A6   | LC1 D40A...D80A   | <b>LAD9R3S</b>                 |
| <b>Mechanical interlocks</b>  |   |                                |
| Without integral electrical interlocking  | LC1 D40A...D80A   | <b>LAD4CM</b>                  |
| With integral electrical interlocking   | LC1 D115 and D150   | <b>LA9D11502</b>               |
| <b>Sets of power connections</b>  |   |                                |
| Comprising a set of parallel bars   | LC1 D40A...D80A   | <b>LA9D65A6</b>                |
|   | LC1 D115 and D150   | <b>LA9D11571</b>               |

<sup>(1)</sup> To order the 2 contactors: see pages B8/3 and B8/16.

<sup>(2)</sup> Order 2 contact blocks **LAD N•1** to build the electrical interlock, see page B8/23.

## TeSys contactors

a.c. coils for TeSys D, 3 or 4-pole contactors



### For ~ contactors LC1 D09...D38 and LC1 DT20...DT40

#### Specifications

Average consumption at 20 °C:

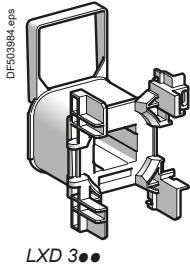
■ inrush ( $\cos \phi = 0.75$ ) 70 VA,■ sealed ( $\cos \phi = 0.3$ ) 50 Hz: 7 VA, 60 Hz: 7.5 VA.Operating range ( $\theta \leq 60$  °C): 50 Hz: 0.8...1.1 Uc, 60 Hz: 0.85...1.1 Uc.

| Control circuit voltage<br>Uc | Average resistance<br>at 20 °C $\pm 10$ % | Inductance of<br>closed circuit | Reference <sup>(1)</sup> |
|-------------------------------|---|---------------------------------|--------------------------|
| V                             | $\Omega$                                  | H                               | 50/60 Hz                 |
| 12                            | 1.33                                      | 0.05                            | LXD1J7                   |
| 21 <sup>(2)</sup>             | 4.17                                      | 0.17                            | LXD1Z7                   |
| 24                            | 5.37                                      | 0.22                            | LXD1B7                   |
| 32                            | 10.1                                      | 0.39                            | LXD1C7                   |
| 36                            | 12.8                                      | 0.49                            | LXD1CC7                  |
| 42                            | 17  | 0.67                            | LXD1D7                   |
| 48                            | 21.7                                      | 0.87                            | LXD1E7                   |
| 60                            | 34.6                                      | 1.4                             | LXD1EE7                  |
| 100                           | 100.4                                     | 3.8                             | LXD1K7                   |
| 110                           | 124.1                                     | 4.6                             | LXD1F7                   |
| 115                           | 129.8                                     | 5                               | LXD1FE7                  |
| 120                           | 150.6                                     | 5.4                             | LXD1G7                   |
| 127                           | 158.5                                     | 6.1                             | LXD1FC7                  |
| 200                           | 410.7                                     | 15                              | LXD1L7                   |
| 208                           | 430.4                                     | 16                              | LXD1LE7                  |
| 220                           | 515.4                                     | 18                              | LXD1M7 <sup>(3)</sup>    |
| 230                           | 538.6                                     | 20                              | LXD1P7                   |
| 240                           | 562.3                                     | 22                              | LXD1U7                   |
| 277                           | 800.7                                     | 29                              | LXD1W7                   |
| 380                           | 1551                                      | 55                              | LXD1Q7 <sup>(4)</sup>    |
| 400                           | 1633                                      | 60                              | LXD1V7                   |
| 415                           | 1694                                      | 65                              | LXD1N7                   |
| 440                           | 1993                                      | 73                              | LXD1R7                   |
| 480                           | 2398                                      | 87                              | LXD1T7                   |
| 500                           | 2499                                      | 95                              | LXD1S7                   |
| 575                           | 3294                                      | 125                             | LXD1SC7                  |
| 600                           | 3810                                      | 136                             | LXD1X7                   |
| 660                           | 4656                                      | 165                             | LXD1YC7                  |
| 690                           | 5020                                      | 180                             | LXD1Y7                   |

<sup>(1)</sup> The last 2 digits in the reference represent the voltage code.<sup>(2)</sup> Voltage for special coils fitted in contactors with serial timer modules, with 24 V supply.<sup>(3)</sup> Suitable for use on 230 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see page B8/62 and B8/64).<sup>(4)</sup> Suitable for use on 400 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see page B8/62 and B8/64).

