

# Main Switches



**Index**

**Page**



Main Switches for Panel Mounting  
Main Switches-Emergency-Stop for Single Hole Mounting

274  
275



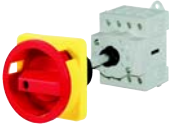
Main Switches for Base Mounting with Door Clutch

276



Main Switches-Emergency-Stop for Panel Mounting  
Main Switches-Emergency-Stop for Single Hole Mounting

280  
281



Main Switches-Emergency-Stop for Base Mounting  
with Door Clutch

282



Main Switches-Emergency-Stop for Distribution Boards

284



Maintenance and Safety Switches, in Plastic Enclosure

285



Switch Disconnectors for Panel Mounting

286



Switch Disconnectors for Single Hole Mounting

287



Switch Disconnectors for Base Mounting

287



Switch Disconnectors for Distribution Boards

289



Switch Disconnectors in Plastic Enclosure

290



Add-on modules

291



Technical Data

293



Dimensions

294

Contactor, Motor-Starters

Circuit Breakers

Manual Motor-Starters


Switches

AC-Main Switches

DC-Switch Disconnectors

Push Buttons

Representatives, Suppliers

Ratings								Panel mounting 4 hole mount. IP66	Single hole mount. Ø22,5mm IP66				
Type	Rated current			Motor			Plate Switch						
	Therm. I <sub>th open</sub> A	AC21 A	bei U <sub>e</sub> V	AC3 3~400V kW	AC23 3~400V A	AC23 3~400V kW	mm	EH4	EHN4	EHN1	Z	ZHN1	ZH1
LTS20	20	20	690	5,5	16	7,5	48□	LTS20 E <sup>1)</sup> ..			LTS20 Z <sup>1)</sup> ..		
LTS25	25	25	690	7,5	20	10	48□	LTS25 E <sup>1)</sup> ..			LTS25 Z <sup>1)</sup> ..		
LTS32	32	32	690	11	25	12,5	48□	LTS32 E <sup>1)</sup> ..			LTS32 Z <sup>1)</sup> ..		
LTS40	40	40	690	15	32	16	48□	LTS40 E <sup>1)</sup> ..			LTS40 Z <sup>1)</sup> ..		
LTS63	63	63	690	18,5	45	22	48□	LTS63 E <sup>1)</sup> ..			-		
LTS80	80	80	690	18,5	45	22	48□	LTS80 E <sup>1)</sup> ..			-		
LTS85	85	85	690	22	60	30	64□	LTS85 E <sup>1)</sup> ..			-		
LTS100	100	100	690	30	72	37	64□	LTS100 E <sup>1)</sup> ..			-		
LTS125	125	125	690	37	85	45	64□	LTS125 E <sup>1)</sup> ..			-		
LT160	160	160	690	45	110	55	88□	LT160 E <sup>1)</sup> ..			-		

### Switch disconnecter LT.. 20 - 160A

Switch disconnectors are to be used as an ON-OFF-switch where a high breaking capacity with high contact pressure and in fact better short circuit behavior is necessary. These applications are:

**Main switches** according to IEC/EN 60204 respectively VDE0113 with interlocking device, terminal protection and restrictive contacts.

**Switch disconnectors** according to IEC/EN 60947-3 and VDE 0660 part 107 with break distance for 690V.

**Motor switches** 3-pole or 4-pole; according to IEC/EN 60947-3 respectively VDE 0660 part 107, motor switches series LT are dimensioned for switching high rated current AC3 and AC23A.

### Switch program

On-Off Switch 3-pole	.. ...	A3
On-Off Switch 4-pole	.. ...	A4
On-Off Switch 6-pole	.. ...	A6
On-Off Switch 8-pole	.. ...	A8
Changeover Switches 3-pole	.. ...	U3
Changeover Switches 4-pole	.. ...	U4
On-Off Switch 3-pole	.. ...	T300 (for LT160)
On-Off Switch 4-pole	.. ...	T400 (for LT160)

### Main switches and Main switches with Emergency-Stop function

According to standards IEC/EN60204 or VDE0113, all electrical equipment of industrial machines must be equipped with a main switch. This must permit disconnection of all the electrical equipment during cleaning, maintenance and repair work, and other extended periods when it is stationary.

In case of two or more main switches, an interlock system must be used. It is recommended to use a multiple-pole main switch (cam switch).

**Main switches** have to correspond to:

- Switch disconnecter according to IEC/EN 60947-3 and VDE 0660 part 107 for utilization category AC23-B or DC-23B.
- Disconnectors are selected according to thermal rated current. They must possess a contact that ensures load switching via the contactors (see switching program A3-10). This contact must have a sufficient AC15 switching capacity.
- The interruption capacity of the switch must equal or exceed the locked rotor current of the largest motor plus the total current of all other electrical equipment in the circuit.

Requirements:

Interruption of the electrical equipment, with only on and off positions clearly marked with O and I.

It must be lockable in the off setting.

The line terminals of the switch must be protected according to utilization category IP2X.

Colour of handle black or grey.

**Main switches with Emergency-Off function** are additional supplied with red handles and contrasting yellow escutcheon plates.

1) Main Switches (H1/H4 Main Switches-Emergency-Stop (HN1/HN4))  
Switch Disconnectors (without H(N)1/4)

Base mounting with door coupling Handle Single hole mount. Ø22,5mm IP66		Base mounting with door coupling Panel mounting 4 hole mount. IP66		Modular switch IP40		Plastic enclosed IP66					
VZVH4	VZVHN4	VZVHN1	VH4	VHN4	VH1	SMA	SMAHN1	SMAH1	PF(L <sup>2</sup> )H4	PF(L <sup>2</sup> )HN4	PF(L <sup>2</sup> )
LTS20 VZV <sup>1)</sup> ..			LTS20 V <sup>1)</sup> ..			LTS20 SMA <sup>1)</sup> ..			LTS20 PF(L <sup>2</sup> ) <sup>1)</sup> ..		
LTS25 VZV <sup>1)</sup> ..			LTS25 V <sup>1)</sup> ..			LTS25 SMA <sup>1)</sup> ..			LTS25 PF(L <sup>2</sup> ) <sup>1)</sup> ..		
LTS32 VZV <sup>1)</sup> ..			LTS32 V <sup>1)</sup> ..			LTS32 SMA <sup>1)</sup> ..			LTS32 PF(L <sup>2</sup> ) <sup>1)</sup> ..		
LTS40 VZV <sup>1)</sup> ..			LTS40 V <sup>1)</sup> ..			LTS40 SMA <sup>1)</sup> ..			LTS40 PF(L <sup>2</sup> ) <sup>1)</sup> ..		
LTS63 VZV <sup>1)</sup> ..			LTS63 V <sup>1)</sup> ..			LTS63 SMA <sup>1)</sup> ..			LTS63 PFL <sup>1)</sup> ..		
LTS80 VZV <sup>1)</sup> ..			LTS80 V <sup>1)</sup> ..			LTS80 SMA <sup>1)</sup> ..			LTS80 PFL <sup>1)</sup> ..		
LTS85 VZV <sup>1)</sup> ..			LTS85 V <sup>1)</sup> ..			LTS85 SMA <sup>1)</sup> ..			LTS85 PFL <sup>1)</sup> ..		
LTS100 VZV <sup>1)</sup> ..			LTS100 V <sup>1)</sup> ..			LTS100 SMA <sup>1)</sup> ..			LTS100 PFL <sup>1)</sup> ..		
LTS125 VZV <sup>1)</sup> ..			LTS125 V <sup>1)</sup> ..			LTS125 SMA <sup>1)</sup> ..			LTS125 PFL <sup>1)</sup> ..		
-			LT160 V <sup>1)</sup> ..			-			LT160 PF <sup>1)</sup> .. <sup>3)</sup>		

