

# Control Panel Technical Guide

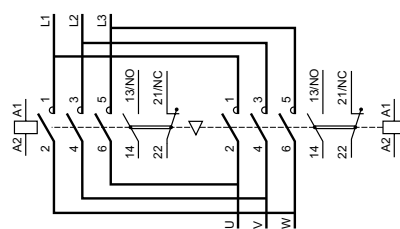
How to quickly design optimized  
contactor assemblies



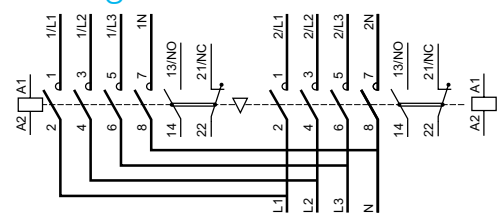


Pre-fabricated assemblies, mounting kits and electrical links make your motor starter assemblies smarter to design, mount and maintain with limited risk of errors.

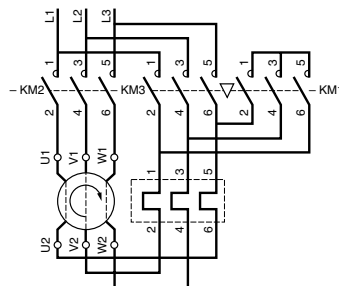
Reverser



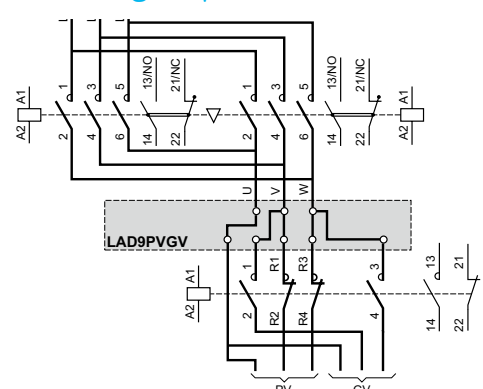
Changeover



Star Delta



Low/High speed





# TeSys K, D, F contactor-based solutions

## Challenging choice and solutions

Selecting the most appropriate components can be a challenge for designers, especially when they have to deal with strong control panel compactness constraints and assembling time optimization. This guide helps you to choose a TeSys solution, whether fully pre-cabled starters, monoblock assemblies, or contactors with assembling kits.

### Fully pre cabled solutions



### Monoblock assemblies



### Components & kits



#### Find in this guide:

- product selection tables per application (Reverser, Speed selection, Star-Delta, Changeover)
- product technical data, commercial references, tips, for your specific designs.



# TeSys K, D, F contactor-based solutions

Recommended designs are based on TeSys K, D or F contactors. The choice of the type will be done according to the project constraints: motor power, panel compactness, required connection mode.

**Pre-fabricate assemblies:** 2 or 3 contactors are mechanically and electrically pre-assembled in our factories, for simpler choice and time saving.

**Components for custom-design:** selections of coordinated contactors, accessories, kits, electrical links are recommended for several motor powers and various functions. Assembly is done by customer.

**Pre-cabled assemblies**

OR

**Components for custom-design**

## TeSys K



Motors from 2.2 to 7.5 kW



## TeSys D



Motors from 4 to 75 kW



## TeSys F



Motors from 55 to 560 kW





# Summary

## Part A: solutions per application..... p. 7

A

### Motor reversers..... p. 7

Monoblock reversers & selected components for custom design  
based on TeSys K, D, F

1

### Motor reversers + Low/High speed control..... p. 21

Selected components for custom design  
based on TeSys D

2

### Motor Star-Delta starters..... p. 25

Fully prewired Star Delta starters & selected components for custom design  
based on TeSys K, D, F

3

### Source and load changeover..... p. 35

Monoblock changeovers & selected components for custom design  
based on TeSys K, D, F

4

## Part B: contactors & accessories ..... p. 43

B

### TeSys K..... p. 43

5

### TeSys D..... p. 48

6

### TeSys F..... p. 60

7

### Products reference index..... p. 71



# Part A: solutions per application



## Motor reversers

A

1

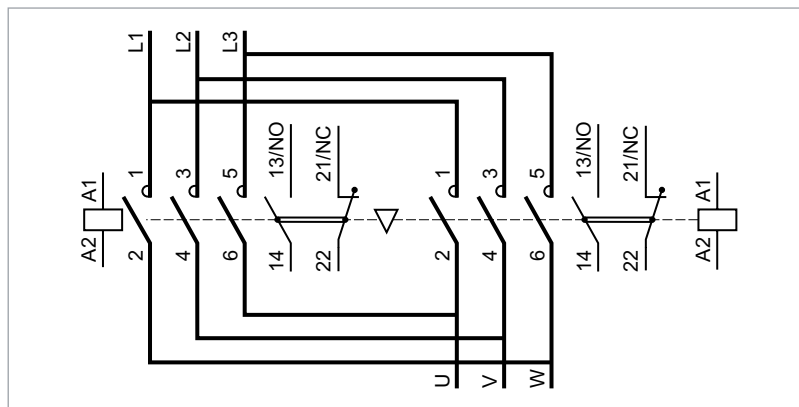
2

3

4



# Principle



The motor reversing action is obtained by permutation of 2 power phases. The motor reverser is composed of 2 identical 3 pole contactors. Each one can withstand the full motor current. They are mechanically and electrically interlocked to prevent simultaneous closing which would cause a short circuit.

X1 open - X2 open	>	U = V = W = no voltage	>	Motor stopped
X1 closed - X2 open	>	U = L2; V = L1; W = L3	>	Rotation A
X1 open - X2 closed	>	U = L1; V = L2; W = L3	>	Rotation B
X1 closed - X2 closed	>	not possible		

## Notes

Mechanical + electrical contactor interlocking should always be preferred for improved reliability.  
Choose contactors with NC auxiliary contacts to achieve electrical interlocking.

Conditions for safe switching from 1 direction of rotation to another are:

- intermediate period of no power on motor terminals
  - motor full stop except when reverser is used for motor plug braking
- In order to avoid huge mechanical constraints and overcurrents.

# 2.2 to 7.5 kW (400 V) - TeSys K

## Reversers - screw clamp terminals, spring terminals

### Pre-assembled

TeSys K blocks of 2 contactors

- DIN rail mounting
- built-in auxiliary contacts
- built-in mechanical interlock
- AC or DC coil control
- screw clamp terminals or spring terminals
- pre-assembled power links on screw-clamp type assembly only.

#### LC2K....

##### Screw clamp terminals



LC2K0910B7

#### LC2K..3..

##### Spring terminals



LC2K0913P7

Spring-type assembly: power links to be provided and wired by customer.

AC-3 rating	AC-1 rating	Power poles		Auxiliary contacts		Assembly references			
(A)	(A)	NO	NC	NO	NC	Screw clamp terminals		Spring terminals*	
AC coil control						Standard contactors	Silent contactors	Standard contactors	Silent contactors
6	-	3	-	1	-	LC2K0610**	<sup>(1)</sup>	LC2K06103B7 or P7 <sup>(2)</sup>	-
		3	-	-	1	LC2K0601**	<sup>(1)</sup>	LC2K06013B7 or P7 <sup>(2)</sup>	-
9	20 <sup>(1)</sup>	3	-	1	-	LC2K0910**	<sup>(1)</sup>	LC2K09103B7 or P7 <sup>(2)</sup>	-
		3	-	-	1	LC2K0901**	<sup>(1)</sup>	LC2K09013B7 or P7 <sup>(2)</sup>	-
12	20 <sup>(1)</sup>	3	-	1	-	LC2K1210**	<sup>(1)</sup>	LC2K12103B7 or P7 <sup>(2)</sup>	-
		3	-	-	1	LC2K1201**	<sup>(1)</sup>	LC2K12013B7 or P7 <sup>(2)</sup>	-
16	-	3	-	1	-	LC2K1610**	-	-	-
		3	-	-	1	LC2K1601**	-	-	-
DC coil control						Standard contactors	Low consumption	Standard contactors	Low consumption
6	-	3	-	1	-	LP2K0610**	LP5K0610BW3 <sup>(2)</sup>	LP2K06103BD <sup>(2)</sup>	LP5K06103BW3 <sup>(2)</sup>
		3	-	-	1	LP2K0601**	LP5K0601BW3 <sup>(2)</sup>	LP2K06013BD <sup>(2)</sup>	LP5K06013BW3 <sup>(2)</sup>
9	20 <sup>(1)</sup>	3	-	1	-	LP2K0910**	LP5K0910BW3 <sup>(2)</sup>	LP2K09103BD <sup>(2)</sup>	LP5K09103BW3 <sup>(2)</sup>
		3	-	-	1	LP2K0901**	LP5K0901BW3 <sup>(2)</sup>	LP2K09013BD <sup>(2)</sup>	LP5K09013BW3 <sup>(2)</sup>
12	20 <sup>(1)</sup>	3	-	1	-	LP2K1210**	LP5K1210BW3 <sup>(2)</sup>	LP2K12103BD <sup>(2)</sup>	LP5K12103BW3 <sup>(2)</sup>
		3	-	-	1	LP2K1201**	LP5K1201BW3 <sup>(2)</sup>	LP2K12013BD <sup>(2)</sup>	LP5K12013BW3 <sup>(2)</sup>

(\*) AC1 rating limited to 10 A with spring terminals (max. cable: 1.5 mm<sup>2</sup>)

(1) Possible preassembled reversing contactors: please, contact your local sales representative

(2) For other voltage code, please contact your local sales representative

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 44).

# 2.2 to 7.5 kW (400 V) - TeSys K

## Reversers - Faston terminals, solder pins

### Pre-assembled

TeSys K blocks of 2 contactors

- DIN rail mounting
- built-in auxiliary contacts
- built-in mechanical interlock
- AC or DC coil control
- faston or solder pin terminals.

**LC2K••7••**  
Faston terminals



LC2K09107M7

Power links to be provided and wired by customer.

**LC2K••5••**  
Solder pin terminals



LC2K09105B7

AC-3 rating	AC-1 rating	Power poles		Auxiliary contact		Assembly references			
(A)	(A)	NO	NC	NO	NC	Faston terminals		Solder pin terminals	
AC coil control						Standard contactors	Silent contactors	Standard contactors	Silent contactors
6	-	3	-	1	-	LC2K06107••	(1)	LC2K06105••	LC8K06105B7 <sup>(2)</sup>
		3	-	-	1	LC2K06017••	(1)	LC2K06015••	LC8K06015B7 <sup>(2)</sup>
9	20	3	-	1	-	LC2K09107••	(1)	LC2K09105••	LC8K09105B7 <sup>(2)</sup>
		3	-	-	1	LC2K09017••	(1)	LC2K09015••	LC8K09015B7 <sup>(2)</sup>
12	20	3	-	1	-	LC2K12107••	(1)	(1)	(1)
		3	-	-	1	LC2K12017••	(1)	(1)	(1)
16	-	3	-	1	-	(1)	-	(1)	-
		3	-	-	1	(1)	-	(1)	-
DC coil control						Standard contactors	Low consumption	Standard contactors	Low consumption
6	-	3	-	1	-	LP2K06107BD <sup>(2)</sup>	(1)	LP2K06105BD <sup>(2)</sup>	LP5K06105BW3 <sup>(2)</sup>
		3	-	-	1	LP2K06017BD <sup>(2)</sup>	(1)	LP2K06015BD <sup>(2)</sup>	LP5K06015BW3 <sup>(2)</sup>
9	20	3	-	1	-	LP2K09107BD <sup>(2)</sup>	(1)	LP2K09105BD <sup>(2)</sup>	LP5K09105BW3 <sup>(2)</sup>
		3	-	-	1	LP2K09017BD <sup>(2)</sup>	(1)	LP2K09015BD <sup>(2)</sup>	LP5K09015BW3 <sup>(2)</sup>
12	20	3	-	1	-	(1)	(1)	(1)	(1)
		3	-	-	1	(1)	(1)	(1)	(1)

(1) Possible preassembled reversing contactors: please, contact your local sales representative

(2) For other voltage code, please contact your local sales representative

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 44).





# 4 to 75 kW (400 V) - TeSys D

## Reversers - screw clamp terminals

### Pre-assembled

TeSys D contactor blocks with interlocking device, built-in auxiliary contacts.

Blocks of 2 TeSys D contactors

- DIN rail or plate mounting
- built-in auxiliary contacts
- built-in mechanical interlock
- interference filter
- prewired power links
- AC or DC coil control (depending on models)
- screw clamp terminals.

### LC2D screw-clamp terminals



LC2D12••

LC2D115••

### LC2D••A EverLink® BTR screw clamp terminals



LC2D65A••

AC-3 rating (A)	Product references
9	LC2D09•• <sup>(1)</sup>
12	LC2D12•• <sup>(1)</sup>
18	LC2D18•• <sup>(1)</sup>
25	LC2D25•• <sup>(1)</sup>
32	LC2D32•• <sup>(1)</sup>
38	LC2D38•• <sup>(1)</sup>
40	LC2D40A•• <sup>(2) (4)</sup>
50	LC2D50A•• <sup>(2) (4)</sup>
65	LC2D65A•• <sup>(2) (4)</sup>
80	LC2D80•• <sup>(2)</sup>
95	LC2D95•• <sup>(2)</sup>
115	LC2D115•• <sup>(3)</sup>
150	LC2D150•• <sup>(3)</sup>

As a complementary, electrical interlock can be achieved with the built in auxiliary contacts.

(1) Mechanical interlock only; add V for electro-mechanical interlock (eg.: LC2D09P7V)

(2) With mechanical interlock only

(3) With electromechanical interlock

(4) Power connection by EverLink® BTR screw clamp terminals and control by screw clamp terminals  
Power links to be added by customer (see components next page).

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).



LE2D09P7

### Alternative solution

Enclosed Direct-On-Line Reversing starters

- without isolating device 6...65 A : ref. LE2K••••, LE2D•••
- with isolating device (fuses) 6...35 A : ref. LE8K••••, LE8D•••

Please refer to TeSys catalogue ref. MKTED210011 – chapter A1.

# 4 to 75 kW (400 V) - TeSys D

## Reversers - screw clamp terminals

### Kits for customer assembly

Power links, electrical interlockings, mechanical interlockings for TeSys D contactors.

#### Kits for 9 to 38 A



##### LAD9R1

Assembling kit comprising:

- LAD9V5 parallel link
- LAD9V6 inverting link
- LAD9V2 mechanical interlock
- Assembling staple



##### LAD9R1V

Assembling kit comprising:

- LAD9V5 parallel link
- LAD9V6 inverting link
- LAD9V2 mechanical interlock
- LAD9V1 electrical interlock
- Assembling staple

#### Kit for 40 to 65 A



##### LAD9R3

Assembling kit comprising:

- LA9D65A6 parallel link
- LA9D65A9 inverter link
- LAD4CM mechanical interlock

#### Components for 80, 95 A



##### LA9D8069

Parallel + inverting links for 80, 95 A



##### LA9D4002

AC electro-mechanical interlocking for 80 A



##### LA9D8002

DC electro-mechanical interlocking for 80 A



##### LA9D50978

AC mechanical interlocking for 95 A



##### LA9D80978

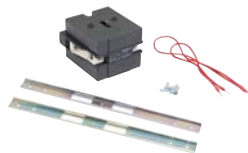
DC mechanical interlocking for 95 A

#### Components for 115, 150 A



##### LA9D11569

Parallel + inverting links for 115, 150 A



##### LA9D11502

Set of electro-mechanical interlocking components for 115, 150 A

Characteristics	Bill of material (contactors to be completed with...)				
AC-3 rating (A)	Contactors	Set of electrical power links	Mechanical interlocking	Electrical interlocking	
9	2x LC1D09**	Kits: <b>LAD9R1</b> : power links + mechanical interlock or <b>LAD9R1V</b> : power link + mechanical interlock + electrical interlock (white power links)			
12	2x LC1D12**				
18	2x LC1D18**				
25	2x LC1D25**				
32	2x LC1D32**				
38	2x LC1D38**				
40	2x LC1D40A** <sup>(1)</sup>	Kit: <b>LAD9R3</b> : power links + mechanical interlock		Customer cabling	
50	2x LC1D50A** <sup>(1)</sup>				
65	2x LC1D65A** <sup>(1)</sup>				
80	2x LC1D80**	Power links: <b>LA9D8069</b>	Mechanical + electrical interlocks: <b>LA9D4002</b> for AC - <b>LA9D8002</b> for DC		
95	2x LC1D95**		Mechanical interlocks: <b>LA9D50978</b> for AC / <b>LA9D80978</b> for DC		
115	2x LC1D115**	Power links: <b>LA9D11569</b>	Mechanical + electrical interlocks: <b>LA9D11502</b>		
150	2x LC1D150**				

(1) Power connection by EverLink® BTR screw connectors and control by screw clamp terminals

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).



# 4 to 75 kW (400 V) - TeSys D

## Reversers - screw terminals for lugs or bars

### Pre-assembled

Blocks of 2 TeSys D contactors

- DIN rail or plate mounting
- built-in auxiliary contacts
- mechanical and/or electrical interlock
- interference filter
- AC or DC coil control
- screw terminals for lugs or bars.

Power links to be added by customer (see components next page).

### LC2D••5• screw terminals for lugs or bars



LC2D326••



LC2D1156••

AC-3 rating (A)	Product references
9	LC2D096•• <sup>(1)</sup>
12	LC2D126•• <sup>(1)</sup>
18	LC2D186•• <sup>(1)</sup>
25	LC2D256•• <sup>(1)</sup>
32	LC2D326•• <sup>(1)</sup>
38	LC2D386•• <sup>(1)</sup>
40	-
50	-
65	-
80	-
95	-
115	LC2D1156•• <sup>(2)</sup>
150	LC2D1506•• <sup>(2)</sup>

(1) Mechanical interlock only

(2) Electromechanical interlock

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).

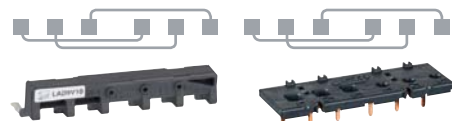
# 4 to 75 kW (400 V) - TeSys D

## Reversers - screw terminals for lugs or bars

### Components for customer assembly

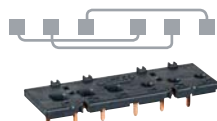
Power links, electrical interlockings, mechanical interlocks for TeSys D contactors.

#### Sets of power links for LC1D096•• D386 contactors



LAD9V10

Upstream parallel power link

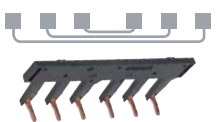


LAD9V5

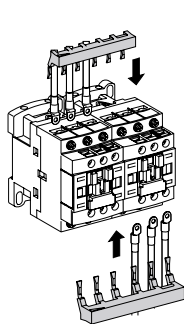


LAD9V11

Downstream inverting power link

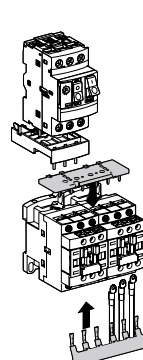


LAD9V6



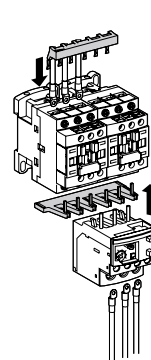
LAD9VP4

= LAD9V10 + LAD9V11



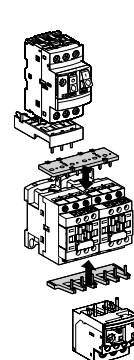
LAD9VP1

= LAD9V5 + LAD9V11



LAD9VP2

= LAD9V10 + LAD9V6



LAD9VP3

= LAD9V5 + LAD9V6



LAD9V2

Mechanical interlock with assembling staples



LAD4CM

Mechanical interlock



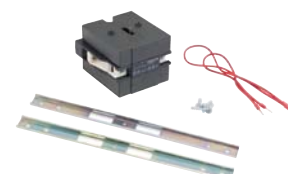
LA9D4002

AC - electro-mechanical interlocking for 80 - 95 A



LA9D8002

DC - electro-mechanical interlocking for 80 - 95 A



LA9D11502

Set of electro-mechanical interlocking components

Characteristics	Bill of material (contactors to be completed with...)			
AC-3 rating (A)	Contactors	Set of power links	Mechanical interlocking	Electrical interlocking
9	2x LC1D096••	Depending on customer configuration (see diagrams above): LAD9VP1 / LAD9VP2 / LAD9VP3 / LAD9VP4	LAD9V2	Customer cabling
12	2x LC1D126••			
18	2x LC1D186••			
25	2x LC1D256••			
32	2x LC1D326••			
38	2x LC1D386••	Customer cabling	LAD4CM	Customer cabling
40	2x LC1D40A6••			
50	2x LC1D50A6••			
65	2x LC1D65A6••			
80	2x LC1D806••			
95	2x LC1D956••			
115	2x LC1D1156••			
150	2x LC1D1506••			

# 4 to 75 kW (400 V) - TeSys D

## Reversers - spring terminals

### Pre-assembled

Blocks of 2 TeSys D contactors

- DIN rail mounting
- built-in auxiliary contacts
- mechanical interlock
- interference filter
- AC or DC coil control
- spring terminals.

Power links to be added by customer (see components next page).

### LC2D••3• screw terminals for lugs or bars



LC2D093••

AC-3 rating (A)	Product references
9	LC2D093•• <sup>(1)</sup>
12	LC2D123•• <sup>(1)</sup>
18	LC2D183•• <sup>(1)</sup>
25	LC2D253•• <sup>(1)</sup>
32	LC2D323•• <sup>(1)</sup>
40	LC2D40A3•• <sup>(2)</sup>
50	LC2D50A3•• <sup>(2)</sup>
65	LC2D65A3•• <sup>(2)</sup>

(1) Power and control by spring terminals

(2) Power by EverLink<sup>®</sup> terminals, control by spring terminals

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).



