

TeSys contactors

Component parts for assembling reversing contactors for motor control or low speed - high speed starters

For 3-pole motor reversing contactors using 2 identical contactors

Contactors with screw clamp terminals or connectors

| Using 2 identical contactors (1) | Reference | Weight kg |
|----------------------------------|-----------|-----------|
|----------------------------------|-----------|-----------|

Including mechanical interlock and power connections - with an electrical interlocking kit

| | | |
|---------------|-----------------|-------|
| LC1-D09...D38 | LAD-9R1V | 0.045 |
|---------------|-----------------|-------|

Including mechanical interlock and power connections - without electrical interlock

| | | |
|---------------|----------------|-------|
| LC1-D09...D38 | LAD-9R1 | 0.045 |
|---------------|----------------|-------|

Including mechanical interlock with integral electrical interlocking

| Using 2 identical contactors (1) | Set of power connections Reference | Weight kg | Mechanical interlock Reference of kit | Weight kg |
|----------------------------------|------------------------------------|-----------|---------------------------------------|-----------|
|----------------------------------|------------------------------------|-----------|---------------------------------------|-----------|

| | | | | |
|---------------|------------------|-------|------------------|-------|
| LC1-D40...D65 | LA9-D6569 | 0.290 | LA9-D4002 | 0.170 |
|---------------|------------------|-------|------------------|-------|

| | | | | |
|---------------------|------------------|-------|------------------|-------|
| LC1-D80 and D95 (~) | LA9-D8069 | 0.290 | LA9-D4002 | 0.170 |
|---------------------|------------------|-------|------------------|-------|

| | | | | |
|-----------------------|------------------|-------|------------------|-------|
| LC1-D80 and D95 (---) | LA9-D8069 | 0.490 | LA9-D8002 | 0.170 |
|-----------------------|------------------|-------|------------------|-------|

| | | | | |
|-------------------|-------------------|-------|-------------------|-------|
| LC1-D115 and D150 | LA9-D11569 | 1.450 | LA9-D11502 | 0.290 |
|-------------------|-------------------|-------|-------------------|-------|

Including mechanical interlock without electrical interlocking

| | | | | |
|---------------|------------------|-------|-------------------|-------|
| LC1-D40...D65 | LA9-D6569 | 0.290 | LA9-D50978 | 0.170 |
|---------------|------------------|-------|-------------------|-------|

| | | | | |
|---------------------|------------------|-------|-------------------|-------|
| LC1-D80 and D95 (~) | LA9-D8069 | 0.490 | LA9-D50978 | 0.170 |
|---------------------|------------------|-------|-------------------|-------|

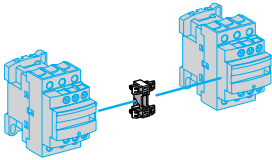
| | | | | |
|-----------------------|------------------|-------|-------------------|-------|
| LC1-D80 and D95 (---) | LA9-D8069 | 0.490 | LA9-D80978 | 0.170 |
|-----------------------|------------------|-------|-------------------|-------|

For low speed - high speed starter ≤ LC1-D38

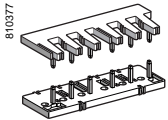
| Description | For contactors with connections | Reference | Weight kg |
|-------------|---------------------------------|-----------|-----------|
|-------------|---------------------------------|-----------|-----------|

| | | | |
|--|----------------------------|--------------------|-------|
| Connection kit enabling reversing of slow and high speed directions, using a reversing contactor and a 2N/O + 2N/C main pole contactor | Screw clamps or connectors | LAD-9PVGV ▲ | 0.016 |
|--|----------------------------|--------------------|-------|

| | | | |
|--|------------------|--------------------|-------|
| | Spring terminals | LAD-3PVGV ▲ | 0.068 |
|--|------------------|--------------------|-------|

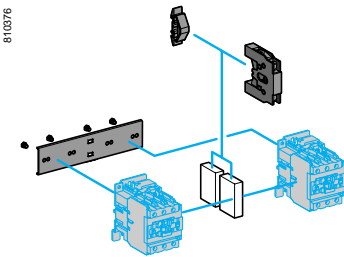


810373



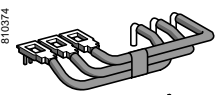
810377

LAD-9R1



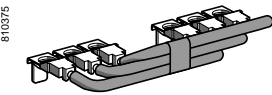
810376

LA9-D4002



810374

LA9-D6569



810375

LA9-D8069

▲ Available 4th quarter 2001.

(1) To order the 2 contactors: see pages 2/6 and 2/7.