**Approvals**

Area	USA, Canada / UL	Europe	Russia / EAC	CB/CCA-Certificates
Type				

**Lasttrennschalter** (UL-Listed as MANUAL MOTOR CONTROLLER and suitable as MOTOR DISCONNECT)

Model	USA	Europe	Russia	CB/CCA	Notes
LTS20	o	o	o	o	
LTS25	o	o	o	o	
LTS32	o	o	o	o	
LTS40	o	o	o	o	
LTS63	o	o	o	o	
LTS80	o	o	o	o	
LTS85	o	o	-	-	
LTS100	o	o	-	-	
LTS125	o	o	-	-	
LT160	o	o	-	o	





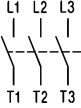





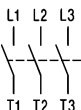

o in standard version approved  
/ No testing required CE  
x in test  
- Not provided for test til now

**Terminal screws**

Devices	Kind of connection		Tightening torque		Protection class of terminals <sup>4)</sup>	
	screw with clamp box	Screwdriver	Nm	lb. inch		
<b>Switch Disconnectors</b>						
LTS20, LTS25			Pz2	0,8 - 1,4	7 - 12	
LTS32, LTS40						M3,5
LTS63, LTS80						M5
LTS85, LTS100, LTS125						M6
LT160	M10			14	124	IP20

1) Main Switches (H1/H4 Main Switches-Emergency-Stop (HN1/HN4))  
Switch Disconnectors (without H(N)1/4)  
2) PFL... larger enclosure  
3) IP... Type..  
4) Protection degree of the terminals with connected insulated conductor. Additional protection with terminal cover (KLAD).

# Main Switches for Panel Mounting, lockable IP66, Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV1</b>  		20A	<b>7,5kW</b>	48 □ <sup>1)</sup>	LTS20 EH1 A3	1	0,15
		25A	<b>10kW</b>	48 □ <sup>1)</sup>	LTS25 EH1 A3	1	0,15
		32A	<b>12,5kW</b>	48 □ <sup>1)</sup>	LTS32 EH1 A3	1	0,15
		40A	<b>16kW</b>	48 □ <sup>1)</sup>	LTS40 EH1 A3	1	0,15
		63A	<b>22kW</b>	48 □ <sup>1)</sup>	LTS63 EH1 A3	1	0,17
		80A	<b>22kW</b>	48 □ <sup>1)</sup>	LTS80 EH1 A3	1	0,17
		<b>4-pole, padlock device SV1</b>  		20A	<b>7,5kW</b>	48 □ <sup>1)</sup>	LTS20 EH1 A4
25A	<b>10kW</b>			48 □ <sup>1)</sup>	LTS25 EH1 A4	1	0,19
32A	<b>12,5kW</b>			48 □ <sup>1)</sup>	LTS32 EH1 A4	1	0,19
40A	<b>16kW</b>			48 □ <sup>1)</sup>	LTS40 EH1 A4	1	0,19
63A	<b>22kW</b>			48 □ <sup>1)</sup>	LTS63 EH1 A4	1	0,21
80A	<b>22kW</b>			48 □ <sup>1)</sup>	LTS80 EH1 A4	1	0,21
<b>3-pole, padlock device SV4(34)</b>  				20A	<b>7,5kW</b>	64 □ <sup>2)</sup>	LTS20 EH4 A3
		25A	<b>10kW</b>	64 □ <sup>2)</sup>	LTS25 EH4 A3	1	0,17
		32A	<b>12,5kW</b>	64 □ <sup>2)</sup>	LTS32 EH4 A3	1	0,17
		40A	<b>16kW</b>	64 □ <sup>2)</sup>	LTS40 EH4 A3	1	0,17
		63A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS63 EH4 A3	1	0,19
		80A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS80 EH4 A3	1	0,19
		80A	<b>30kW</b>	64 □ <sup>2)</sup>	LTS85 EH4 A3	1	0,39
		100A	<b>37kW</b>	64 □ <sup>2)</sup>	LTS100 EH4 A3	1	0,39
		125A	<b>45kW</b>	64 □ <sup>2)</sup>	LTS125 EH4 A3	1	0,39
		160A	<b>55kW</b>	88 □	LT160 EH34 T300	1	1,16
<b>4-pole, padlock device SV4(34)</b>  		20A	<b>7,5kW</b>	64 □ <sup>2)</sup>	LTS20 EH4 A4	1	0,20
		25A	<b>10kW</b>	64 □ <sup>2)</sup>	LTS25 EH4 A4	1	0,20
		32A	<b>12,5kW</b>	64 □ <sup>2)</sup>	LTS32 EH4 A4	1	0,20
		40A	<b>16kW</b>	64 □ <sup>2)</sup>	LTS40 EH4 A4	1	0,20
		63A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS63 EH4 A4	1	0,23
		80A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS80 EH4 A4	1	0,23
		80A	<b>30kW</b>	64 □ <sup>2)</sup>	LTS85 EH4 A4	1	0,44
		100A	<b>37kW</b>	64 □ <sup>2)</sup>	LTS100 EH4 A4	1	0,44
		125A	<b>45kW</b>	64 □ <sup>2)</sup>	LTS125 EH4 A4	1	0,44
		160A	<b>55kW</b>	88 □	LT160 EH34 T400	1	1,55




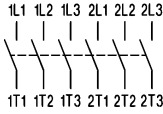



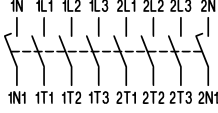
**Add-on modules** see page291

**Extended Switch Shaft for switches for panel mounting** type suffix **+VV"x"** x = panel thickness




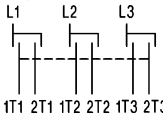



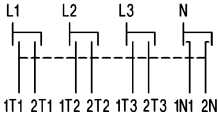
1) Types with padlock device 64 □ type suffix **64**, ordering example: LTS32 EH**164** A3, on request

2) Types with padlock device 88 □ type suffix **88**, ordering example: LTS32 EH**488** A3, on request




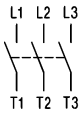



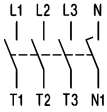
## Main Switches for Panel Mounting, lockable IP66, Type 1

		max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>6-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EH4 A6	1	0,30
			25A	<b>10kW</b>	64 □	LTS25 EH4 A6	1	0,30
			32A	<b>12,5kW</b>	64 □	LTS32 EH4 A6	1	0,30
			40A	<b>16kW</b>	64 □	LTS40 EH4 A6	1	0,30
			63A	<b>22kW</b>	64 □	LTS63 EH4 A6	1	0,34
			80A	<b>22kW</b>	64 □	LTS80 EH4 A6	1	0,34
<b>8-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EH4 A8	1	0,38
			25A	<b>10kW</b>	64 □	LTS25 EH4 A8	1	0,38
			32A	<b>12,5kW</b>	64 □	LTS32 EH4 A8	1	0,38
			40A	<b>16kW</b>	64 □	LTS40 EH4 A8	1	0,38
			63A	<b>22kW</b>	64 □	LTS63 EH4 A8	1	0,42
			80A	<b>22kW</b>	64 □	LTS80 EH4 A8	1	0,42