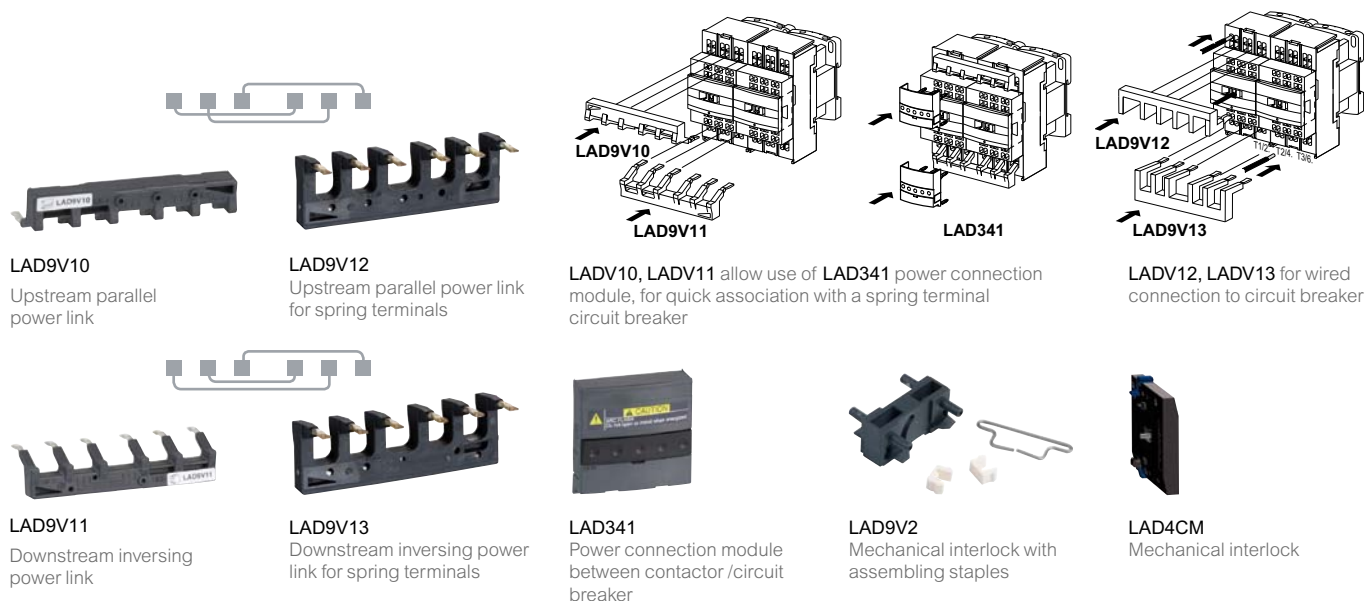
# 4 to 75 kW (400 V) - TeSys D

## Reversers - spring terminals

### Components for customer assembly

Power links, electrical interlockings, mechanical interlocks for TeSys D contactors.

#### Power bus bars for LC1D\*\*3\*\* contactors with spring terminals



Characteristics	Bill of material (contactors to be completed with...)			
AC-3 rating (A)	Contactors	Set of power connections	Mechanical interlocking	Electrical interlocking
9	2x LC1D093** <sup>(3)</sup>	Upstream: <b>LAD9V10</b> or <b>LAD9V12</b> <sup>(1)</sup> Downstream: <b>LAD9V11</b> or <b>LAD9V13</b> <sup>(2)</sup>	<b>LAD9V2</b>	Customer cabling
12	2x LC1D123** <sup>(3)</sup>			
18	2x LC1D183** <sup>(3)</sup>			
25	2x LC1D253** <sup>(3)</sup>			
32	2x LC1D323** <sup>(3)</sup>	Customer cabling	<b>LAD4CM</b>	Customer cabling
40	2x LC1D40A3** <sup>(4)</sup>			
50	2x LC1D50A3** <sup>(4)</sup>			
65	2x LC1D65A3** <sup>(4)</sup>			

(1) LAD9V10 + LAD9V11 configuration can be used in every case

(2) LAD9V12 + LAD9V13 configuration cannot be used with a LAD341 which ensures a quick link between contactor / GV2 circuit breaker

(3) Power and control by spring terminals

(4) Power by EverLink terminals, control by spring terminals.

# 4 to 75 kW (400 V) - TeSys D

## Reversers - Faston terminals

### Pre-assembled

Blocks of 2 TeSys D contactors

- DIN rail mounting
- built-in auxiliary contacts
- mechanical interlock
- interference filter
- AC or DC coil control
- faston terminals.

Power links to be added by customer.

LC2D●●9●●



LC2D099●●

AC-3 rating (A)	Product references
9	<b>LC2D099●●</b>
12	<b>LC2D129●●</b>

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).

### Components for customer assembly

TeSys D contactors, mechanical interlockings.



LAD9V2

Mechanical interlock with assembling staples

Characteristics	Bill of material (contactors to be completed with...)			
AC-3 rating (A)	Contactors	Mechanical interlocking	Electrical interlocking	Set of power connections
9	<b>2x LC1D099●●</b>	<b>LAD9V2</b>	Customer cabling	Customer cabling
12	<b>2x LC1D129●●</b>			

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).

# 4 to 75 kW (400 V) - TeSys F

## Reversers - screw type terminals for lugs or bars

### Pre-assembled

Blocks of 2 TeSys F contactors:

- with mounting accessories
- mechanical interlock
- prewired power links.

2 contactor coils, 2 contact blocks (LADN.1) for electrical interlocking, to be ordered separately by customer (refer to TeSys catalogue ref. MKTED210011 – chapter B9).

### LC2F...

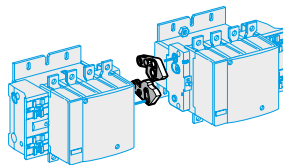


LC2F115

AC-3 rating (A)	Product references
115	<b>LC2F115</b>
150	<b>LC2F150</b>
185	<b>LC2F185</b>
225	<b>LC2F225</b>
265	<b>LC2F265</b>

### Components for customer horizontal assemblies

TeSys F contactors, power links, mechanical interlocks.



Horizontal assembly: 3-pole contactors with mechanical interlock



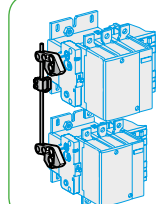
LA9FJ970  
Mechanical interlocks



LA9FJ976  
6 power links

Characteristics	Bill of material (contactors to be completed with...)		
AC-3 rating (A)	Contactors	Set of power connections	Mechanical interlocking
115	2x LC1F115	LA9FF976	LA9FF970
150	2x LC1F150	LA9F15076	LA9FF970
185	2x LC1F185	LA9FG976	LA9FG970
225	2x LC1F225	LA9F22576	LA9FG970
265	2x LC1F265	LA9FH976	LA9FJ970
330	2x LC1F330	LA9FJ976	LA9FJ970
400	2x LC1F400	LA9FJ976	LA9FJ970
500	2x LC1F500	LA9FK976	LA9FJ970
630	2x LC1F630	LA9FL976	LA9FL970
800	2x LC1F800	LA9FL976	LA9FL970

To be ordered as a necessary complement (refer to TeSys catalogue ref. MKTED210011 – chapter B9):  
2 contactor coils (AC or DC) - 2 LADN.1 contact blocks for electrical interlocking.



Vertical contactor assembly is also possible. See page 69.

All power connections are to be made by customer.









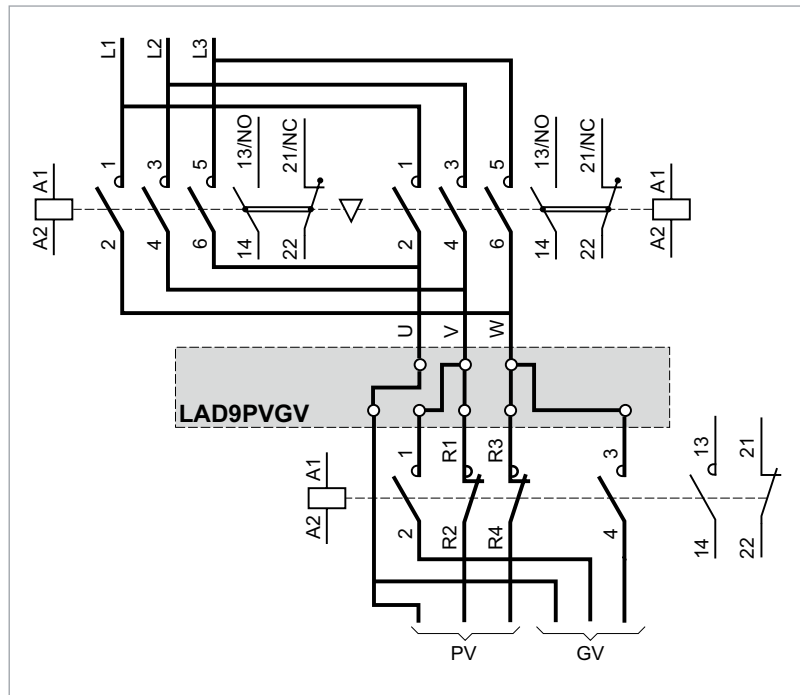
A



Motor reversers  
+ Low/High speed control

2

# Principle



The motor reversing action is obtained by permutation of 2 power phases. This function is provided by KM1, KM2.

The 2-speed motor has 2 sets coils: U1-V1-W1 and U2-V2-W2. Each one is dedicated to a speed.

1 phase is permanently connected to both W1 and W2.

KM3 is dedicated to Low/High speed control:

2 NO + 2 NC contacts are used to switch the remaining phases to U1/V1 and U2/V2.

## Note

Mechanical + electrical contactor interlocking should always be preferred for improved reliability.



# 4 to 11 kW (400 V) - TeSys D

## Reverser/controller - screw clamp terminals

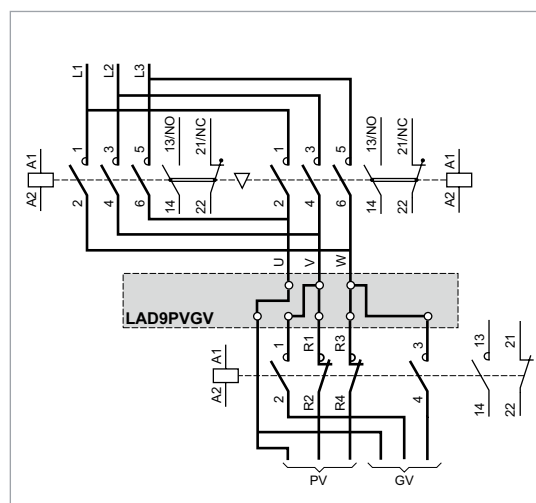
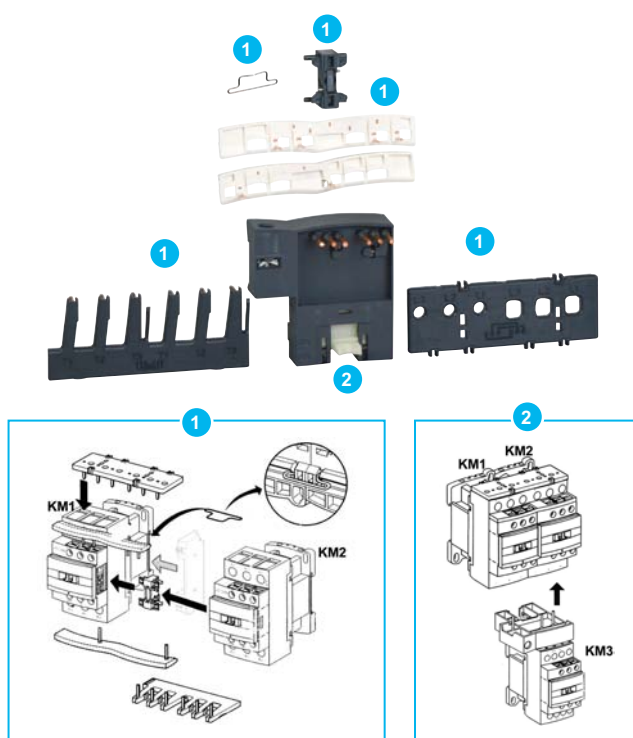
### Kit for customer assembly

A dedicated kit + 3 contactors allow customer to build a complete motor reversing, Low / High speed assembly.

#### Kit LAD9PVG

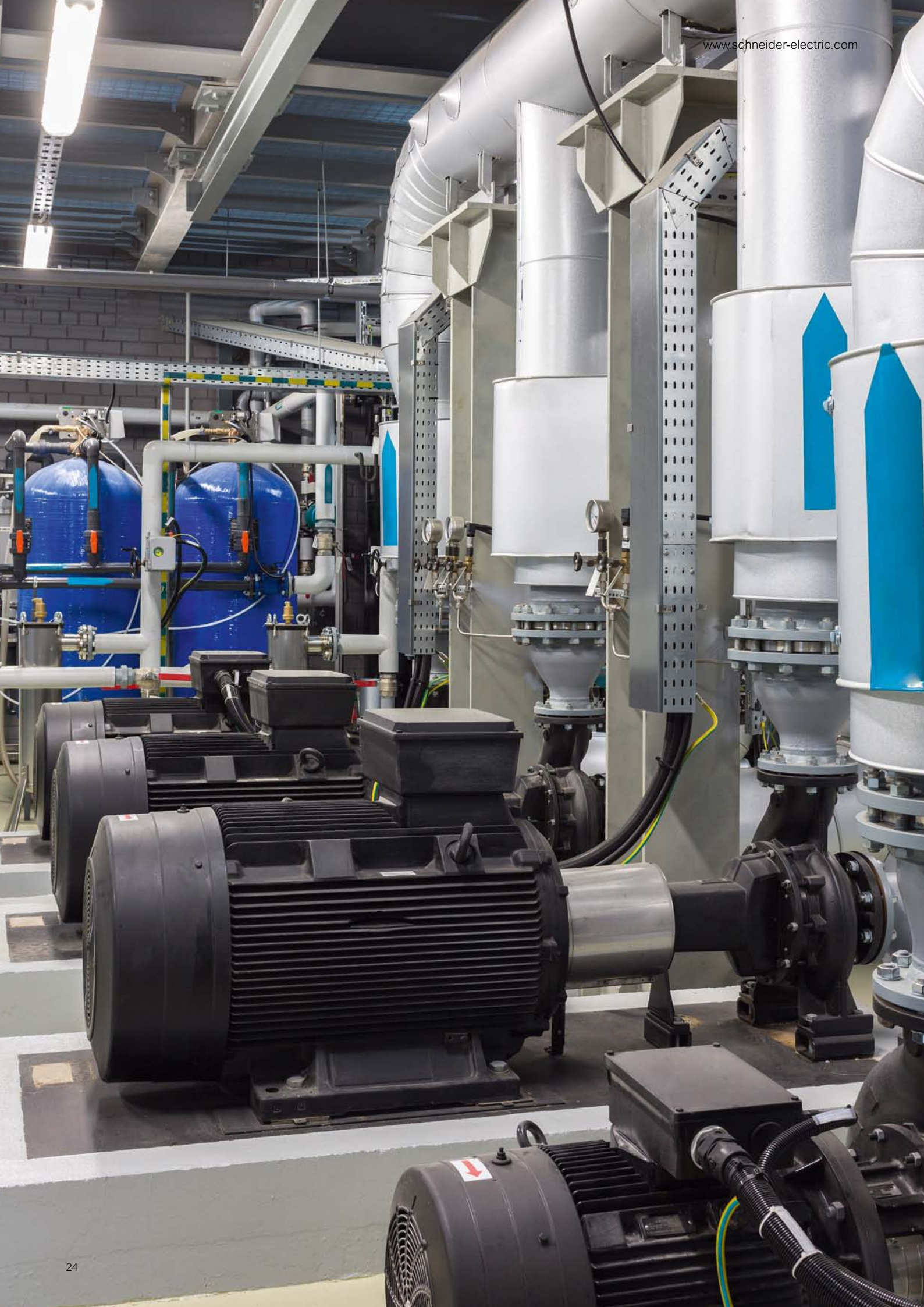
##### Included:

- power links + electrical / mechanical interlock, full content of LAD9R1V reversing kit
- KM2 / KM3 interconnection block.



Type	Bill of material		
	KM1 - KM2 contactors	KM3 contactor	Reversing, Low/High speed assembling kit
AC-3 rating (A)	3P reversing contactors	4P contactors (2NO, 2NC)	
9	2x LC1D09**	LC1D098**	LAD9PVG
12	2x LC1D12**	LC1D128**	
18	2x LC1D18**	LC1D188**	
25	2x LC1D25**	LC1D258**	

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption other codes, see page 48).





A



## Motor Star-Delta starters

3

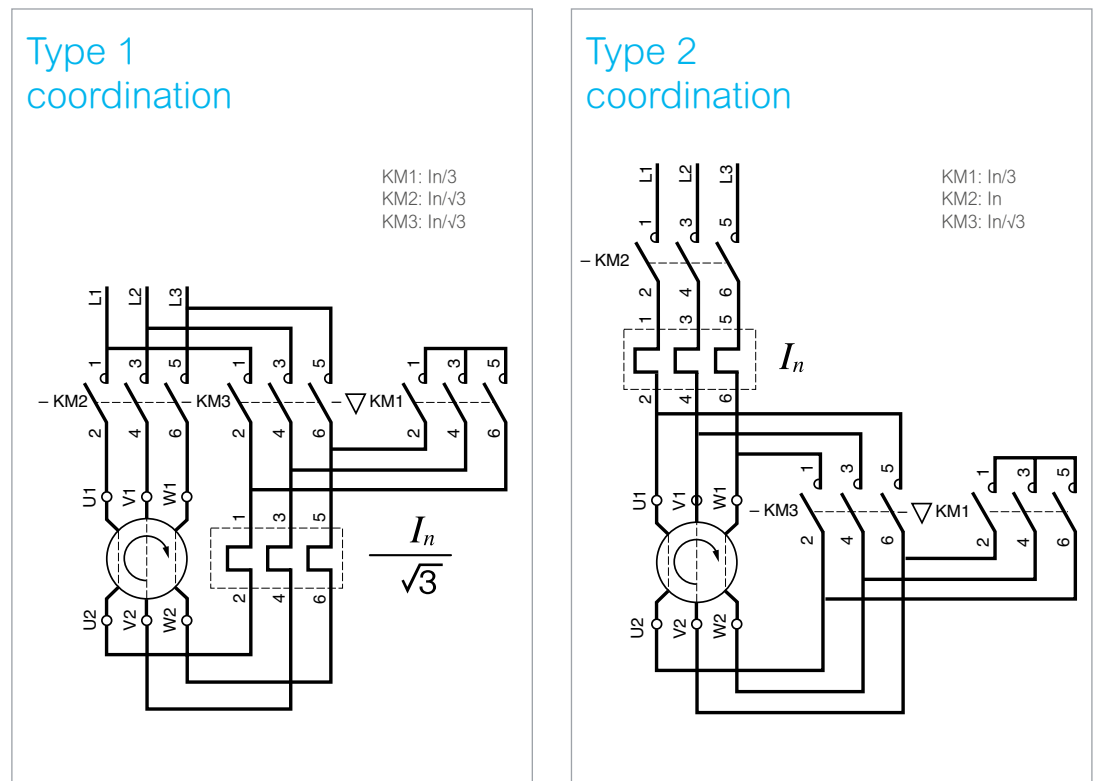
# Principle

The motor Star-Delta starters are used with high torque asynchronous motors for reducing starting inrush current. The motor is started with Star-coupled windings for a few seconds. The windings are under reduced voltage. After a delay, the coupling is switched to Delta to get a torque with reasonable current. Each winding then is under full voltage.

One line contactor (KM2) is used for main power switching, two are used for coupling windings from Star (KM1) to Delta (KM3). Line and Delta contactors are usually of the same rating. A time delay contact block provides the KM1/KM3 control. A separate thermal overload relay can be wired.

A reverser (pair of contactors) can be wired upstream with the appropriate interlocking circuit.

## Star delta, with separate thermal relay



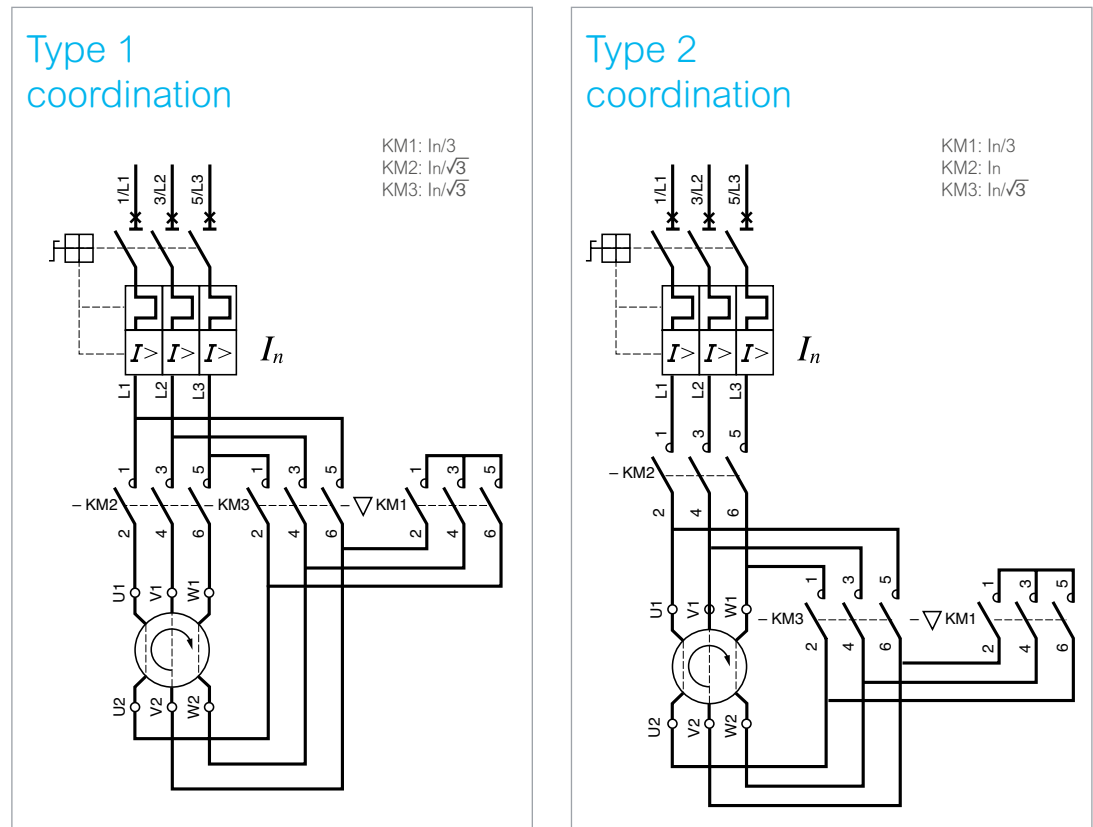
### Note

Mechanical + electrical contactor interlocking should always be preferred for improved reliability.

