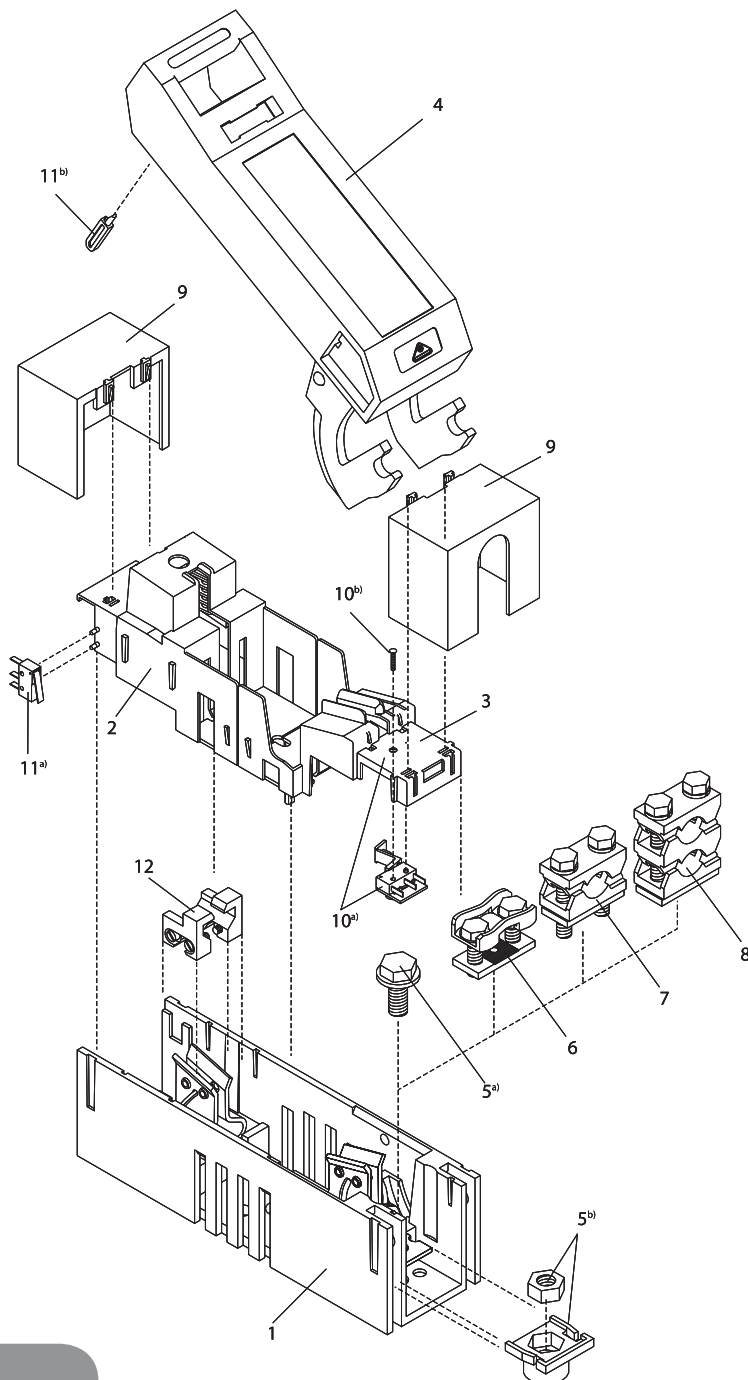


The "9" series LV HRC fuse switch-disconnectors of the DIN sizes 00 - 4a are suitable for surface mounting on mounting plates and for direct mounting on busbars. The different sizes are available as 1-pole, 2-pole, 3-pole and 4-pole versions.

- Surface mounting
- Busbar mounting
- 1 - pole, 2 - pole, 3 - pole and 4 - pole
- Retrofittable cable connections
- Fuse monitor
- Position indication
- DIN rail fixing parts

## LV HRC fuse switch-disconnectors, size 1

**Example:** Surface mounting with accessories, 1-pole



### Basic construction

- 1 Base of disconnecter U-LTL1-1
- 2 Protective cover, top BO-LTL1-1
- 3 Protective cover, bottom BU-LTL1-1
- 4 Swing-in device D-LTL1-1/9

### Connection accessories

- 5a) Screw terminal F-LTL1-M10
- 6 Clamp-type terminal S1
- 7 V terminal clamp P1
- 8 Double V-terminal clamp P12

### Covering accessories

- (Protection against contact)
- 9 Handle protection, top and bottom GOU-LTL1-1

### Accessories for mechanical fuse monitoring

#### Position indicator, "ON"

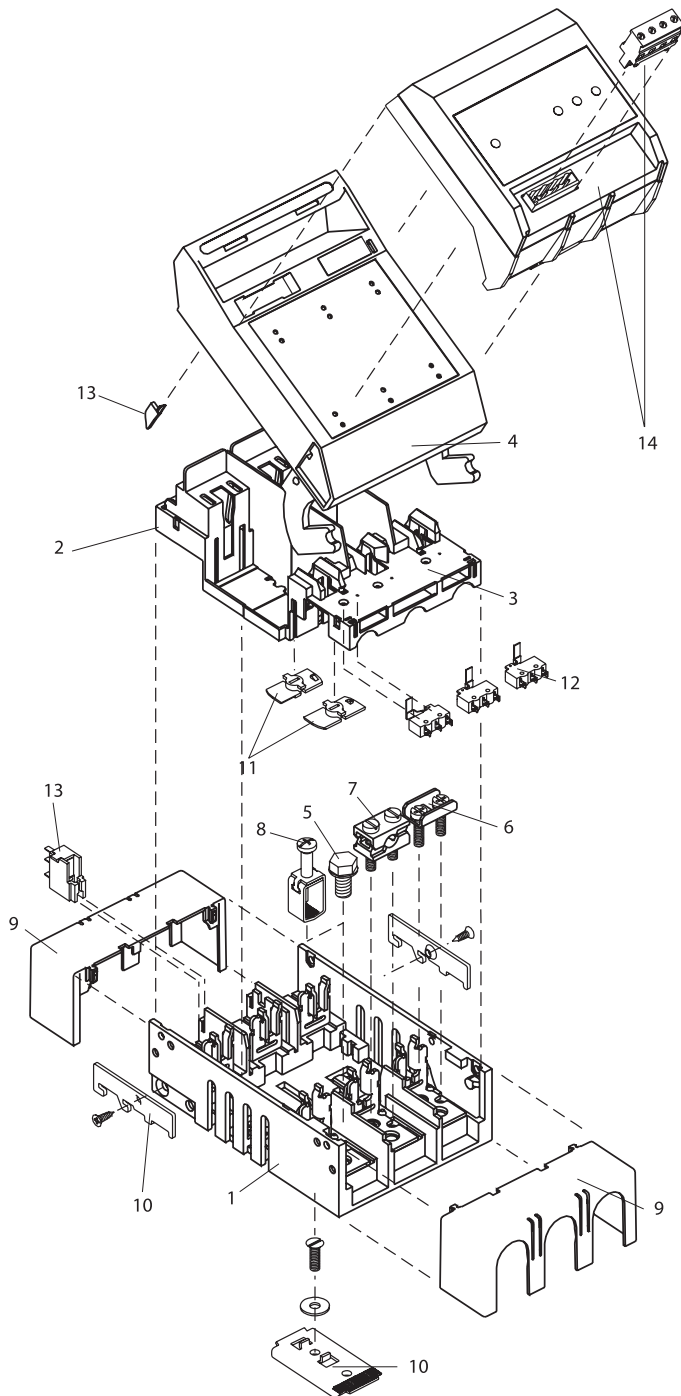
- 10ab) Mech. fuse monitor K-LTL1-1/H
- 11ab) Position indicator, "ON" (electrical interlocking) eV-LTL123-1

### LV HRC fuse switch-disconnectors with quasi-instantaneous circuit

- 12 Quasi-instantaneous circuit LTL1-1/9/Q

## LV HRC fuse switch-disconnectors, size 00

**Example:** Surface mounting with accessories, 3 - pole



### Basic construction

- 1 Base of disconnecter U - LTL00 - 3
- 2 Protective cover, top BO - LTL00 - 3
- 3 Protective cover, bottom BU - LTL00 - 3
- 4 Swing-in device D - LTL00 - 3/9

### Connection accessories

- 5 Screw terminal F - M8x16
- 6 Clamp - type terminal S00
- 7 V - terminal clamp P0070
- 8 Box terminal F50

### Covering accessories

(Protection against contact)

- 9 Handle protection, top/bottom GOU - LTL00 - 3

### Fixing accessories

- 10 DIN rail fixing parts Z - LTL00 - 3

### Accessories for interlocking, mechanical fuse monitoring and "ON" position indication

- 11 Protective cover interlock VHG - LTL00123 - 3
- 12 Mech. fuse monitor K - LTL00 - 3/H
- 13 Position indicator, "ON" (electrical interlocking) eV - LTL00 - 3

### Accessories: Swing - in device with electronic fuse monitor

- 14 Swing-in device ES00 - D - LTL00

## Sizes 00 - 4a / 160A - 1600A

### 1 - pole / surface mounting AC 690V



#### Product definition

LV HRC fuse switch-disconnectors in accordance with EN 60947-3 with swing-in device for accommodating one LV HRC fuse - link in accordance with DIN 43620, sizes 00/160 A to 4a/1600 A.

