

# Manual change-over switches LA

**Generalities**

Change-over manually operated switches are suitable for breaking and permutating two low voltage electrical circuits. They are made by two standard switches mechanically interlocked. The arrangement of two switches mounted one on top of the other makes this execution particularly compact and easy to connect to cables and busbars.

**General characteristics**

- 3 positions "1", "0" and "2"
- visibility of fixed and moving contacts by means of windows
- independent fast action operation
- double break contacts

- high breaking capacity (AC-23A IEC60947-3)
- high electrical and mechanical endurance
- resistant to damp heat (IEC 68-2)
- wide range of accessories
- rotary front operation by means of
- external double insulated handle with door-interlock in "1" and "2" position
- IP65 degree of protection; padlockable with up to three padlocks in "0" position

## Manual change-over compact switches LA (1-0-2)

Rated current  
**160-2500 A**



**Manual change-over compact switches LA (1-0-2) with door interlock handle**

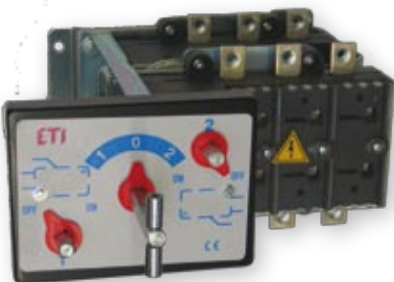
type	code No.	I <sub>n</sub> [A]	number of poles	packaging [pcs]
LA1/D 160A 3p CO	004667001	160	3	1
LA2/D 250A 3p CO	004667002	250	3	1
LA3/D 400A 3p CO	004667003	400	3	1
LA4/D 630A 3p CO	004667004	630	3	1
LA4/D 800A 3p CO	004667005	800	3	1
LA5/D 1250A 3p CO	004667006	1250	3	1
LA5/D 1600 3p CO	004667007	1600	3	1
LA5/D 2500A 3p CO	004667008	2500	3	1
LA1/D 160A 4p CO	004667011	160	4	1
LA2/D 250A 4p CO	004667012	250	4	1
LA3/D 400A 4p CO	004667013	400	4	1
LA4/D 630A 4p CO	004667014	630	4	1
LA4/D 800A 4p CO	004667015	800	4	1
LA5/D 1250A 4p CO	004667016	1250	4	1
LA5/D 1600 4p CO	004667017	1600	4	1
LA5/D 2500A 4p CO	004667018	2500	4	1

Note: Connection screw set attached.

**Manual change-over compact switches LA (1-0-2) without handle**

type	code No.	I <sub>n</sub> [A]	number of poles	packaging [pcs]
LA1 160A 3p CO	004667101	160	3	1
LA2 250A 3p CO	004667102	250	3	1
LA3 400A 3p CO	004667103	400	3	1
LA4 630A 3p CO	004667104	630	3	1
LA4 800A 3p CO	004667105	800	3	1
LA5 1250A 3p CO	004667106	1250	3	1
LA5 1600 3p CO	004667107	1600	3	1
LA5 2500A 3p CO	004667108	2500	3	1
LA1 160A 4p CO	004667111	160	4	1
LA2 250A 4p CO	004667112	250	4	1
LA3 400A 4p CO	004667113	400	4	1
LA4 630A 4p CO	004667114	630	4	1
LA4 800A 4p CO	004667115	800	4	1
LA5 1250A 4p CO	004667116	1250	4	1
LA5 1600 4p CO	004667117	1600	4	1
LA5 2500A 4p CO	004667118	2500	4	1

Note: Connection screw set attached.



## Manual change-over horizontal switches LA (1-0-2) with door interlock handle

type	code No.	I <sub>n</sub> [A]	number of poles	packaging [pcs]
LA1/D 160A 3p COH	004667021	160	3	1
LA2/D 250A 3p COH	004667022	250	3	1
LA3/D 400A 3p COH	004667023	400	3	1
LA4/D 630A 3p COH	004667024	630	3	1
LA4/D 800A 3p COH	004667025	800	3	1
LA5/D 1250A 3p COH	004667026	1250	3	1
LA5/D 1600 3p COH	004667027	1600	3	1
LA5/D 2500A 3p COH	004667028	2500	3	1
LA1/D 160A 4p COH	004667031	160	4	1
LA2/D 250A 4p COH	004667032	250	4	1
LA3/D 400A 4p COH	004667033	400	4	1
LA4/D 630A 4p COH	004667034	630	4	1
LA4/D 800A 4p COH	004667035	800	4	1
LA5/D 1250A 4p COH	004667036	1250	4	1
LA5/D 1600 4p COH	004667037	1600	4	1
LA5/D 2500A 4p COH	004667038	2500	4	1

Note: Connection screw set attached.