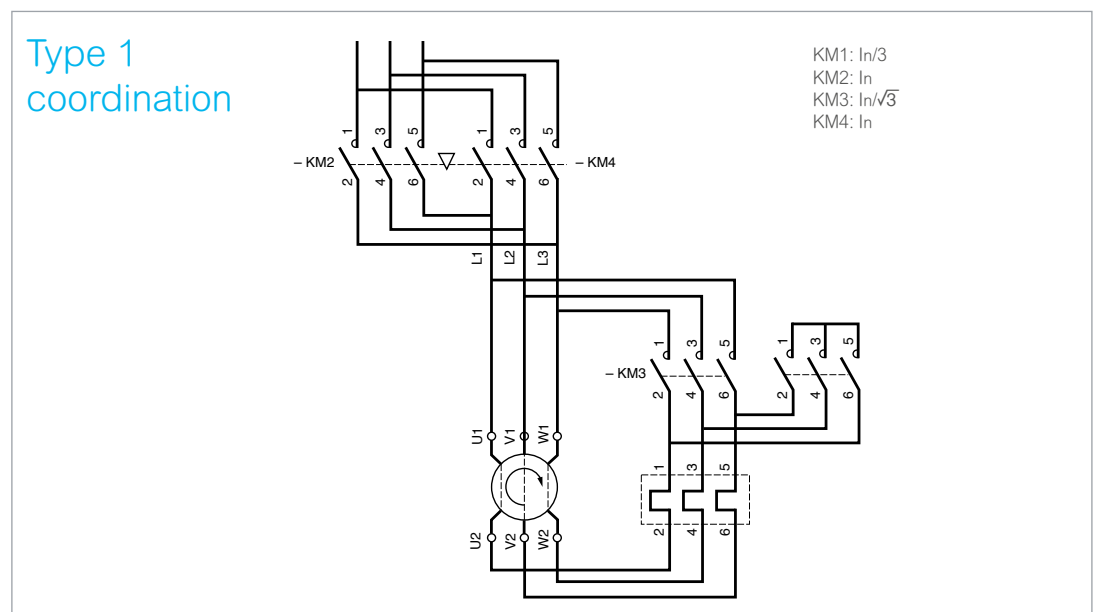


# Principle

## Star delta, with thermal magnetic circuit breaker



## Star delta + reversing, with separate thermal relay



# 5.5 to 7.5 kW - TeSys K

## Star-Delta starters - on DIN rail

### Pre-assembled, pre-wired

TeSys K blocks of contactors on DIN rail (star and delta contactors cannot be separated)

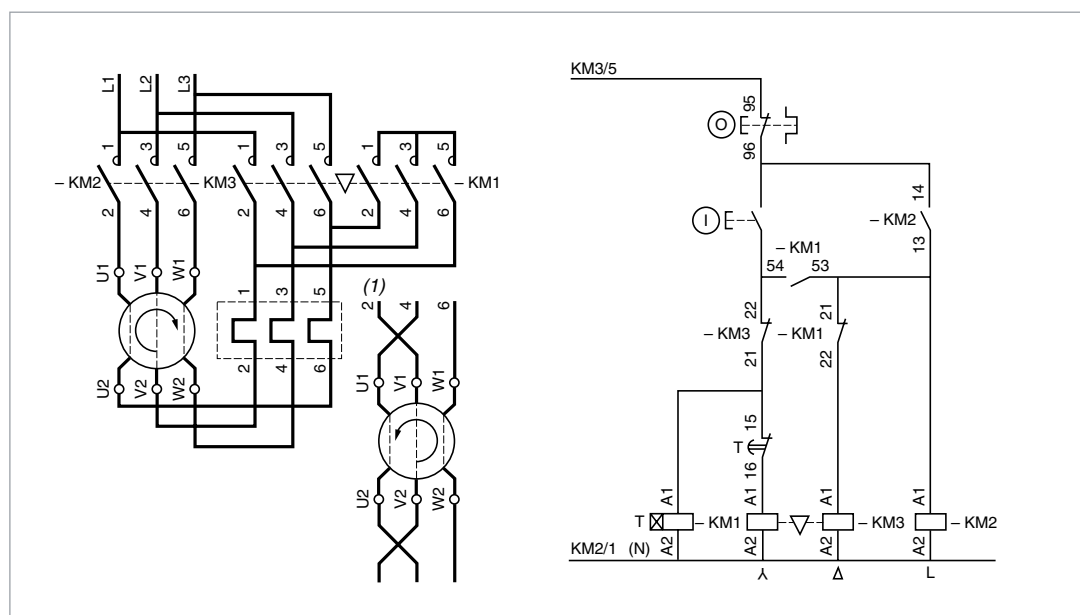
- built-in mechanical interlock
- timer (30" max. starting time)
- built-in auxiliary contacts
- AC coil control
- screw clamp terminals.

### LC3K..



3P 400 V motor rating (kW)	Contactor types			Assembly references
	Line	Delta	Star	
5.5	LC1K06..	LC1K06..	LC1K06..	LC3K06..
7.5	LC1K09..	LC1K09..	LC1K09..	LC3K09..

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 44).





# 4 to 75 kW (400 V) - TeSys D

## Star-Delta starters - on DIN rail

### Pre-assembled, pre-wired

TeSys D blocks of contactors on DIN rail or plate

- with ou without mechanical interlock (depending on model)
- timer (30" max. starting time)
- built-in auxiliary contacts
- AC coil control
- screw clamp terminals.

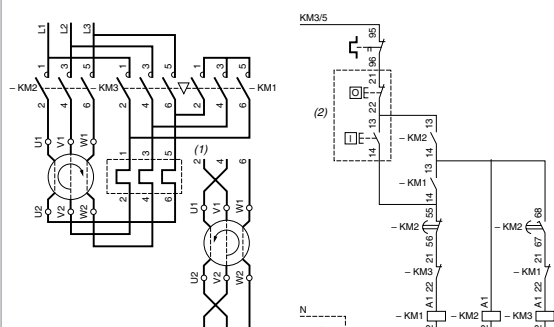
### LC3D••



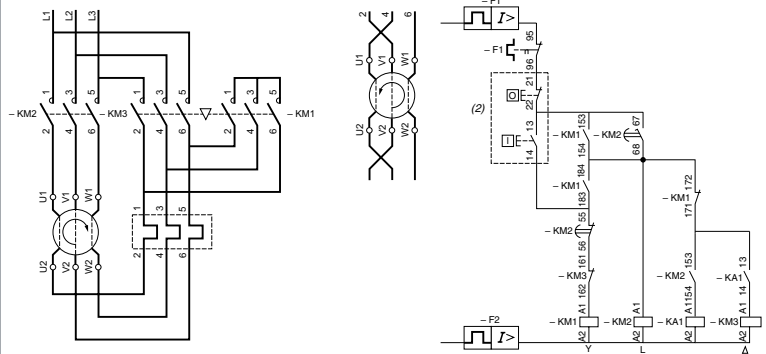
3P 400 V motor rating (kW)	Contactor types			Mechanical interlock included	Assembly references	
	Line	Delta	Star		Plate mounted	Rail mounted
7.5	LC1D09	LC1D09	LC1D09	Yes	LC3D09A••	LC3D090A••
11	LC1D12	LC1D12	LC1D09	Yes	LC3D12A••	LC3D120A••
18.5	LC1D18	LC1D18	LC1D09	Yes	LC3D18A••	LC3D180A••
25	LC1D32	LC1D32	LC1D32	Yes	LC3D32A••	LC3D320A••
75	LC1D80	LC1D80	LC1D50	No	LC3D80••	-
			LC1D80	Yes	LC3D80••A64	-
110	LC1D115	LC1D115	LC1D80	No	LC3D115••	-
			LC1D115	Yes	LC3D115••A64	-
132	LC1D150	LC1D150	LC1D115	No	LC3D150••	-
			LC1D150	Yes	LC3D150••A64	-

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).

From LC3D09A to D80 and LC3D090A to D320A



From LC3D115 to 150



# 4 to 75 kW (400 V) - TeSys D

## Star-Delta starters

### Kits for customer assemblies

TeSys D contactors, kits with power links, electrical interlockings, mechanical interlockings, time delays.



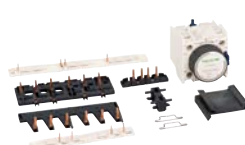
LAD91218\*



LAD91217



LAD93218



LAD93217\*



LAD912GV



LAD9SD3



LA9D8017



LA9D8018

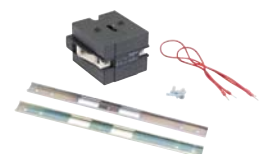


LA9D11517



LA9D15017

\* Video tutorial: please scan QR code



LA9D11502

3P 400 V motor rating	Bill of material					
	Contactors			Kits (with or without interlocking devices) Separate interlocking devices		
(kW)	Line	Delta	Star	Electrical power links Parellel / Reverse / Star	Interlocking devices Mechanical      Electrical	
7.5	LC1D09	LC1D09	LC1D09	LAD91218 / LAD91217 / LAD912GV <sup>(1) (2)</sup>		
11	LC1D12 LC1D18	LC1D12 LC1D18	LC1D09 LC1D12	LAD91218 / LAD91217 / LAD912GV <sup>(1) (2)</sup>		
18.5	LC1D18	LC1D12	LC1D09	LAD91218 / LAD91217 / LAD912GV <sup>(1) (2)</sup>		
		LC1D18	LC1D09			
			LC1D12			
			LC1D18			
	LC1D25	LC1D25	LC1D09	LAD93218 / LAD93217 <sup>(3)</sup>		
			LC1D12			
LC1D18						
25	LC1D32	LC1D32	LC1D18	LAD91218 / LAD91217 <sup>(1)</sup>		
			LC1D25	LAD93218 / LAD93217 <sup>(3)</sup>		
			LC1D32	LAD91218 / LAD91217 <sup>(1)</sup>		
	LC1D38	LC1D38	LC1D38	LAD91218 / LAD91217		
	LC1D40A	LC1D40A	LC1D40A	LAD9SD3		Customer cabling
	LC1D50A	LC1D50A	LC1D40A			
	LC1D65A	LC1D65A	LC1D40A			
			LC1D50A			
	75	LC1D80	LC1D80	LC1D50	LA9D8017	-
LC1D65						
LC1D80				LA9D8018		
LC1D95		LC1D95	LC1D80	LA9D8018		Customer cabling
			LC1D95			
110		LC1D115	LC1D115	LC1D80	LA9D11517	-
	LC1D95					
	LC1D115			LA9D15017	LA9D11502	
132	LC1D150	LC1D150	LC1D115	LA9D15017	LA9D11502	
			LC1D150			

(1) LAD91218 if time delay not needed, LAD91217 if time delay needed (both kits to compose a block of 3 contactors)

(2) LAD912GV if time delay needed (this kit to compose a block of 1 GV2 circuit breaker + 3 contactors)

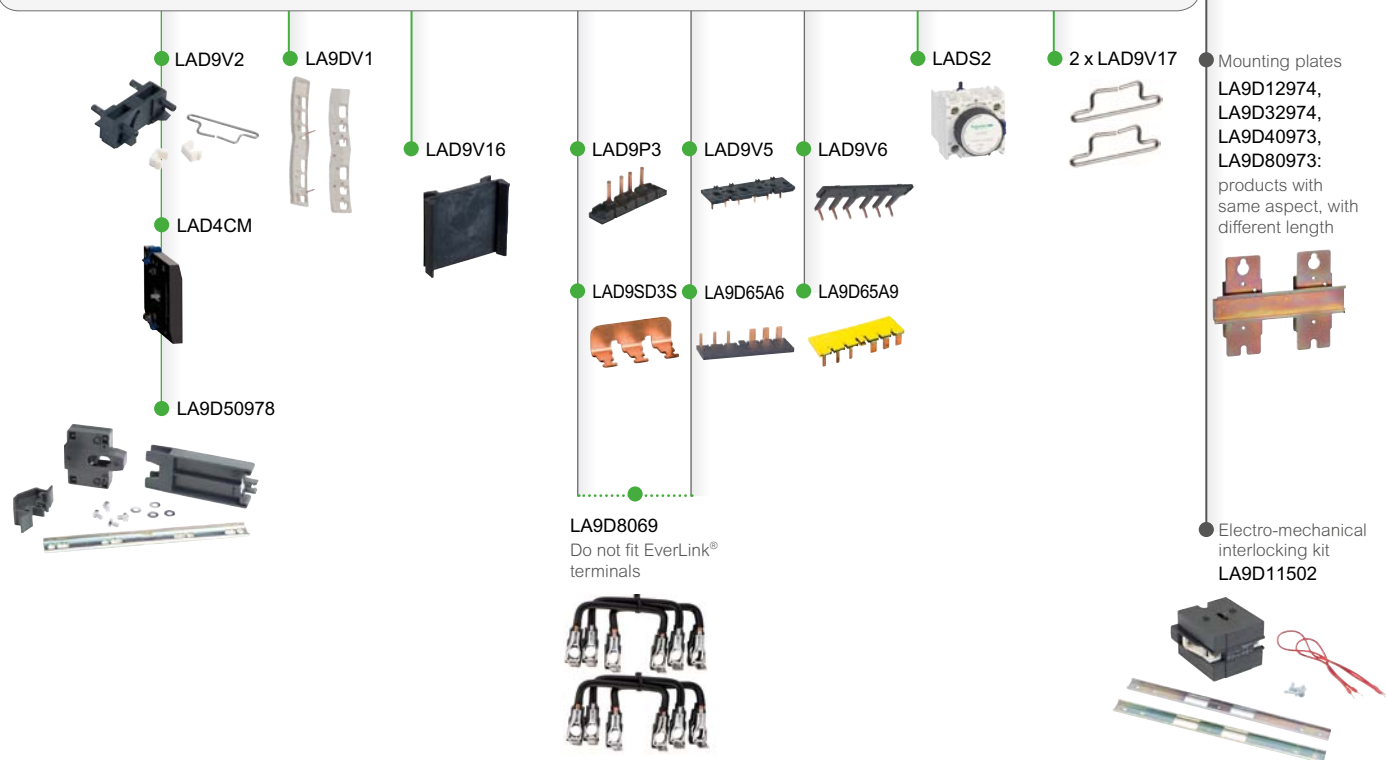
(3) LAD93218 if time delay not needed, LAD93217 if time delay needed.(both kits to compose a block of 3 contactors)

# 4 to 75 kW (400 V) - TeSys D

## Star-Delta starters

### Kits composition

Kit composition >	Mechanical interlocking	Electrical interlocking	Raising adaptor, to align contactor front face	Power links			Time delay auxiliary contact block	Hardware to fix contactor on mounting plate	To be ordered separately
				Short circuit	Parallel connection	Reverser connection			
LAD91217 >	LAD9V2	LAD9V1	-	LAD9P3	LAD9V5	LAD9V6	LADS2	2 x LAD9V17	LA9D12974
LAD91218 >	LAD9V2	LAD9V1	-	LAD9P3	LAD9V5	LAD9V6	-	2 x LAD9V17	LA9D12974
LAD93217 >	LAD9V2	LAD9V1	LAD9V16	LAD9P3	LAD9V5	Yes	LADS2	2 x LAD9V17	LA9D32974
LAD93218 >	LAD9V2	LAD9V1	LAD9V16	LAD9P3	LAD9V5	Yes	-	2 x LAD9V17	LA9D32974
LAD9SD3 >	LAD4CM	-	-	LAD9SD3S	LA9D65A6	LA9D65A9	LADS2	-	-
LA9D5017 >	-	-	-	Yes	Yes	Yes	LADS2	Yes	LA9D40973
LA9D5018 >	LA9D50978	-	-	Yes	Yes	Yes	LADS2	Yes	LA9D40973
LA9D8017 >	-	-	-	Yes	Yes	Yes	LADS2	Yes	LA9D80973
LA9D8018 >	Yes	-	-	LA9D8069		Yes	LADS2	Yes	-
LA9D11517 >	Set of power links								-
LA9D15017 >	Set of power links								LA9D11502



# 85 to 315 kW (400 V) - TeSys F

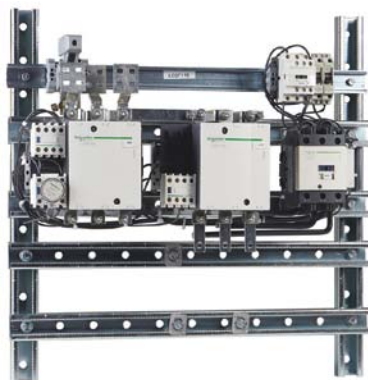
## Star-Delta starters - on chassis for lugs or bars

### Pre-assembled, pre-wired

TeSys F contactors on DIN rail chassis

- with (A64 version) or without mechanical interlock
- timer (20 or 30" (A64 version) max. starting time)
- AC coil control
- screw type terminals for bars, lugs, cables.

LC3F115... 225



LC3F265... 400



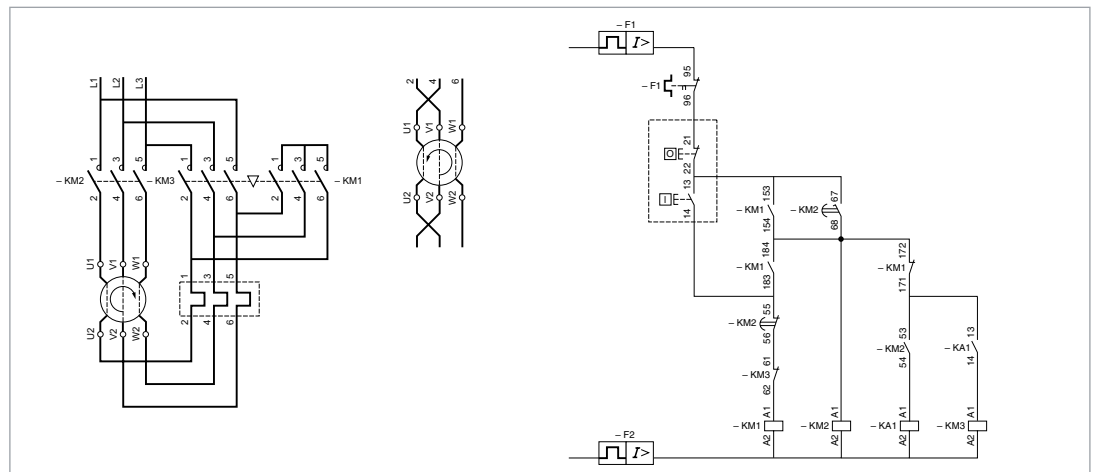
**WARNING:**  
Remember that electrical  
AND mechanical  
interlocking should  
always be preferred to  
ensure assembly  
reliability.



**WARNING:**  
When no mechanical  
interlock is available,  
beware to add an  
electrical interlock with  
sufficient time delay to  
avoid short-circuit.