TeSys contactors

Component parts for assembling
changeover contactor pairs for distribution

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

Contactors with screw clamp terminals or connectors

Horizontally mounted, assembled by customer

| Using 2 identical contactors (1) | Set of power connections Reference | Weight kg | Mechanical interlock Reference of kit | Weight kg |
|--|--|--------------|--|--------------|
|--|--|--------------|--|--------------|

Including mechanical interlock and an electrical interlocking kit for the contactors

| | | | | |
|-------------------|------------------------|-------|---|---|
| LC1-DT20...DT32 | LAD-T9R1V ▲ (2) | 0.040 | — | — |
| LC1-DT40 and DT60 | LAD-T9R2V ▲ (2) | 0.045 | — | — |

Including mechanical interlock with integral electrical interlocking

| | | | | |
|-------------|-------------------|-------|-------------------|-------|
| LC1-D65004 | LA9-D6570 | 0.150 | LA9-D4002 | 0.170 |
| LC1-D80004 | LA9-D8070 | 0.280 | LA9-D4002 | 0.170 |
| LP1-D80004 | LA9-D8070 | 0.280 | LA9-D8002 | 0.170 |
| LC1-D115004 | LA9-D11570 | 1.100 | LA9-D11502 | 0.280 |

Including mechanical interlock without electrical interlocking (3)

| | | | | |
|-------------------|-----------------------|-------|-------------------|-------|
| LC1-DT20...DT32 | LAD-T9R1 ▲ (2) | 0.035 | — | — |
| LC1-DT40 and DT60 | LAD-T9R2 ▲ (2) | 0.040 | — | — |
| LC1 or LP1-D65004 | LA9-D6570 | 0.150 | LA9-D50978 | 0.155 |
| LC1-D80004 | LA9-D8070 | 0.280 | LA9-D50978 | 0.155 |
| LP1-D80004 | LA9-D8070 | 0.280 | LA9-D80978 | 0.180 |

For 3-pole changeover contactor pairs

Including mechanical interlock with integral electrical interlocking

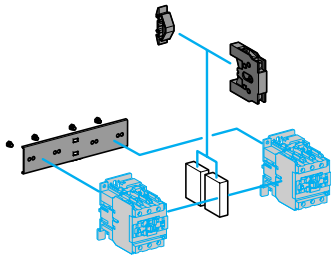
| | | | | |
|-------------------|-------------------|-------|-------------------|-------|
| LC1-D115 and D150 | LA9-D11571 | 0.960 | LA9-D11502 | 0.280 |
|-------------------|-------------------|-------|-------------------|-------|

(1) To order the 2 contactors: see pages 2/9 and 2/10.

(2) Including mechanical interlock.

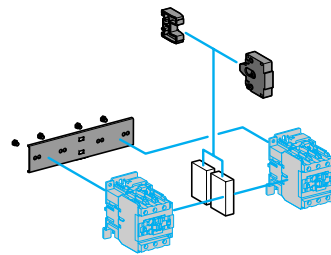
(3) Order 2 contact blocks LAD-N●1 to obtain electrical interlocking between the contactors, see page 2/17.