## TeSys contactors

a.c. coils for TeSys D, 3 or 4-pole contactors



## For ~ contactors LC1 D40A...D80A, LC1 DT60A and LC1 DT80A

### Specifications

Average consumption at 20 °C:

■ inrush ( $\cos \phi = 0.75$ ) 160 VA,■ sealed ( $\cos \phi = 0.3$ ) 50 Hz: 15 VA, 60 Hz: 15 VA.Operating range ( $\theta \leq 60$  °C): 50 Hz: 0.8...1.1 Uc, 60 Hz: 0.85...1.1 Uc.

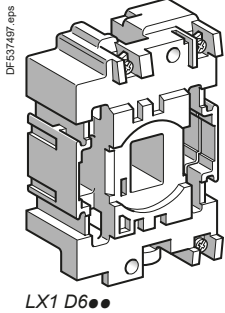
| Control circuit voltage<br>Uc | Average resistance<br>at 20 °C $\pm 10\%$ | Inductance of<br>closed circuit | Reference <sup>(1)</sup>          |
|-------------------------------|---|---------------------------------|-----------------------------------|
| V                             | $\Omega$                                  | H                               |                                   |
| 12                            | 0.49                                      | 0.03                            | 50/60 Hz<br>LXD3J5 <sup>(2)</sup> |
| 24                            | 1.98                                      | 0.12                            | LXD3B7                            |
| 32                            | 3.76                                      | 0.22                            | LXD3C7                            |
| 42                            | 6.18                                      | 0.37                            | LXD3D7                            |
| 48                            | 7.97                                      | 0.48                            | LXD3E7                            |
| 100                           | 37.63                                     | 2.07                            | LXD3K7                            |
| 110                           | 42.28                                     | 2.50                            | LXD3F7                            |
| 115                           | 48.76                                     | 2.74                            | LXD3FE7                           |
| 120                           | 37.63                                     | 2.07                            | LXD3G7 <sup>(5)</sup>             |
| 127                           | 60.29                                     | 3.34                            | LXD3FC7                           |
| 200                           | 149                                       | 8.27                            | LXD3L7                            |
| 208                           | 105                                       | 6.22                            | LXD3LE7 <sup>(5)</sup>            |
| 220                           | 182                                       | 10                              | LXD3M7 <sup>(3)</sup>             |
| 230                           | 192                                       | 10.9                            | LXD3P7                            |
| 240                           | 202                                       | 11.9                            | LXD3U7                            |
| 277                           | 193                                       | 11                              | LXD3W7 <sup>(5)</sup>             |
| 380                           | 512                                       | 29.9                            | LXD3Q7 <sup>(4)</sup>             |
| 400                           | 607                                       | 33.1                            | LXD3V7                            |
| 415                           | 635                                       | 35.6                            | LXD3N7                            |
| 440                           | 682                                       | 40.1                            | LXD3R7                            |
| 480                           | 607                                       | 33.1                            | LXD3T7 <sup>(5)</sup>             |
| 500                           | 878                                       | 51.7                            | LXD3S7                            |
| 575                           | 1238                                      | 68.4                            | LXD3SC7                           |
| 600                           | 1304                                      | 74.5                            | LXD3X7                            |
| 660                           | 1593                                      | 90.1                            | LXD3YC7                           |
| 690                           | 1683                                      | 98.5                            | LXD3Y7                            |

<sup>(1)</sup> The last 2 digits in the reference represent the voltage code.<sup>(2)</sup> This coil can only be used on 50 Hz.<sup>(3)</sup> Suitable for use on 230 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see page B8/62 and B8/64).<sup>(4)</sup> Suitable for use on 400 V / 50 Hz. In this case, apply a coefficient of 0.6 to the mechanical durability of the contactor (see page B8/62 and B8/64).<sup>(5)</sup> This coil can only be used on 60 Hz.