### Motor Star-Delta starters pre-assembled on chassis

3P 400 V motor rating (kW)	Contactor types			Mechanical interlock included	Assembly references
	Line	Delta	Star		
85	LC1F115	LC1F115	LC1F80	No	LC3F115••
135	LC1F150	LC1F150	LC1F115	No	LC3F150••
160	LC1F185	LC1F185	LC1F150	No	LC3F185••
			LC1F185	Yes	LC3F185••A64
200	LC1F225	LC1F225	LC1F185	No	LC3F225••
			LC1F225	Yes	LC3F225••A64
220	LC1F265	LC1F265	LC1F185	No	LC3F265••
			LC1F265	Yes	LC3F265••A64
280	LC1F330	LC1F330	LC1F265	No	LC3F330••
			LC1F330	Yes	LC3F330••A64
315	LC1F400	LC1F400	LC1F265	No	LC3F400••
			LC1F400	Yes	LC3F400••A64

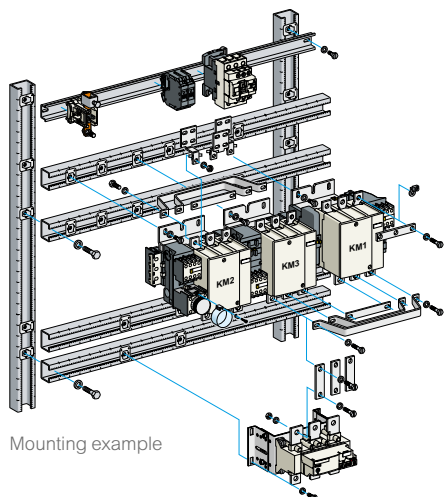




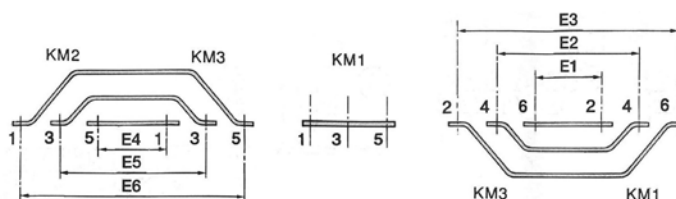
# 85 to 315 kW (400 V) - TeSys F

## Star-Delta starters - screw terminals for lugs or bars

### Components for customer assemblies



Mounting example



Power links dimensions for 3 identical contactors

3 x LC1-		E1 (mm)	E2 (mm)	E3 (mm)	E4 (mm)	E5 (mm)	E6 (mm)
F115	LA9-FF600	77	151	225	112	186	260
F150	LA9-F15000	71	151	231	102	182	262
F185	LA9-FG600	78	158	238	102	182	262
F225	LA9-F22500	62	158	254	86	182	278
F265	LA9-FH600	100	196	292	120	216	312
F330/400	LA9-FJ600	107	203	299	127	223	319
F500	LA9-FK600	112	222	332	132	242	352
F630	LA9-FL600	137	297	457	157	317	477

**WARNING:**

Remember that electrical AND mechanical interlocking should always be preferred to ensure assembly reliability.

**WARNING:**

When no mechanical interlock is available, beware to add an electrical interlock with sufficient time delay to avoid short-circuit.

### Components for 3P customer assemblies

Contactor types			Mechanical interlock included	Mechanical horizontal interlock
Line	Delta	Star		
LC1F115	LC1F115	LC1D80	LA9FF610	-
		LC1F115	LA9FF600	LA9FF970
LC1F150	LC1F150	LC1F115	LA9FG610	LA9FF970
		LC1F150	LA9F15000	LA9FF970
LC1F185	LC1F185	LC1F150	LA9F18517	-
		LC1F150	LA9FG610	-
		LC1F185	LA9FG600	LA9FG970
LC1F225	LC1F225	LC1F185	LA9F22510	LA9FG970
		LC1F225	LA9F22500	LA9FG970
LC1F265	LC1F265	LC1F185	LA9FH610	-
		LC1F265	LA9FH600	LA9FJ970
LC1F330	LC1F330	LC1F265	LA9FJ610	LA9FJ970
		LC1F330	LA9FJ600	LA9FJ970
LC1F400	LC1F400	LC1F265	LA9FJ610	-
		LC1F330	LA9FJ600	-
		LC1F400	LA9FJ600	LA9FJ970
LC1F500	LC1F500	LC1F500	LA9FK600	LA9FJ970
LC1F630	LC1F630	LC1F630	LA9FL600	LA9FJ970



LA9FF610



LA9FG610



LA9F18517

LA9FF600, G, H, K,...  
LA9FL600  
LA9F15000LA9F22510,  
LA9FH610, LA9FJ610LA9FF970..LA9FL970  
Mechanical horizontal interlocks







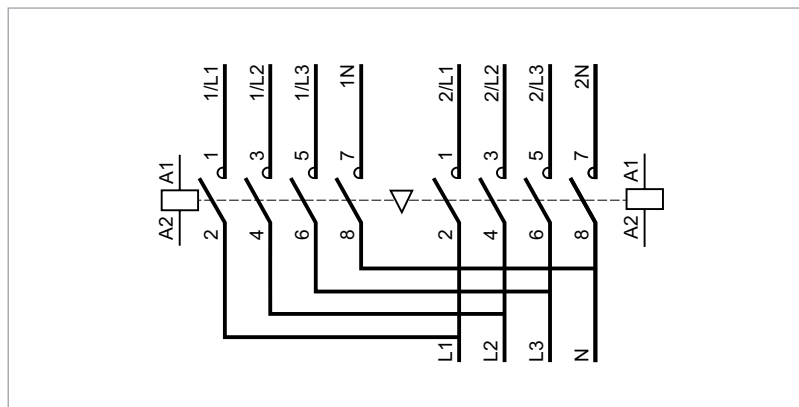
Source or  
load changeover

A

4



# Principle



The changeover contactor assembly can be used for alternatingly switching a load circuit from a main to a secondary source. Loads permutation on a single source can also be achieved with the same assembly.

The changeover is composed of 2 identical 4-pole contactors when each of them must withstand the full load current. They are mechanically and electrically interlocked to prevent from simultaneous closing.

## Note

Mechanical + electrical contactor interlocking should always be preferred for improved reliability.





# Up to 20 A AC-1 - TeSys K

## 4-pole changeovers - screw clamp, spring terminals, Faston or solder pins

### Pre-assembled

Blocks of TeSys K contactors on DIN rail (they cannot be separated)

- 4 NO power poles (AC-1 applications only)
- built-in mechanical interlock (LC2K contactor blocks only)
- AC or DC coil control
- standard or silent contactors
- screw clamp with electrical power links, spring, Faston or solder pins terminals.

#### LC2K..4

LC2K12004P7  
Screw clamp terminals



#### LC2K..43..

LC2K090043E7  
Spring terminals



#### LC2K..47..

LC2K120047B7  
Faston connectors



#### LC2K..45..

LC2K120045P7  
Solder pins



AC-1 rating *	Terminals references							
	Screw clamp with electrical power links		Spring*		Faston (1 x 6.35 or 2 x 2.8)		Solder pins for printed circuitboard	
(A)	Standard contactor	Silent contactor	Standard contactor	Silent contactor	Standard contactor	Silent contactor	Standard contactor	Silent contactor
AC coil control								
20	LC2K09004..	(1)	(1)	-	(1)	(1)	(1)	(1)
	LC2K12004..	(1)	(1)	-	(1)	(1)	(1)	(1)
DC coil control								
20	LP2K09004..	LP5K09004BW3 (2)	(1)	(1)	(1)	(1)	(1)	(1)
	LP2K12004..	LP5K12004BW3 (2)	(1)	(1)	(1)	(1)	(1)	(1)

(\*) AC-1 rating limited to 10 A with spring terminals, 1.5 mm<sup>2</sup> cable max.

(1) Factory assembly on request

(2) For other voltage code, please contact your local sales representative

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 44).

# 20 to 200 A AC-1 - TeSys D

## 4-pole changeovers - screw clamp terminals

### Pre-assembled



#### LC2DT..

Delivered with:

- 4-pole contactors
- mechanical interlock.

AC-1	Terminals references
(A)	Assemblies with pre-wired electrical links
20	LC2DT20.. <sup>(1)</sup>
25	LC2DT25.. <sup>(1)</sup>
32	LC2DT32.. <sup>(1)</sup>
40	LC2DT40.. <sup>(1)</sup>
60	-
80	-
125	LC2D80004.. <sup>(1) (2)</sup>
200	LC2D115004.. <sup>(3)</sup>

(1) Mechanical interlock without electrical interlocking

(2) Order separately 2 auxiliary contact blocks LADN.1 to obtain electrical interlocking between the 2 contactors

(3) Mechanical interlock with integral, pre-wired electrical interlocking

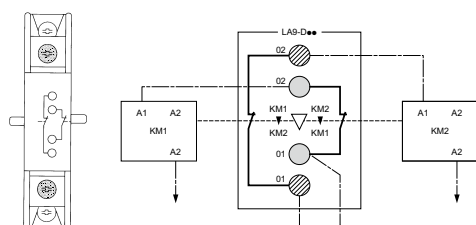
Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).

### Components for customer assemblies

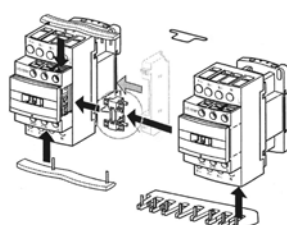
Contactors + dedicated kits for building complete load or source changeover assemblies.

Bill of material				
AC-1 rating (A)	4 poles (NO) contactors	Kits (with or without interlocking devices) Separate interlocking devices		
		Electrical power links	Interlocking devices	
			Mechanical	Electrical
20	2x LC1DT20..	Assembling kits: LADT9R1 electrical interlock not included or LADT9R1V electrical interlock (white power link) included		
25	2x LC1DT25..			
32	2x LC1DT32..			
40	2x LC1DT40..			
60	2x LC1DT60A..	Customer cabling	LAD4CM	Customer cabling
80	2x LC1DT80A..			
125	2x LC1D80004.. (~ coil) or 2x LP1D80004.. (= coil)		LA9D4002 (for LC1) LA9D8002 (for LP1)	
200	2x LC1D115004..	LA9D11570	LA9D11502	

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).



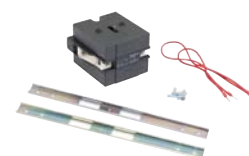
LA9D4002 - LA9D8002: interlocking module / wiring diagram



LADT9R1V Mechanical + electrical interlocking kit



LAD4CM  
Mechanical  
interlock



LA9D11502  
Electro-mechanical  
interlocking



LA9D4002  
Electro-mechanical  
interlocking for AC



LA9D8002  
Electro-mechanical  
interlocking for DC



LADT9R1



LADT9R1V



LA9D11570



LA9D8070

# 20 to 200 A AC-1 - TeSys D

## 4-pole changeovers - screw terminals for lugs spring terminals

### Pre-assembled



LC2DT256\*\*



LC2DT203\*\*

### LC2DT\*\*

Delivered with:

- 4-pole contactors
- mechanical interlock.

AC-1	Terminals references	
(A)	Screw for lugs	Spring
20	LC2DT206** <sup>(1)</sup>	LC2DT203** <sup>(1)(2)</sup>
25	LC2DT256** <sup>(1)</sup>	
32	LC2DT326** <sup>(1)</sup>	
40	LC2DT406** <sup>(1)</sup>	

(1) Mechanical interlock without electrical interlocking

(2) Power and control by Spring terminals

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).

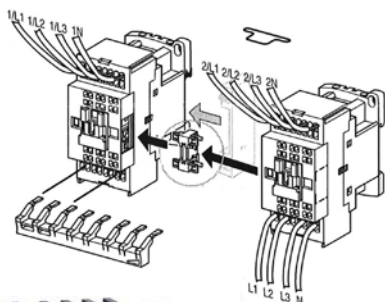
### Components for customer assemblies

Contactors + dedicated kits for building complete load or source changeover assemblies.

Bill of material					
AC-1 rating	4 poles (NO) contactors		Kits (with or without interlocking devices) Separate interlocking devices		
(A)	Terminal type		Electrical power links	Interlocking devices	
	Screw for lugs or bars	Spring		Mechanical	Electrical
20	2x LC1DT206**	2x LC1DT203** <sup>(2)</sup>	<b>LADT3R1</b> Kit for spring terminals only, with power link (LAD9V9), mechanical interlocking (LAD9V2) and assembling staple (LAD9V7)		Customer cabling
25	2x LC1DT256**	2x LC1DT253** <sup>(2)</sup>			
32	2x LC1DT326**	2x LC1DT323** <sup>(2)</sup>			
40	2x LC1DT406**	2x LC1DT403** <sup>(2)</sup>			
60	2x LC1DT60A6**	2x LC1DT60A3** <sup>(1)</sup>	Customer cabling	<b>LAD4CM</b>	Customer cabling
80	2x LC1DT80A6**	2x LC1DT80A3** <sup>(1)</sup>			
125	2x LC1D800046** (~) 2x LP1D800046** (DC)	-	Customer cabling	<b>LA9D4002 (AC) / LA9D8002 (DC)</b>	
200	2x LC1D1150046**	-	Customer cabling	<b>LA9D11502</b>	

(1) Power connection by EverLink® BTR screw connector's and control by spring terminals

(2) Power and control by Spring terminals.



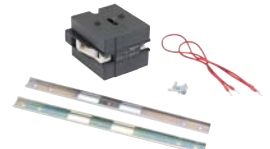
**LADT3R1** (for spring terminals only)  
Mechanical + electrical interlocking kit



**LA9D8002**  
Electro-mechanical interlocking for DC



**LA9D4002**  
Electro-mechanical interlocking for AC



**LA9D11502**  
Electro-mechanical interlocking



**LAD4CM**  
Mechanical interlock

# 60 to 200 A AC-1 - TeSys D

## 3-pole changeovers - screw clamp terminals

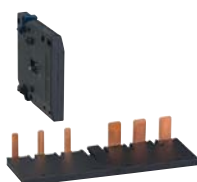
### Components for customer assemblies

2 identical contactors + dedicated kits for building complete load or source changeover assemblies.

Characteristics	Bill of material (contactors to be completed with...)			
AC-3 rating (A)	Contactors	Set of electrical power links	Mechanical interlocking	Electrical interlocking
40	2x LC1D40A•• <sup>(1)</sup>	Kit: <b>LAD9R3S</b> : power links + mechanical interlock		Customer cabling
50	2x LC1D50A•• <sup>(1)</sup>			
65	2x LC1D65A•• <sup>(1)</sup>			
80	2x LC1D80••	Power links: <b>LA9D80691</b>	Mechanical + electrical interlocks: <b>LA9D4002</b> for AC - <b>LA9D8002</b> for DC	
95	2x LC1D95••			
115	2x LC1D115••	Power links: <b>LA9D11571</b>	Mechanical + electrical interlocks: <b>LA9D11502</b>	
150	2x LC1D150••			

(1) Power connection by EverLink® BTR screw connectors and control by screw clamp terminals

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48).



**LAD9R3S**  
Kit with mechanical interlock  
and 3P 65 A AC-3 power links



**LA9D80691**  
3P 95 A AC-3 power links



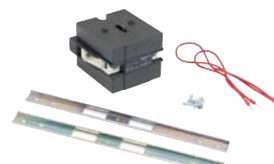
**LA9D11571**  
3P 150 A AC-3 power links



**LA9D4002**  
Electro-mechanical  
interlocking for 80-95 A AC-3



**LA9D8002**  
Electro-mechanical  
interlocking for 80-95 A AC-3



**LA9D11502**  
Electro-mechanical  
interlocking



# 200 to 1000 A AC-1 - TeSys F

## 3-pole, 4-pole changeovers - screw terminals for lugs or bars

### Pre-assembled



#### LC2DF..

Delivered with:

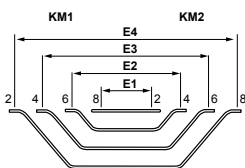
- 4-pole contactors
- mechanical interlock
- pre-wired power connections.

Contactor types (pair of 2 identical)	References
LC1F115	<b>LC2F1154</b>
LC1F150	<b>LC2F1504</b>
LC1F185	<b>LC2F1854</b>
LC1F225	<b>LC2F2254</b>
LC1F265	<b>LC2F2654</b>

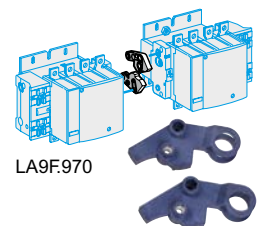
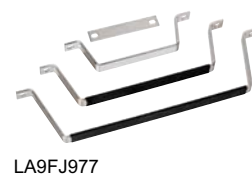
Coils to be ordered separately – see commercial references in TeSys catalogue chapter B9.

### Components for customer horizontal assemblies

Bill of material								
Contactor types	3-pole contactors assemblies			4-pole contactors assemblies				
(pair of 2 identical)	Contactors	Set of electrical power links	Horizontal mechanical interlock	Contactors	Set of electrical power links	Horizontal mechanical interlock		
LC1F115	2x LC1F115	LA9FF982	LA9FF970	2x LC1F1154	LA9FF977	LA9FF970		
LC1F150	2x LC1F150	LA9F15082		2x LC1F1204	LA9F15077			
LC1F185	2x LC1F185	LA9FG982		LA9FG970	2x LC1F1854		LA9FG977	LA9FG970
LC1F225	2x LC1F225	LA9F22582			2x LC1F2254		LA9F22577	
LC1F265	2x LC1F265	LA9FH982	LA9FJ970	2x LC1F2654	LA9FH977	LA9FJ970		
LC1F330	2x LC1F330	LA9FJ982		2x LC1F3304	LA9FJ977			
LC1F400	2x LC1F400	LA9FJ982		2x LC1F4004				
LC1F500	2x LC1F500	LA9FK982		2x LC1F5004	LA9FK977			
LC1F630	2x LC1F630	LA9FL982	LA9FL970	2x LC1F6304	LA9FL977	LA9FL970		
LC1F800	2x LC1F800	LA9FL982		-	-		-	



KM1 = KM2		E1	E2	E3	E4
LC1F1154	LA9FF977	77	151	225	299
LC1F1504	LA9F15077	71	151	231	311
LC1F1854	LA9FG977	78	158	238	318
LC1F2254	LA9F22577	54	150	246	342
LC1F2654	LA9FH977	100	196	292	388
LC1F3304/4004	LA9FJ977	107	203	299	395
LC1F5004	LA9FK977	112	222	332	442
LC1F6304	LA9FL977	137	297	457	617

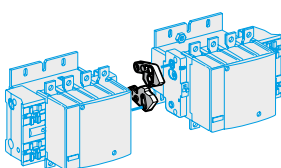


#### Vertical customer assembly

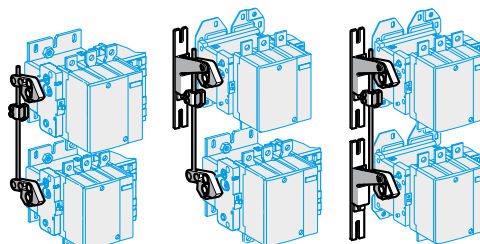
The vertical mechanical interlocks must be substituted by horizontal. Electrical power and interlocking circuits shall be wired by customer (no pre-fabricated links available).

#### Customer assembly of pairs of contactors of different ratings

Contactors of different ratings (3 or 4 poles) can be only vertically assembled. Selection tables of appropriate mechanical interlocks (no pre-fabricated links available) can be found in the TeSys catalogue ref. MKTED210011EN - chapter B9 (page 38-39 of 2017-2018 edition).



Mechanical interlocks for horizontal assembling of identical contactors.



Interlocks are different, depending on the ratings to be associated (only vertically).



# Part B: contactors & accessories

**B**

TeSys K

**5**

TeSys D

**6**

TeSys F

**7**



# TeSys K



Simple, robust and compact contactors,  
3 or 4 poles, from 6 to 16 A AC-3, 20 A AC-1  
(10 A AC-1 with spring terminals)



With screw clamp  
terminals



With spring terminals



With Faston connectors



With solder pins



With screws for lugs

Electrodomestic applications:  
TeSys D, K 'S335' series contactors

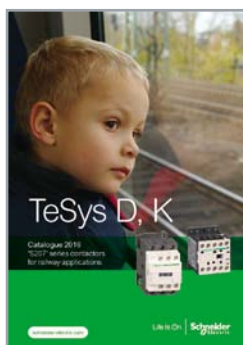


Catalogue 2017  
Ref.: LVCATDESDK335\_EN



Scan or click on  
QR code to reach  
the portal

Railways applications:  
TeSys D, K 'S207' series contactors



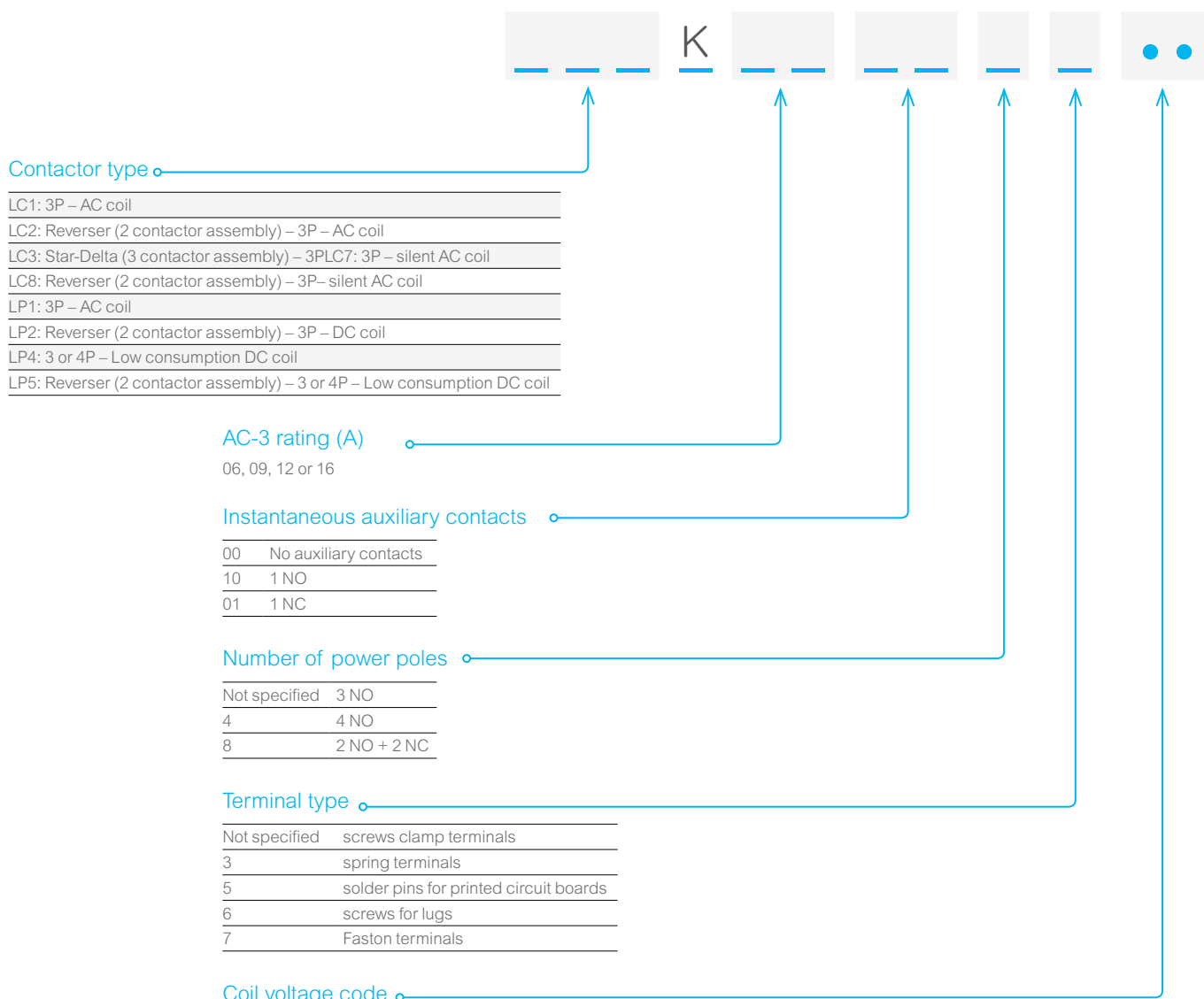
Catalogue 2016  
Ref.: LVCATRAIL\_EN



Scan or click on  
QR code to reach  
the portal



# Commercial references coding



## a.c. supply

### Contactors LC1 K (0.8... 1.15 Uc) (0.85... 1.1 Uc)

Volts	12	20	24 <sup>(2)</sup>	36	42	48	110	115	120	127	200/208	-	220/230	230	230/240
50/60 Hz	J7	Z7	B7	C7	D7	E7	F7	FE7	G7	FC7	L7		M7	P	U7
Volts	256	277	380/400	-	400	400/415	-	440	480	500	575	600	660/690	-	-
50/60 Hz	W7	UE7	Q7	-	V7	N7	-	R7	T7	S7	SC7	X7	Y7	-	-

Up to and including 240 V, coil with integral suppression device available: add 2 to the code required. Example: J72

### Contactors LC7 K (0.8... 1.1 Uc)

Volts	24	42	48	110	115	220	230/240
50/60 Hz	B7	D7	E7	F7	FE7	M7	U7

## d.c. supply

### Contactors LP1 K (0.8... 1.15 Uc)

Volts	12	20	24 <sup>(2)</sup>	36	48	60	72	100	110	125	155	174	200	220	230	240	250
Code	JD	ZD	BD	CD	ED	ND	SD	KD	FD	GD	PD	QD	LD	MD	MPD	MUD	UD

Coil with integral suppression device available: add 2 to the code required. Example: JD3

## Low consumption

### Contactors LP4 K (0.7... 130 Uc)

Volts	12	20	24	48	72	110	120
Code	JW3	ZW3	BW3	EW3	SW3	FW3	GW3

B

5

# Commercial references per terminal type

TeSys K contactors fulfill a large variety of customer's needs thanks to their compacity and multiple declinations:

- 5 terminal types
- AC, DC, low consumption DC coils (for control by PLC output)
- standard or silent contactors.