810384



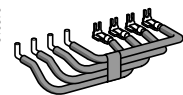
LA9-D4002

810383



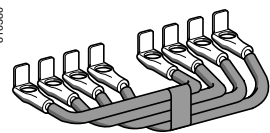
LA9-D50978

810279



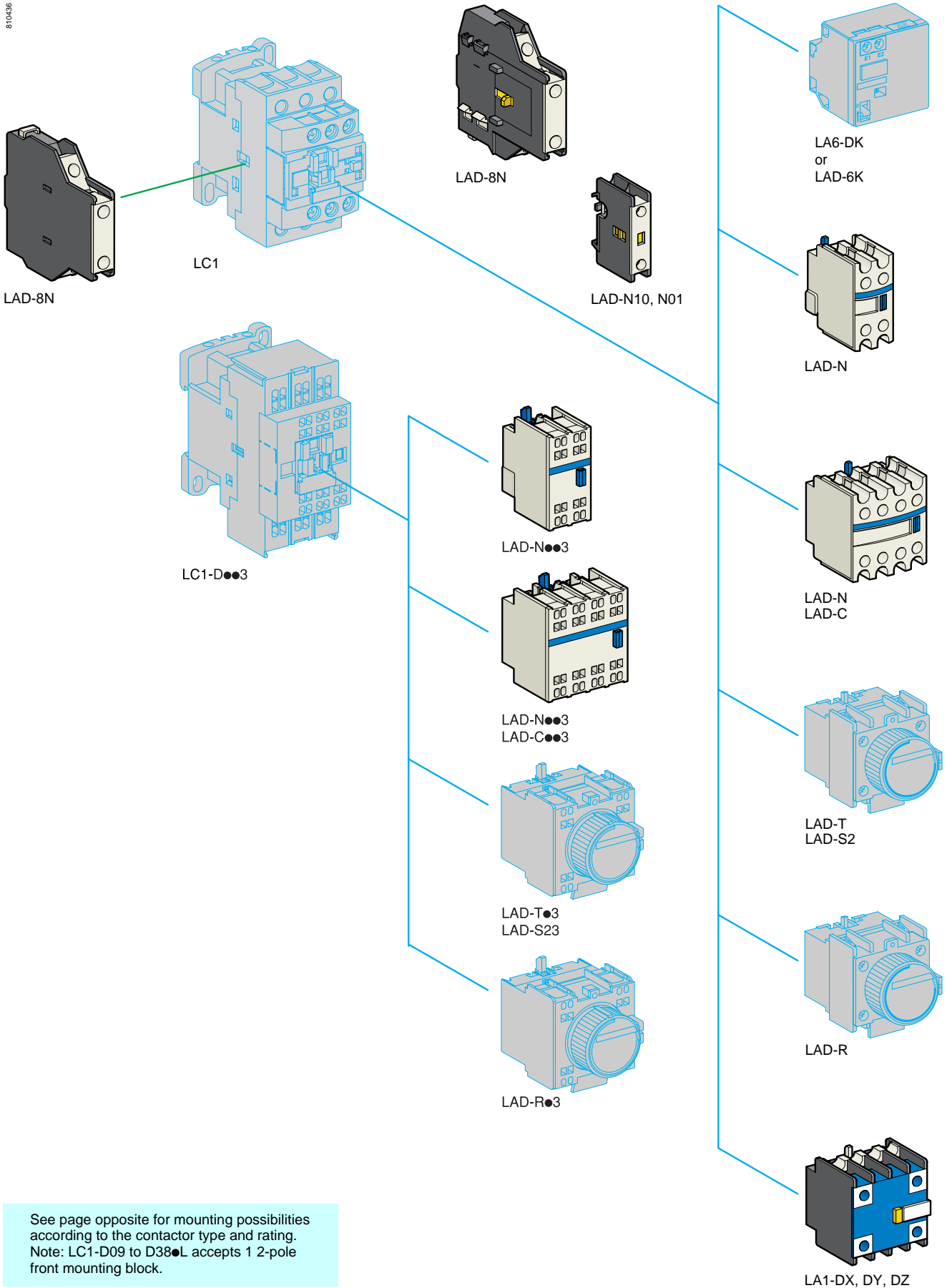
LA9-D6570

810380



LA9-D8070

▲ Available
4th quarter 2001.Selection:
pages 1/6 to 1/9Characteristics:
pages 2/32 to 2/37Dimensions, schemes:
pages 2/50 and 2/51



See page opposite for mounting possibilities according to the contactor type and rating.
 Note: LC1-D09 to D38●L accepts 1 2-pole front mounting block.

TeSys contactors

Contactors and reversing contactors, model d
Instantaneous auxiliary contact blocks

Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

In order to mount an LAD-8N on an LC1-D40 to D95, LA9-D511 (shims) must be ordered separately, see page 2/23.

| Clip-on mounting (1) | Number of contacts per block | Composition | Reference | Weight |
|---|---|-------------|--------------------|--------|
| | | | | kg |
| Front | 1 | - - - 1 - | LAD-N10 | 0.020 |
| | | - - - - 1 | LAD-N01 | 0.020 |
| | 2 | - - - 1 1 | LAD-N11 (2) | 0.030 |
| | | - - - 2 - | LAD-N20 (2) | 0.030 |
| | | - - - - 2 | LAD-N02 (2) | 0.030 |
| | 4 | - - - 2 2 | LAD-N22 (2) | 0.050 |
| | | - - - 1 3 | LAD-N13 | 0.050 |
| | | - - - 4 - | LAD-N40 (2) | 0.050 |
| | | - - - - 4 | LAD-N04 (2) | 0.050 |
| | | - - - 3 1 | LAD-N31 | 0.050 |
| | 4 incl. 1 N/O & 1 N/C make before break | - - - 2 2 | LAD-C22 (2) | 0.050 |
| Side | 2 | - - - 1 1 | LAD-8N11 | 0.030 |
| | | - - - 2 - | LAD-8N20 | 0.030 |
| Note: Order LA9-D511 for LC1-D40 to D95 | | - - - - 2 | LAD-8N02 | 0.030 |

For terminal referencing conforming to standard EN 50012

| | | | | |
|---|---|-----------|-----------------|-------|
| Front, on 3P contactors & 4P contactors 20 to 60A | 2 | - - - 1 1 | LAD-N11G | 0.030 |
| Front, on 4P contactors 80 to 200A | 4 | - - - 2 2 | LAD-N22G | 0.050 |
| | 2 | - - - 1 1 | LAD-N11P | 0.030 |
| | 4 | - - - 2 2 | LAD-N22P | 0.050 |

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

| | | | | |
|-------|---|-----------|---------------------|-------|
| Front | 2 | - 2 - - | LA1-DX20 | 0.040 |
| | | 2 - - - | LA1-DX02 | 0.040 |
| | | - 2 2 - - | LA1-DY20 (3) | 0.040 |
| | 4 | - 2 - 2 - | LA1-DZ40 | 0.050 |
| | | - 2 - 1 1 | LA1-DZ31 | 0.060 |

Instantaneous auxiliary contact blocks for connection by lugs

This type of connection is not possible for blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add the digit **6** to the end of the references selected above. Example: **LAD-N10** becomes **LAD-N106**.

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 digit **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 digit **9** to the end of the references selected above. Example: **LAD-N11** becomes **LAD-N119**.