## Changeover Switches with padlockdevice for Panel Mounting, lockable IP66


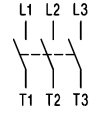

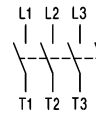

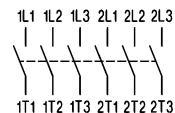

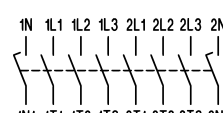
<b>3-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EH4 U3	1	0,30
			25A	<b>10kW</b>	64 □	LTS25 EH4 U3	1	0,30
			32A	<b>12,5kW</b>	64 □	LTS32 EH4 U3	1	0,30
			40A	<b>16kW</b>	64 □	LTS40 EH4 U3	1	0,30
			63A	<b>22kW</b>	64 □	LTS63 EH4 U3	1	0,34
<b>4-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EH4 U4	1	0,38
			25A	<b>10kW</b>	64 □	LTS25 EH4 U4	1	0,38
			32A	<b>12,5kW</b>	64 □	LTS32 EH4 U4	1	0,38
			40A	<b>16kW</b>	64 □	LTS40 EH4 U4	1	0,38
			63A	<b>22kW</b>	64 □	LTS63 EH4 U4	1	0,42

## Main Switches for Single Hole Mounting IP66, Type 1

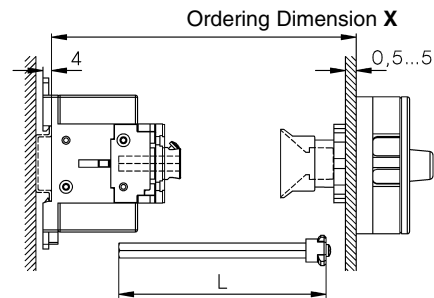
<b>3-pole, padlock device SV1</b> 								
			20A	<b>7,5kW</b>	48 □	LTS20 ZH1 A3	1	0,16
			25A	<b>10kW</b>	48 □	LTS25 ZH1 A3	1	0,16
			32A	<b>12,5kW</b>	48 □	LTS32 ZH1 A3	1	0,16
			40A	<b>16kW</b>	48 □	LTS40 ZH1 A3	1	0,16
<b>4-pole, padlock device SV1</b> 								
			20A	<b>7,5kW</b>	48 □	LTS20 ZH1 A4	1	0,20
			25A	<b>10kW</b>	48 □	LTS25 ZH1 A4	1	0,20
			32A	<b>12,5kW</b>	48 □	LTS32 ZH1 A4	1	0,20
			40A	<b>16kW</b>	48 □	LTS40 ZH1 A4	1	0,20

Add-on modules see page 291

Main Switches, Base Mounting with Door Clutch for Single-Hole Mounting  
 Depth X is adjustable (delivered with X<sub>max</sub> see below), IP66, cUL<sub>us</sub> Type 1

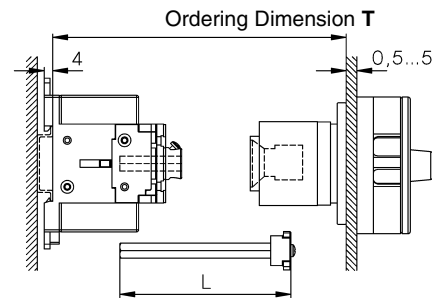
	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 VZVH4 A3	1	0,19
		25A	<b>10kW</b>	64 □	LTS25 VZVH4 A3	1	0,19
		32A	<b>12,5kW</b>	64 □	LTS32 VZVH4 A3	1	0,19
		40A	<b>16kW</b>	64 □	LTS40 VZVH4 A3	1	0,19
		63A	<b>22kW</b>	64 □	LTS63 VZVH4 A3	1	0,22
		80A	<b>22kW</b>	64 □	LTS80 VZVH4 A3	1	0,22
		85A	<b>30kW</b>	64 □	LTS85 VZVH4 A3	1	0,40
		100A	<b>37kW</b>	64 □	LTS100 VZVH4 A3	1	0,40
		125A	<b>45kW</b>	64 □	LTS125 VZVH4 A3	1	0,40
							
<b>4-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 VZVH4 A4	1	0,20
		25A	<b>10kW</b>	64 □	LTS25 VZVH4 A4	1	0,20
		32A	<b>12,5kW</b>	64 □	LTS32 VZVH4 A4	1	0,20
		40A	<b>16kW</b>	64 □	LTS40 VZVH4 A4	1	0,20
		63A	<b>22kW</b>	64 □	LTS63 VZVH4 A4	1	0,26
		80A	<b>22kW</b>	64 □	LTS80 VZVH4 A4	1	0,26
		85A	<b>30kW</b>	64 □	LTS85 VZVH4 A4	1	0,45
		100A	<b>37kW</b>	64 □	LTS100 VZVH4 A4	1	0,45
		125A	<b>45kW</b>	64 □	LTS125 VZVH4 A4	1	0,45
							
<b>6-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 VZVH4 A6	1	0,32
		25A	<b>10kW</b>	64 □	LTS25 VZVH4 A6	1	0,32
		32A	<b>12,5kW</b>	64 □	LTS32 VZVH4 A6	1	0,32
		40A	<b>16kW</b>	64 □	LTS40 VZVH4 A6	1	0,32
		63A	<b>22kW</b>	64 □	LTS63 VZVH4 A6	1	0,37
		80A	<b>22kW</b>	64 □	LTS80 VZVH4 A6	1	0,37
							
<b>8-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 VZVH4 A8	1	0,34
		25A	<b>10kW</b>	64 □	LTS25 VZVH4 A8	1	0,34
		32A	<b>12,5kW</b>	64 □	LTS32 VZVH4 A8	1	0,34
		40A	<b>16kW</b>	64 □	LTS40 VZVH4 A8	1	0,34
		63A	<b>22kW</b>	64 □	LTS63 VZVH4 A8	1	0,45
		80A	<b>22kW</b>	64 □	LTS80 VZVH4 A8	1	0,45
							

**Depth**  
 Single Hole Mounting Ø22mm  
 LTS.. VZV..



Type	X min	X max	L
LTS20-80 VZV.. 3, 4-polig	91 -	190	<b>X - 40±3</b>
LTS20-80 VZV.. 6, 8-polig	111 -	190	<b>X - 60±3</b>
LTS85-125 VZV.. 3, 4-polig	95-	190	<b>X - 44±3</b>



**4-Hole Mounting**  
 LTS.. V(H).. (3, 4-polig)


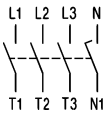


Type	T min	T max	L	Type	T min	T max
LTS20-80 VH..	111 -	190	<b>T - 60±3</b>	LT160 VH..	120 -	450
LTS85-125 VH..	115 -	190	<b>T - 64±3</b>			


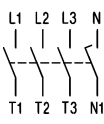
greater X- and T-Dimensions (max. 380mm for LTS..) on request