## TeSys contactors

a.c. coils for TeSys D, 3 or 4-pole contactors



## For 3 or 4-pole contactors LC1D40, D50, D65, D80, D95

## Specifications

Average consumption at 20 °C:

■ inrush ( $\cos \phi = 0.75$ ) 50 Hz: 200 VA, 60 Hz: 220 VA■ sealed ( $\cos \phi = 0.3$ ) 50 Hz: 20 VA, 60 Hz: 22 VA.Operating range ( $\theta \leq 55$  °C): 0.85...1.1 Uc.

| Control circuit voltage Uc | Average resistance at 20 °C $\pm 10$ % | Inductance of closed circuit | Reference <sup>(1)</sup> | Average resistance at 20 °C $\pm 10$ % |      | Reference <sup>(1)</sup> |
|----------------------------|--|------------------------------|--------------------------|--|------|--------------------------|
|                            |  |                              |                          | $\Omega$                               | H    |                          |
|                            |  |                              | <b>50 Hz</b>             |  |      | <b>60 Hz</b>             |
| 24                         | 1.4                                    | 0.09                         | <b>LX1D6B5</b>           | 1.05                                   | 0.06 | <b>LX1D6B6</b>           |
| 32                         | 2.6                                    | 0.16                         | <b>LX1D6C5</b>           | –                                      | –    | –                        |
| 42                         | 4.4                                    | 0.27                         | <b>LX1D6D5</b>           | –                                      | –    | –                        |
| 48                         | 5.5                                    | 0.35                         | <b>LX1D6E5</b>           | 4.2                                    | 0.23 | <b>LX1D6E6</b>           |
| 110                        | 31                                     | 1.9                          | <b>LX1D6F5</b>           | 22                                     | 1.2  | <b>LX1D6F6</b>           |
| 115                        | 31                                     | 1.9                          | <b>LX1D6FE5</b>          | –                                      | –    | –                        |
| 120                        | –                                      | –                            | –                        | 28                                     | 1.5  | <b>LX1D6G6</b>           |
| 127                        | 41                                     | 2.4                          | <b>LX1D6G5</b>           | –                                      | –    | –                        |
| 208                        | –                                      | –                            | –                        | 86                                     | 4.3  | <b>LX1D6L6</b>           |
| 220                        | –                                      | –                            | –                        | 98                                     | 4.8  | <b>LX1D6M6</b>           |
| 220/230                    | 127                                    | 7.5                          | <b>LX1D6M5</b>           | –                                      | –    | –                        |
| 230                        | 133                                    | 8.1                          | <b>LX1D6P5</b>           | –                                      | –    | –                        |
| 240                        | 152                                    | 8.7                          | <b>LX1D6U5</b>           | 120                                    | 5.7  | <b>LX1D6U6</b>           |
| 256                        | 166                                    | 10                           | <b>LX1D6W5</b>           | –                                      | –    | –                        |
| 277                        | –                                      | –                            | –                        | 157                                    | 8    | <b>LX1D6W6</b>           |
| 380                        | –                                      | –                            | –                        | 300                                    | 14   | <b>LX1D6Q6</b>           |
| 380/400                    | 381                                    | 22                           | <b>LX1D6Q5</b>           | –                                      | –    | –                        |
| 400                        | 411                                    | 25                           | <b>LX1D6V5</b>           | –                                      | –    | –                        |
| 415                        | 463                                    | 26                           | <b>LX1D6N5</b>           | –                                      | –    | –                        |
| 440                        | 513                                    | 30                           | <b>LX1D6R5</b>           | 392                                    | 19   | <b>LX1D6R6</b>           |
| 480                        | –                                      | –                            | –                        | 480                                    | 23   | <b>LX1D6T6</b>           |
| 500                        | 668                                    | 38                           | <b>LX1D6S5</b>           | –                                      | –    | –                        |
| 575                        | –                                      | –                            | –                        | 675                                    | 33   | <b>LX1D6S6</b>           |
| 600                        | –                                      | –                            | –                        | 775                                    | 36   | <b>LX1D6X6</b>           |
| 660                        | 1220                                   | 67                           | <b>LX1D6Y5</b>           | –                                      | –    | –                        |

## Specifications

Average consumption at 20 °C:

■ inrush ( $\cos \phi = 0.75$ ) 50/60 Hz: 245 VA at 50 Hz■ sealed ( $\cos \phi = 0.3$ ) 50/60 Hz: 26 VA at 50 Hz.Operating range ( $\theta \leq 55$  °C): 0.85...1.1 Uc.