(1) Maximum number of auxiliary contacts that can be fitted

| Contactors | Instantaneous auxiliary contact blocks | | | | Time delay Front mounted | | |
|-------------------|--|-----------------------------|----------------------|---------------|--------------------------|------|------|
| | Type | Number of poles and size | Side mounted | Front mounted | | | |
| ~ | 3P | LC1-D09...D38 | 1 on left-hand side | & - 1 | or 1 | or 1 | |
| | | LC1-D40...D95 (50/60 Hz) | 1 on each side | or 2 | and 1 | or 1 | |
| | | LC1-D40...D95 (50 or 60 Hz) | 1 on each side | & 2 | and 1 | or 1 | or 1 |
| | | LC1-D115 and D150 | 1 on left-hand side | & - 1 | or 1 | or 1 | or 1 |
| | 4P | LC1-DT20...DT60 | 1 on left-hand side | & - 1 | or 1 | or 1 | or 1 |
| | | LC1-D65 and D80 | 1 on each side | or 1 | or 1 | or 1 | or 1 |
| | | LC1-D115/150 | 1 on right-hand side | & 1 | or 1 | or 1 | or 1 |
| | | | | | | | |
| | --- | 3P | LC1-D09...D38 | - | - 1 | or 1 | or 1 |
| | | | LC1-D40...D95 | - | 1 | or 1 | or 1 |
| LC1-D115 and D150 | | | 1 on left-hand side | & - 1 | or 1 | or 1 | or 1 |
| 4P | | LC1-DT20...DT80 | 1 on left-hand side | or - 1 | or 1 | or 1 | or 1 |
| | | LP1-D65 and D80 | - | 2 | and 1 | or 1 | or 1 |
| | | LC1-D115 | 1 on each side | - | and 1 | or 1 | or 1 |
| LC (4) | 3P | LC1-D09...D38 | - | - 1 (5) | - | - | |
| | 4P | LC1-DT20...DT60 | 1 on left-hand side | & - 1 | or 1 | or 1 | |

(2) For purchase in bulk packs, see page i/7.

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

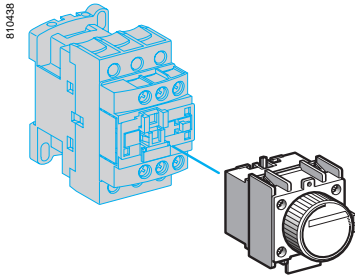
(4) LC: low consumption.

(5) Except LAD-N02.

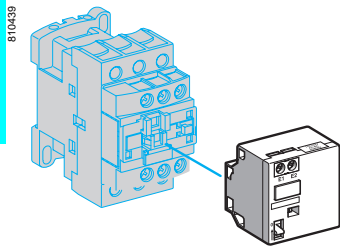
TeSys contactors

Contactors and reversing contactors, model d
Time-delay auxiliary contact blocks
Mechanical latch blocks

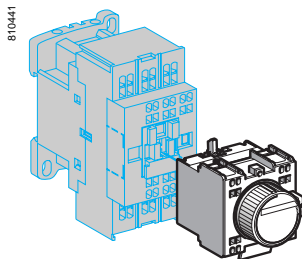
Time delay auxiliary contact blocks for connection by screw clamp terminals



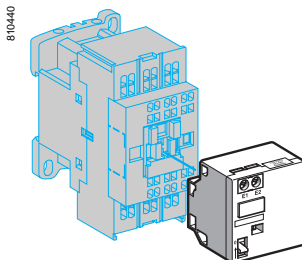
LAD-T



LA6-DK



LAD-T03



LA6-DK

Maximum number of auxiliary contact blocks that can be fitted per contactor, see page 2/17.

Sealing cover to be ordered separately, see page 2/23.

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 | Weight kg | |
|------------------|--------------------|------------|---------------|------------|------------|-------|
| | | Type | Setting range | | | |
| Front | 1 N/O + 1 N/C | On-delay | 0.1...3 s | LAD-T0 (1) | 0.060 | |
| | | | 0.1...30 s | LAD-T2 (1) | 0.060 | |
| | | | 10...180 s | LAD-T4 (1) | 0.060 | |
| | | | 1...30 s | LAD-S2 | 0.060 | |
| | Off-delay | | | 0.1...3 s | LAD-R0 (1) | 0.060 |
| | | | | 0.1...30 s | LAD-R2 (1) | 0.060 |
| | | | | 10...180 s | LAD-R4 (1) | 0.060 |

Time delay auxiliary contact blocks for connection by lugs

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

Mechanical latch blocks (3)

| Clip-on mounting | Unlatching control | For use on contactor | Basic reference. Complete with code indicating control voltage (2) | Weight kg |
|------------------|--------------------|---------------------------|--|-----------|
| Front | Manual or electric | LC1-D40...D65 3P ~ or ∩ | LA6-DK10● | 0.070 |
| | | LC1-D65 4P ~ | | |
| | | LP1-D65 4P ∩ | | |
| | | LC1-D80...D150 3P ~ | LA6-DK20● | 0.090 |
| | | LC1-D80 and D115 3P ∩ | | |
| | | LP1-D80 and LC1-D115 4P ∩ | | |
| | | LC1-D09...D38 ~ or ∩ | LA6-6K10● | 0.070 |
| | | LC1-DT20...DT60 ~ or ∩ | | |

(1) For purchase in bulk packs, see page i/7.