Main Switches, Base Mounting with Door Clutch, Padlock Device for Four-Hole Mounting  
 Depth T is adjustable (delivered with T<sub>max</sub> see page 267), IP66, cUL<sub>us</sub> Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs	
<b>3-pole, padlock device SV4(34)</b>  								
			20A	<b>7,5kW</b>	64 □ <sup>1)</sup>	LTS20 VH4 A3	1	0,20
			25A	<b>10kW</b>	64 □ <sup>1)</sup>	LTS25 VH4 A3	1	0,20
			32A	<b>12,5kW</b>	64 □ <sup>1)</sup>	LTS32 VH4 A3	1	0,20
			40A	<b>16kW</b>	64 □ <sup>1)</sup>	LTS40 VH4 A3	1	0,20
			63A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS63 VH4 A3	1	0,24
			80A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS80 VH4 A3	1	0,24
			85A	<b>30kW</b>	64 □ <sup>1)</sup>	LTS85 VH4 A3	1	0,40
			100A	<b>37kW</b>	64 □ <sup>1)</sup>	LTS100 VH4 A3	1	0,40
			125A	<b>45kW</b>	64 □ <sup>1)</sup>	LTS125 VH4 A3	1	0,40
		160A	<b>55kW</b>	88 □	LT160 VH34 T300	1	1,38	

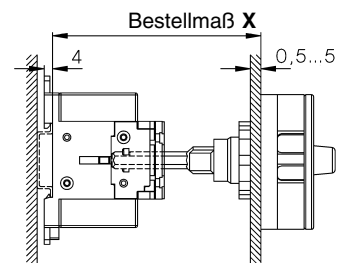
<b>4-pole, padlock device SV4(34)</b>  			20A	<b>7,5kW</b>	64 □ <sup>1)</sup>	LTS20 VH4 A4	1	0,21
			25A	<b>10kW</b>	64 □ <sup>1)</sup>	LTS25 VH4 A4	1	0,21
			32A	<b>12,5kW</b>	64 □ <sup>1)</sup>	LTS32 VH4 A4	1	0,21
			40A	<b>16kW</b>	64 □ <sup>1)</sup>	LTS40 VH4 A4	1	0,21
			63A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS63 VH4 A4	1	0,28
			80A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS80 VH4 A4	1	0,28
			85A	<b>30kW</b>	64 □ <sup>1)</sup>	LTS85 VH4 A4	1	0,45
			100A	<b>37kW</b>	64 □ <sup>1)</sup>	LTS100 VH4 A4	1	0,45
			125A	<b>45kW</b>	64 □ <sup>1)</sup>	LTS125 VH4 A4	1	0,45
			160A	<b>55kW</b>	88 □	LT160 VH34 T400	1	1,77

Emergency-Stop-Main Switches, Base Mounting with Door Clutch for Single-Hole Mounting  
 Depth X is not adjustable, declare depth X when ordering, IP66, cUL<sub>us</sub> Type 1

<b>4-pole, padlock device SV4</b>  			20A	<b>7,5kW</b>	64 □	LTS20 VZH4 A4 X..	1	0,18
			25A	<b>10kW</b>	64 □	LTS25 VZH4 A4 X..	1	0,18
			32A	<b>12,5kW</b>	64 □	LTS32 VZH4 A4 X..	1	0,18
			40A	<b>16kW</b>	64 □	LTS40 VZH4 A4 X..	1	0,18
			63A	<b>22kW</b>	64 □	LTS63 VZH4 A4 X..	1	0,25
			80A	<b>22kW</b>	64 □	LTS80 VZH4 A4 X..	1	0,25

Declare depth X when ordering

Type	Preference values for X
LT.. VZH..	80, 85, 104, 129 (tolerance -3, +1,5)



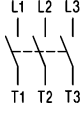




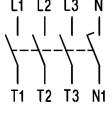
Add-on modules see page 291



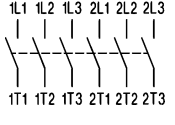
1) Types with padlock device 88 type suffix **88**, ordering example: LTS32 VHN**488** A3, on request



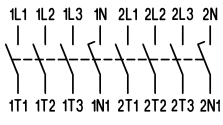


# Main Switches for Distribution Boards, lockable IP40, Type 1



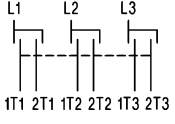
	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV1</b> 							
		20A	<b>7,5kW</b>	52x45	LTS20 SMAH1 A3 <sup>2)</sup>	1	0,15
		25A	<b>10kW</b>	52x45	LTS25 SMAH1 A3 <sup>2)</sup>	1	0,15
		32A	<b>12,5kW</b>	52x45	LTS32 SMAH1 A3 <sup>2)</sup>	1	0,15
		40A	<b>16kW</b>	52x45	LTS40 SMAH1 A3 <sup>2)</sup>	1	0,15
		63A	<b>22kW</b>	52x45	LTS63 SMAH1 A3 <sup>2)</sup>	1	0,18
		80A	<b>22kW</b>	52x45	LTS80 SMAH1 A3 <sup>2)</sup>	1	0,18
		85A	<b>30kW</b>	78x45	LTS85 SMAH1 A3	1	0,37
100A	<b>37kW</b>	78x45	LTS100 SMAH1 A3	1	0,37		
125A	<b>45kW</b>	78x45	LTS125 SMAH1 A3	1	0,37		



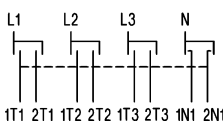
<b>4-pole, padlock device SV1</b> 							
		20A	<b>7,5kW</b>	52x45	LTS20 SMAH1 A4 <sup>2)</sup>	1	0,16
		25A	<b>10kW</b>	52x45	LTS25 SMAH1 A4 <sup>2)</sup>	1	0,16
		32A	<b>12,5kW</b>	52x45	LTS32 SMAH1 A4 <sup>2)</sup>	1	0,16
		40A	<b>16kW</b>	52x45	LTS40 SMAH1 A4 <sup>2)</sup>	1	0,16
		63A	<b>22kW</b>	52x45	LTS63 SMAH1 A4 <sup>2)</sup>	1	0,21
		80A	<b>22kW</b>	52x45	LTS80 SMAH1 A4 <sup>2)</sup>	1	0,21
		85A	<b>30kW</b>	78x45	LTS85 SMAH1 A4	1	0,42
100A	<b>37kW</b>	78x45	LTS100 SMAH1 A4	1	0,42		
125A	<b>45kW</b>	78x45	LTS125 SMAH1 A4	1	0,42		

<b>6-pole, padlock device SV1(64)</b> 							
		20A	<b>7,5kW</b>	52x45	LTS20 SMAH1 A6	1	0,29
		25A	<b>10kW</b>	52x45	LTS25 SMAH1 A6	1	0,29
		32A	<b>12,5kW</b>	52x45	LTS32 SMAH1 A6	1	0,29
		40A	<b>16kW</b>	52x45	LTS40 SMAH1 A6	1	0,29
		63A	<b>22kW</b>	97x45	LTS63 SMAH1 A6 <sup>1)</sup>	1	0,34
80A	<b>22kW</b>	97x45	LTS80 SMAH1 A6 <sup>1)</sup>	1	0,34		

<b>8-pole, padlock device SV1164</b> 							
		20A	<b>7,5kW</b>	97x45	LTS20 SMAH1 A8	1	0,31
		25A	<b>10kW</b>	97x45	LTS25 SMAH1 A8	1	0,31
		32A	<b>12,5kW</b>	97x45	LTS32 SMAH1 A8	1	0,31
		40A	<b>16kW</b>	97x45	LTS40 SMAH1 A8	1	0,31
		63A	<b>22kW</b>	126x45	LTS63 SMAH1 A8	1	0,42
80A	<b>22kW</b>	126x45	LTS80 SMAH1 A8	1	0,42		