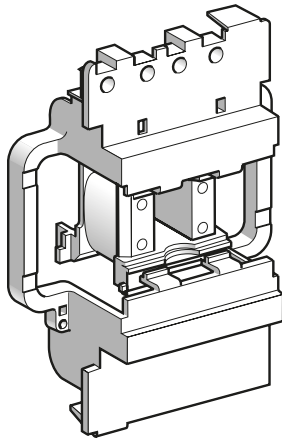
|                        |   |   |   | <b>50/60 Hz</b> |      |                 |
|------------------------|---|---|---|-----------------|------|-----------------|
| 24                     | – | – | – | 1.22            | 0.08 | <b>LX1D6B7</b>  |
| 42                     | – | – | – | 3.5             | 0.25 | <b>LX1D6D7</b>  |
| 48                     | – | – | – | 5               | 0.32 | <b>LX1D6E7</b>  |
| 110                    | – | – | – | 26              | 1.7  | <b>LX1D6F7</b>  |
| 115                    | – | – | – | –               | –    | <b>LX1D6FE7</b> |
| 120                    | – | – | – | 32              | 2    | <b>LX1D6G7</b>  |
| 220/230 <sup>(2)</sup> | – | – | – | 102             | 6.7  | <b>LX1D6M7</b>  |
| 230                    | – | – | – | 115             | 7.7  | <b>LX1D6P7</b>  |
| 230/240 <sup>(3)</sup> | – | – | – | 131             | 8.3  | <b>LX1D6U7</b>  |
| 380/400 <sup>(4)</sup> | – | – | – | 310             | 20   | <b>LX1D6Q7</b>  |
| 400                    | – | – | – | 349             | 23   | <b>LX1D6V7</b>  |
| 415                    | – | – | – | 390             | 24   | <b>LX1D6N7</b>  |
| 440                    | – | – | – | 410             | 27   | <b>LX1D6R7</b>  |

<sup>(1)</sup> The last 2 digits in the reference represent the voltage code.<sup>(2)</sup> For use on 230 V / 50 Hz, apply a coefficient of 0.6 to the mechanical durability of the contactor, see page B8/62 and B8/64. This coil can be used on 240 V at 60 Hz.<sup>(3)</sup> This coil can be used on 220/240 V at 50 Hz and on 240 V only at 60 Hz.<sup>(4)</sup> For use on 400 V / 50 Hz, apply a coefficient of 0.6 to the mechanical durability of the contactor, see page B8/62 and B8/64.

## TeSys contactors

a.c. coils for TeSys D, 3 or 4-pole contactors

DF:337502.eps



LX1 D8●●

## For 3 or 4-pole contactors LC1 D115

## Specifications

Average consumption at 20 °C:

■ inrush (cos  $\phi$  = 0.8) 50 or 60 Hz: 300 VA■ sealed (cos  $\phi$  = 0.3) 50 or 60 Hz: 22 VA.Operating range ( $\theta \leq 55$  °C): 0.85...1.1 Uc.

| Control circuit voltage Uc | Average resistance at 20 °C $\pm 10$ % | Inductance of closed circuit | Reference (1) | Average resistance at 20 °C $\pm 10$ % | Inductance of closed circuit | Reference (1) |
|----------------------------|--|------------------------------|---------------|--|------------------------------|---------------|
| V                          | $\Omega$                               | H                            |               | $\Omega$                               | H                            |               |
|                            |  |                              | 50 Hz         | 60 Hz                                  |                              |               |
| 24                         | 1.24                                   | 0.09                         | LX1D8B5       | 0.87                                   | 0.07                         | LX1D8B6       |
| 32                         | 2.14                                   | 0.17                         | LX1D8C5       | –                                      | –                            | –             |
| 42                         | 3.91                                   | 0.28                         | LX1D8D5       | –                                      | –                            | –             |
| 48                         | 4.51                                   | 0.36                         | LX1D8E5       | 3.91                                   | 0.28                         | LX1D8E6       |
| 110                        | 26.53                                  | 2.00                         | LX1D8F5       | 19.97                                  | 1.45                         | LX1D8F6       |
| 115                        | 26.53                                  | 2.00                         | LX1D8FE5      | –                                      | –                            | –             |
| 120                        | –                                      | –                            | –             | 24.02                                  | 1.70                         | LX1D8G6       |
| 127                        | 32.75                                  | 2.44                         | LX1D8FC5      | –                                      | –                            | –             |
| 208                        | –                                      | –                            | –             | 67.92                                  | 5.06                         | LX1D8L6       |
| 220                        | 104.77                                 | 7.65                         | LX1D8M5       | 79.61                                  | 5.69                         | LX1D8M6       |
| 230                        | 104.77                                 | 8.29                         | LX1D8P5       | –                                      | –                            | –             |
| 240                        | 125.25                                 | 8.89                         | LX1D8U5       | 97.04                                  | 6.75                         | LX1D8U6       |
| 277                        | –                                      | –                            | –             | 125.75                                 | 8.89                         | LX1D8W6       |
| 380                        | 338.51                                 | 22.26                        | LX1D8Q5       | 243.07                                 | 17.04                        | LX1D8Q6       |
| 400                        | 368.43                                 | 25.55                        | LX1D8V5       | –                                      | –                            | –             |
| 415                        | 368.43                                 | 27.65                        | LX1D8N5       | –                                      | –                            | –             |
| 440                        | 441.56                                 | 30.34                        | LX1D8R5       | 338.51                                 | 22.26                        | LX1D8R6       |
| 480                        | –                                      | –                            | –             | 368.43                                 | 25.55                        | LX1D8T6       |
| 500                        | 566.62                                 | 38.12                        | LX1D8S5       | –                                      | –                            | –             |