#### Applications

Switchgear for system, cable and motor protection in alternating and direct current systems. The disconnectors are frequently used in battery - powered direct current systems such as UPS systems.

#### Operational principle

Using a manually - operated swing - in device, the LV HRC fuse - link is swung in (making operation) and pulled out (breaking operation).

#### Product construction

Swing - in device made of halogen - free self - extinguishing plastics. Split latch - on contact cover. Standard disconnectors are equipped with screw terminals, but can be retrofitted with direct - connection terminals.

Size	Rated operational current (A)	Std.P	Type
LTL...			
Size 00	160	1	00-1/9
Size 1	250	1	1-1/9
Size 3	630	1	3-1/9
Size 4a	1250	1	4A-1X/1250/8
Size 4a	1600	1	4A-1X/1600/8

## Sizes 00 - 3 / 160A - 630A

### 2 - pole / surface mounting AC 690V



#### Product definition

LV HRC fuse switch-disconnectors in accordance with EN 60947-3 with swing - in device for accommodating 2 LV HRC fuse-links in accordance with DIN 43620, sizes 00/160A to 3/630A.

#### Applications

Switchgear for system, cable and motor protection in direct current systems. The disconnectors are frequently used in battery - powered direct current systems such as UPS systems.

#### Operational principle

Using manually - operated swing - in devices, the LV HRC fuse - links are swung in (making operation) and pulled out (breaking operation).

#### Product construction

Swing-in device made of halogen-free self-extinguishing plastics. Split latch-on contact cover. Standard disconnectors are equipped with screw terminals, but can be retrofitted with direct-connection terminals.

Size	Rated operational current (A)	Std.P	Type
LTL...			
Size 00	160	1	00-2/9
Size 1	250	1	1-2/9
Size 3	630	1	3-2/9

## Sizes 00 - 4a / 160A - 1600A

### 3 - pole / surface mounting AC 690V

#### Product definition

LV HRC fuse switch - disconnectors in accordance with EN 60947-3 with swing-in device for accommodating 3 LV HRC fuse - links in accordance with DIN 43620, sizes 00 - 4a / 160 A - 1600 A.

#### Applications

Switchgear for system, cable and motor protection in three - phase systems up to 690V AC. The disconnectors are fitted in switchgear cabinets or insulating cases.

#### Operational principle

Using manually - operated swing - in devices, the LV HRC fuse - links are swung in (making operation) and pulled out (breaking operation).

#### Product construction

Swing-in device made of halogen - free self - extinguishing plastics. Size 00 and 1 disconnectors with seal. Split latch-on contact cover. Standard disconnectors are equipped with bolt connections, but can be retrofitted with direct - connection terminals.



Size	Rated operational current (A)	Switched poles	Electronic fuse monitor	Quasi-instantaneous circuit	Std.P	Type
<b>LTL...</b>						
Size 00	160	3-pole	Without	Without	1	00-3/9
Size 00	160	3-pole	With	Without	1	00-3/9/ES00
Size 1	250	3-pole	Without	Without	1	1-3/9
Size 1	250	3-pole	With	Without	1	1-3/9/ES00
Size 2	400	3-pole	Without	Without	1	2-3/9
Size 2	400	3-pole	With	Without	1	2-3/9/ES00
Size 3	630	3-pole	Without	Without	1	3-3/9
Size 3	630	3-pole	With	Without	1	3-3/9/ES00
Size 4a	1250	1-pole	Without	Without	1	4A-3X/1250/8
Size 4a	1250	3-pole	Without	With	1	4A-3X3/1250/8/Q
Size 4a	1600	1-pole	Without	Without	1	4A-3X/1600/8
Size 4a	1600	1-pole	Without	With	1	4A-3X/1600/8/Q
Size 4a	1250	3-pole	Without	Without	1	4A-3X3/1250/8
Size 4a	1250	1-pole	Without	With	1	4A-3X/1250/8/Q
Size 4a	1600	3-pole	Without	Without	1	4A-3X3/1600/8
Size 4a	1600	3-pole	Without	With	1	4A-3X3/1600/8/Q

## Sizes 00 - 3 / 160A - 630A

### 4 - pole / surface mounting AC 690V

#### Product definition

LV HRC fuse switch - disconnectors in accordance with EN 60947-3 with swing-in device for accommodating 4 LV HRC fuse-links in accordance with DIN 43620 or 3 LV HRC fuse - links and one disconnecting blade, sizes 00-3 / 160 A – 630 A.

#### Applications

Switchgear for system, cable and motor protection in three - phase networks (TN-S networks, separate N and PE conductors).

#### Operational principle

Using manually-operated swing - in devices, the LV HRC fuse - links are swung in (making operation) and pulled out (breaking operation). All 4 poles are switched simultaneously.

#### Product construction

Swing-in device made of halogen - free self - extinguishing plastics. Split latch - on contact cover. Standard disconnectors are equipped with screw terminals, but can be retrofitted with direct-connection terminals.

Size	Rated operational current (A)	Std.P	Type
<b>LTL...</b>			
Size 00	160	1	00-4/9
Size 1	250	1	1-4/9
Size 3	630	1	3-4/9

## Technical data for fuse switch-disconnectors (in accordance with IEC/EN 60947-3 and VDE 0660 Part 107)

Type			LTL00-1/9				LTL1-2/9				
			LTL00-2/9				LTL1-3/9				
Type			LTL00-3/9				LTL1-3/9/60				
			LTL00-3/9/40 - 60				LTL1-3/9/100				
Type			LTL00-4/9				LTL1-4/9				
			LTL00aG-3/9				LTL1aG-3/9				
Electrical characteristics	Rated operational voltage	$U_p$	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
	Rated operational current	$I_p$	A	160	100	160	100	250	200	250	200
	Conventional free air thermal current with fuses	$I_{th}$	A	160	100	160	100	250	200	250	200
	Conventional free air thermal current with solid links	$I_{th}$	A	210(TM00)				325(TM1)			
	Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
	Rated insulation voltage	$U_i$	V	AC750				AC750			
	Rated conditional short-circuit current	-	kAeff	50	50	25	25	50	50	25	25
	Rated short-time withstand current (1sec)	$I_{cw}$	kAeff	-				-			
	Utilization category	-	-	AC-22B	AC-22B	DC-22B	DC-21B	AC-22B	AC-22B	DC-22B	DC-21B
	Rated making capacity	-	A	480	300	640	150	750	600	1000	300
	Rated breaking capacity	-	A	480	300	640	150	750	600	1000	300
	Rated impulse withstand voltage	$U_{imp}$	kV	8							
	Operating cycles with current	-	-	200	300	200	300	200	200	200	200
Total power loss at $I_m$ (without fuse) <sup>3)</sup>	$P_v$	W	6.9	2.7	6.2	2.7	12.9	8.3	8.6	5.5	
Fuse links	Size to DIN 43 620	-	-	0				1			
	Max. rated current (gL/gG)	$I_N$	A	160	100	160	100	250	200	250	200
	Max. permis. power loss per fuse-link <sup>3)</sup>	$P_v$	W	12				23			
Mechanical characteristics	Operating cycles without current	-	-	1700				1400			
	Weight <sup>1)</sup>	-	kg	0,31/0,63/0,71/1,1				1,1/2,15/3,5/4,55			
	Busbar distance (3-pole)	-	mm	40/50/60				60/100			
Cable connection	Flat terminal Bolt diameter	-	-	M8				M10			
	Cable lug (DIN 46 235)	-	mm <sup>2</sup>	1 x 10- 95 (max. width 25mm)				1 x 25 -150			
	Flat bar	-	mm	20 x 10				30 x 10			
	Tightening torque	Ma	Nm	Dec-15				30 - 35			
	Clamping cross-section	-	mm <sup>2</sup>	1,5 - 70 Cu/ribbon 6 x 9 x 0,8				25 - 150 Cu/ribbon 6 x 16 x 0,8			
	Tightening torque	Ma	Nm	S 00				S 1			
	Tightening torque	Ma	Nm	2.6				9.5			
	Clamping cross-section	-	mm <sup>2</sup>	10 - 70 Al/Cu				70 - 150 Al/Cu			
	Tightening torque	Ma	Nm	P 00				P 1			
	Clamping cross-section	-	mm <sup>2</sup>	35 x 95 Al/Cu				2 x 70 - 95 Al/Cu			
	Tightening torque	Ma	Nm	P00 - 95				P12			
	Clamping cross-section	-	mm <sup>2</sup>	2 x 1,5 - 25 Al/Cu							
	Tightening torque	Ma	Nm	9.5							
Type of protection	Clamping cross-section	-	mm <sup>2</sup>	1,5 - 70 Cu/ribbon 6 x 9 x 0,8							
	Tightening torque	Ma	Nm	F 50/ F 70							
	Tightening torque	Ma	Nm	2.6							
Operating conditions	Front side Device fitted	-	-								
	Operational state	-	-	IP20							
	Front cover open	-	-	IP10							
	Ambient temperature <sup>2)</sup>	$T_u$	°C	- 25 to + 55							
	Rated operating mode	-	-	Continuous operation							
	Actuation	-	-	Dependent manual operation							
	Mounting position	-	-	Vertical, horizontal							
	Altitude	-	m	Up to 2000							
	Pollution degree	-	-	3							
	Overvoltage category	-	-	III							