## Changeover Switch with Padlock Device for Distribution Boards, lockable

<b>3-pole, padlock device SV164</b> 							
		20A	<b>7,5kW</b>	97x45	LTS20 SMAH1 U3	1	0,29
		25A	<b>10kW</b>	97x45	LTS25 SMAH1 U3	1	0,29
		32A	<b>12,5kW</b>	97x45	LTS32 SMAH1 U3	1	0,29
		40A	<b>16kW</b>	97x45	LTS40 SMAH1 U3	1	0,29
63A	<b>22kW</b>	97x45	LTS63 SMAH1 U3	1	0,34		





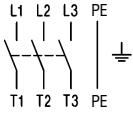





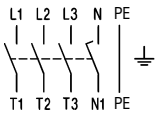







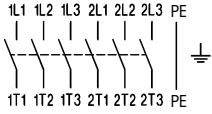









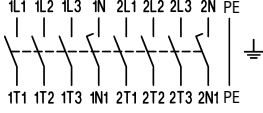




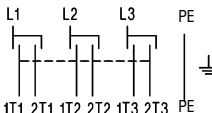





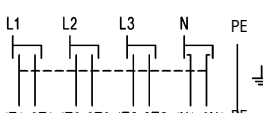
<b>4-pole, padlock device SV164</b> 							
		20A	<b>7,5kW</b>	97x45	LTS20 SMAH1 U4	1	0,31
		25A	<b>10kW</b>	97x45	LTS25 SMAH1 U4	1	0,31
		32A	<b>12,5kW</b>	97x45	LTS32 SMAH1 U4	1	0,31
		40A	<b>16kW</b>	97x45	LTS40 SMAH1 U4	1	0,31
63A	<b>22kW</b>	126x45	LTS63 SMAH1 U4	1	0,42		

1) With padlock device SV164

2) Emergency-Stop-Main Switches for Distribution Boards, lockable with low height handle, IP40









Type with Type-suffix „+SV1N“ e.g.: **LTS40 SMAHN1 A3 +SV1N**

# Maintenance and Safety Switches, in Plastic Enclosure, lockable IP66, Type 4X

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs		
<b>3-pole, padlock device SV4(34)</b>   									
		20A	<b>7,5kW</b>	64	LTS20 PF(L <sup>1</sup> )H4 A3	1	0,32		
		25A	<b>10kW</b>	64	LTS25 PF(L <sup>1</sup> )H4 A3	1	0,32		
		32A	<b>12,5kW</b>	64	LTS32 PF(L <sup>1</sup> )H4 A3	1	0,32		
		40A	<b>16kW</b>	64	LTS40 PF(L <sup>1</sup> )H4 A3	1	0,32		
		63A	<b>22kW</b>	64	LTS63 PFLH4 A3	1	0,60		
		80A	<b>22kW</b>	64	LTS80 PFLH4 A3	1	0,60		
		85A	<b>30kW</b>	64	LTS85 PFLH4 A3	1	0,78		
		100A	<b>37kW</b>	64	LTS100 PFLH4 A3	1	0,78		
Larger enclosure Type: ..PFL..	125A	<b>45kW</b>	64	LTS125 PFLH4 A3	1	0,78			
	160A	<b>55kW</b>	88	LT160 PFH34 T300	1	2,09			
<b>4-pole, padlock device SV4(34)</b>    									
		20A	<b>7,5kW</b>	64	LTS20 PF(L <sup>1</sup> )H4 A4	1	0,33		
		25A	<b>10kW</b>	64	LTS25 PF(L <sup>1</sup> )H4 A4	1	0,33		
		32A	<b>12,5kW</b>	64	LTS32 PF(L <sup>1</sup> )H4 A4	1	0,33		
		40A	<b>16kW</b>	64	LTS40 PF(L <sup>1</sup> )H4 A4	1	0,33		
		63A	<b>22kW</b>	64	LTS63 PFLH4 A4	1	0,64		
		80A	<b>22kW</b>	64	LTS80 PFLH4 A4	1	0,64		
		85A	<b>30kW</b>	64	LTS85 PFLH4 A4	1	0,83		
		100A	<b>37kW</b>	64	LTS100 PFLH4 A4	1	0,83		
Larger enclosure Type appendix +PF3	125A	<b>45kW</b>	64	LTS125 PFLH4 A4	1	0,83			
+PF3/M50	160A	<b>55kW</b>	88	LT160 PFH34 T400	1	2,47			
<b>6-polig, Sperrvorrichtung SV4</b>      									
		20A	<b>7,5kW</b>	64	LTS20 PFLH4 A6	1	1,39		
		25A	<b>10kW</b>	64	LTS25 PFLH4 A6	1	1,39		
		32A	<b>12,5kW</b>	64	LTS32 PFLH4 A6	1	1,39		
		40A	<b>16kW</b>	64	LTS40 PFLH4 A6	1	1,39		
		63A	<b>22kW</b>	64	LTS63 PFLH4 A6	1	1,42		
		80A	<b>22kW</b>	64	LTS80 PFLH4 A6	1	1,42		
		knockoutlets M50/40 +PF3/M50	on request						
		<b>8-polig, Sperrvorrichtung SV4</b>        							
		20A	<b>7,5kW</b>	64	LTS20 PFLH4 A8	1	1,44		
		25A	<b>10kW</b>	64	LTS25 PFLH4 A8	1	1,44		
		32A	<b>12,5kW</b>	64	LTS32 PFLH4 A8	1	1,44		
		40A	<b>16kW</b>	64	LTS40 PFLH4 A8	1	1,44		
		63A	<b>22kW</b>	64	LTS63 PFLH4 A8	1	1,50		
		80A	<b>22kW</b>	64	LTS80 PFLH4 A8	1	1,50		
		knockoutlets M50/40 +PF3/M50	on request						
		<b>Changeover Switch with Padlock Device, lockable</b>							
<b>3-pole, padlock device SV4</b>   									
		20A	<b>7,5kW</b>	64	LTS20 PFLH4 U3	1	1,39		
		25A	<b>10kW</b>	64	LTS25 PFLH4 U3	1	1,39		
		32A	<b>12,5kW</b>	64	LTS32 PFLH4 U3	1	1,39		
		40A	<b>16kW</b>	64	LTS40 PFLH4 U3	1	1,39		
		63A	<b>22kW</b>	64	LTS63 PFLH4 U3	1	1,42		
		80A	<b>22kW</b>	64	LTS80 PFLH4 U3	1	1,42		
		<b>4-pole, padlock device SV4</b>    							
				20A	<b>7,5kW</b>	64	LTS20 PFLH4 U4	1	1,44
25A	<b>10kW</b>			64	LTS25 PFLH4 U4	1	1,44		
32A	<b>12,5kW</b>			64	LTS32 PFLH4 U4	1	1,44		
40A	<b>16kW</b>			64	LTS40 PFLH4 U4	1	1,44		
63A	<b>22kW</b>			64	LTS63 PFLH4 U4	1	1,50		
80A	<b>22kW</b>			64	LTS80 PFLH4 U4	1	1,50		