(2) Control circuit voltages (for other voltages please call our Customer information centre on 0870 608 8 608).

| | | | | | | | | | |
|-------------------|----|-------|-------|-------|-----|---------|---------|---------|---------|
| 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 |

(3) The mechanical latching block must not be powered up at the same time as the contactor. The duration of the control signal for the mechanical latching block and the contactor should be ≥ 100 ms.

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 U_c maximum and oscillating frequency limited to 400 Hz maximum.
- Slight increase in drop-out time (1.2 to 2 times the normal time).

| Mounting | For use with contactor (1) | | Reference | Weight kg | |
|------------------|----------------------------|-------------------------|-----------|-----------------|-------|
| | Rating | Type | | | |
| | | $V \sim$ $V \text{---}$ | | | |
| Clip-on (3) | D09...D38 (3P) | 24...48 | – | LAD-4RCE | 0.012 |
| | DT20...DT60 | 110...240 | – | LAD-4RCU | 0.012 |
| Screw fixing (4) | D40...D150 (3P) and | 24...48 | – | LA4-DA2E | 0.018 |
| | | 50...127 | – | LA4-DA2G | 0.018 |
| | D65...D115 (4P) | 110...240 | – | LA4-DA2U | 0.018 |
| | | 380...415 | – | LA4-DA2N | 0.018 |

Varistors (peak limiting)

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

| | | | | | |
|--------------------|-----------------------------------|------------------------|-----------|-----------------|-----------------|
| Clip-on (3) | D09...D38 (3P) (2) DT20...DT60 | 24...48 | – | LAD-4VE | 0.012 |
| | | 50...127 | – | LAD-4VG | 0.012 |
| | | 110...250 | – | LAD-4VU | 0.012 |
| Screw mounting (4) | D40...D115 (3P) and | 24...48 | – | LA4-DE2E | 0.018 |
| | | 50...127 | – | LA4-DE2G | 0.018 |
| | D65...D115 (4P) | 110...250 | – | LA4-DE2U | 0.018 |
| | | D40...D115 (3P) and | – | 24...48 | LA4-DE3E |
| | | – | 50...127 | LA4-DE3G | 0.018 |
| | D65...D115 (4P) | – | 110...250 | LA4-DE3U | 0.018 |

Diodes

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

| | | | | | |
|------------------|------------------------------------|---|----------|-----------------|-------|
| Screw fixing (4) | D40...D95 (3P) D65 and D80 (4P) | – | 24...250 | LA4-DC3U | 0.018 |
|------------------|------------------------------------|---|----------|-----------------|-------|

Bidirectional peak limiting diode

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

| | | | | | |
|--------------------|------------------------------------|----|----|-----------------|-------|
| Clip-on (3) | D09...D38 (3P) (2) DT20...DT60 | 24 | – | LAD-4TB | 0.012 |
| | | 72 | – | LAD-4TS | 0.012 |
| Screw mounting (4) | D40...D95 (3P) D65 and D80 (4P) | 24 | – | LA4-DB2B | 0.018 |
| | | 72 | – | LA4-DB2S | 0.018 |
| | D40...D95 (3P) D65 and D80 (4P) | – | 24 | LA4-DB3B | 0.018 |
| | | – | 72 | LA4-DB3S | 0.018 |

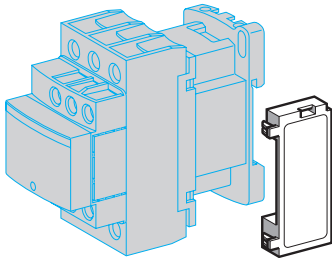
(1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor.

(2) From LC1-D09 to D38 and LC1-DT20 to DT60, d.c. and low consumption 3-pole contactors are fitted with built-in suppression as standard.

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

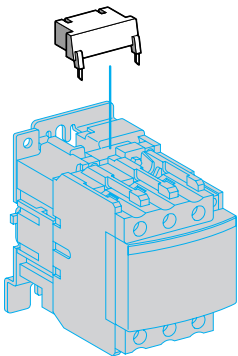
(4) Mounting at the top of the contactor on coil terminals A1 and A2.

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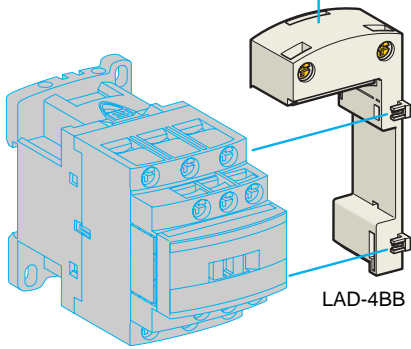
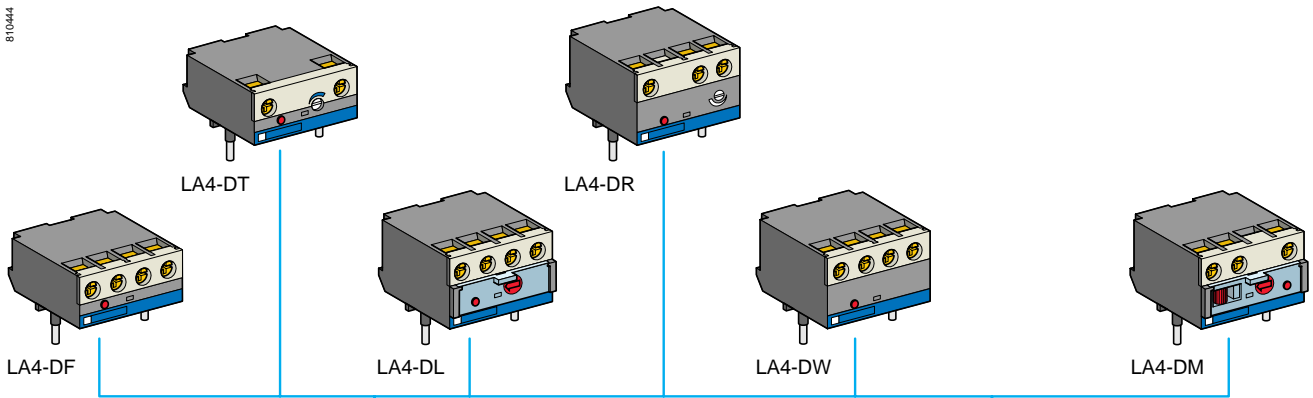