## Technical data for fuse switch-disconnectors (in accordance with IEC/EN 60947-3 and VDE 0660 Part 107)

Type				LTL2-3/9				LTL3-1/9			
				LTL2aG-3/9				LTL3-2/9			
								LTL3-3/9			
								LTL3-4/9			
								LTL3-aG3/9			
Electrical characteristics	Rated operational voltage	$U_e$	V	AC500	AC690	DC220	DC440	AC500	AC690	DC220	DC440
	Rated operational current	$I_e$	A	400	315	400	315	630	500	630	500
	Conventional free air thermal current with fuses	$I_{th}$	A	400	315	400	315	630	500	630	500
	Conventional free air thermal current with solid links	$I_{th}$	A	520(TM2)				1000(TM3)			
	Rated frequency	-	Hz	40-60	40-60	-	-	40-60	40-60	-	-
	Rated insulation voltage	$U_i$	V	AC750				AC750			
	Rated conditional short-circuit current	-	kAeff	50	50	25	25	50	50	25	25
	Rated short-time withstand current (1sec)	$I_{cw}$	kAeff	-				-			
	Utilization category	-	-	AC-22B	AC-22B	DC-22B	DC-21B	AC-22B	AC-22B	DC-22B	DC-21B
	Rated making capacity	-	A	1200	945	1600	475	1890	1500	2520	750
	Rated breaking capacity	-	A	1200	945	1600	475	1890	1500	2520	750
	Rated impulse withstand voltage	$U_{imp}$	kV	8							
	Operating cycles with current	-	-	200	200	200	200	200	200	200	200
Total power loss at $I_{th}$ (without fuse) <sup>3)</sup>	$P_v$	W	27	16.7	18	11.2	52	32.8	34.6	21.8	
Fuse links	Size to DIN 43 620	-	-	2				3			
	Max. rated current (gL/gG)	$I_N$	A	400	315	400	315	630	500	630	500
	Max. permis. power loss per fuse-link <sup>3)</sup>	$P_v$	W	34				48			
Mechanical characteristics	Operating cycles without current	-	-	800				800			
	Weight <sup>1)</sup>	-	kg	3.1				1,7/3,92/5,35/7,1			
	Busbar distance (3-pole)	-	mm	60/100				60/100			
Cable connection	Bolt diameter	-	-	M 10				M10			
	Cable lug (DIN 46 235)	-	mm <sup>2</sup>	1 x 25 - 240				1 x 25 - 300			
	Flat bar	-	mm	30 x 10				40 x 10			
	Tightening torque	Ma	Nm	30 - 35				30 - 35			
	Clamping cross-section	-	mm <sup>2</sup>	25 - 240 Cu/r. 10 x 16 x 0,8				Band 11 x21 x 1			
	Tightening torque	Ma	Nm	S 2				S 3			
	Clamping cross-section	-	mm <sup>2</sup>	120 - 240 Al/Cu				120 - 240 Al/Cu			
	Tightening torque	Ma	Nm	P 2				P 3			
	Clamping cross-section	-	mm <sup>2</sup>	2 x 120 - 150 Al/Cu				2 x 120 - 240 Al/Cu			
Tightening torque	Ma	Nm	P 22				P 32				
Type of protection	Front side Device fitted										
	Operational state	-	-	IP20							
Operating conditions	Front cover open	-	-	IP10							
	Ambient temperature <sup>2)</sup>	$T_a$	°C	- 25 to + 55							
	Rated operating mode	-	-	Continuous operation							
	Actuation	-	-	Dependent manual operation							
	Mounting position	-	-	Vertical, horizontal							
	Altitude	-	m	Up to 2000							
	Pollution degree	-	-	3							
	Overtoltage category	-	-	III							

## Technical data for fuse switch-disconnectors (in accordance with IEC/EN 60947-3 and VDE 0660 Part 107)

Type			LTL4a-1/1250		LTL4a-1/1600		
			LTL4a-3/1250		LTL4a-1/1600		
Electrical characteristics	Rated operational voltage	$U_e$	V	AC500	AC690	AC500	AC690
	Rated operational current	$I_e$	A	1250	1000	1600	1000
	Conventional free air thermal current with fuses	$I_{th}$	A	1250	1000	1600	1000
	Conventional free air thermal current with solid links	$I_{th}$	A	1250	1600		
	Rated frequency	-	Hz	40-60			
	Rated insulation voltage	$U_i$	V	AC800			
	Rated conditional short-circuit current	-	kAeff	80	80	80	80
	Rated short-time withstand current (1sec)	$I_{cw}$	kAeff	-			
	Utilization category	-	-	AC-22B	AC-21B	AC-22B	AC-21B
	Rated making capacity	-	A	3750	1500	2400	1500
	Rated breaking capacity	-	A	3750	1500	2400	1500
	Rated impulse withstand voltage	$U_{imp}$	kV	8			
	Operating cycles with current	-	-	100			
	Total power loss at $I_{th}$ (without fuse) <sup>3)</sup>	$P_v$	W	32	20.5	52	33.3
Fuse links	Size to DIN 43 620	-	-	4a			
	Max. rated current (gL/gG)	$I_N$	A	1250	1000	1600	1000
	Max. permis. power loss per fuse-link <sup>3)</sup>	$P_v$	W	110	110	164	164
Mech. charact.	Operating cycles without current	-	-	500			
	Weight <sup>1)</sup>	-	kg	5,3/15,7			
Cable connection	Bolt diameter	-	-	1x M16		2x M12	
	Cable lug (DIN 46 235)	-	mm <sup>2</sup>	400		-	
	Flat bar	-	mm	max. 80 x 30			
	Tightening torque	Ma	Nm	50-60		35-40	
	Clamping cross-section	-	mm <sup>2</sup>	KV2HG/2/300/AF40-50	2 x (95-300)	KV2HG/2/300/AF40-50	2 x (95-300)
	Tightening torque	Ma	Nm	40			
	Clamping cross-section	-	mm <sup>2</sup>	K3G/3/A40-50	3 x (95-150)	K3G/3/A40-50	3 x (95-150)
	Tightening torque	Ma	Nm	50			
	Clamping cross-section	-	mm <sup>2</sup>	K3G/4/A40-50	4 x (95-150)	K3G/4/A40-50	4 x (95-150)
	Tightening torque	Ma	Nm	50			
Type of protec.	Operational state	-	-	IP20			
	Front cover open	-	-	IP10			
Operating conditions	Ambient temperature <sup>2)</sup>	$T_u$	°C	- 25 to +55			
	Rated operating mode	-	-	Continuous operation			
	Actuation	-	-	Dependent manual operation			
	Mounting position	-	-	Vertical			
	Altitude	-	m	Up to 2000			
	Pollution degree	-	-	3			
	Overvoltage category	-	-	III			