1) PFL.... larger enclosure

# Emergency-Stop-Main Switches for Panel Mounting, lockable IP66, Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV1</b> 							
		20A	<b>7,5kW</b>	48 □ <sup>1)</sup>	LTS20 EHN1 A3	1	0,15
		25A	<b>10kW</b>	48 □ <sup>1)</sup>	LTS25 EHN1 A3	1	0,15
		32A	<b>12,5kW</b>	48 □ <sup>1)</sup>	LTS32 EHN1 A3	1	0,15
		40A	<b>16kW</b>	48 □ <sup>1)</sup>	LTS40 EHN1 A3	1	0,15
		63A	<b>22kW</b>	48 □ <sup>1)</sup>	LTS63 EHN1 A3	1	0,17
		80A	<b>22kW</b>	48 □ <sup>1)</sup>	LTS80 EHN1 A3	1	0,17
<b>4-pole, padlock device SV1</b> 							
		20A	<b>7,5kW</b>	48 □ <sup>1)</sup>	LTS20 EHN1 A4	1	0,19
		25A	<b>10kW</b>	48 □ <sup>1)</sup>	LTS25 EHN1 A4	1	0,19
		32A	<b>12,5kW</b>	48 □ <sup>1)</sup>	LTS32 EHN1 A4	1	0,19
		40A	<b>16kW</b>	48 □ <sup>1)</sup>	LTS40 EHN1 A4	1	0,19
		63A	<b>22kW</b>	48 □ <sup>1)</sup>	LTS63 EHN1 A4	1	0,21
		80A	<b>22kW</b>	48 □ <sup>1)</sup>	LTS80 EHN1 A4	1	0,21
<b>3-pole, padlock device SV4(34)</b> 							
		20A	<b>7,5kW</b>	64 □ <sup>2)</sup>	LTS20 EHN4 A3	1	0,17
		25A	<b>10kW</b>	64 □ <sup>2)</sup>	LTS25 EHN4 A3	1	0,17
		32A	<b>12,5kW</b>	64 □ <sup>2)</sup>	LTS32 EHN4 A3	1	0,17
		40A	<b>16kW</b>	64 □ <sup>2)</sup>	LTS40 EHN4 A3	1	0,17
		63A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS63 EHN4 A3	1	0,19
		80A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS80 EHN4 A3	1	0,19
		85A	<b>30kW</b>	64 □ <sup>2)</sup>	LTS85 EHN4 A3	1	0,39
		100A	<b>37kW</b>	64 □ <sup>2)</sup>	LTS100 EHN4 A3	1	0,39
		125A	<b>45kW</b>	64 □ <sup>2)</sup>	LTS125 EHN4 A3	1	0,39
		160A	<b>55kW</b>	88 □	LT160 EHN34 T300	1	1,16
<b>4-pole, padlock device SV4(34)</b> 							
		20A	<b>7,5kW</b>	64 □ <sup>2)</sup>	LTS20 EHN4 A4	1	0,20
		25A	<b>10kW</b>	64 □ <sup>2)</sup>	LTS25 EHN4 A4	1	0,20
		32A	<b>12,5kW</b>	64 □ <sup>2)</sup>	LTS32 EHN4 A4	1	0,20
		40A	<b>16kW</b>	64 □ <sup>2)</sup>	LTS40 EHN4 A4	1	0,20
		63A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS63 EHN4 A4	1	0,23
		80A	<b>22kW</b>	64 □ <sup>2)</sup>	LTS80 EHN4 A4	1	0,23
		85A	<b>30kW</b>	64 □ <sup>2)</sup>	LTS85 EHN4 A4	1	0,44
		100A	<b>37kW</b>	64 □ <sup>2)</sup>	LTS100 EHN4 A4	1	0,44
		125A	<b>45kW</b>	64 □ <sup>2)</sup>	LTS125 EHN4 A4	1	0,44
		160A	<b>55kW</b>	88 □	LT160 EHN34 T400	1	1,55




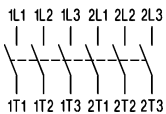



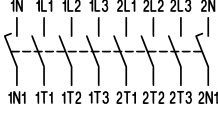
**Add-on modules** see page

**Extended Switch Shaft for switches for panel mounting** type suffix **+VV"x"** x = panel thickness




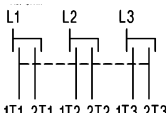



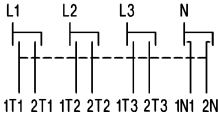
1) Types with padlock device 64 type suffix **64**, ordering example: LTS32 EHN**164** A3, on request

2) Types with padlock device 88 type suffix **88**, ordering example: LTS32 EHN**488** A3, on request




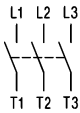



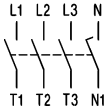
## Emergency-Stop-Main Switches for Panel Mounting, lockable IP66, cUL<sub>us</sub> Type 1

		max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>6-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EHN4 A6	1	0,30
			25A	<b>10kW</b>	64 □	LTS25 EHN4 A6	1	0,30
			32A	<b>12,5kW</b>	64 □	LTS32 EHN4 A6	1	0,30
			40A	<b>16kW</b>	64 □	LTS40 EHN4 A6	1	0,30
			63A	<b>22kW</b>	64 □	LTS63 EHN4 A6	1	0,34
			80A	<b>22kW</b>	64 □	LTS80 EHN4 A6	1	0,34
<b>8-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EHN4 A8	1	0,38
			25A	<b>10kW</b>	64 □	LTS25 EHN4 A8	1	0,38
			32A	<b>12,5kW</b>	64 □	LTS32 EHN4 A8	1	0,38
			40A	<b>16kW</b>	64 □	LTS40 EHN4 A8	1	0,38
			63A	<b>22kW</b>	64 □	LTS63 EHN4 A8	1	0,42
			80A	<b>22kW</b>	64 □	LTS80 EHN4 A8	1	0,42

## Changeover Switch with Padlock Device for Panel Mounting, lockable IP66


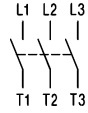

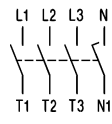

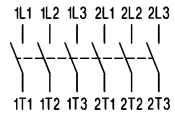
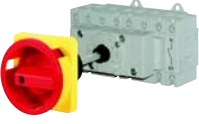
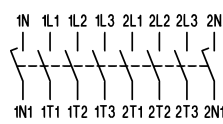
<b>3-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EHN4 U3	1	0,30
			25A	<b>10kW</b>	64 □	LTS25 EHN4 U3	1	0,30
			32A	<b>12,5kW</b>	64 □	LTS32 EHN4 U3	1	0,30
			40A	<b>16kW</b>	64 □	LTS40 EHN4 U3	1	0,30
			63A	<b>22kW</b>	64 □	LTS63 EHN4 U3	1	0,34
<b>4-pole, padlock device SV4</b> 								
			20A	<b>7,5kW</b>	64 □	LTS20 EHN4 U4	1	0,38
			25A	<b>10kW</b>	64 □	LTS25 EHN4 U4	1	0,38
			32A	<b>12,5kW</b>	64 □	LTS32 EHN4 U4	1	0,38
			40A	<b>16kW</b>	64 □	LTS40 EHN4 U4	1	0,38
			63A	<b>22kW</b>	64 □	LTS63 EHN4 U4	1	0,42

## Main Switches Emergency-Stop for Single Hole Mounting, lockable IP66 cUL<sub>us</sub> Type 1

		max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV1</b> 								
			20A	<b>7,5kW</b>	48 □	LTS20 ZHN1 A3	1	0,16
			25A	<b>10kW</b>	48 □	LTS25 ZHN1 A3	1	0,16
			32A	<b>12,5kW</b>	48 □	LTS32 ZHN1 A3	1	0,16
			40A	<b>16kW</b>	48 □	LTS40 ZHN1 A3	1	0,16
<b>4-pole, padlock device SV1</b> 								
			20A	<b>7,5kW</b>	48 □	LTS20 ZHN1 A4	1	0,20
			25A	<b>10kW</b>	48 □	LTS25 ZHN1 A4	1	0,20
			32A	<b>12,5kW</b>	48 □	LTS32 ZHN1 A4	1	0,20
			40A	<b>16kW</b>	48 □	LTS40 ZHN1 A4	1	0,20