Check for details and variant availabilities in TeSys catalogue ref. MKTED210011– chapter B8.

## 3 and 4 pole TeSys K contactors

Screw clamp terminals



LC1K0901..

Spring terminals



LC1K09013..

Faston connectors



LC1K09017..

Solder pins



LC1K09015..

Screws for lugs



LC1K9016..



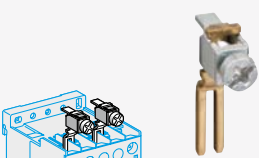
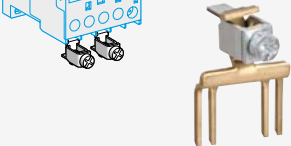

AC3 rating	AC1 rating	Power contacts		Auxiliary contacts		Screw clamp connections		Spring terminals		Faston connectors (1 x 6.35 or 2 x 2.8)		Solder pins for printed circuitboard		Lugs
(A)		NO	NC	NO	NC									
AC supply of control circuit						General purpose	Silent contactor	General purpose	Silent contactor	General purpose	Silent contactor	General purpose	Silent contactor	General purpose
6	-	3	-	1	-	LC1K0610	LC7K0610**	LC1K06103**	-	LC1K06107**	LC7K06107**	LC1K06105**	LC7K06105**	LC1K06106**
	-	3	-	-	1	LC1K0601**	LC7K0601**	LC1K06013**	-	LC1K06017**	LC7K06017**	LC1K06015**	LC7K06015**	LC1K06016**
9	20*	3	-	1	-	LC1K0910**	LC7K0910**	LC1K09103**	-	LC1K09107**	LC7K09107**	LC1K09105**	LC7K09105**	LC1K09106**
	20*	3	-	-	1	LC1K0901**	LC7K0901**	LC1K09013**	-	LC1K09017**	LC7K09017**	LC1K09015**	LC7K09015**	LC1K09016**
-	20*	4	-	-	-	LC1K09004**	LC7K09004**	LC1K090043**	-	LC1K090047**	LC7K090047**	LC1K090045**	LC7K090045**	-
	20*	2	2	-	-	LC1K09008**	LC7K09008**	LC1K090083**	-	LC1K090087**	LC7K090087**	LC1K090085**	LC7K090085**	-
12	20*	3	-	1	-	LC1K1210**	LC7K1210**	LC1K12103**	-	LC1K12107**	LC7K12107**	LC1K12105**	LC7K12105**	LC1K12106**
	20*	3	-	-	1	LC1K1201**	LC7K1201**	LC1K12013**	-	LC1K12017**	LC7K12017**	LC1K12015**	LC7K12015**	LC1K12016**
-	20*	4	-	-	-	LC1K12004**	LC7K12004**	-	-	LC1K120047**	LC7K120047**	LC1K120045**	LC7K120045**	-
16	-	3	-	1	-	LC1K1610**	-	-	-	LC1K16107**	-	LC1K16105**	-	LC1K16106**
	-	3	-	-	1	LC1K1601**	-	-	-	LC1K16017**	-	LC1K16015**	-	LC1K16016**
DC supply of control circuit						General purpose	Low consumption	General purpose	Low consumption	General purpose	Low consumption	General purpose	Low consumption	General purpose
6	-	3		1		LP1K0610**	LP4K0610**	LP1K06103**	LP4K06103**	LP1K06107**	LP4K06107**	LP1K06105**	LP4K06105**	LP1K06106**
	-	3			1	LP1K0601**	LP4K0601**	LP1K06013**	LP4K06013**	LP1K06017**	LP4K06017**	LP1K06015**	LP4K06015**	LP1K06016**
9	20*	3		1		LP1K0910**	LP4K0910**	LP1K09103**	LP4K09103**	LP1K09107**	LP4K09107**	LP1K09105**	LP4K09105**	LP1K09106**
	20*	3			1	LP1K0901**	LP4K0901**	LP1K09013**	LP4K09013**	LP1K09017**	LP4K09017**	LP1K09015**	LP4K09015**	LP1K09016**
-	20*	4	-	-	-	LP1K09004**	LP4K09004**	LP1K090043**	LP4K090043**	LP1K090047**	LP4K090047**	LP1K090045**		-
	20*	2	2	-	-	LP1K09008**	LP4K09008**	LP1K090083**	LP4K090083**	LP1K090087**	LP4K090087**	LP1K090085**		-
12	20*	3		1		LP1K1210**	LP4K1210**	LP1K12103**	LP4K12103**	LP1K12107**	LP4K12107**	LP1K12105**	LP4K12105**	LP1K12106**
	20*	3			1	LP1K1201**	LP4K1201**	LP1K12013**	LP4K12013**	LP1K12017**	LP4K12017**	LP1K12015**	LP4K12015**	LP1K12016**
-	20*	4	-	-	-	LP1K12004**	LP4K12004**	LP1K120043**	LP4K120043**	LP1K120047**	LP4K120047**	LP1K120045**	LP4K120045**	-

\* AC1 rating limited to 10 A with spring terminals (max. cable: 1.5 mm<sup>2</sup>).

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 44)

# Connection accessories

## Terminal adaptors - Pole interconnection links

<p>For</p> <p>LC1K06... LC1K16</p> <p>LC7K06... LC7K12</p> <p>LP1K06... LP1K12</p> <p>LP4K06... LP4K12</p>		Solder pins adaptor for top terminals <b>LA9K105S</b>	Lot of 100	
		Solder pins adaptor for bottom terminals <b>LA9K105I</b>	Lot of 100	For 4P contactors with screw terminals for lugs. Solder pins allow every terminal to be linked to a printed circuit board or to an individual cable.
		2-pole parallel link <b>LA9E1</b>	Lot of 4	For contactors with screw clamp terminals. Connects 2 poles in parallel. Can be used for increasing the current switching capability. Used to make/break a current higher than the pole rated capacity.
		4-pole parallel link <b>LA9E2</b>	Lot of 4	For contactors with screw clamp terminals. Connects 4 poles in parallel. Can be used for increasing the current switching capability. Used to make/break a current higher than the pole rated capacity.
		Parallel + reverser links kit <b>LA9K0969</b>		For 3P contactors with screw clamp terminals. Used for motor reverser starter.

# TeSys D



Reliable and long-lasting contactors,  
3 or 4 poles, from 6 to 16 A AC-3, 20 A AC-1  
(10 A AC-1 with spring terminals)

## A choice of terminal types



Screw clamp terminals



EverLink® terminals,  
with constant tightening



Screw terminals,  
for lugs or bars



Faston terminals

## Different size, according to rating:



9 to 38 A AC-3:  
LC1D09, D12, D18, D25,  
D32, D38



40 to 65 A AC-3:  
LC1D40, D50, D65  
LC1DT60A, DT80A

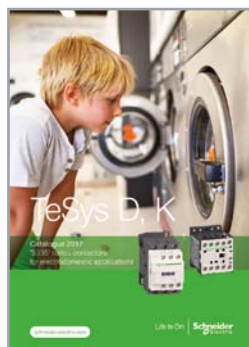


80 to 95 A AC-3:  
LC1D80, D95  
LC1D80004, LC1D80008,  
LC1D4008, LC1D65008



115 to 150 A AC-3:  
LC1D115, D150  
LC1D115005

Electrodomestic applications:  
TeSys D, K 'S335' series contactors

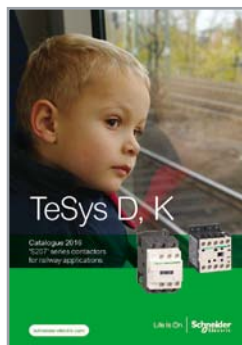


Catalogue 2017  
Ref.: LVCATDESDK335\_EN



Scan or click on  
QR code to reach  
the portal

Railways applications:  
TeSys D, K 'S207' series contactors



Catalogue 2016  
Ref.: LVCATRAIL\_EN



Scan or click on  
QR code to reach  
the portal

# Commercial references coding

**Number of contactor**

1 contactor: 1 direction
2 contactors: reversing

**Number of poles**

D	3 or 4 poles	D4000	4-pole 60 A AC-1
DT	4-pole	D6500	4-pole 80 A AC-1
		D8000	4-pole 125 A AC-1
		D11500	4-pole 200 A AC-1
		4	4 NO poles
		8	2 NO + 2 NC poles

**Rating (A)**

09... 150 A AC-3 for 3-pole contactors  
20... 200 A AC-1 for 4-pole contactors

**Terminals**

-	Screw clamp*
A	EverLink® screw clamp
3	Spring
6	Screw for lug or bar
9	Faston

**Safety cover**

-	Without safety cover*
5	With safety cover

**Coil voltage:**  
A to Z – Coil voltage (see table)

Volts	5	12	20	24	36	42	48	60	72	110	115	125	220	230	240	250	380	400	415	440	500
a.c. supply																					
50/60 Hz				B		D	E			F	FE		M	P	U		Q	V	N	R	S
50 Hz				B		D	E			F	FE		M	P	U		Q	V	N	R	S
60 Hz				B			E			F			M		U		Q			R	
d.c. supply																					
d.c.		J		B	C		E	N	S	F		G	M			U				R	
d.c. low cons	A	J	Z	B			E			F			M			U					

**Coil supply frequency**

D	d.c.
W	d.c. wide voltage range
L	d.c. low consumption
5	a.c. 50 Hz
6	a.c. 60 Hz
7	a.c. 50/60 Hz

\* No specific code displayed in the reference.

## Exemples

**LC 1 D 40 A - BD**

1 contactor • 3-pole • 40 A • EverLink® screw clamp terminals • Without safety cover • 24 V • dc coil  
Corresponding reference: **LC1D40ABD**

**LC 1 D8000 4 - - P7**

1 contactor • 4-pole • 125 A • Screw clamp terminals • Without safety cover • 230 V • 50/60 Hz ac coil  
Corresponding reference: **LC1D80004P7**

## Note

Contactors exist for most of possible combinations.  
Check for availability before ordering.





# Commercial references per terminal type

TeSys D contactors fulfill a large variety of customer's needs thanks to their multiple declinations, accessories and auxiliaries:

- 5 terminal types
- AC, DC, Low Consumption DC coils, electronic coils (TeSys D Green for control by PLC output).

Check for details, accessories, auxiliaries in TeSys catalogue ref. MKTED210011– chapter B.

## 3 and 4-pole TeSys D contactors



AC3 rating	AC1 rating	Power contacts		Auxiliary contacts		Screw clamp terminals or EverLink® connectors	Lugs or bars	Spring terminals	Faston connectors
(A)		NO	NC	NO	NC				
9	16	3	-	1	1			LC1D093** <sup>(4)</sup>	
	25	3	-	1	1	LC1D09** <sup>(1)</sup>	LC1D096**		LC1D099** <sup>(6)</sup>
	20	4	-	1	1	LC1DT20** <sup>(1)</sup>	LC1DT206**	LC1DT203** <sup>(4)</sup>	
		2	2	1	1	LC1D098** <sup>(1)</sup>	LC1D0986**	LC1D0983** <sup>(4)</sup>	
12	16	3	-	1	1			LC1D123** <sup>(4)</sup>	
	25	3	-	1	1	LC1D12** <sup>(1)</sup>	LC1D126**		LC1D129** <sup>(6)</sup>
		4	-	1	1	LC1DT25** <sup>(1)</sup>	LC1DT256**	LC1DT253** <sup>(4)</sup>	
		2	2	1	1	LC1D128** <sup>(1)</sup>	LC1D1286**	LC1D1283** <sup>(4)</sup>	
18	25	3	-	1	1			LC1D183** <sup>(4)</sup>	
	32	3	-	1	1	LC1D18** <sup>(1)</sup>	LC1D186**		-
		4	-	1	1	LC1DT32** <sup>(1)</sup>	LC1DT326**	LC1DT323** <sup>(4)</sup>	
		2	2	1	1	LC1D188** <sup>(1)</sup>	LC1D1886**	LC1D1883** <sup>(4)</sup>	
25	25	3	-	1	1			LC1D253** <sup>(4)</sup>	
	40	3	-	1	1	LC1D25** <sup>(1)</sup>	LC1D256**		-
		4	-	1	1	LC1DT40** <sup>(1)</sup>	LC1DT406**	LC1DT403** <sup>(4)</sup>	
		2	2	1	1	LC1D258** <sup>(1)</sup>	LC1D2586**	LC1D2583** <sup>(4)</sup>	
32	25	3	-	1	1			LC1D323** <sup>(4)</sup>	
	50	3	-	1	1	LC1D32** <sup>(1)</sup>	LC1D326**		-
38	38	3	-	1	1			LC1D383** <sup>(4)</sup>	
	50	3	-	1	1	LC1D38** <sup>(1)</sup>	LC1D386**		-
40	60	3	-	1	1	LC1D40A** <sup>(2)</sup>	LC1D40A6**	LC1D40A3** <sup>(5)</sup>	-
	60	4	-	1	1	LC1DT60A** <sup>(2)</sup>	LC1DT60A6**	LC1DT60A3** <sup>(5)</sup>	
		2	2	1	1	LC1D40008** (~ coil)	LC1D400086** (~ coil)		
						LP1D40008** (= coil)	LP1D400086** (= coil)		
50	80	3	-	1	1	LC1D50A** <sup>(2)</sup>	LC1D50A6**	LC1D50A3** <sup>(5)</sup>	-
65	80	3	-	1	1	LC1D65A** <sup>(2)</sup>	LC1D65A6**	LC1D65A3** <sup>(5)</sup>	-
	80	4	-	1	1	LC1DT80A** <sup>(2)</sup>	LC1DT80A6**	LC1DT80A3** <sup>(5)</sup>	
		2	2	1	1	LC1D65008** (~ coil)	LC1D650086** (~ coil)		
						LP1D65008** (= coil)	LP1D650086** (= coil)		
80	125	3	-	1	1	LC1D80** <sup>(3)</sup>	LC1D806**	-	-
	125	4	-	1	1	LC1D80004** (~ coil)	LC1D800046** (~ coil)		
		2	2	1	1	LP1D80004** (= coil) <sup>(3)</sup>	LP1D800046** (= coil)		
						LC1D80008** (~ coil)	LC1D800086** (~ coil)		
						LP1D80008** (= coil)	LP1D800086** (= coil)		
95	125	3	-	1	1	LC1D95** <sup>(3)</sup>	LC1D956**	-	-
115	200	3	-	1	1	LC1D115** <sup>(3)</sup>	LC1D1156**	-	-
-	200	4	-	1	1	LC1D115004** <sup>(3)</sup>	LC1D1150046**		
150	200	3	-	1	1	LC1D150** <sup>(3)</sup>	LC1D1506**	-	-

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; BD = 24 V DC; BW3 = 24 V DC low consumption; other codes, see page 48)

(1) Connection by screw clamp terminals

(2) Power connection by EverLink® BTR screw connectors and control by screw clamp terminals

(3) Connection by screw clamp terminal or connectors

(4) Power and control by spring terminals

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

(6) Contactors fitted with 2 x 6.35 mm Faston connectors on power poles and 1 x 6.35 mm on coil and auxiliary terminals.

# Connection accessories

## Terminal adaptors for 3P contactors

For LC1D09...  
D38



Terminal adaptor  
for 25 mm² cables  
**LA9D3260**

Lot of 1

To be inserted into 3P contactor screw clamp or screw type terminals. Keeps wires in the right order when removing/reinstalling a contactor.



Terminals for parallel  
connection  
**LA9D1261**

Lot of 10

For connecting one single cable into 2 terminals in parallel.

For LC1D40A...  
D65A



EverLink® terminal  
block  
**LAD96560**

Lot of 1

Spare EverLink® terminal for compatible contactors.

For LC1D40A...  
D80A



Wiring adaptor  
**LAD4BB3**

Lot of 1

Used when an old contactor must be replaced by today's TeSys D. The existing coil top wiring is generally too short, this adaptor provides extra length to allow new front coil connection.

For LC1D40A6...  
D65A6



3P terminal protective  
cover  
**LAD96570**

Lot of 1

To be inserted on screw type terminal (for lugs) of contactors. Prevents contact with live parts.

For LC1D80...  
D95



Control circuit take-off  
from main pole  
**LA9D8067**

Lot of 10

To be inserted into a power screw clamp terminal, it provides a smaller terminal for a control circuit connected to the same voltage.

For LC1D115...  
D150



Control circuit take-off  
from main pole  
**LA9D11567**

Lot of 10

To be inserted into a power screw clamp terminal, it provides a smaller terminal for a control circuit connected to the same voltage



Terminal blocks  
for 120 mm² cables  
**LA9D115603**

Lot of 2

For changing contactors with simple screw-type terminals into screw clamp terminals

For LC1D115...  
D150



Connector blocks  
for lug terminals  
**LA9D115503**

Lot of 2

Hold the ring lugs in place when connected to a contactor with simple screw-type terminals.



Spreaders for  
power poles  
**GV7AC03**

Lot of 3

To be connected to a contactor with screw type terminals (for lugs), for increasing pole pitch to 45 mm.



Terminal protective  
covers  
**LA9D115703**

Lot of 6

To be inserted on screw type terminals (for lugs) of contactors. 1 cover per pole. Prevent contact with live parts.

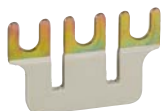
B

6

# Connection accessories

## Terminal interconnection links for 3P contactors

### For LC1D09... D38



3P parallel links  
**LA9D1262**

Lot of 10

Used for linking 3 poles of a contactor used in a star/delta starter, as an example.



3P parallel links  
**LAD9P3**

Lot of 10

Used for linking 3 poles of a contactor used in a star/delta starter, as an example.

### For LC1D40... D65



2P parallel links  
**LA9D40961**

Lot of 2

For connecting one single cable with a ring lug into 2 contactor terminals in parallel.



2P parallel link  
**LAD9P32**

Lot of 1

For connecting one single cable with a ring lug into 2 contactor terminals in parallel.



3P parallel link with warning cover  
**LAD9SD3S**

Lot of 1

Used for linking 3 poles of a contactor used in a star/delta starter, as an example.



3P parallel link  
**LAD9P33**

Lot of 1

For connecting one single cable with a ring lug into 3 contactor terminals in parallel.

### For LC1D80... D95



2P parallel link  
**LA9D80961**

Lot of 2

For connecting one single cable with a ring lug into 2 contactor terminals in parallel.



3P parallel link  
**LA9D80962**

Lot of 1

For connecting one single cable with a ring lug into 3 contactor terminals in parallel.