## Technical data for switch - disconnectors

Type				LTL1-3/1200	LTL2-3/1200	LTL3-3/1200
Electrical characteristics	Rated operational voltage	$U_e$	V	AC 1200	AC 1200	AC 1200
	Rated operational current	$I_e$	A	250	400	630
	Conventional free air thermal current with fuses	$I_{th}$	A	200	315	630
	Conventional free air thermal current with solid links	$I_{th}$	A	325	520	1000
	Rated frequency	-	Hz	40-60	40-60	40-60
Fuse links	Size to DIN 43 620	-	-	1	2	3
	Max. rated current (gL/gG)	$I_N$	A	200	315	630
	Max. permis. power loss per fuse-link	$P_v$	W	25	35	70
Medi. charact.	Weight <sup>1)</sup>	-	kg	6.1	6.5	7.5
Cable connection	Flat terminal Bolt diameter	-	-	M9	M10	M16
	Cable lug (DIN 46 235)	-	mm <sup>2</sup>	25 - 150	25 - 240	25 - 300
	Flat bar	-	mm	30x10	30x10	40x10
	Tightening torque	$M_a$	Nm	30-35	30-35	30-35
Type of protec.	Front side - operational state - Device fitted	-	-	IP 20		
	Front cover open	-	-	IP 10		
Operating conditions	Ambient temperature <sup>2)</sup>	$T_u$	°C	-25 to +55		
	Rated operating mode	-	-	Cont. operation		
	Actuation	-	-	-		
	Mounting position	-	-	Vert./ horizontal		
	Altitude	-	m	Up to 2000		
	Pollution degree	-	-	3		
	Overvoltage category	-	-	III		

<sup>1)</sup> Without packaging

<sup>2)</sup> 35°C normal temperature, at 55°C with reduced operating current



## Technical data for fuse switch - disconnectors (in accordance with IEC/EN 60947-3 and VDE 0660 Part 107)

Type				LTL000-3/9/60...		
Electrical characteristics	Rated operational voltage	$U_e$	V	AC400	AC500	DC220
	Rated operational current	$I_e$	A	125	100	100
	Conventional free air thermal current with fuses	$I_{th}$	A	125	100	100
	Conventional free air thermal current with solid links	$I_{th}$	A	160(TM00)	160(TM00)	160(TM00)
	Rated frequency	-	Hz	40-60	40-60	
	Rated insulation voltage	$U_i$	V	AC500	AC500	AC500
	Rated conditional short-circuit current	-	kAeff	50	50	25
	Rated short-time withstand current (1sec)	$I_{cw}$	kAeff	-	-	-
	Utilization category	-	-	AC22B	AC22B	DC22B
	Rated making capacity	-	A	300	300	400
	Rated breaking capacity	-	A	300	300	400
	Rated impulse withstand voltage	$U_{imp}$	kV		8	
	Operating cycles with current	-	-	300	300	300
	Total power loss at $I_n$ (without fuse) <sup>3)</sup>	$P_v$	W	18	11.5	11.5
Fuse links	Size to DIN 43 620	-	-	0	0	0
	Max. rated current (gL/gG)	$I_N$	A	125	100	100
	Max. permis. power loss per fuse-link <sup>3)</sup>	$P_v$	W		12	
Mechanical characteristics	Operating cycles without current	-	-		1700	
	Weight <sup>1)</sup>	-	kg		0.57	
	Busbar distance (3-pole)	-	mm		60	
	Busbar thickness	-	mm		5 a 10	
	Busbar width	-	mm		20 a 30	
Cable connection	Flat terminal	Bolt diameter	-	-		-
		Cable lug (DIN 46 235)	-	mm <sup>2</sup>		-
		Flat bar	-	mm		-
		Tightening torque	Ma	Nm		-
	Terminal	Clamping cross-section	-	mm <sup>2</sup>	F50	1,5 -50Cu/páska 6 x 9 x 0,8
		Tightening torque	Ma	Nm	F50	2.6
	Terminal	Clamping cross-section	-	mm <sup>2</sup>		-
		Tightening torque	Ma	Nm		-
	Terminal Clamping cross-section	-	mm <sup>2</sup>		-	
	Tightening torque	Ma	Nm		-	
Terminal Clamping cross-section	-	mm <sup>2</sup>		-		
Tightening torque	Ma	Nm		-		
Type of protec.	Front side Device fitted	Operational state	-	-	IP 20	
		Front cover open	-	-	IP 10	
Operating conditions	Ambient temperature <sup>2)</sup>	$T_u$	°C		- 25 to +55	
	Rated operating mode	-	-		Continuous operation	
	Actuation	-	-		Dependent manual operation	
	Mounting position	-	-		Vertical, horizontal	
	Altitude	-	m		Up to 2000	
	Pollution degree	-	-		3	
	Overvoltage category	-	-		III	

<sup>1)</sup> Without packaging

<sup>2)</sup> 35°C normal temperature, at 55°C with reduced operating current

<sup>3)</sup> Data for 3-pole version

## Product definition

### CLAMP-TYPE TERMINAL

Direct - connection terminal – clamp - type terminal for Cu conductor and ribbon conductor connection.

### V-TERMINAL CLAMP

Direct - connection terminal – V - terminal clamp for Cu conductor and Al conductor connection.

### OUTPUT INDICATOR

Output indicator for indication of connected or disconnected state.

### MECHANICAL FUSE MONITOR

In conjunction with LV HRC fuse – links with striker, the mechanical fuse monitor indicates fuse failure. The striker actuates a microswitch when the fuse-link is disconnected. The microswitch then passes the failure signal to a control centre.

### OVERREACHING PROTECTION

The upper and lower latch - on overreaching protection covers the connection contacts or cable lugs or bare protruding conductors. The live parts are covered probe-safe.

### HANDLE PROTECTION FOR BLADES

The overreaching protection for the contact blades of the LV HRC fuse - links is movably fitted in the front plate. When the front plate is swung out, the overreaching protection is swung out from the front plate on the face, thus covering the contact blades of the fuse – links probe - safe.

### SHROUD

The latch-on covering panels cover the switchboard apertures and ensure IP30 protection in the connected state.

### DIN RAIL FIXING PARTS

The retrofittable DIN rail fixing parts consist of two hang - up hooks and a slide. They allow size 00 LV HRC fuse switch – disconnectors to be fixed on two standard rails in accordance with EN 50022 with 100mm to 150mm distance between rail centres.

### PROTECTIVE COVER INTERLOCK

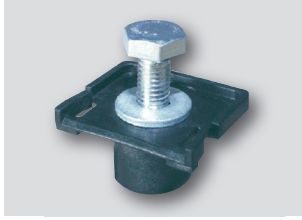
The protective cover interlock can be latched into the protective covers. It is interlocked with the basic frame by a 90° turn of a screwdriver.

### ELECTRONIC FUSE MONITORING

The electronic fuse monitoring feature ES00 can be used in the voltage range AC 400V to AC 690V. It is self-powered and the infeed can be at either end.

## Applications

Direct-connection terminals replace cable lugs. They are suitable for Cu conductors, ribbon conductors and Cu busbars. Mechanical fuse monitors are used for remote indication of fuse failure. The overreaching protection prevents accidental contact with live parts. The overreaching protection for the contact blades of the LV HRC fuse-links is used for supply from below. It prevents accidental contact with the live contact blades of the fuse - links when the front plate is not entirely closed. Covering panels are used for panel mounting. They ensure complete covering of the panel cutouts and thus IP30 protection. The DIN rail fixing parts for size 00 LV HRC fuse switch - disconnectors are used in control cabinets in combination with miniature circuit - breakers and in distribution systems in which only standard rails in accordance with EN 50022 are integrated. Protective cover interlocks ensure that the covers can only be removed by a tool, thus complying with BGV A2 requirements.