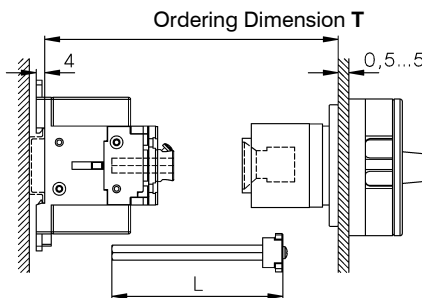
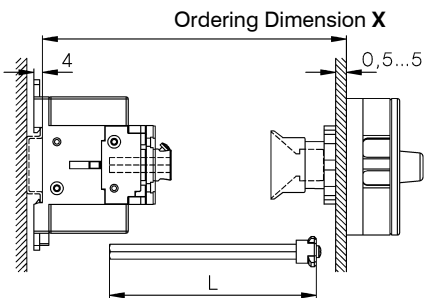
Add-on modules see page 291

Emergency-Stop-Main Switches, Base Mounting with Door Clutch for Single-Hole Mounting  
 Depth X is adjustable (delivered with X<sub>max</sub> see below), IP66, cUL<sub>us</sub> Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV4</b> 							
	3	20A	<b>7,5kW</b>	64 □	LTS20 VZVHN4 A3	1	0,19
		25A	<b>10kW</b>	64 □	LTS25 VZVHN4 A3	1	0,19
		32A	<b>12,5kW</b>	64 □	LTS32 VZVHN4 A3	1	0,19
		40A	<b>16kW</b>	64 □	LTS40 VZVHN4 A3	1	0,19
		63A	<b>22kW</b>	64 □	LTS63 VZVHN4 A3	1	0,22
		80A	<b>22kW</b>	64 □	LTS80 VZVHN4 A3	1	0,22
		85A	<b>30kW</b>	64 □	LTS85 VZVHN4 A3	1	0,40
		100A	<b>37kW</b>	64 □	LTS100 VZVHN4 A3	1	0,40
		125A	<b>45kW</b>	64 □	LTS125 VZVHN4 A3	1	0,40
							
<b>4-pole, padlock device SV4</b> 							
	3	20A	<b>7,5kW</b>	64 □	LTS20 VZVHN4 A4	1	0,20
		25A	<b>10kW</b>	64 □	LTS25 VZVHN4 A4	1	0,20
		32A	<b>12,5kW</b>	64 □	LTS32 VZVHN4 A4	1	0,20
		40A	<b>16kW</b>	64 □	LTS40 VZVHN4 A4	1	0,20
		63A	<b>22kW</b>	64 □	LTS63 VZVHN4 A4	1	0,26
		80A	<b>22kW</b>	64 □	LTS80 VZVHN4 A4	1	0,26
		85A	<b>30kW</b>	64 □	LTS85 VZVHN4 A4	1	0,45
		100A	<b>37kW</b>	64 □	LTS100 VZVHN4 A4	1	0,45
		125A	<b>45kW</b>	64 □	LTS125 VZVHN4 A4	1	0,45
							
<b>6-pole, padlock device SV4</b> 							
	3	20A	<b>7,5kW</b>	64 □	LTS20 VZVHN4 A6	1	0,32
		25A	<b>10kW</b>	64 □	LTS25 VZVHN4 A6	1	0,32
		32A	<b>12,5kW</b>	64 □	LTS32 VZVHN4 A6	1	0,32
		40A	<b>16kW</b>	64 □	LTS40 VZVHN4 A6	1	0,32
		63A	<b>22kW</b>	64 □	LTS63 VZVHN4 A6	1	0,37
		80A	<b>22kW</b>	64 □	LTS80 VZVHN4 A6	1	0,37
							
<b>8-pole, padlock device SV4</b> 							
	3	20A	<b>7,5kW</b>	64 □	LTS20 VZVHN4 A8	1	0,34
		25A	<b>10kW</b>	64 □	LTS25 VZVHN4 A8	1	0,34
		32A	<b>12,5kW</b>	64 □	LTS32 VZVHN4 A8	1	0,34
		40A	<b>16kW</b>	64 □	LTS40 VZVHN4 A8	1	0,34
		63A	<b>22kW</b>	64 □	LTS63 VZVHN4 A8	1	0,45
		80A	<b>22kW</b>	64 □	LTS80 VZVHN4 A8	1	0,45
							

**Depth**  
 Single Hole Mounting Ø22mm  
 LTS.. VZV..

**4-Hole Mounting**  
 LTS.. V(HN).. (3, 4-pole)





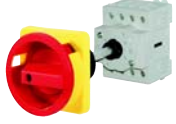
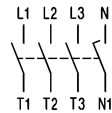
Type	X min	X max	L
LTS20-80 VZV.. 3, 4-pole	91 -	190	<b>X - 40±3</b>
LTS20-80 VZV.. 6, 8-pole	111 -	190	<b>X - 60±3</b>
LTS85-125 VZV.. 3, 4-pole	95-	190	<b>X - 44±3</b>

Type	T min	T max	L	Type	T min	T max
LTS20-80 VH..	111 -	190	<b>T - 60±3</b>	LT160 VH..	120 -	450
LTS85-125 VH..	115 -	190	<b>T - 64±3</b>			


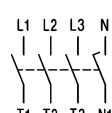
greater X- and T-Dimensions (max. 380mm for LTS..) on request

## Emergency-Stop-Main Switches, Base Mounting with Door Clutch, Padlock Device for Four-Hole Mounting, Depth T is adjustable (delivered with T<sub>max</sub> see page 282), IP66, cUL<sub>us</sub> Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs	
<b>3-pole, padlock device SV4(34)</b>  								
			20A	<b>7,5kW</b>	64 □ 1)	LTS20 VHN4 A3	1	0,20
			25A	<b>10kW</b>	64 □ 1)	LTS25 VHN4 A3	1	0,20
			32A	<b>12,5kW</b>	64 □ 1)	LTS32 VHN4 A3	1	0,20
			40A	<b>16kW</b>	64 □ 1)	LTS40 VHN4 A3	1	0,20
			63A	<b>22kW</b>	64 □ 1)	LTS63 VHN4 A3	1	0,24
			80A	<b>22kW</b>	64 □ 1)	LTS80 VHN4 A3	1	0,24
			85A	<b>30kW</b>	64 □ 1)	LTS85 VHN4 A3	1	0,40
			100A	<b>37kW</b>	64 □ 1)	LTS100 VHN4 A3	1	0,40
			125A	<b>45kW</b>	64 □ 1)	LTS125 VHN4 A3	1	0,40
		160A	<b>55kW</b>	88 □	LT160 VHN34 T300	1	1,38	

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs	
<b>4-pole, padlock device SV4(34)</b>  								
			20A	<b>7,5kW</b>	64 □ 1)	LTS20 VHN4 A4	1	0,21
			25A	<b>10kW</b>	64 □ 1)	LTS25 VHN4 A4	1	0,21
			32A	<b>12,5kW</b>	64 □ 1)	LTS32 VHN4 A4	1	0,21
			40A	<b>16kW</b>	64 □ 1)	LTS40 VHN4 A4	1	0,21
			63A	<b>22kW</b>	64 □ 1)	LTS63 VHN4 A4	1	0,28
			80A	<b>22kW</b>	64 □ 1)	LTS80 VHN4 A4	1	0,28
			85A	<b>30kW</b>	64 □ 1)	LTS85 VHN4 A4	1	0,45
			100A	<b>37kW</b>	64 □ 1)	LTS100 VHN4 A4	1	0,45
			125A	<b>45kW</b>	64 □ 1)	LTS125 VHN4 A4	1	0,45
		160A	<b>55kW</b>	88 □	LT160 VHN34 T400	1	1,77	