LAD-4

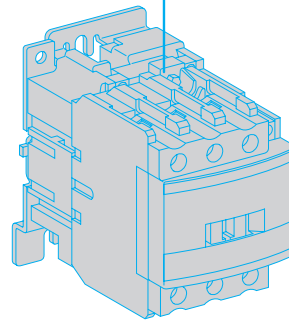
810443



LA4-D



3-pole LC1-D09...D38
4-pole LC1-DT20...DT60



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

Electronic serial timer modules (1)

- 3-pole contactors LC1-D09 to D38 and 4-pole contactors LC1-DT20 to DT60: mounted using adaptor LAD-4BB, to be ordered separately, see page 2/23.
- 3-pole contactors LC1-D40 to D150 and 4-pole contactors LC1-D65 to D115: mounted directly across terminals A1 and A2 of contactor (screw fixing).

On-delay type

| Operational voltage ~ | | Time | Reference | Weight |
|--|---------------------|---------------------------------------|----------------------------------|-------------------------|
| 24...250 V | 100...250 V | | | kg |
| LC1-D09...D38 (3P) and DT20...DT60 (4P) | LC1-D40...D150 (3P) | 0.1...2 s 1.5...30 s 25...500 s | LA4-DT0U LA4-DT2U LA4-DT4U | 0.040 0.040 0.040 |

Off-delay type

| Operational voltage ~ | | Time | Reference | Weight |
|--|--|---------------------------------------|----------------------------------|-------------------------|
| 24...250 V | 100...250 V | | | kg |
| LC1-D09...D18 (3P) and DT20...DT60 (4P) | LC1-D25...D150 (3P) and D65...D115 (4P) | 0.1...2 s 1.5...30 s 25...500 s | LA4-DR0U LA4-DR2U LA4-DR4U | 0.050 0.050 0.050 |

Interface modules

- 3-pole contactors LC1-D09 to D38 and 4-pole contactors LC1-DT20 to DT60: mounted using adaptor LAD-4BB, to be ordered separately, see page 2/23.
- 3-pole contactors LC1-D40 to D150 and 4-pole contactors LC1-D65 to D115: mounted directly across terminals A1 and A2 of contactor (screw fixing).

Relay interface

| Operational voltage ~ | | Supply voltage E1-E2 (---) | Reference | Weight |
|---|---|-------------------------------|--------------------|----------------|
| 24...250 V | 380...415 V | | | kg |
| – | LC1-D09...D150 (3P) and DT20...DT60 (4P) | 24 V | LA4-DFBQ | 0.055 |
| LC1-D09...D150 (3P) and DT20...DT60 (4P) | – | 24 V 48 V | LA4-DFB LA4-DFE | 0.050 0.050 |

Relay interface with manual override switch (output forced "ON")

| Operational voltage ~ | | Supply voltage E1-E2 (---) | Reference | Weight |
|---|-------------|-------------------------------|--------------------|----------------|
| 24...250 V | 100...250 V | | | kg |
| LC1-D09...D150 (3P) and DT20...DT60 (4P) | – | 24 V 48 V | LA4-DLB LA4-DLE | 0.045 0.045 |

Solid state interface

| Operational voltage ~ | | Supply voltage E1-E2 (---) | Reference | Weight |
|--|---------------------|-------------------------------|-----------|--------|
| 24...250 V | 100...250 V | | | kg |
| LC1-D09...D38 (3P) and DT20...DT60 (4P) | LC1-D40...D115 (3P) | 24 V | LA4-DWB | 0.045 |

Auto-Man-Stop control modules

For local override operation tests with 2-position "Auto-Man" switch and "O-I" switch

- 3-pole contactors LC1-D09 to D38 and 4-pole contactors LC1-DT20 to DT60: mounted using adaptor LAD-4BB, to be ordered separately, see page 2/23.
- 3-pole contactors LC1-D40 to D150 and 4-pole contactors LC1-D65 to D115: mounted directly across terminals A1 and A2 of contactor (screw fixing).

| Operational voltage ~ | | Reference | Weight |
|---|---------------------|-----------|--------|
| 24...100 V | 100...250 V | | kg |
| LC1-D09...D150 (3P) and DT20...DT60 (4P) | – | LA4-DMK | 0.040 |
| – | LC1-D40...D150 (3P) | LA4-DMU | 0.040 |

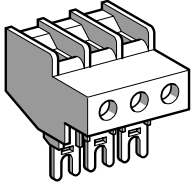
(1) For 24 V operation, the contactor must be fitted with a 21 V coil (code Z). See pages 2/26 to 2/31.