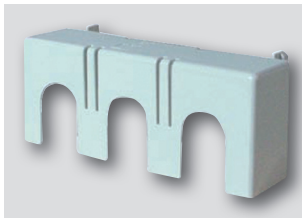
Flat termination	Std.P	Type
Size 00	3	F-LTL00-M8
Size 1	3	F-LTL1-M10
Size 2	3	F-LTL2-M10
Size 3	3	F-LTL3-M10



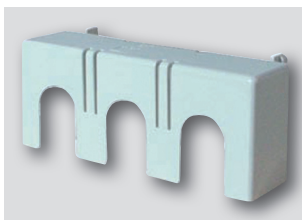
Clamp-type terminal	Std.P	Type
Size 00/1,5-70 mm <sup>2</sup> Cu (also for GU00)	3	S00-Z
Size 1	3	S1
Size 2	3	S2
Size 3	3	S3



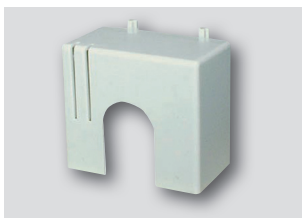
V-terminal clamp	Std.P	Type
Size 00/10-70 mm <sup>2</sup> Al/Cu	3	P0070-Z
Size 1	3	P1
Size 2	3	P2
Size 3	3	P3



Handle protection 3-pole, surface mounting	Std.P	Type
Size 00, top or bottom	1	LTL00-3
Size 1, top	1	GO-LTL1-3
Size 2, top	1	GO-LTL2-3
Size 3, top (also for busbar mounting)	1	GO-LTL3-3
Size 1, bottom	1	GU-LTL1-3
Size 2, bottom	1	GU-LTL2-3
Size 3, bottom, (also for busbar mounting)	1	GU-LTL3-3

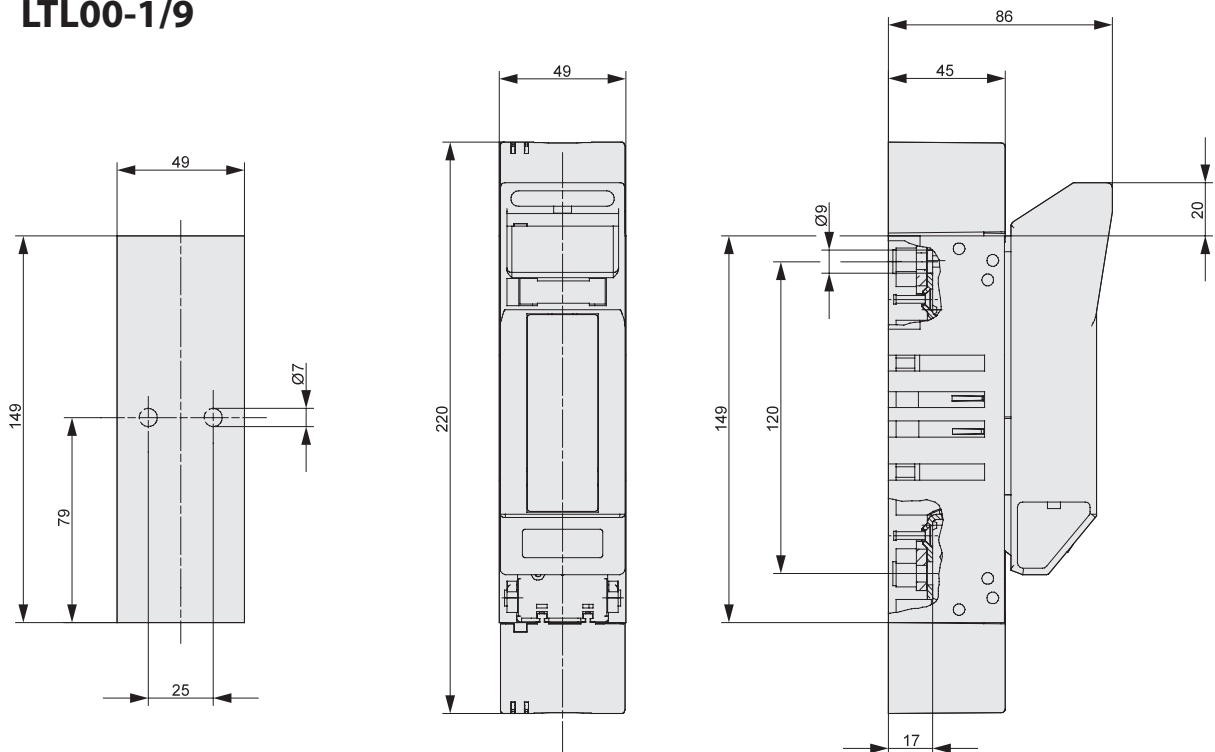


Handle protection 3-pole, busbar mounting	Std.P	Type
Size 00, top, system-measurement 195mm		GO-LTL00-3/195
Size 00, top, extended, system-measurement 230mm	1	GOV-LTL00-3/230
Size 2, top		GOV-LTL2-3
Size 1, top, extended		GOV-LTL1-3
Size 00, bottom, system-measurement 195mm		GU-LTL00-3/195
Size 2, bottom		GUV-LTL2-3
Size 00, bottom, extended, system-measurement 230mm	1	GUV-LTL00-3/230
Size 1, bottom, extended		GUV-LTL1-3
Size 2, extension top/bottom		GV-LTL2-3

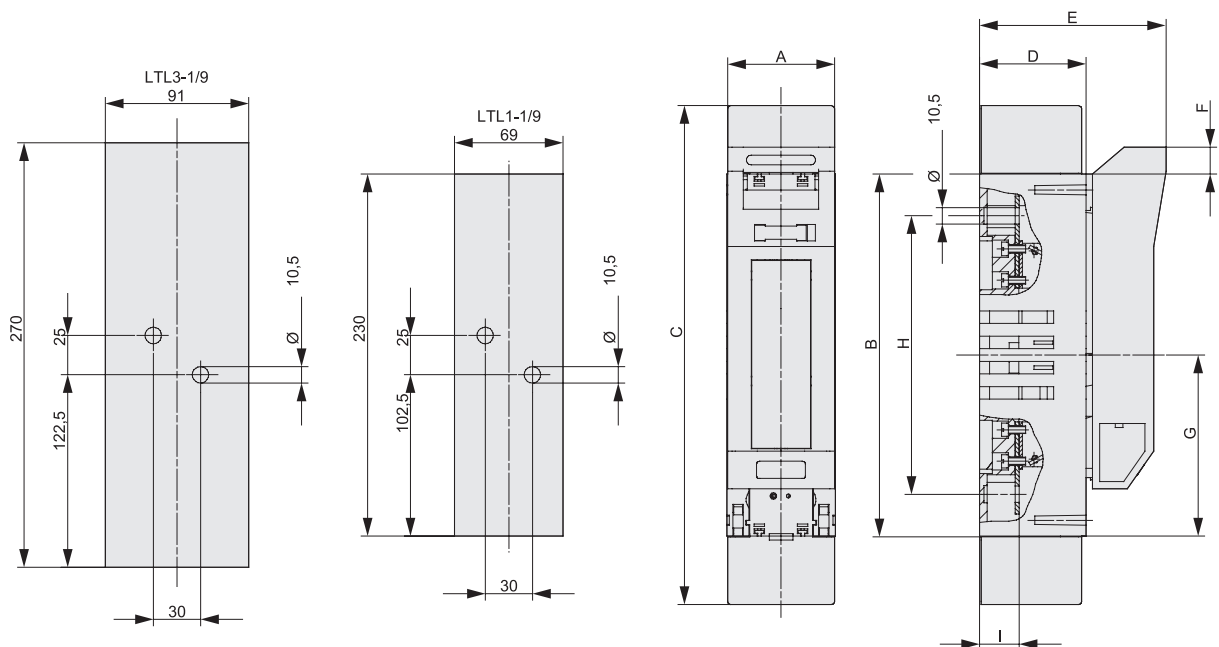


Handle protection 1-pole, surface- and busbar mounting	Std.P	Type
Size 00, top or bottom	1	GOU-LTL00-1
Size 1, top or bottom	1	GOU-LTL1-1
Size 3, top or bottom	1	GOU-LTL3-1