## Manual change-over horizontal switches LA (1-0-2) without handle

type	code No.	I <sub>n</sub> [A]	number of poles	packaging [pcs]
LA1 160A 3p COH	004667041	160	3	1
LA2 250A 3p COH	004667042	250	3	1
LA3 400A 3p COH	004667043	400	3	1
LA4 630A 3p COH	004667044	630	3	1
LA4 800A 3p COH	004667045	800	3	1
LA5 1250A 3p COH	004667046	1250	3	1
LA5 1600 3p COH	004667047	1600	3	1
LA5 2500A 3p COH	004667048	2500	3	1
LA1 160A 4p COH	004667051	160	4	1
LA2 250A 4p COH	004667052	250	4	1
LA3 400A 4p COH	004667053	400	4	1
LA4 630A 4p COH	004667054	630	4	1
LA4 800A 4p COH	004667055	800	4	1
LA5 1250A 4p COH	004667056	1250	4	1
LA5 1600 4p COH	004667057	1600	4	1
LA5 2500A 4p COH	004667058	2500	4	1

Note: Connection screw set attached.



Accessories



Door interlock handle				
description	code No.	for use with	weight [g]	packaging [pcs]
ROD LA COH1	004667201	LA1 COH	408	1
ROD LA C0123	004667202	LA2,3 COH & LA1,2,3 CO	408	1
ROD LA C04	004667203	LA4 COH & LA4 CO	441	1
ROD LA C05	004667204	LA5 COH & LA5 CO	930	1

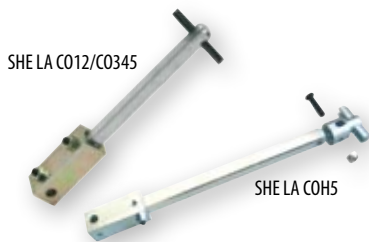


Direct handle				
description	code No.	for use with	weight [g]	packaging [pcs]
RO LA COH1	004667205	LA1 COH	429	1
RO LA C012	004667206	LA1,2 COH & LA1,2 CO	445	1
RO LA C03	004667207	LA3 COH & LA3 CO	520	1
RO LA C04	004667208	LA4 COH & LA4 CO	560	1
RO LA C05 (35)	004667209	LA5 CO 1250A	610	1
RO LA COH5	004667210	LA5 COH & LA5 CO 1600A, 2500A	1.100	1

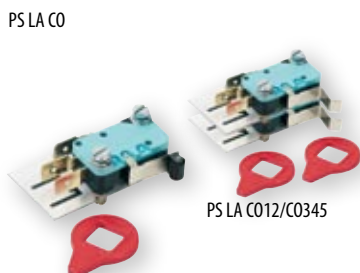
Note: Cover shield attached



Door interlock handle with key lock				
description	code No.	for use with	weight [g]	packaging [pcs]
RODK LA C0123	004667211	LA1,2,3 COH & LA1,2,3 CO	420	1
RODK LA C04	004667212	LA4 COH & LA4 CO	440	1
RODK LA C05 (35)	004667213	LA5 CO 1250A	610	1
RODK LA C05H	004667214	LA5 COH & LA5 CO 1600A, 2500A	930	1



Extension shaft				
description	code No.	for use with	weight [g]	packaging [pcs]
	LA1 LA2			
SHE LA C012, 200mm	004667215	LA1,2 COH & LA1,2 CO	135	1
SHE LA C0345, 200mm	004667216	LA3,4 COH & LA3,4,5 CO	303	1
SHE LA COH5, 200mm	004667217	LA5 COH	390	1