Accessories for main pole and control connections

| Description | For use on contactors | | Sold in lots of | Unit reference | Weight | |
|---|-------------------------------|------------------------------|------------------------|-----------------|---------------------|--------------------|
| | ~ | ≡ | | | kg | |
| Connectors for cable, sizes (1 connector) | 4-pole 10 mm ² | D09, D12 DT20, DT25 | D09, D12 DT20, DT25 | 1 | LA9-D1260 | 0.030 |
| | 3-pole 25 mm ² | D09...D38 | D09...D38 | 1 | LA9-D3260 | 0.040 |
| | 4-pole 25 mm ² | DT32...DT60 | DT32...DT60 | 1 | LAD-96060 | 0.060 |
| Connectors for cable, sizes (2 connectors) | 3-pole 120 mm ² | D115, D150 | D115, D150 | 1 | LA9-D115603B | 0.560 |
| | 4-pole 120 mm ² | D115 | D115 | 1 | LA9-D115604 | 0.740 |
| Connector for lug type terminals (2 connectors) | 3-pole | D115, D150 | D115, D150 | 1 | LA9-D115503B | 0.300 |
| | 4-pole | D115 | D115 | 1 | LA9-D115504 | 0.360 |
| Protective covers for lug type terminals | 3-pole (1) | D115, D150 | D115, D150 | 1 | LA9-D115703 | 0.250 |
| | 4-pole (1) | D115, D150 | D115, D150 | 1 | LA9-D115704 | 0.300 |
| Links for parallel connection of | 2 poles | D09...D38 | D09...D38 | 10 | LA9-D2561 | 0.060 |
| | | DT20 & DT25 (4P) | DT20 & DT25 (4P) | 10 | LA9-D1261 | 0.012 |
| | | DT32...DT60 (4P) | DT32...DT60 (4P) | 10 | LA9-D2561 | 0.060 |
| | | D40...D65 | D40...D65 | 2 | LA9-D40961 | 0.021 |
| | | D80, D95 | D80 | 2 | LA9-D80961 | 0.060 |
| | | 3 poles (star connection) | D09...D38 | D09...D38 | 10 | LAD-9P3 (2) |
| | | D80, D95 | D80 | 1 | LA9-D80962 | 0.080 |
| | 4 poles | DT20...DT60 | DT20...DT60 | 2 | LA9-D1263 | 0.024 |
| | | D40...D65 | D40...D65 | 2 | LA9-D40963 | 0.070 |
| | | D80, D95 | D80 | 2 | LA9-D80963 | 0.100 |
| Staggered coil connection | – | D40...D80 | | 10 | LA9-D09966 | 0.006 |
| Control circuit take-off from main pole | | D40...D65 | D40...D65 | 10 | LA9-D6567 | 0.010 |
| | | D80, D95 | D80 | 10 | LA9-D8067 | 0.010 |
| Spreaders for increasing the pole pitch to 45 mm | D115, D150 | D115, D150 | 3 | GV7-AC03 | 0.180 | |

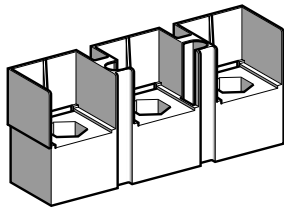
(1) For 3-pole contactors: 1 set of 6 covers, for 4-pole contactors: 1 set of 8 covers.
(2) Separate connecting bar for connecting 2 poles in parallel.