## LTL00-1/9

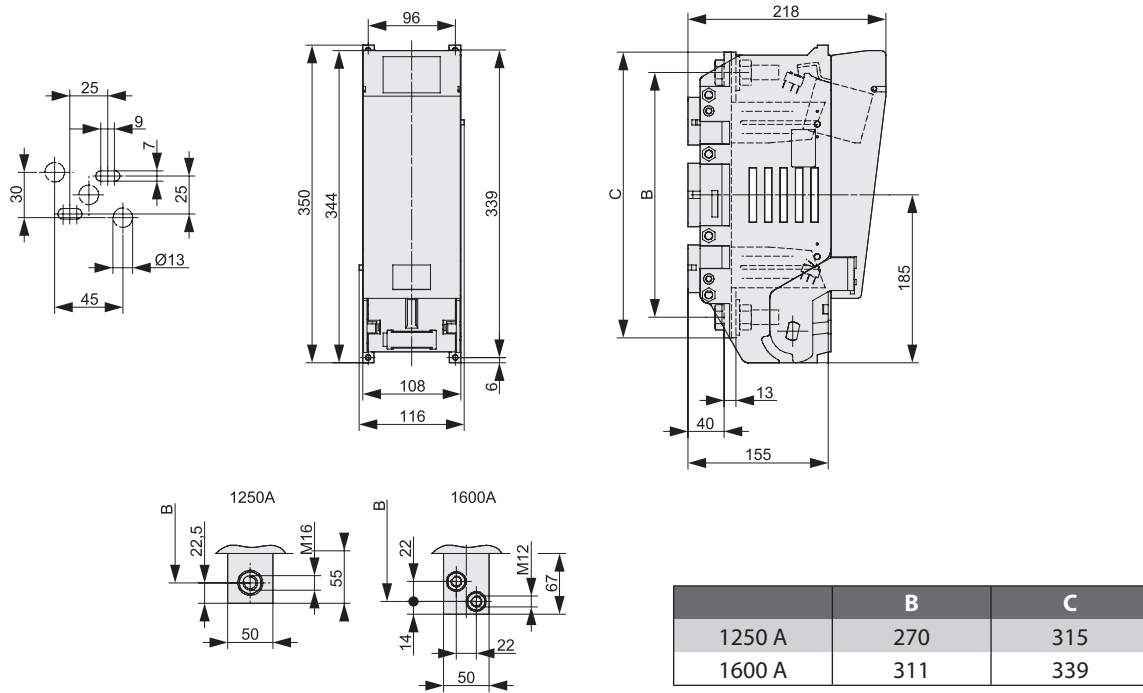


## LTL1-1/9, LTL3-1/9

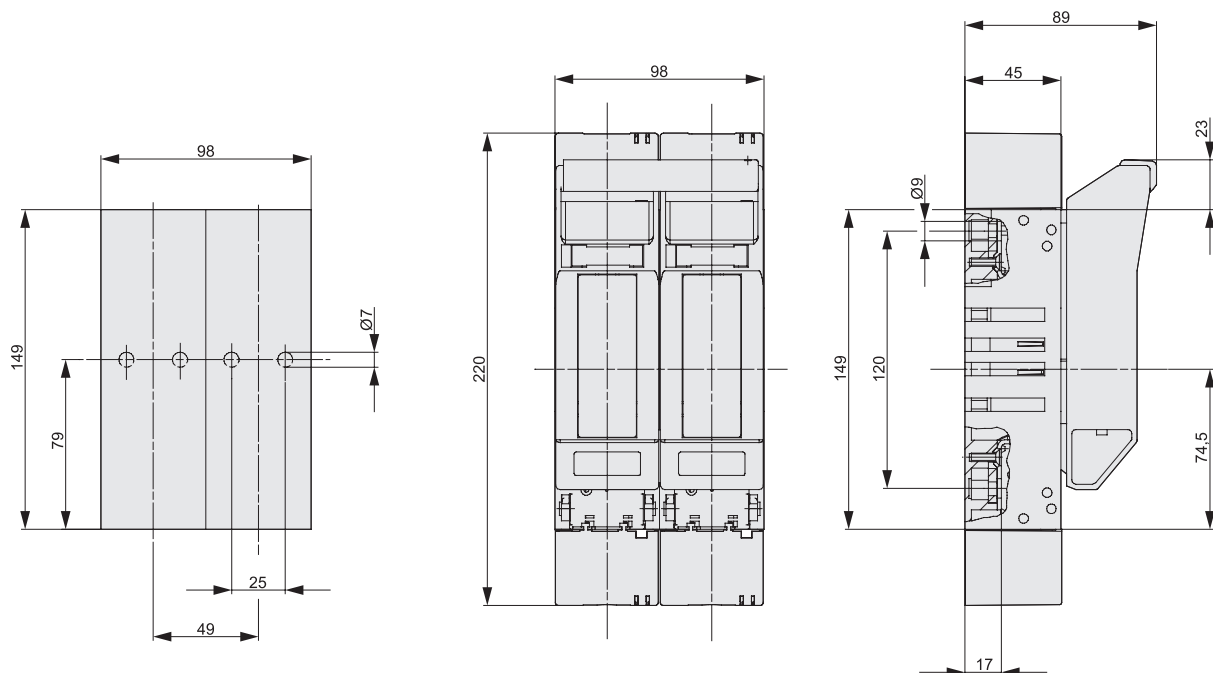


Type	A	B	C	D	E	F	G	H	I
LTL1-1/9	69	230	317	68	119	16,5	115	177	25
LTL3-1/9	91	270	430	96	147	9	135	220,5	30,5

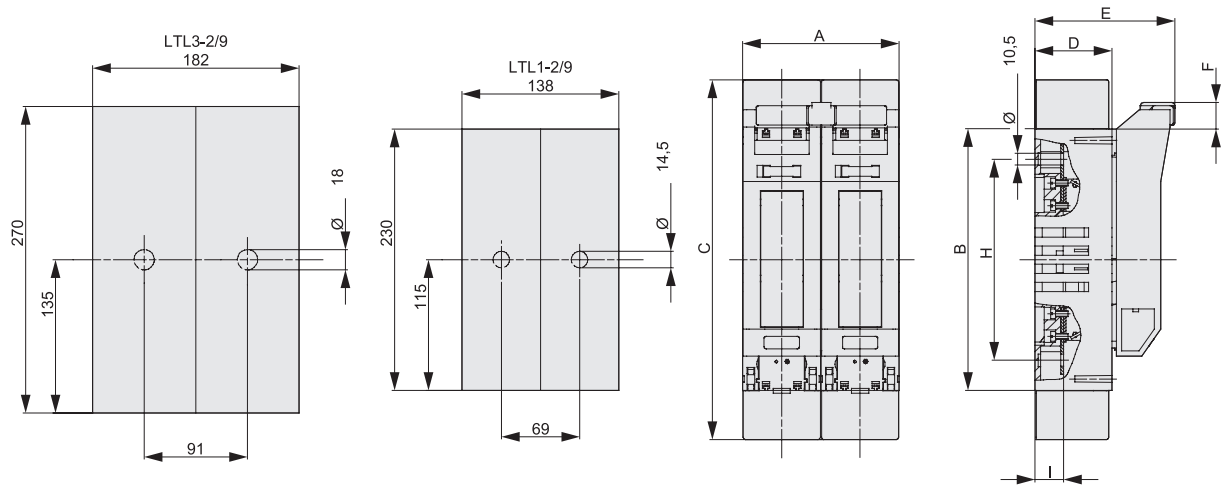
## LTL4A-1x/1250(1600)/8



## LTL00-2/9

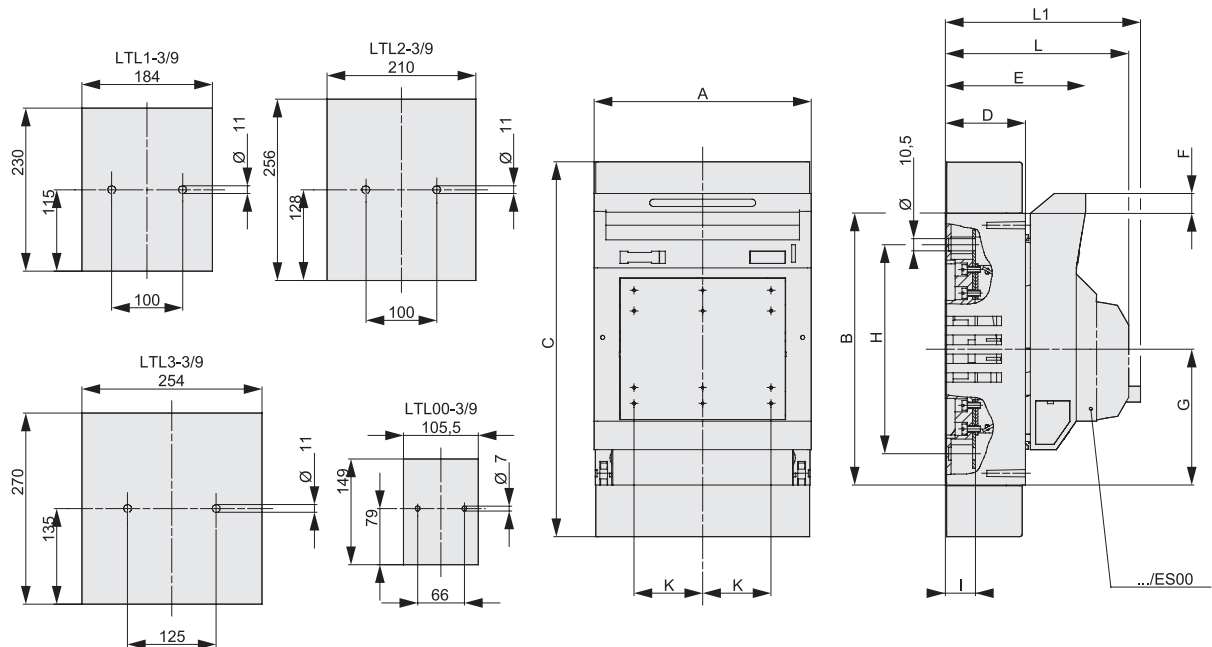


## LTL1-2/9, LTL3-2/9



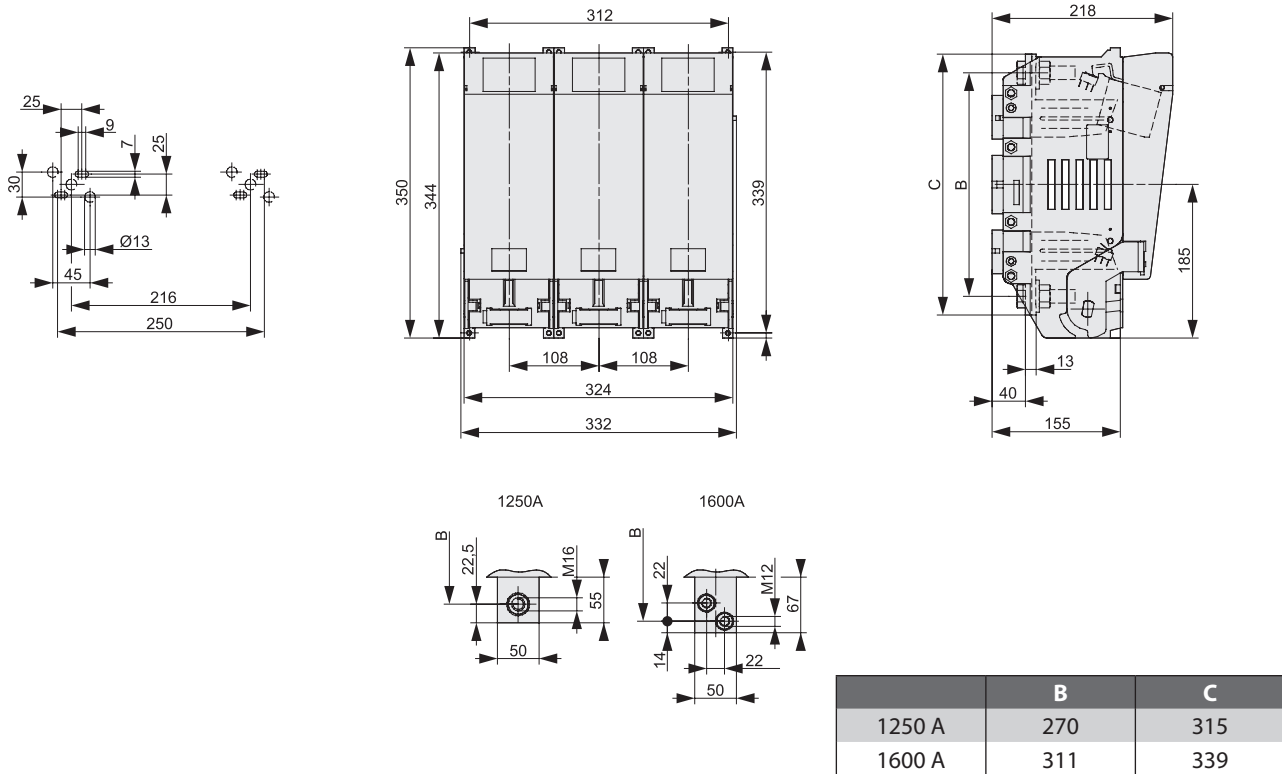