# Connection accessories

## Pole interconnection links for a pair of 3P contactors

For LC1D09... D38  
screw clamp  
terminals



Compact parallel link  
between 2 contactors  
**LAD9V5**

Used upstream in reverser starters – High compactness, leaves a space for inserting a cable in each terminal.



Reverser link between  
2 contactors  
**LAD9V6**

Used downstream in reverser starters – High compactness.

For LC1D09... D38  
screw clamp or  
spring terminals



Compact parallel link  
between 2 contactors  
**LAD9V10**

Used upstream in reverser starters with spring or screw clamp terminal contactors. Must be used when a Quick power connection module - LAD341- is used to connect their top terminals to a circuit breaker.

For LC1D09... D38  
spring terminals



Parallel link between  
2 contactors  
**LAD9V12**

Used upstream in reverser starters, without Quick power connection module - LAD341.



Compact reverser link  
between 2 contactors  
**LAD9V11**

Used downstream in reverser starters with spring terminal contactors. Must be used when a Quick power connection module - LAD341- is used to connect their terminals to a circuit breaker.



Reverser link between  
2 contactors  
**LAD9V13**

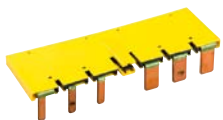
Used downstream in reverser starters. For reverser connection of 2 contactors with spring terminals, without Quick power connection module - LAD341.

For LC1D40A...  
D65A screw clamp  
terminals



Compact parallel link  
between 2 contactors  
**LA9D65A6**

Used upstream in reverser starters. Molded electrical link goes into a contactor cavity for better compactness.



Compact reverser link  
between 2 contactors  
**LA9D65A9**

Used downstream in reverser starters. Molded electrical link goes into a contactor cavity for better compactness.

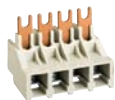
## Quick electrical link finder

Type	Screw clamp terminals	Spring terminals	EverLink® terminal
3-pole contactors	LC1D09... LC1D38	LC1D09... LC1D38	LC1D40A... LC1D65A
Parallel link		<b>LAD9V12</b>	
Parallel compact link	<b>LAD9V5</b> and <b>LAD9V10</b>	<b>LAD9V10</b>	<b>LA9D65A6</b>
Reverser link		<b>LAD9V13</b>	
Reverser compact link	<b>LAD9V6</b>	<b>LAD9V11</b>	<b>LA9D65A9</b>

# Connection accessories

## Terminal adaptors - Pole interconnection links for 4P contactors

For LC1DT20...  
DT25



Terminal adaptor  
for 10 mm² cables  
**LA9D1260**

Lot of 1

To be inserted into 4P contactor screw clamp or screw type terminals. 90° connection angle between cable and contactor terminal.



1 terminal adaptor  
for 10 mm² cables  
**LA9D2560**

Lot of 1

To be inserted into 4P contactor screw clamp or screw type terminals. Straight connection between cable and connector terminal.



Terminal for 2P  
parallel connection  
**LA9D1261**

Lot of 10

For connecting one single cable into 2 terminals in parallel.



1 terminal for  
parallel connection  
**LA9D1263**

Lot of 2

For connecting one single cable with a ring lug into 4 terminals in parallel.



1 terminal for 2P  
parallel connection  
**LA9D2561**

Lot of 10

For connecting one single cable into 2 terminals in parallel.



1 terminal for 4P  
parallel connection  
**LA9D2563**

Lot of 1

For connecting one single cable into 4 terminals in parallel.

For LC1DT40...  
DT65



2P parallel links  
**LA9D40961**

Lot of 2

For connecting one single cable with a ring lug into 2 terminals in parallel.



4P parallel links  
**LA9D40963**

Lot of 2

For connecting one single cable with a ring lug into 4 terminals in parallel.

For LC1D60A6...  
D80A6



4P terminal  
protective cover  
**LAD96580**

Lot of 1

To be inserted on screw type terminal (for lugs) of contactors. Prevents from direct contact with live lugs.

For LC1DT80...  
DT95



Control circuit take-off  
from main pole  
**LA9D8067**

Lot of 10

To be inserted into a power screw clamp terminal, it provides a smaller terminal for a control circuit connected to the same voltage.



# Connection accessories

## Terminal adaptors - Pole interconnection links for 4P contactors

For LP1D80



2P parallel links  
**LA9D80961**

Lot of 2

For connecting one single cable with a ring lug into 2 terminals in parallel.



4P parallel links  
**LA9D80963**

Lot of 2

For connecting one single cable with a ring lug into 4 terminals in parallel.

For LC1D80004,  
LC1D80008,  
LC1D115004



Control circuit take-off  
from main pole  
**LA9D11567**

Lot of 10

To be inserted into a power screw clamp terminal, it provides a smaller terminal for a control circuit connected to the same voltage.

For LC1D115...  
D150



4P terminal blocks  
for 120 mm² cables  
**LA9D115604**

Lot of 2

For changing contactors with simple screw-type terminals into screw clamp terminals.

For LC1D1156...  
D1506



4P terminal blocks  
for ring lugs  
**LA9D115504**

Lot of 2

Hold the ring lugs in place when connected to a contactor with simple screw-type terminals.



1P terminal  
protective cover  
**LA9D115704**

Lot of 8

To be inserted on screw the type terminals (for lugs) of contactors. 1 cover per pole.

B

6

# Connection accessories

## Pole interconnection kits for a pair of contactors - Motor reverser

### For LC1D09... D38



Motor reverser / Load changeover electrical interlocking links  
**LAD9V1**

To be used with 2 contactors of same dimensions aligned on a single rail. Connect auxiliary contacts and coils circuits.



Motor reverser assembling kit (with mechanical interlock only)  
**LAD9R1**

To be used with 2 contactors.



Motor reverser assembling kit (with mechanical and electrical interlock)  
**LAD9R1V**

To be used with 2 contactors.

### For LC1D40A, 50A... 65A



Motor reverser assembling kit (with mechanical interlock only)  
**LAD9R3**

To be used with 2 contactors.

### For LC1D80... D95



Motor reverser cabling kit  
**LA9D8069**

To be used with 2 contactors.



Motor reverser mechanical interlocking kit  
**LA9D50978**

To be used with 2 AC coil contactors.



Motor reverser mechanical interlocking kit  
**LA9D80978**

To be used with 2 DC coil contactors.



Motor reverser mechanical and electrical interlocking kit  
**LA9D4002**

To be used with 2 AC coil contactors.



Motor reverser mechanical and electrical interlocking kit  
**LA9D8002**

To be used with 2 DC coil contactors.

### For LC1D115... D150



Motor reverser cabling kit  
**LA9D11569**

To be used with 2 contactors.



Motor reverser mechanical and electrical interlocking kit  
**LA9D11502**

To be used with 2 contactors.

# Connection accessories

## Pole interconnection kit for a pair of contactors - Motor reverser + 2 speed control

For LC1D09... D25



Motor reverser + 2 speed assembling kit (with mechanical and electrical interlock)

**LAD9PVG**

Provides the front faces alignment of a D09... D12. To be used with 3 contactors.

## Pole interconnection kits for 3 contactors - Star Delta starter

For LC1D09... D38  
**Line contactor**  
(all contactors of same dimensions)



Motor Star Delta starter assembling kit (without timer)  
Mechanical + electrical interlocks

**LAD91218**

To be used with 3 contactors of same dimensions aligned on a single rail.



Motor Star Delta starter assembling kit (with timer)  
Mechanical + electrical interlocks

**LAD91217**

To be used with 3 contactors of same dimensions aligned on a single rail.



Motor Star Delta starter assembling kit (with timer)  
Mechanical + electrical interlocks

**LAD912GV**

The starter is one block composed of GV2 circuit breaker + 1 contactor on the top row, and 2 contactors on the bottom row.



Motor Star Delta starter  
Electrical interlocking links

**LAD9V14**

To be used with 3 contactors of same dimensions aligned on a single rail. Connect auxiliary contacts and coils circuits.

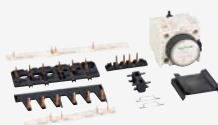
For LC1D25... D32  
**Line contactor**  
(smaller Star contactor (depth))



Motor Star Delta starter assembling kit (without timer)  
Mechanical + electrical interlocks

**LAD93218**

To be used with 3 contactors aligned on a single rail. A raiser adaptor is provided for the Star contactor, smaller than other contactors.



Motor Star Delta starter assembling kit (with timer)  
Mechanical + electrical interlocks

**LAD93217**

To be used with 3 contactors aligned on a single rail. A raiser adaptor is provided for the Star contactor, smaller than other contactors.

For LC1D40A... D65A  
**Line contactor**



Motor Star Delta starter assembling kit (with timer)  
Mechanical interlock

**LAD9SD3**

To be used with 3 contactors with EverLink terminals, aligned on a single rail.

For LC1D80  
**Line contactor**  
With LCD60 or D65 as Star contactor



Motor Star Delta starter assembling kit (with timer)  
Mechanical interlock

**LA9D8017**

To be used with 3 contactors aligned on a single rail. No interlock provided, additional electrical interlocking circuit must be wired by customer.

For LC1D80, D95  
**Line contactor**



Motor Star Delta starter assembling kit (with timer)  
Mechanical interlock

**LA9D8018**

To be used with 3 contactors aligned on a single rail. Additional electrical interlocking circuit must be wired by customer.

B

6

# Connection accessories

## Pole interconnection kits for 3 contactors - Star Delta starter (see allocation table page 30)

For LC1D115  
Line contactor



Motor Star Delta starter  
cabling kit  
**LA9D11517**

To be used with 3 contactors of same dimensions aligned on a single rail provided. Additional electrical interlocking circuit must be cabled by customer.

For LC1D150  
Line contactor



Motor Star Delta starter  
cabling kit  
**LA9D15017**

To be used with 3 contactors of same dimensions aligned on a single rail provided. Possible addition of LA9D11502 mechanical + electrical interlocking kit.

## Pole interconnection kits for a pair of 4-pole contactors - Load/Source changeover

For LC1DT20,  
DT25, DT32, DT40



Changeover assembling kit  
with mechanical interlock  
**LADT9R1**

To be used with 2 contactors of same dimensions aligned on a single rail provided. Additional electrical interlocking circuit must be wired by customer.

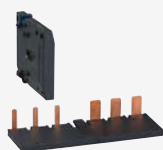


Changeover assembling kit  
with mechanical +  
electrical interlocks  
**LADT9R1V**

To be used with 2 contactors of same dimensions aligned on a single rail provided.

## Pole interconnection kits for a pair of 3-pole contactors - Load/source changeover

For LC1D40A,  
50A, 65A



Kit with mechanical interlock  
and 3P 65 A AC-3 power links  
**LA9DR3S**

Pole parallel connection  
(L1 connected to L1, L2 to L2...)

For LC1D80,  
LC1D95



3P changeover 95 A AC-3  
power link  
**LA9D80691**

Pole parallel connection  
(L1 connected to L1, L2 to L2...)

For LC1D115,  
LC1D150



3P changeover 150 A AC-3  
power link  
**LA9D11571**

Pole parallel connection  
(L1 connected to L1, L2 to L2...)

## 3-pole, 4-pole contactors - Electrical interlocking kit

For LC1DT20,  
DT25, DT32, DT40







Motor reverser / Load changeover  
electrical interlocking links  
**LAD9V1**

To be used with 2 contactors of same dimensions aligned on a single rail. Connect auxiliary contacts and coils circuits.



# Connection accessories

## 3 and 4-pole contactors - Mechanical assembly components

<b>LC1D09... D12</b>		Wedge for D09... D12 contactor <b>LAD9V16</b>	Allows front face alignment of a smaller contactor (LC1D09... D12) with a bigger contactor (LC1D25... D38).
<b>LC1D09... D38</b>		Mechanical interlock with staples <b>LAD9V2</b>	To be mounted between 2 contactors. Staples allow 2 contactors to be assembled in one block.
		Staple <b>LAD9V17</b>	For assembling 2 contactors in one block (reverser and other applications).
<b>LC1D40A... D65A</b> <b>LC1DT60A... DT80A</b>		Mechanical interlock <b>LAD4CM</b>	To be mounted between 2 contactors.

## Quick interlocking kit finder

	LC1D09	LC1D12	LC1D18	LC1D25	LC1D32	LC1D38	LC1D40A	LC1D50A	LC1D65A	LC1D80	LC1D95	LC1D115	LC1D150
LC1D09	Elec.: LAD9V1 Mecha.: LAD9V2			Elec.: LAD9V1 Mecha.: LAD9V2 + wedge LAD9V16									
LC1D12													
LC1D18													
LC1D25	Elec.: LAD9V1 Mecha.: LAD9V2 + wedge LAD9V16			Elec.: LAD9V1 Mecha.: LAD9V2									
LC1D32													
LC1D38													
LC1D40A							Meca.: LAD4CM						
LC1D50A													
LC1D65A													
LC1D80										Meca.: LA9D50978 (~) / LA9D80978 (DC) Electro-Meca.: LA9D4002 (~) / LAD8002 (DC)			
LC1D95													
LC1D115												Electro-Meca.: LA9D11502	
LC1D150													

B

6

# TeSys F



Very high power handling and long-lasting contactors, 3 or 4 poles, from 115 to 1 000 A AC-3, 200 to 2600 A AC-1

LC1F630  
630 A AC-3, 3 poles

Different size, according to rating and number of poles



500 A AC-1, 2 poles  
LC1F4002



225 A AC-3, 3 poles  
LC1F225



1 000 A AC-3, 3 poles  
LC1F1700



1 000 A AC-3, 3 poles  
LC1F2600



700 A AC-1, 4 poles  
LC1F5004



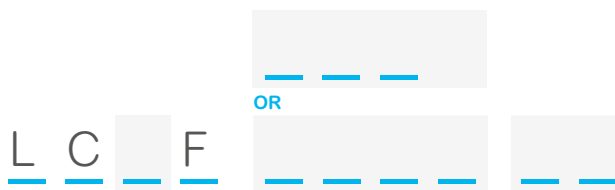
1 000 A AC-1, 4 poles  
LC1F6304



1 600 A AC-1, 4 poles  
LC1F7804

# Commercial reference coding

> 2, 3, 4 pole contactors for AC-3, AC-1 applications – screw-type terminals



## Contactor type

1	Single contactor
2	Reverser (2 contactor assembly)*
3	Star-Delta (3 contactor assembly)

\*Coil control voltage does not appear as coils must be ordered separately. See TeSys catalogue MKTED21001\_EN – chapter B9.

## Rating (A): depends on application

### With AC-1 applications

Valid values: ... means:

115	200 A - 3P
1154	200 A - 4P
150	250 A - 3P
1504	250 A - 4P
185	275 A - 3P
1854	275 A - 4P
225	315 A - 3P
2254	315 A - 4P
330	350 A - 3P
3304	350 A - 4P
400	500 A - 3P
4002	500 A - 2P
4004	500 A - 4P
500	700 A - 3P
5002	700 A - 2P
5004	700 A - 4P
630	1000 A - 3P
6302	1000 A - 2P
6304	1000 A - 4P
780	1600 A - 3P
7804	1600 A - 4P
(LCS1F)	1200 A - 3P
1200 (KUE)	
1250	1260 A - 3P
1400	1400 A - 3P
1700	1700 A - 3P
2100	2100 A - 3P
2600	2600 A - 3P

### With AC-3 applications

Valid values: ... means:

115	115 A - 3P
150	150 A - 3P
185	185 A - 3P
225	225 A - 3P
265	265 A - 3P
330	330 A - 3P
400	400 A - 3P
500	500 A - 3P
630	630 A - 3P
780	780 A - 3P
800	800 A - 3P
1000	1000 A - 3P

## Coil control voltage codes

(no code for reverser assembly product references)

Volts ~	24	48	110	115	120	208	220	230	240	380	400	415	440
<b>LC1F115...F225</b>													
50 Hz (coil LX1)	B5	E5	F5	FE5	-	-	M5	P5	U5	Q5	V5	N	-
60 Hz (coil LX1)	-	E6	F6	-	G6	L6	M6	-	U6	Q6	-	-	R6
40...400 Hz (coil LX9)	-	E7	F7	FE7	G7	L7	M7	P7	U7	Q7	V7	N7	R7
<b>LC1F265...F330</b>													
40...400 Hz (coil LX1)	B7	E7	F7	FE7	G7	L7	M7	P7	U7	Q7	wV7	N7	R7
<b>LC1F400...F630, F1250</b>													
40...400 Hz (coil LX1)	-	E7	F7	FE7	G7 <sup>(1)</sup>	L7	M7	P7	U7	Q7	V7	N7	R7
<b>LC1F780</b>													
40...400 Hz (coil LX1)	-	-	F7	FE7	F7	L7	M7	P7	U7	Q7	V7	N7	R7
<b>LC1F800</b>													
40...400 Hz (coil LX4) <sup>(2)</sup>	-	-	FW	FW	FW	-	MW	MW	MW	QW	QW	QW	-
<b>LC1F1000, F1400, F1700, F2100, F2600</b>													
40...400 Hz (coil LX1F)	-	-	F7	-	G7	-	M7	P7	U7	Q7	V7	N7	R7

Volts ---	24	48	110	115	220	230	250	400	440
<b>LC1F115...F330</b>									
(coil LX4 F)	BD	ED	FD	GD	MD	MD	UD	-	RD
<b>LC1F400...F330, F1250</b>									
(coil LX4 F)	-	ED	FD	GD	MD	-	UD	-	RD
<b>LC1F780, LC1F1000, F1400, F1700, F2100, F2600</b>									
(coil LX4 F)	-	-	FD	GD	MD	-	UD	-	RD
<b>LC1F800</b>									
(coil LX4 F)	-	-	FW	FW	MW	MW	-	QW	-

(1) F7 for **LC1F630**

(2) Coil LX4 F8\*\* + rectifier DR5TE\*\*.

## Exemples

**LC1F 115 M7**

Single contactor • 115 A AC-3 rated current • 220V AC coil • screw-type terminals

**LC1F 1250 MD**

Single contactor • 1260 A AC-1 rated current • 220V DC coil

**LC2F 265**

Reverser contactor assembly • 265 A AC-3 rated current (add 2 x LX1FH2202 coils for 230V AC control)

# Commercial references

TeSys F contactors offer great performance for large motor starting and resistive loads applications.

- screw-type terminals for lugs or bars
- AC, DC coils, low consumption electronic DC coils for direct control from PLC output.

Check for details, accessories, auxiliaries in TeSys catalogue ref. MKTED210011EN – chapter B9.

## 2, 3 and 4 NO pole TeSys F contactors



AC3 <sup>(1)</sup> rating (A) (up to 440 V)	AC1 rating (A) ( ≤1000 V)	2 poles	3 poles	4 poles
115	200		LC1F115**	LC1F1154**
150	200		LC1F150**	LC1F1504**
185	275		LC1F185**	LC1F1854**
225	315		LC1F225**	LC1F2254**
265	350		LC1F265**	LC1F2654**
330	400		LC1F330**	LC1F3304**
400	500	LC1F4002*	LC1F400**	LC1F4004**
500	700	LC1F5002**	LC1F500**	LC1F5004**
630	1000	LC1F6302**	LC1F630**	LC1F6304**
780	1600		LC1F780**	LC1F7804**
800	1000		LC1F800**	
1000	1250		LC1F1000**	
	1260		LC1F1250** <sup>(2)</sup>	
	1400		LC1F1400**	
	1700		LC1F1700**	
	2100		LC1F2100**	
	2600		LC1F2600**	

Coil voltage: replace 2 dots at end of commercial references by voltage code (P7 = 230 V 50-60 Hz; other codes, see page 61)

(1) AC3 rating is defined for 3P contactors only

(2) ≤ 690 V.



# Connection accessories

## Terminal adaptors

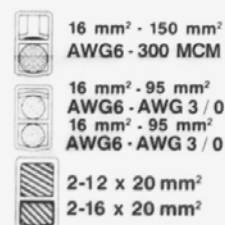
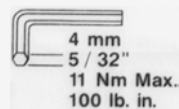
For contactors:  
LC1F115, 150, 185



Insulated terminal blocks Lot of 2  
**LA9F103**

Tightening: with hex key  
(through front round hole)

Acceptable conductors.



For contactors:  
LC1F115  
LC1F150, 185  
LC1F225, 265,  
330, 400, 500  
LC1F630, 800



Power terminal protection Lot of 6  
shrouds  
**LA9F701**  
**LA9F702**  
**LA9F703**  
**LA9F704**

Prevent from contact with live terminals.

LA9F701	> LC1F115
LA9F702	> LC1F150, 185
LA9F703	> LC1F225...500
LA9F704	> LC1F630, 800



Control circuit take-off Lot of 10  
**DZ3FA3**  
**DZ3GA3**  
**DZ3HA3**  
**DZ3JA3**

Ring to be placed under the head of terminal screw.

DZ3FA3: for M6 bolt	> LC1F115
DZ3GA3: for M8 bolt	> LC1F150, 185
DZ3HA3: for M10 bolt	> LC1F225...500
DZ3JA3: for M12 bolt	> LC1F630, 800

For contactors:  
LC1F 1400 to 2600



Phase separators Lot of 4  
**LA9F801**

Reinforce insulation between terminals.