## For 3 or 4-pole contactors LC1 D115, LC1 D150

## Specifications

Average consumption at 20 °C:

■ inrush: cos  $\phi$  = 0.9 - 280 to 350 VA■ sealed: cos  $\phi$  = 0.9 - 2 to 18 VA.Operating range ( $\theta \leq 55$  °C): 0.8...1.15 Uc.

Coils with integral suppression device fitted as standard, class B.

| Control circuit voltage Uc | Average resistance at 20 °C $\pm 10$ % | Inductance of closed circuit | Reference (1) | Average resistance at 20 °C $\pm 10$ % | Inductance of closed circuit | Reference (1) |
|----------------------------|--|------------------------------|---------------|--|------------------------------|---------------|
| V                          | $\Omega$                               | H                            |               | $\Omega$                               | H                            |               |
| 50/60 Hz                   |  |                              |               |  |                              |               |
| 24                         | –                                      | –                            | –             | 147                                    | 3.03                         | LX1D8B7       |
| 32                         | –                                      | –                            | –             | 301                                    | 8.28                         | LX1D8C7       |
| 42                         | –                                      | –                            | –             | 498                                    | 13.32                        | LX1D8D7       |
| 48                         | –                                      | –                            | –             | 1061                                   | 24.19                        | LX1D8E7       |
| 110                        | –                                      | –                            | –             | 4377                                   | 109.69                       | LX1D8F7       |
| 115                        | –                                      | –                            | –             | 4377                                   | 109.69                       | LX1D8FE7      |
| 120                        | –                                      | –                            | –             | 4377                                   | 109.69                       | LX1D8G7       |
| 127                        | –                                      | –                            | –             | 6586                                   | 152.65                       | LX1D8FC7      |
| 208                        | –                                      | –                            | –             | 10 895                                 | 260.15                       | LX1D8LE7      |
| 220                        | –                                      | –                            | –             | 9895                                   | 210.72                       | LX1D8M7       |
| 230                        | –                                      | –                            | –             | 9895                                   | 210.72                       | LX1D8P7       |
| 240                        | –                                      | –                            | –             | 9895                                   | 210.72                       | LX1D8U7       |
| 277                        | –                                      | –                            | –             | 21 988                                 | 533.17                       | LX1D8UE7      |
| 380                        | –                                      | –                            | –             | 21 011                                 | 482.42                       | LX1D8Q7       |
| 400                        | –                                      | –                            | –             | 21 011                                 | 482.42                       | LX1D8V7       |
| 415                        | –                                      | –                            | –             | 21 011                                 | 482.42                       | LX1D8N7       |
| 440                        | –                                      | –                            | –             | 21 501                                 | 507.47                       | LX1D8R7       |
| 480                        | –                                      | –                            | –             | 32 249                                 | 938.41                       | LX1D8T7       |
| 500                        | –                                      | –                            | –             | 32 249                                 | 938.41                       | LX1D8S7       |

(1) The last 2 digits in the reference represent the voltage code.

## TeSys contactors

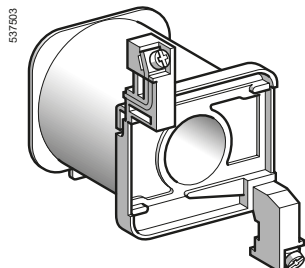
d.c. coils for TeSys D, 3 or 4-pole contactors

## For 3-pole contactors LC1 D80 or 4-pole contactors LP1 D80

## Specifications

Average consumption: 22 W.

Operating range: 0.85...1.1 Uc.