Type	A	B	C	D	E	F	G	H	I
LTL1-2/9	138	230	317	68	123,5	23	115	177	25
LTL3-2/9	182	270	430	96	151,5	15,5	135	220,5	30,5

## LTL...-3/9, LTL...-3/9/ES00

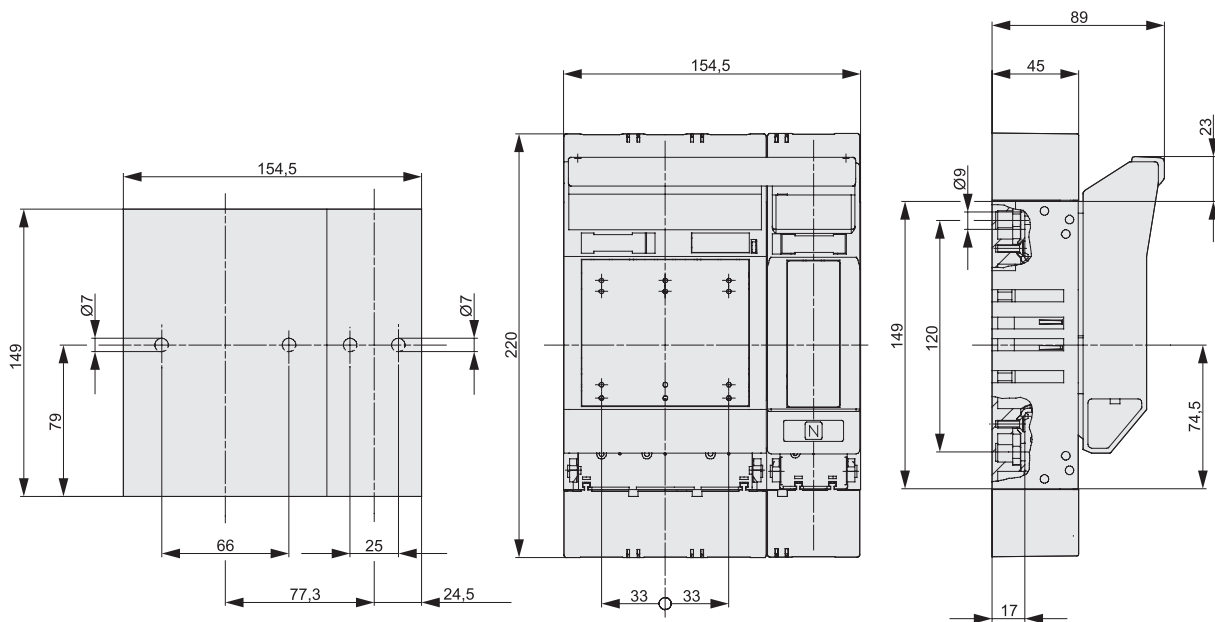


Type	A	B	C	D	E	F	G	H	I	K	L	L1
LTL00-3/9	105,5	149	220	45	86	20,5	74,5	120	17	33	116	126
LTL1-3/9	184	230	317	68	119	16,5	115	177	25	58	149	159
LTL2-3/9	210	256	397	81	133	16,5	128	205	25	66	163	173
LTL3-3/9	254	270	430	96	147	9	135	220,5	30,5	82	177	187