B

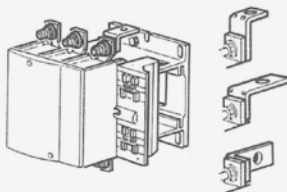
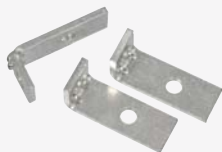
7

# Connection accessories

## Terminal adaptors

For contactors:

LC1F115  
LC1F150, 185  
LC1F225, 265,  
330, 400  
LC1F500  
LC1F630, 800

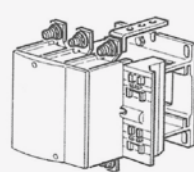


Right angle, 2 holes  
connection adaptor  
(set of 3)

LA9FF981  
LA9FG981  
LA9FJ981  
LA9FK981  
LA9FL981

For use when cables  
come from rear of  
contactor terminals

15 mm width  
20 mm width  
25 mm width  
30 mm width  
40 mm width

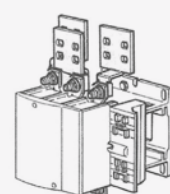


Large surface 4 holes  
connection adaptor  
(set of 3)

LA9FF979  
LA9FG979  
LA9FJ979  
LA9FK979  
LA9FL979

For use when cables  
come from side of  
contactor terminals

15 mm width  
20 mm width  
25 mm width  
30 mm width  
40 mm width



Large surface 5 holes  
connection adaptor  
(set of 3)

LA9FF980  
LA9FG980  
LA9FJ980  
LA9FK980  
LA9FL980

For use when cables  
come from top of  
contactor terminals

15 mm width  
20 mm width  
25 mm width  
30 mm width  
40 mm width



Set of  
connection  
links  
(set of 3)

LA7F401  
LA7F402  
LA7F407  
LA7F403  
LA7F404  
LA7F405  
LA7F406

For connection of a  
LC1F contactor to LR9F overload  
thermal relay **LA7F... compatibility**

401: LC1F115  
with LR9F5.57, 63, 67, 69, F69, F71  
402: LC1F150, 185  
with LR9F5.57, 63  
407: LC1F185  
with LR9F5.71, LR9F71  
403: LC1F225, 265  
with LR9F5.71, LR9F71  
404: LC1F225...400  
with LR9F7.75, 79, LR9F75, F79  
404: LC1F400  
with LR9F7.81, LR9F81  
405: LC1F500  
with LR9F7.75, 79, 81, LR9F75, 79, 81  
406: LC1F630, 800  
with LR9F7.81, LR9F81

For contactors:

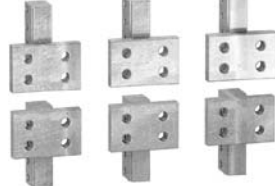
LC1F1250  
LC1F1000, 1400,  
1700, 2100, 2600



LA9F1250  
(6 pieces)



LA9F2100  
(6 pieces)



LA9F2600

Right-angled,  
connection adaptor  
(set of 6)

LA9F1250  
LA9F2100  
LA9F2600

LA9F1250 - 60 mm width for  
LC1F1250

LA9F2100 - 60 mm width for  
LC1F1000, 1400,  
1700, 2100

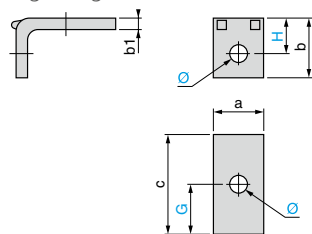
LA9F2600 - 100 mm width for  
LC1F2600

## Connection accessories

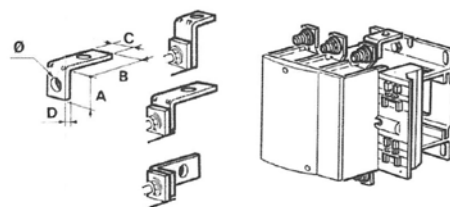
## Dimensions

## 1 hole connector

Right-angled connectors LA9 F•981 (set of 3) for rear connection

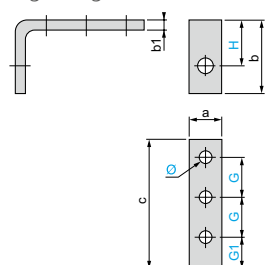


LA9	FF981	FG981	FJ981	FK981	FL981
a	15	20	25	30	40
b	18	23	29	35	48
b1	3	3	4	5	8
c	42	45	55	52	86
G	24	26	32.5	26	45
H	10.5	13	16.5	20	28
Ø	6.5	9	11	11	13

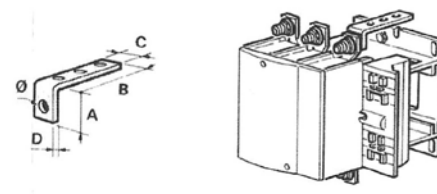


### 3 hole connector

Right-angled connectors LA9 F•979 (set of 3) for side connection

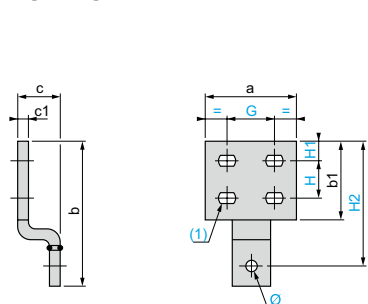


LA9	FF979	FG979	FJ979	FK979	FL979
a	15	20	25	30	40
b	54	58	63.5	68	117
b1	5	5	6	6	10
c	80	92	120	120	130
G	24	28	37	37	37.5
G1	20	22	29	29	35
H	36	39	41	42	76
Ø	6.5	9	11	11	13

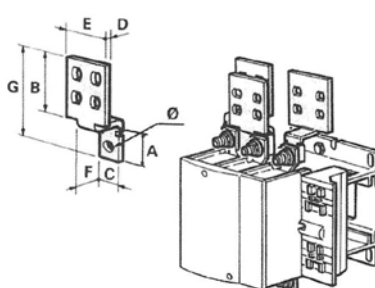


## Large surface area connector

Right-angled connectors LA9 • 980 with large surface area (set of 3)

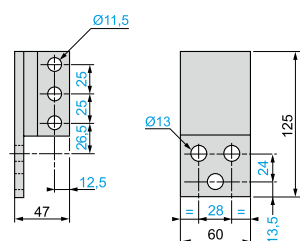


LA9	FF980	FG980	FJ980	FK980	FL980
a	35	40	50	60	100
b	70.5	82.5	98.5	114	154
b1	40	45	55	65	85
c	29	29	33	33	43
c1	3	3	5	5	10
G	18	20	25	29	53
H	18	20	22	26	40
H1	10	12	14	17	20
H2	60.5	72.5	84.5	97	132
Ø	6.5	9	11	11	13
(1)	Ø7 × 10	Ø9 × 12	Ø11 × 14	Ø12.5 × 15	Ø12.5 × 15

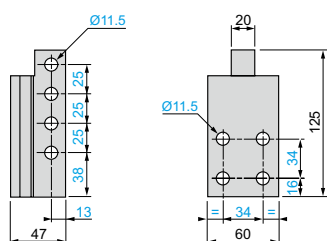


## Right-angled connectors

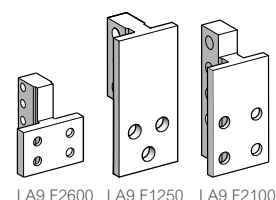
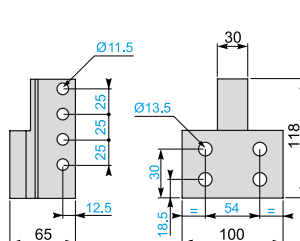
Right-angled connectors  
LA9 F1250 (set of 6)



Right-angled connectors LA9 F2100  
(set of 6) for rear connection



Right-angled connectors LA9 F2600  
(set of 6) for rear connection



### Connectors for mounting a thermal overload relay beneath a reversing contactor or star-delta contactors

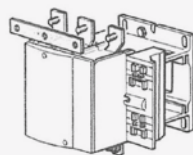
	LA7F401	LA7F402	LA7F403	LA7F404	LA7F405	LA7F406		LA7F407	
Number of parts	3x	3x	3x	3x	3x	2x	1x	2x	1x
Longitudinal center to center distance	38.5	36	49.5	48	44	55.9	55.9	25	25
Transversal center to center distance						25		8	
Overall length	48.5	56	77.5	76	74	93.9	93.9	47	46.5
Overall width						60		30.5	
Thickness	3	3	4	4	6	6	6	3	3



# Connection accessories

## Pole interconnections links for 3P contactors

For contactors:  
LC1F115... 800

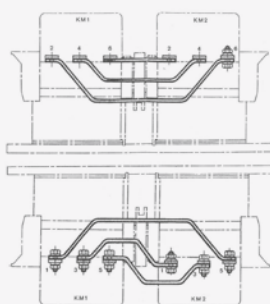


Short circuit link

LA9FF601  
LA9FG601  
LA9FH601  
LA9FK601  
LA9FL601

For use in Star-Delta application  
(1 needed)

15 mm width for LC1F115  
20 mm width for LC1F150, 185  
25 mm width for LC1F 225...400  
30 mm width for LC1F500  
40 mm width for LC1F630, 800

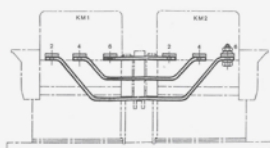


Parallel + reversing  
link kit

LA9FF976  
LA9F15076  
LA9FG976  
LA9F22576  
LA9FH976  
LA9FJ976  
LA9FK976  
LA9FL976

For use in motor reverser starter  
application

for > LC1F115  
> LC1F150  
> LC1F185  
> LC1F225  
> LC1F265  
> LC1F330, 400  
> LC1F500  
> LC1F630, 800



Reversing links

LA9FF982  
LA9F15082  
LA9FG982  
LA9F22582  
LA9FH982  
LA9FJ982  
LA9FK982  
LA9FL982

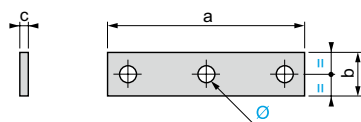
For use in motor reverser starter  
application

for > LC1F115  
> LC1F150  
> LC1F185  
> LC1F225  
> LC1F265  
> LC1F330, 400  
> LC1F500  
> LC1F630, 800

## Dimensions

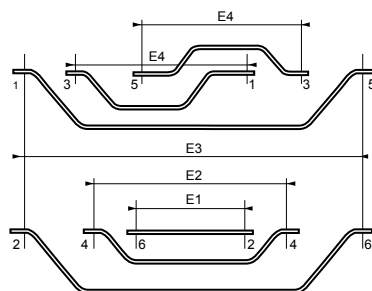
### Short circuit link

Links for "star" connection of 3 poles - **LA9 F•601**



LA9	FF601	FG601	FH601	FK601	FL601
a	69	100	121	140	200
b	15	20	20	30	40
c	3	3	5	5	8
Ø	6.5 x 8.5	8.5 x 10.5	10.5 x 13	11	13

### Parallel / reversing bars



	LA9FF976	LA9F15076	LA9FG976	LA9F22576	LA9FH976	LA9FJ976	LA9FK976	LA9FL976
Bars' thickness (mm)	3	3	3	4	4	5	6	8
E1	77	71	78	62	100	107	112	137
E2	151	151	158	158	196	203	222	297
E3	225	231	238	254	292	299	332	457
E4	114	111	118	110	148	155	167	217
Overall height	3	3	3	4	4	5	6	8
4-4	44	44	44	49	50.5	48	49	57
2-6	61	61	61	69	70	67	70	78.5
5-3	33	33	38	39	39	42	45	56
3-1	33	33	38	39	39	42	45	56
1-5	61	61	61	69	70	67	70	78.5

# Connection accessories

## Terminal adaptors for 3P contactors

For contactors:  
LC1F4002, 5002,  
6302

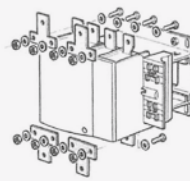


Power terminal protection  
shrouds (Set of 6)  
**LA9F703**  
**LA9F704**

Prevent from contact with lives terminals  
LA9F703 > for LC1F4002, 5002  
LA9F704 > for LC1F6302

## Interconnection pole links for 4P contactors

For contactors:  
LC1F1154... 6304



Parallel pole link  
(set of 4)

**LA9FF602**  
**LA9FG602**  
**LA9FH602**  
**LA9FK602**  
**LA9FL602**

For connecting a pair of poles  
in parallel on a single contactor

for > LC1F1154  
> LC1F1504, 1854  
> LC1F2254, 2654, 3304, 4004  
> LC1F5004  
> LC1F6304



Parallel links  
(set of 4)

**LA9FF976**  
**LA9F15076**  
**LA9FG976**  
**LA9F22576**  
**LA9FH976**  
**LA9FJ976**  
**LA9FK976**  
**LA9FL976**

For use in changeover app.  
(4P contactors -downstream  
parallel connection of poles)

for > LC1F1154  
> LC1F1504  
> LC1F1854  
> LC1F2254  
> LC1F2654  
> LC1F3304, 4004  
> LC1F5004  
> LC1F6304



Power terminal protection  
shroud (set of 8)

**LA9F706**  
**LA9F707**  
**LA9F708**  
**LA9F709**

For use in motor reverser  
starter application

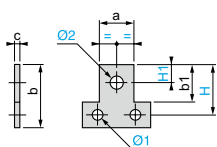
for > LC1F1154  
> LC1F1504, 1854  
> LC1F2254, 2654,  
3304, 4004, 5004  
> LC1F6304

## Dimensions

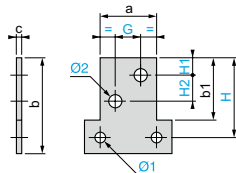
### Parallel connection of poles

Paralleling links (lot of 4)

**LA9 FF602, FG602,  
FH602**

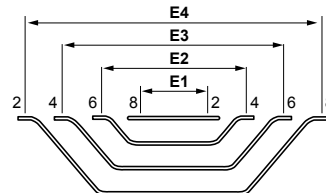


**LA9 FK602, FL602**



LA9	FF602	FG602	FH602	FK602	FL602
a	25	30	40	50	60
b	45	55	60	85	100
b1	30	35	40	55	65
c	4	5	8	10	10
G	—	—	—	22	26
H	37.5	45	52.5	70	85
H1	12.5	15	15	14	17
H2	—	—	—	22	26
Ø1	6.5	9	11	11	13
Ø2	11	11	13	11	14

### Parallel links



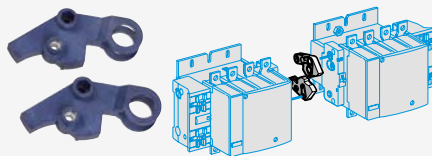
	LA9FF977	LA9F15077	LA9FG977	LA9F22577	LA9FH977	LA9FJ977	LA9FK977	LA9FL977
Bars' thickness (mm)	3	3	3	4	4	5	6	8
Width								
E1	77	71	78	54	100	107	112	137
E2	151	151	158	150	196	203	222	297
E3	225	231	238	246	292	299	332	457
E4	299	311	318	342	388	395	442	617
Overall height								
4-8	3	3	3	4	4	5	6	8
3-7	44	44	44	49	50.5	48	49	57
2-6	61	61	61	69	70	67	70	78.5
1-5	78	78	78	89	91	87	91	105



# Mechanical interlocking accessories

## Mechanical interlocks for a pair of 3-4P contactors - horizontally mounted

For contactors:  
LC1F115 ... LC1F800



Set of 2 mechanical  
horizontal interlocks.

**LA9FF970**

**LA9FG970**

**LA9FJ970**

**LA9FL970**

Fixing screws enclosed.  
Top to tail mounting  
See contactors allocation  
table below.

## Quick interlocking finder

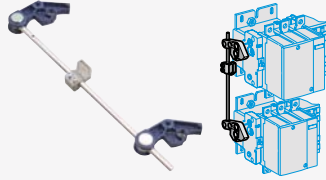
	LC1F115 LC1F1154	LC1F150 LC1F1504	LC1F185 LC1F1854	LC1F225 LC1F2254	LC1F265 LC1F2654	LC1F330 LC1F3304	LC1F400 LC1F4004	LC1F500 LC1F5004	LC1F630 LC1F6304	LC1F780 LC1F7804	LC1F800
LC1F115 LC1F1154	<b>LA9FF970</b>	<b>LA9FF970</b>	-	-	-	-	-	-	-	-	-
LC1F150 LC1F1504	<b>LA9FF970</b>	<b>LA9FF970</b>	-	-	-	-	-	-	-	-	-
LC1F185 LC1F1854	-	-	<b>LA9FG970</b>	<b>LA9FG970</b>	-	-	-	-	-	-	-
LC1F225 LC1F2254	-	-	<b>LA9FG970</b>	<b>LA9FG970</b>	-	-	-	-	-	-	-
LC1F265 LC1F2654	-	-	-	-	<b>LA9FJ970</b>	<b>LA9FJ970</b>	-	-	-	-	-
LC1F330 LC1F3304	-	-	-	-	<b>LA9FJ970</b>	<b>LA9FJ970</b>	-	-	-	-	-
LC1F400 LC1F4004	-	-	-	-	-	-	<b>LA9FJ970</b>	-	-	-	-
LC1F500 LC1F5004	-	-	-	-	-	-	-	<b>LA9FJ970</b>	-	-	-
LC1F630 LC1F6304	-	-	-	-	-	-	-	-	<b>LA9FL970</b>	-	<b>LA9FL970</b>
LC1F780 LC1F7804	-	-	-	-	-	-	-	-	-	-	-
LC1F800	-	-	-	-	-	-	-	-	<b>LA9FL970</b>	-	<b>LA9FL970</b>

# Mechanical interlocking accessories

## Mechanical interlocks for a pair of 3-4P contactors - vertically mounted (biggest on top)

### For contactors:

LC1F115 to  
LC1F2254  
with  
LC1F115 to  
LC1F2254



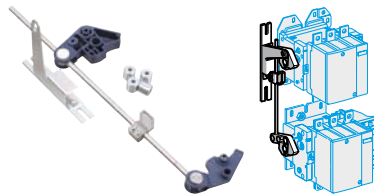
Mechanical horizontal  
interlocks.

LA9FF4F  
LA9FG4F  
LA9FG4G

Fixing screws enclosed.  
Top to tail mounting  
See contactors allocation  
table below.

### For contactors:

LC1F115 to  
LC1F2254  
with  
LC1F265 to  
LC1F630  
or with LC1F800



LA9FH4F  
LA9FH4G  
LA9FJ4F  
LA9FJ4G  
LA9FK4F  
LA9FK4G  
LA9FL4F  
LA9FL4G

1 square angled mechanical  
mounting included, for  
contactor with rating from  
265 to 800, except 780.

### For contactors:

LC1F265 to  
LC1F630  
With LC1F265 to  
LC1F630 or  
with LC1F800

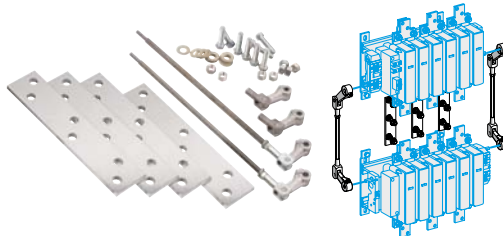


LA9FH4H  
LA9FJ4H  
LA9FJ4J  
LA9FK4H  
LA9FK4J  
LA9FK4K  
LA9FL4H  
LA9FL4J  
LA9FL4K  
LA9FL4L

2 square angled mechanical  
mountings included.

### For contactors:

LC1F780, 7804  
with  
LC1F780, 7804



LA9FX970

## Quick interlocking finder

	LC1F115 LC1F1154	LC1F150 LC1F1504	LC1F185 LC1F1854	LC1F225 LC1F2254	LC1F265 LC1F2654	LC1F330 LC1F3304	LC1F400 LC1F4004	LC1F500 LC1F5004	LC1F630 LC1F630	LC1F780 LC1F7804	LC1F800
LC1F115 LC1F1154	LA9FF4F	LA9FF4F	LA9FG4F*	LA9FG4F*	LA9FH4F*	LA9FH4F*	LA9FJ4F*	LA9FK4F*	LA9FL4F*	-	LA9FL4F*
LC1F150 LC1F1504	LA9FF4F	LA9FF4F	LA9FG4F*	LA9FG4F*	LA9FH4F*	LA9FH4F*	LA9FJ4F*	LA9FK4F*	LA9FL4F*	-	LA9FL4F*
LC1F185 LC1F1854	LA9FG4F*	LA9FG4F*	LA9FG4G	LA9FG4G	LA9FH4G*	LA9FH4G*	LA9FJ4G*	LA9FK4G*	LA9FL4G*	-	LA9FL4G*
LC1F225 LC1F2254	LA9FG4F*	LA9FG4F*	LA9FG4G	LA9FG4G	LA9FH4G*	LA9FH4G*	LA9FJ4G*	LA9FK4G*	LA9FL4G*	-	LA9FL4G*
LC1F265 LC1F2654	LA9FH4F*	LA9FH4F*	LA9FH4G*	LA9FH4G*	LA9FH4H	LA9FH4H	LA9FJ4H*	LA9FK4H*	LA9FL4H*	-	LA9FL4H*
LC1F330 LC1F3304	LA9FH4F*	LA9FH4F*	LA9FH4G*	LA9FH4G*	LA9FH4H	LA9FH4H	LA9FJ4H*	LA9FK4H*	LA9FL4H*	-	LA9FL4H*
LC1F400 LC1F4004	LA9FJ4F*	LA9FJ4F*	LA9FJ4G*	LA9FJ4G*	LA9FJ4H*	LA9FJ4H*	LA9FJ4J	LA9FK4J	LA9FL4J*	-	LA9FL4J*
LC1F500 LC1F5004	LA9FK4F*	LA9FK4F*	LA9FK4G*	LA9FK4G*	LA9FK4H*	LA9FK4H*	LA9FK4J*	LA9FK4K	LA9FL4K*	-	LA9FL4K*
LC1F630 LC1F630	LA9FL4F*	LA9FL4F*	LA9FL4G*	LA9FL4G*	LA9FL4H*	LA9FL4H*	LA9FL4J*	LA9FL4K*	LA9FL4L	-	LA9FL4L
LC1F780 LC1F7804	-	-	-	-	-	-	-	-	-	LA9FX970 (3P) LA9FX971 (4P)	-
LC1F800	LA9FL4F*	LA9FL4F*	LA9FL4G*	LA9FL4G*	LA9FL4H*	LA9FL4H*	LA9FL4J*	LA9FL4K*	LA9FL4L	-	LA9FL4L

\* Biggest on top.