LX4 D7●D

| Control circuit voltage<br>Uc | Average resistance<br>at 20 °C ± 10% | Inductance of<br>closed circuit | Reference <sup>(1)</sup> | Weight |
|-------------------------------|--------------------------------------|---------------------------------|--------------------------|--------|
| V                             | Ω                                    | H                               |                          | kg     |
| 12                            | 6.6                                  | 0.46                            | LX4D7JD                  | 0.680  |
| 24                            | 27                                   | 1.89                            | LX4D7BD                  | 0.680  |
| 36                            | 57                                   | 4                               | LX4D7CD                  | 0.680  |
| 48                            | 107                                  | 7.5                             | LX4D7ED                  | 0.680  |
| 60                            | 170                                  | 11.9                            | LX4D7ND                  | 0.680  |
| 72                            | 230                                  | 16.1                            | LX4D7SD                  | 0.680  |
| 110                           | 564                                  | 39.5                            | LX4D7FD                  | 0.680  |
| 125                           | 718                                  | 50.3                            | LX4D7GD                  | 0.680  |
| 220                           | 2215                                 | 155                             | LX4D7MD                  | 0.680  |
| 250                           | 2850                                 | 200                             | LX4D7UD                  | 0.680  |
| 440                           | 9195                                 | 640                             | LX4D7RD                  | 0.680  |

<sup>(1)</sup> The last 2 digits in the reference represent the voltage code.

## TeSys contactors

d.c. coils for TeSys D, 3 or 4-pole contactors

## For contactors LC1 D115, D150

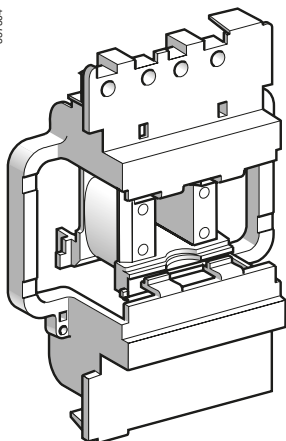
## Specifications

Consumption: inrush 270 to 365 W, sealed 2.4 to 5.1 W.

Operating range: 0.75...1.2 Uc.

Coils with integral suppression device fitted as standard, class B.

| Control circuit voltage<br>Uc | Average resistance<br>at 20 °C ± 10 % | Inductance of<br>closed circuit | Reference <sup>(1)</sup> | Weight |
|-------------------------------|---------------------------------------|---------------------------------|--------------------------|--------|
| V                             | Ω                                     | H                               |                          | kg     |
| 24                            | 147                                   | 3.03                            | LX4D8BD                  | 0.300  |
| 48                            | 1061                                  | 24.19                           | LX4D8ED                  | 0.300  |
| 60                            | 1673                                  | 38.44                           | LX4D8ND                  | 0.300  |
| 72                            | 2500                                  | 56.27                           | LX4D8SD                  | 0.300  |
| 110                           | 4377                                  | 109.69                          | LX4D8FD                  | 0.300  |
| 125                           | 6586                                  | 152.65                          | LX4D8GD                  | 0.300  |
| 220                           | 9895                                  | 210.72                          | LX4D8MD                  | 0.300  |
| 250                           | 18 022                                | 345.40                          | LX4D8UD                  | 0.300  |
| 440                           | 21 501                                | 684.66                          | LX4D8RD                  | 0.300  |



LX4 D8•D

## For 3-pole contactors LC1 D80 or 4-pole contactors LP1 D80

## Specifications

Wide range coils for specific applications

Average consumption: 23 W.

Operating range: 0.75 to 1.2 Uc.

Coils with "TH" treatment as standard.

| Control circuit voltage<br>Uc | Average resistance<br>at 20 °C ± 10 % | Inductance of<br>closed circuit | Reference <sup>(1)</sup> | Weight |
|-------------------------------|---------------------------------------|---------------------------------|--------------------------|--------|
| V                             | Ω                                     | H                               |                          | kg     |
| 12                            | 6.2                                   | 0.49                            | LX4D7JW                  | 0.680  |
| 24                            | 23.5                                  | 1.75                            | LX4D7BW                  | 0.680  |
| 36                            | 51.9                                  | 4.18                            | LX4D7CW                  | 0.680  |
| 48                            | 94.2                                  | 7                               | LX4D7EW                  | 0.680  |
| 72                            | 204                                   | 15.7                            | LX4D7SW                  | 0.680  |
| 110                           | 483                                   | 36                              | LX4D7FW                  | 0.680  |
| 220                           | 1922                                  | 144                             | LX4D7MW                  | 0.680  |

<sup>(1)</sup> The last 2 digits in the reference represent the voltage code.