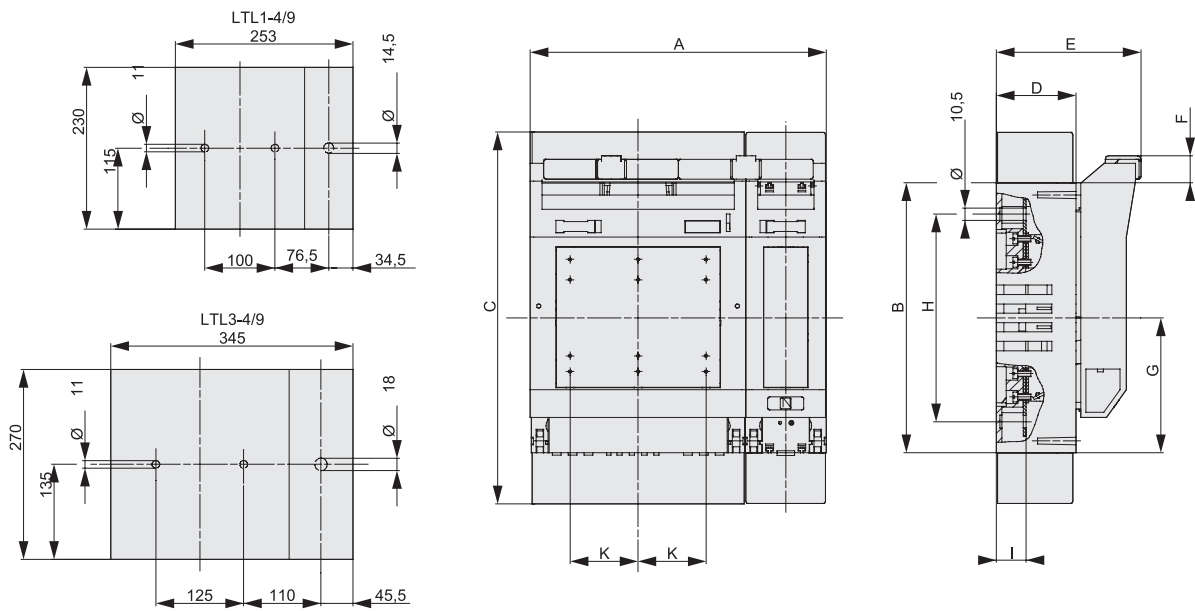
## LTL4A-3x(3)/.../8/(Q)



## LTL00-4/9

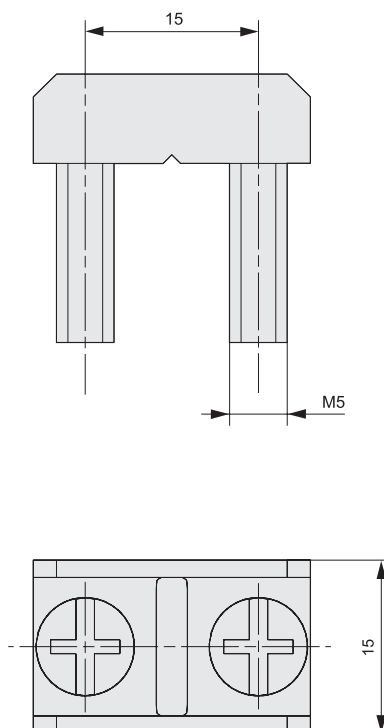


## LTL1-4/9, LTL3-4/9

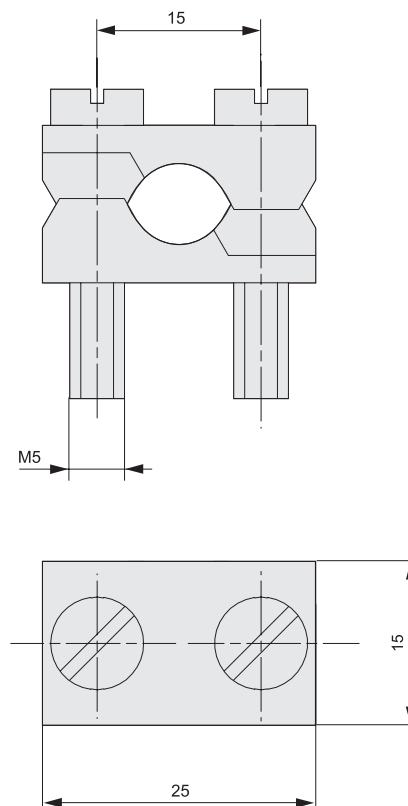


Type	A	B	C	D	E	F	G	H	I	K
LTL1-4/9	253	230	317	68	123,5	23	115	177	25	58
LTL3-4/9	345	270	430	96	151,5	15,5	135	220,5	30,5	82

## S00-Z

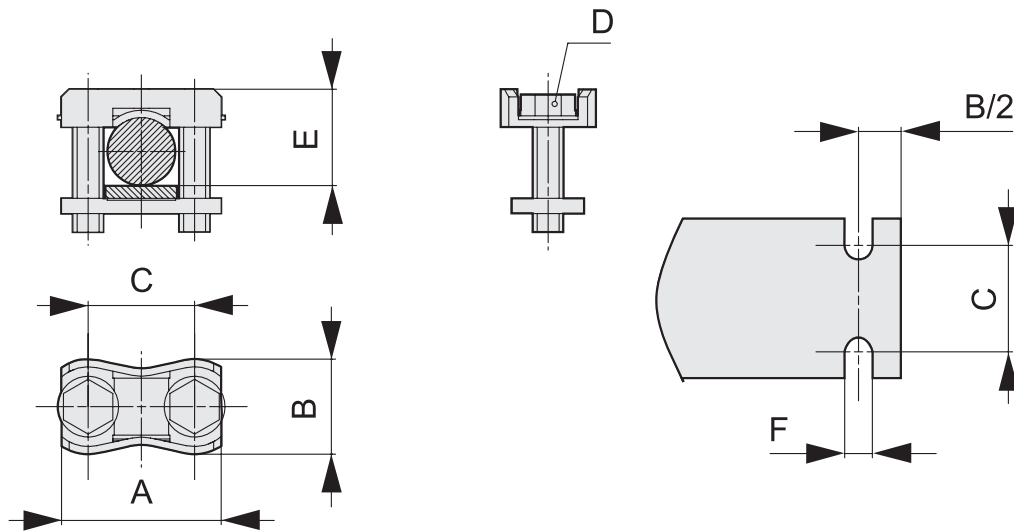


## P0070-Z



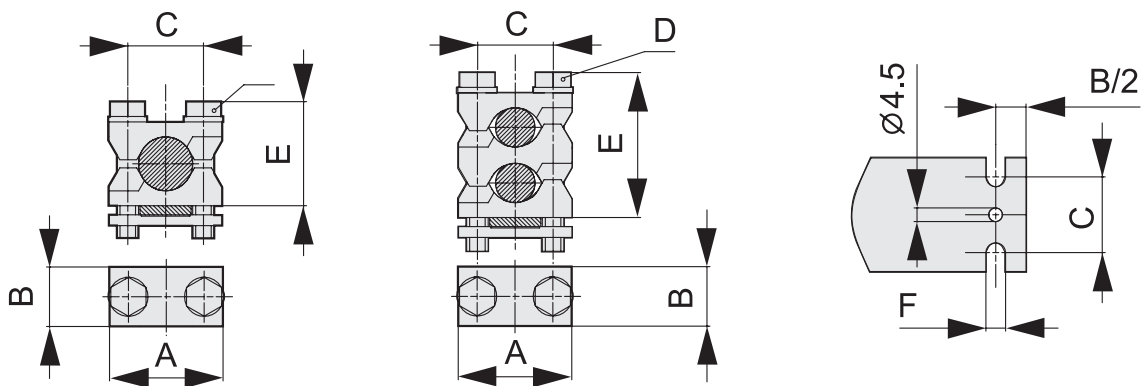


## S00, S1, S2, S3



Type	A	B	C	D	E	F
S00	25	15	15	M5	Max. 15	5,5
S1	37	20	25	M6	Max. 28	6,5
S2	42	22	28	M8	Max. 30	8,5
S3	50	25	30	M8	Max. 30	8,5

## P1, P2, P3, P12, P22, P32



Type	A	B	C	D	E	F
P0070	25	15	15	M5	Max. 25	5,5
P0095	29	15	18	M5	Max. 28	5,5
P1	37	20	25	M6	Max. 30	6,5
P12	37	20	25	M6	Max. 42	6,5
P2	42	22	28	M8	Max. 40	8,5
P22	42	22	28	M8	Max. 55	8,5
P3	50	25	30	M8	Max. 44	8,5
P32	50	25	30	M8	Max. 66	8,5