810445



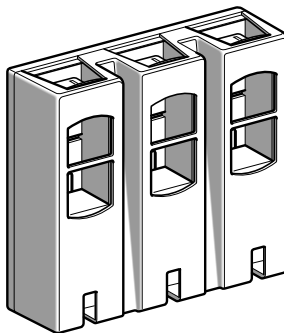
LA9-D3260

810446



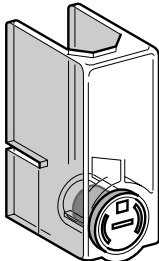
LA9-D11550●

810447



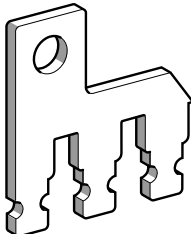
LA9-D11560●

810450



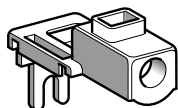
LA9-D11570●

810448



LA9-D80962

810449

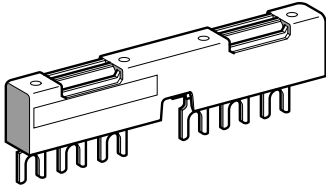


LA9-D6567

Dimensions:
pages 2/44 to 2/47

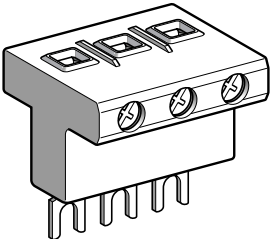
Schemes:
pages 2/48 and 2/49

810452



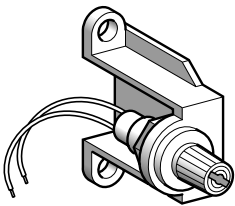
GV2-G245

810453



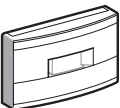
GV1-G09

810451



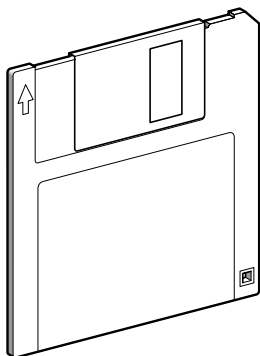
LA9-D941

810454



LAD-9ET0

810455



XBY-1U

Sets of contacts and arc chambers

| Description | For use on contactors | Reference | Weight kg |
|------------------------|-----------------------|-------------|---------------------|
| Set of contacts | 3-pole | LC1-D115 | LA5-D1158031 |
| | | LC1-D150 | LA5-D150803 |
| | 4-pole | LC1-D115004 | LA5-D115804 |
| Arc chambers | 3-pole | LC1-D115 | LA5-D11550 |
| | | LC1-D150 | LA5-D15050B |
| | 4-pole | LC1-D115004 | LA5-D115450B |

Cabling accessories

| | | | | |
|--|-------------------------------|----------------------------|------------------|-------|
| For adapting existing wiring to a new product | LC1-D09...D38 | Without coil suppression | LAD-4BB | 0.019 |
| | LC1-DT20...DT60 | With coil suppression | LAD-4BBVE | 0.014 |
| | | ~ 24...48 V | LAD-4BBVG | 0.014 |
| | | ~ 50...127 V | LAD-4BBVU | 0.014 |
| | | ~ 110...250 V | | 0.014 |
| Set of 63 A busbars for paralleling of contactors | 2 contactors | LC1-D09...D18 or D25...D38 | GV2-G245 | 0.036 |
| | 4 contactors | LC1-D09...D18 or D25...D38 | GV2-G445 | 0.077 |
| Terminal block for supply to: | One or more GV2-G busbar sets | | GV1-G09 | 0.040 |

Protection accessories

| Description | Application | Sold in lots of | Unit reference | Weight kg |
|---|-------------------------------|-----------------|------------------|-----------|
| Miniature fuse holder | 5 x 20 with 4 A-250 V fuse | 1 | LA9-D941 | 0.025 |
| Sealing cover | For LAD-T, LAD-R | 1 | LA9-D901 | 0.005 |
| Safety cover preventing access to the moving contact carrier | LC1-D09...D38 and DT20...DT60 | 1 | LAD-9ET1 | 0.026 |
| | LC1-D40...D65 | 1 | LAD-9ET2 | 0.012 |
| | LC1-D80 and D95 | 1 | LAD-9ET3 | 0.004 |
| | LC1-D115 and D150 | 1 | LAD-9ET4 | 0.004 |
| Lens cap for safety cover | LC1-D09...D38 and DT20...DT60 | 100 | LAD-9ECT1 | 0.001 |

Marking accessories

| Description | Application | Sold in lots of | Unit reference | Weight kg |
|--|--|-----------------|--------------------|-----------|
| Sheet of 64 blank legends self-adhesive, 8 x 33 (1) | Contactors (excluding 4-pole LC1-D65...D115) LAD-N (4 contacts), LA6-DK | 10 | LAD-21 | 0.020 |
| Sheet of 112 blank legends self-adhesive, 8 x 12 (1) | LAD-N (2 contacts), LAD-T, LAD-R, LRD | 10 | LAD-22 | 0.020 |
| Sheet of 64 blank legends for marking using plotter or 8 x 33 engraver | Contactors (excluding 4-pole LC1-D65...D115) LAD (4 contacts), LA6-DK | 10 | LAD-23 | 0.050 |
| Sheet of 112 blank legends for marking using plotter or 8 x 12 mm engraver | All products | 35 | LAD-24 | 0.200 |
| Legend holder snap-in, 8 x 22 mm | 4-pole contactors LC1-D65 and D80, LA6-DK | 100 | LA9-D92 (2) | 0.001 |
| Bag of 300 blank legends self-adhesive, 7 x 21 mm "SIS Label" label creation software | On holder LA9-D92 | 1 | LA9-D93 | 0.001 |
| | Multi-language version (EN, FR, GE) | 1 | XBY-1U | 0.060 |

Mounting accessories

| | | | | |
|-----------------------|---|---|-----------------|-------|
| Mounting plate | For replacement of LC1-F115 or F150 by LC1-D115 or D150 | 1 | LA9-D730 | 0.360 |
| Set of shims | For fitting side mounting blocks LAD-8N on LC1-D40 to D95 | 1 | LA9-D511 | 0.020 |

(1) These legends are for sticking onto the safety cover of the contactors or add-on block, if fitted.

(2) For purchase in bulk packs, see page i/7.