# Mechanical interlocking accessories

## Mechanical interlocks for 3 x 3-4P contactors - vertically mounted (biggest on top)

For contactors:  
LC1F415 to  
LC1F5005  
with LC1F115 to  
LC1F5004 and  
with LC1F115 to  
LC1F5004



Vertical interlocking kit  
for 3 contactors

**LA9FF4F4F to  
LA9FK4K4K**

See reference coding  
principle below.

1 square angled mechanical  
mounting included per driven  
contactor LC1F265 to 5004.

For contactors:  
LC1F630 to  
LC1F8004  
with LC1F630 to  
LC1F8004  
and with LC1F630  
to LC1F8004



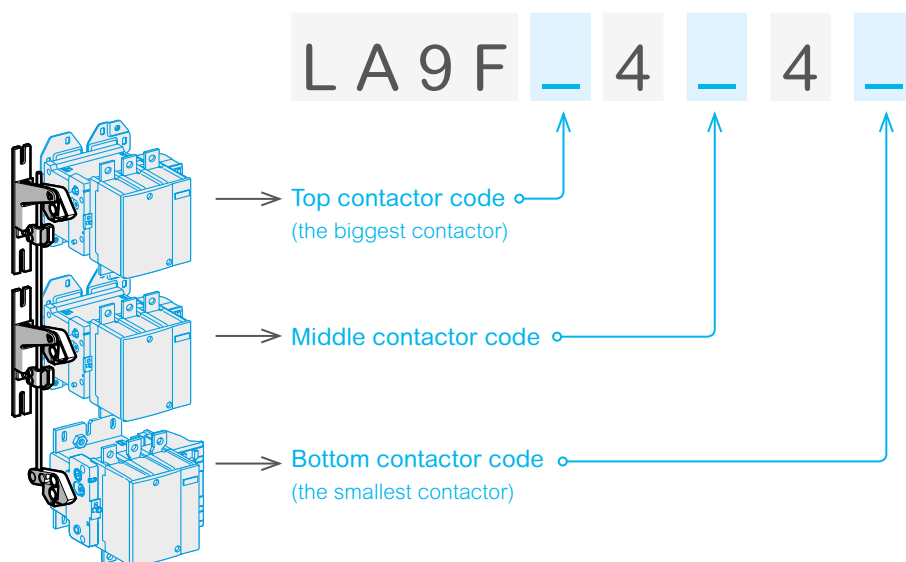
Vertical interlocking kit  
for 3 contactors

**LA9FL4F4F to  
LA9FL4L4L**

See reference coding  
principle below.

1 square angled mechanical  
mounting included per driven  
contactor LC1F265 to 8004.

## Interlocking kit: reference coding principle



Code	Contactors
<b>F</b>	LC1F115 - LC1F1154 LC1F150 - LC1F1504
<b>G</b>	LC1F185 - LC1F1854 LC1F225 - LC1F2254
<b>H</b>	LC1F265 - LC1F2654 LC1F330 - LC1F3304
<b>J</b>	LC1F400 - LC1F4004
<b>K</b>	LC1F500 - LC1F5004
<b>L</b>	LC1F630 - LC1F6304 LC1F800 - LC1F8004

### Example

Top:	LC1F630	} Corresponding kit: <b>LA9FL4H4F</b>
Middle:	LC1F330	
Bottom:	LC1F115	

# Products reference index

Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages
<b>D</b>		LA9D80962	50	LA9FG610	31	LA9FL600	31	LADT9R1	36, 55
DZ3FA3	61	LA9D80963	52	LA9FG970	18, 31, 39, 66	LA9FL601	64	LADT9R1V	36, 55
DZ3GA3	61	LA9D80973	29	LA9FG976	18, 64, 65	LA9FL602	65	<b>LC1</b>	
DZ3HA3	61	LA9D80978	12, 53	LA9FG977	39	LA9FL970	18, 39, 66	LC1D09	27, 28
DZ3JA3	61	LA9D115503	49	LA9FG979	62	LA9FL976	18, 64, 65	LC1D09..	12, 21, 48
<b>G</b>		LA9D115504	52	LA9FG980	62	LA9FL977	39	LC1D12	27, 28
GV7AC03	49	LA9D115603	49	LA9FG981	62	LA9FL979	62	LC1D12..	12, 21, 48
<b>LA7</b>		LA9D115604	52	LA9FG982	39, 64	LA9FL980	62	LC1D18	27, 28
LA7F401	62	LA9D115703	49	LA9FH4F	67	LA9FL981	62	LC1D18..	12, 21, 48
LA7F402	62	LA9D115704	52	LA9FH4G	67	LA9FL982	39, 64	LC1D25	28
LA7F403	62	LA9DR3S	55	LA9FH4H	67	LA9FX970	67	LC1D25..	12, 21, 48
LA7F404	62	LA9E1	45	LA9FH600	31	LA9K105I	45	LC1D32	27, 28
LA7F405	62	LA9E2	45	LA9FH601	64	LA9K105S	45	LC1D32..	12, 48
LA7F406	62	LA9F103	61	LA9FH602	65	LA9K0969	45	LC1D38	28
LA7F407	62	LA9F701	61	LA9FH610	31	<b>LAD</b>		LC1D38..	12, 48
<b>LA9</b>		LA9F702	61	LA9FH976	18, 64, 65	LAD4BB3	49	LC1D40A	28
LA9D65A6	29, 51	LA9F703	61, 65	LA9FH977	39	LAD4CM	14, 16, 29, 36, 37, 56	LC1D40A..	12, 38, 48
LA9D65A9	29, 51	LA9F704	61, 65	LA9FH982	39, 64	LAD9P3	29, 50	LC1D40A3..	16, 48
LA9D1260	52	LA9F706	65	LA9FJ4F	67	LAD9P32	50	LC1D40A6..	14, 48
LA9D1261	49, 52	LA9F707	65	LA9FJ4G	67	LAD9P33	50	LC1D50	27
LA9D1262	50	LA9F708	65	LA9FJ4H	67	LAD9PVG	21, 54	LC1D50A	28
LA9D1263	52	LA9F709	65	LA9FJ4J	67	LAD9R1	12, 53	LC1D50A..	12, 38, 48
LA9D2560	52	LA9F801	61	LA9FJ600	31	LAD9R1V	12, 53	LC1D50A3..	16, 48
LA9D2561	52	LA9F1250	62	LA9FJ610	31	LAD9R3	12, 53	LC1D50A6..	14, 48
LA9D2563	52	LA9F2100	62	LA9FJ970	18, 31, 39, 66	LAD9R3S	38	LC1D65A	28
LA9D3260	49	LA9F2600	62	LA9FJ976	18, 64, 65	LAD9SD3	28, 29, 54	LC1D65A..	12, 38, 48
LA9D4002	12, 14, 36, 37, 38, 53	LA9F15000	31	LA9FJ977	39	LAD9SD3S	29, 50	LC1D65A3..	16, 48
LA9D5017	29	LA9F15076	18, 64, 65	LA9FJ979	62	LAD9V1	29, 53, 55	LC1D65A6..	14, 48
LA9D5018	29	LA9F15077	39	LA9FJ980	62	LAD9V2	14, 16, 17, 29, 56	LC1D80	27, 28, 31
LA9D8002	12, 36, 37, 38, 53	LA9F15082	39, 64	LA9FJ981	62	LAD9V5	29, 51	LC1D80..	12, 38, 48
LA9D8017	28, 29, 54	LA9F18517	31	LA9FJ982	39, 64	LAD9V6	29, 51	LC1D093..	16, 48
LA9D8018	28, 29, 54	LA9F22500	31	LA9FK4F	67	LAD9V10	16, 51	LC1D95	28
LA9D8067	49, 52	LA9F22510	31	LA9FK4G	67	LAD9V11	16, 51	LC1D95..	12, 38, 48
LA9D8069	12, 29, 53	LA9F22576	18, 64, 65	LA9FK4H	67	LAD9V12	16, 51	LC1D096..	14, 48
LA9D8070	36	LA9F22577	39	LA9FK4J	67	LAD9V13	16, 51	LC1D098..	21, 48
LA9D11502	12, 14, 28, 29, 36, 37, 38, 53	LA9F22582	39, 64	LA9FK4K	67	LAD9V14	54	LC1D099..	48
LA9D11517	28, 29, 55	LA9FF4F	67	LA9FK4K4K	68	LAD9V16	29, 56	LC1D115	27, 28
LA9D11567	49, 52	LA9FF4F4F	68	LA9FK600	31	LAD9V17	29, 56	LC1D115..	12, 38, 48
LA9D11569	12, 53	LA9FF600	31	LA9FK601	64	LAD9VP1	14	LC1D123..	16, 48
LA9D11570	36	LA9FF601	64	LA9FK602	65	LAD9VP2	14	LC1D126..	14, 48
LA9D11571	38, 55	LA9FF602	65	LA9FK976	18, 64, 65	LAD9VP3	14	LC1D128..	21, 48
LA9D12974	29	LA9FF610	31	LA9FK977	39	LAD9VP4	14	LC1D129..	48
LA9D15017	28, 29, 55	LA9FF970	18, 31, 39, 66	LA9FK979	62	LAD912GV	28, 54	LC1D150	27, 28
LA9D32974	29	LA9FF976	18, 64, 65	LA9FK980	62	LAD8002	14	LC1D150..	12, 38, 48
LA9D40961	50, 52	LA9FF977	39	LA9FK981	62	LAD91217	28, 29, 54	LC1D183..	16, 48
LA9D40963	52	LA9FF979	62	LA9FK982	39, 64	LAD91218	28, 29, 54	LC1D186..	14, 48
LA9D40973	29	LA9FF980	62	LA9FL4F	67	LAD93217	28, 29, 54	LC1D188..	21, 48
LA9D50978	12, 29, 53	LA9FF981	62	LA9FL4F4F	68	LAD93218	28, 29, 54	LC1D253..	16, 48
LA9D80691	38, 55	LA9FF982	39, 64	LA9FL4G	67	LAD96560	49	LC1D256..	14, 48
LA9D80961	50, 52	LA9FG4F	67	LA9FL4H	67	LAD96570	49	LC1D258..	21, 48
		LA9FG4G	67	LA9FL4J	67	LAD96580	52	LC1D323..	16, 48
		LA9FG600	31	LA9FL4K	67	LADS2	29	LC1D326..	14, 48
		LA9FG601	64	LA9FL4L	67	LADT3R1	37	LC1D383	48
		LA9FG602	65	LA9FL4L4L	68			LC1D386..	14, 48

# Products reference index

Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages
LC1D806••	14, 48	LC1F330	18, 30, 31, 39	LC1K06105••	44	LC2D115••	11	LC2K09103B7 or P7	9
LC1D956••	14, 48	LC1F330••	60	LC1K06106••	44	LC2D123••	15	LC2K09105••	10
LC1D0983••	48	LC1F400	18, 30, 31, 39	LC1K06107••	44	LC2D126••	13	LC2K09107••	10
LC1D0986••	48	LC1F400••	60	LC1K09004••	44	LC2D129••	17	LC2K12004••	35
LC1D1156••	14, 48	LC1F500	18, 31, 39	LC1K09008••	44	LC2D150••	11	LC2K12013B7 or P7	9
LC1D1283••	48	LC1F500••	60	LC1K09013••	44	LC2D183••	15	LC2K12017••	10
LC1D1286••	48	LC1F630	18, 31, 39	LC1K09015••	44	LC2D186••	13	LC2K12103B7 or P7	9
LC1D1506••	14, 48	LC1F630••	60	LC1K09016••	44	LC2D253••	15	LC2K12107••	10
LC1D1883••	48	LC1F780••	60	LC1K09017••	44	LC2D256••	13		
LC1D1886••	48	LC1F800	18, 39	LC1K09103••	44	LC2D323••	15		
LC1D2583••	48	LC1F800••	60	LC1K09105••	44	LC2D326••	13		
LC1D2586••	48	LC1F1000••	60	LC1K09106••	44	LC2D386••	13		
LC1D40008••	48	LC1F1154	39	LC1K09107••	44	LC2D1156••	13		
LC1D65008••	48	LC1F1154••	60	LC1K12004••	44	LC2D1506••	13		
LC1D80004••	36, 48	LC1F1204	39	LC1K12013••	44	LC2D80004••	36		
LC1D80008••	48	LC1F1250••	60	LC1K12015••	44	LC2D115004••	36		
LC1D115004••	36, 48	LC1F1400••	60	LC1K12016••	44	LC2DT20••	36		
LC1D400086••	48	LC1F1504••	60	LC1K12017••	44	LC2DT25••	36		
LC1D650086••	48	LC1F1700••	60	LC1K12103••	44	LC2DT32••	36		
LC1D800046••	37, 48	LC1F1854	39	LC1K12105••	44	LC2DT40••	36		
LC1D800086••	48	LC1F1854••	60	LC1K12106••	44	LC2DT203••	37		
LC1D1150046••	37, 48	LC1F2100••	60	LC1K12107••	44	LC2DT206••	37		
LC1DT20••	36, 48	LC1F2254	39	LC1K16015••	44	LC2DT256••	37		
LC1DT25••	36, 48	LC1F2254••	60	LC1K16016••	44	LC2DT326••	37		
LC1DT32••	36, 48	LC1F2654	39	LC1K16017••	44	LC2DT406••	37		
LC1DT40••	36, 48	LC1F2654••	60	LC1K16105••	44	LC2F115	18		
LC1DT60A••	36, 48	LC1F3304	39	LC1K16106••	44	LC2F150	18		
LC1DT60A3••	37, 48	LC1F3304••	60	LC1K16107••	44	LC2F185	18		
LC1DT60A6••	37, 48	LC1F4002•	60	LC1K090043••	44	LC2F225	18		
LC1DT80A••	36, 48	LC1F4004	39	LC1K090045••	44	LC2F265	18		
LC1DT80A3••	37, 48	LC1F4004••	60	LC1K090047••	44	LC2F1154	39		
LC1DT80A6••	37, 48	LC1F5002••	60	LC1K090083••	44	LC2F1504	39		
LC1DT203••	37, 48	LC1F5004	39	LC1K090085••	44	LC2F1854	39		
LC1DT206••	37, 48	LC1F5004••	60	LC1K090087••	44	LC2F2254	39		
LC1DT253••	37, 48	LC1F6302••	60	LC1K120045••	44	LC2F2654	39		
LC1DT256••	37, 48	LC1F6304	39	LC1K120047••	44	LC2K0601••	9		
LC1DT323••	37, 48	LC1F6304••	60			LC2K0610••	9		
LC1DT326••	37, 48	LC1F7804••	60			LC2K0901••	9		
LC1DT403••	37, 48	LC1F12600••	60			LC2K0910••	9		
LC1DT406••	37, 48	LC1K06••	26			LC2K1201••	9		
LC1F80	30	LC1K09••	26			LC2K1210••	9		
LC1F115	18, 30, 31, 39	LC1K0601••	44			LC2K1601••	9		
LC1F115••	60	LC1K0610	44			LC2K1610••	9		
LC1F150	18, 30, 31, 39	LC1K0901••	44			LC2K06013B7 or P7	9		
LC1F150••	60	LC1K0910••	44			LC2K06015••	10		
LC1F185	18, 30, 31, 39	LC1K1201••	44			LC2K06017••	10		
LC1F185••	60	LC1K1210••	44			LC2K06103B7 or P7	9		
LC1F225	18, 30, 31, 39	LC1K1601••	44			LC2K06105••	10		
LC1F225••	60	LC1K1610••	44			LC2K06107••	10		
LC1F265	18, 30, 31, 39	LC1K06013••	44			LC2K09004••	35		
LC1F265••	60	LC1K06015••	44			LC2K09013B7 or P7	9		
		LC1K06016••	44			LC2K09015••	10		
		LC1K06017••	44			LC2K09017••	10		
		LC1K06103••	44						

## LC3

LC3D09A••	27
LC3D12A••	27
LC3D18A••	27
LC3D32A••	27
LC3D80••	27
LC3D80••A64	27
LC3D090A••	27
LC3D115••	27
LC3D115••A64	27
LC3D120A••	27
LC3D150••	27
LC3D150••A64	27
LC3D180A••	27
LC3D320A••	27
LC3F115••	30
LC3F150••	30
LC3F185••	30
LC3F185••A64	30
LC3F225••	30
LC3F225••A64	30
LC3F265••	30
LC3F265••A64	30
LC3F330••	30
LC3F330••A64	30
LC3F400••	30
LC3F400••A64	30
LC3K06••	26
LC3K09••	26

## LC7

LC7K0601••	44
LC7K0610••	44
LC7K0901••	44
LC7K0910••	44
LC7K1201••	44
LC7K1210••	44
LC7K06015••	44
LC7K06017••	44
LC7K06105••	44
LC7K06107••	44
LC7K09004••	44
LC7K09008••	44
LC7K09015••	44
LC7K09017••	44



# Products reference index

Cat. no.	Pages	Cat. no.	Pages	Cat. no.	Pages
LC7K09105**	44	LP1K12016**	44	LP4K09015**	44
LC7K09107**	44	LP1K12017**	44	LP4K09017**	44
LC7K12004**	44	LP1K12103**	44	LP4K09103**	44
LC7K12015**	44	LP1K12105**	44	LP4K09105**	44
LC7K12017**	44	LP1K12106**	44	LP4K09107**	44
LC7K12105**	44	LP1K12107**	44	LP4K12004**	44
LC7K12107**	44	LP1K090043**	44	LP4K12013**	44
LC7K090045**	44	LP1K090045**	44	LP4K12015**	44
LC7K090047**	44	LP1K090047**	44	LP4K12017**	44
LC7K090085**	44	LP1K090083**	44	LP4K12103**	44
LC7K090087**	44	LP1K090085**	44	LP4K12105**	44
LC7K120045**	44	LP1K090087**	44	LP4K12107**	44
LC7K120047**	44	LP1K120043**	44	LP4K090043**	44
<b>LC8</b>		LP1K120045**	44	LP4K090047**	44
LC8K06015B7	10	LP1K120047**	44	LP4K090083**	44
LC8K06105B7	10	<b>LP2</b>		LP4K090087**	44
LC8K09015B7	10	LP2K0601**	9	LP4K120043**	44
LC8K09105B7	10	LP2K0610**	9	LP4K120045**	44
<b>LP1</b>		LP2K0901**	9	LP4K120047**	44
LP1D40008**	48	LP2K0910**	9	<b>LP5</b>	
LP1D65008**	48	LP2K1201**	9	LP5K0601BW3	9
LP1D80004**	36, 48	LP2K1210**	9	LP5K0610BW3	9
LP1D80008**	48	LP2K06013BD	9	LP5K0901BW3	9
LP1D400086**	48	LP2K06015BD	10	LP5K0910BW3	9
LP1D650086**	48	LP2K06017BD	10	LP5K1201BW3	9
LP1D800046**	37, 48	LP2K06103BD	9	LP5K1210BW3	9
LP1D800086**	48	LP2K06105BD	10	LP5K06013BW3	9
LP1K0601**	44	LP2K06107BD	10	LP5K06015BW3	10
LP1K0610**	44	LP2K09004**	35	LP5K06103BW3	9
LP1K0901**	44	LP2K09013BD	9	LP5K06105BW3	10
LP1K0910**	44	LP2K09015BD	10	LP5K09004BW3	35
LP1K1201**	44	LP2K09017BD	10	LP5K09013BW3	9
LP1K1210**	44	LP2K09103BD	9	LP5K09015BW3	10
LP1K06013**	44	LP2K09105BD	10	LP5K09103BW3	9
LP1K06015**	44	LP2K09107BD	10	LP5K09105BW3	10
LP1K06016**	44	LP2K12004**	35	LP5K12004BW3	35
LP1K06017**	44	LP2K12013BD	9	LP5K12013BW3	9
LP1K06103**	44	LP2K12103BD	9	LP5K12103BW3	9
LP1K06105**	44	<b>LP4</b>			
LP1K06106**	44	LP4K0601**	44		
LP1K06107**	44	LP4K0610**	44		
LP1K09004**	44	LP4K0901**	44		
LP1K09008**	44	LP4K0910**	44		
LP1K09013**	44	LP4K1201**	44		
LP1K09015**	44	LP4K1210**	44		
LP1K09016**	44	LP4K06013**	44		
LP1K09017**	44	LP4K06015**	44		
LP1K09103**	44	LP4K06017**	44		
LP1K09105**	44	LP4K06103**	44		
LP1K09106**	44	LP4K06105**	44		
LP1K09107**	44	LP4K06107**	44		
LP1K12004**	44	LP4K09004**	44		
LP1K12013**	44	LP4K09008**	44		
LP1K12015**	44	LP4K09013**	44		

# Find all our connection accessories

## Linery catalog



Ref.: LVED213001EN



Scan or click on  
QR code to reach  
the portal

## Control and protection components TeSys catalogue



Ref.: MKTED210011EN



Scan or click on  
QR code to reach  
the portal





## Schneider Electric Industries SAS

35, rue Joseph Monier  
CS 30323  
92506 Rueil Malmaison Cedex  
France

RCS Nanterre 954 503 439  
Capital social 896 313 776 €  
[www.schneider-electric.com](http://www.schneider-electric.com)

03-2018  
CPTG011\_EN

© 2018 - Schneider Electric - All rights reserved.  
All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

This document has been  
printed on recycled paper.