Auxiliary contacts				
description	code No.	for use with	weight [g]	packaging [pcs]
	LA1 LA2			
PS LA CO, 1NO+1NC	004667218	LA1,2,3,4,5 COH & LA1,2,3,4,5 CO	30	1
PS2 LA C012, 2NO+2NC	004667219	LA1,2 COH & LA1,2 CO	60	1
PS2 LA C0345, 2NO+2NC	004667220	LA3,4,5 COH & LA3,4,5 CO	60	1

## Motorized change-over switches LA (1-0-2)

### Generalities

The three and four pole change-over switches, with motorized operation, allow remote control of change-over/breaking/disconnection under load of power circuits in low voltage systems. Motorized change-over switches are made by means of 2 switch disconnectors mechanically interlocked.

### General characteristic

- automatic under-load change-over (AC22, AC23) from and to any of positions "1,0,2"
- both electrical and manual (emergency change-over)
- transfer function with direct transition from position "1" to position "2" and viceversa.
- front display of positions "1","0","2" is provided

- safety: locking by padlock preventing any electrical or manual operation
- external signalisation of positions "1","0" and "2" by a clean contact (no voltage supply)
- quick operating time from pos. "1" to "2" and viceversa
- easy and fast electrical connections by means of terminal blocks of quick connection type
- power supply voltage 24V DC and 230V AC
- compact dimensions
- selection of operating logic by a micro switch for the following logic:
  - impulse (150 ms min)
  - contactor (maintained contact)
- conformity to standards: IEC 60947-1, IEC 60947-3, IEC 439-1, IEC 204-1

### MO change-over switches LA (1-0-2)

type	code No.	I <sub>n</sub> [A]	Power supply voltage	number of poles	weight [kg]	packaging [pcs]
LA2 MO 250A 3p CO 230VAC	004667321	250	220V AC	3	5,5	1
LA3 MO 400A 3p CO 230VAC	004667322	400	220V AC	3	17	1
LA4 MO 630A 3p CO 230VAC	004667323	630	220V AC	3	22	1
LA4 MO 800A 3p CO 230VAC	004667324	800	220V AC	3	22	1
LA5 MO 1250A 3p CO 230VAC	004667325	1250	220V AC	3	37	1
LA2 MO 250A 4p CO 230VAC	004667331	250	220V AC	4	6	1
LA3 MO 400A 4p CO 230VAC	004667332	400	220V AC	4	18	1
LA4 MO 630A 4p CO 230VAC	004667333	630	220V AC	4	24	1
LA4 MO 800A 4p CO 230VAC	004667334	800	220V AC	4	24	1
LA5 MO 1250A 4p CO 230VAC	004667335	1250	220V AC	4	37	1
LA2 MO 250A 3p CO 24DC	004667341	250	24V DC	3	5,5	1
LA3 MO 400A 3p CO 24DC	004667342	400	24V DC	3	17	1
LA4 MO 630A 3p CO 24DC	004667343	630	24V DC	3	22	1
LA4 MO 800A 3p CO 24DC	004667344	800	24V DC	3	22	1
LA5 MO 1250A 3p CO 24DC	004667345	1250	24V DC	3	37	1
LA2 MO 250A 4p CO 24DC	004667351	250	24V DC	4	6	1
LA3 MO 400A 4p CO 24DC	004667352	400	24V DC	4	18	1
LA4 MO 630A 4p CO 24DC	004667353	630	24V DC	4	24	1
LA4 MO 800A 4p CO 24DC	004667354	800	24V DC	4	24	1
LA5 MO 1250A 4p CO 24DC	004667355	1250	24V DC	4	37	1
LA5 MO 1600A 3P CO DUO	004667361	1600	24 DC and 110/220V AC	3	51	1
LA5 MO 2500A 3P CO DUO	004667362	2500	24 DC and 110/220V AC	3	70	1
LA5 MO 1600A 4P CO DUO	004667371	1600	24 DC and 110/220V AC	4	53	1
LA5 MO 2500A 4P CO DUO	004667372	2500	24 DC and 110/220V AC	4	74	1

Note: Handle for emergency operation and connection screw set are supplied with the change-over switch