## Emergency-Stop-Main Switches, Base Mounting with Door Clutch for Single-Hole Mounting Depth X is not adjustable, declare depth X when ordering, IP66, cUL<sub>us</sub> Type 1

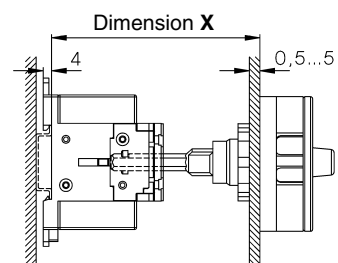
	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs	
<b>4-pole, padlock device SV4</b>  								
			20A	<b>7,5kW</b>	64 □	LTS20 VZHN4 A4 X..	1	0,18
			25A	<b>10kW</b>	64 □	LTS25 VZHN4 A4 X..	1	0,18
			32A	<b>12,5kW</b>	64 □	LTS32 VZHN4 A4 X..	1	0,18
			40A	<b>16kW</b>	64 □	LTS40 VZHN4 A4 X..	1	0,18
			63A	<b>22kW</b>	64 □	LTS63 VZHN4 A4 X..	1	0,25
			80A	<b>22kW</b>	64 □	LTS80 VZHN4 A4 X..	1	0,25

Declare depth X when ordering

Type

Preference values for X



LTS.. VZH.. 80, 85, 104, 129 (tolerance -3, +1,5)


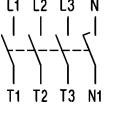



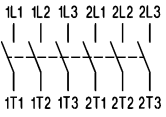
Add-on modules see page 291


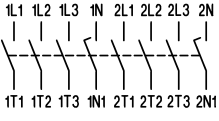
1) Types with padlock device 88 type suffix **88**, ordering example: LTS32 VHN**488** A3, on request

# Emergency-Stop-Main Switches for Distribution Boards, lockable IP40, Type 1


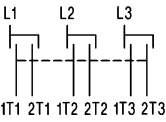
	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs	
<b>3-pole, padlock device SV1</b> 								
			20A	<b>7,5kW</b>	52x45	LTS20 SMAHN1 A3 <sup>2)</sup>	1	0,15
			25A	<b>10kW</b>	52x45	LTS25 SMAHN1 A3 <sup>2)</sup>	1	0,15
			32A	<b>12,5kW</b>	52x45	LTS32 SMAHN1 A3 <sup>2)</sup>	1	0,15
			40A	<b>16kW</b>	52x45	LTS40 SMAHN1 A3 <sup>2)</sup>	1	0,15
			63A	<b>22kW</b>	52x45	LTS63 SMAHN1 A3 <sup>2)</sup>	1	0,18
			80A	<b>22kW</b>	52x45	LTS80 SMAHN1 A3 <sup>2)</sup>	1	0,18
			85A	<b>30kW</b>	78x45	LTS85 SMAHN1 A3	1	0,37
			100A	<b>37kW</b>	78x45	LTS100 SMAHN1 A3	1	0,37
			125A	<b>45kW</b>	78x45	LTS125 SMAHN1 A3	1	0,37


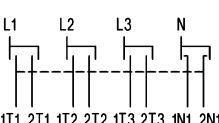
<b>4-pole, padlock device SV1</b> 								
			20A	<b>7,5kW</b>	52x45	LTS20 SMAHN1 A4 <sup>2)</sup>	1	0,16
			25A	<b>10kW</b>	52x45	LTS25 SMAHN1 A4 <sup>2)</sup>	1	0,16
			32A	<b>12,5kW</b>	52x45	LTS32 SMAHN1 A4 <sup>2)</sup>	1	0,16
			40A	<b>16kW</b>	52x45	LTS40 SMAHN1 A4 <sup>2)</sup>	1	0,16
			63A	<b>22kW</b>	52x45	LTS63 SMAHN1 A4 <sup>2)</sup>	1	0,21
			80A	<b>22kW</b>	52x45	LTS80 SMAHN1 A4 <sup>2)</sup>	1	0,21
			85A	<b>30kW</b>	78x45	LTS85 SMAHN1 A4	1	0,42
			100A	<b>37kW</b>	78x45	LTS100 SMAHN1 A4	1	0,42
			125A	<b>45kW</b>	78x45	LTS125 SMAHN1 A4	1	0,42

<b>6-pole, padlock device SV1(64)</b> 								
			20A	<b>7,5kW</b>	52x45	LTS20 SMAHN1 A6	1	0,29
			25A	<b>10kW</b>	52x45	LTS25 SMAHN1 A6	1	0,29
			32A	<b>12,5kW</b>	52x45	LTS32 SMAHN1 A6	1	0,29
			40A	<b>16kW</b>	52x45	LTS40 SMAHN1 A6	1	0,29
			63A	<b>22kW</b>	97x45	LTS63 SMAHN1 A6 <sup>1)</sup>	1	0,34
	80A	<b>22kW</b>	97x45	LTS80 SMAHN1 A6 <sup>1)</sup>	1	0,34		

<b>8-pole, padlock device SV164</b> 								
			20A	<b>7,5kW</b>	97x45	LTS20 SMAHN1 A8	1	0,31
			25A	<b>10kW</b>	97x45	LTS25 SMAHN1 A8	1	0,31
			32A	<b>12,5kW</b>	97x45	LTS32 SMAHN1 A8	1	0,31
			40A	<b>16kW</b>	97x45	LTS40 SMAHN1 A8	1	0,31
			63A	<b>22kW</b>	126x45	LTS63 SMAHN1 A8	1	0,42
	80A	<b>22kW</b>	126x45	LTS80 SMAHN1 A8	1	0,42		

## Changeover Switch with Padlock Device for Distribution Boards, lockable

<b>3-pole, padlock device SV164</b> 								
			20A	<b>7,5kW</b>	97x45	LTS20 SMAHN1 U3	1	0,29
			25A	<b>10kW</b>	97x45	LTS25 SMAHN1 U3	1	0,29
			32A	<b>12,5kW</b>	97x45	LTS32 SMAHN1 U3	1	0,29
			40A	<b>16kW</b>	97x45	LTS40 SMAHN1 U3	1	0,29
	63A	<b>22kW</b>	97x45	LTS63 SMAHN1 U3	1	0,34		







<b>4-pole, padlock device SV164</b> 								
			20A	<b>7,5kW</b>	97x45	LTS20 SMAHN1 U4	1	0,31
			25A	<b>10kW</b>	97x45	LTS25 SMAHN1 U4	1	0,31
			32A	<b>12,5kW</b>	97x45	LTS32 SMAHN1 U4	1	0,31
			40A	<b>16kW</b>	97x45	LTS40 SMAHN1 U4	1	0,31
	63A	<b>22kW</b>	126x45	LTS63 SMAHN1 U4	1	0,42		

1) With padlock device SV164

2) Emergency-Stop-Main Switches for Distribution Boards, lockable with low height handle, IP40

Type with Type-suffix „**SV1N**“ e.g.: **LTS40 SMAHN1 A3 +SV1N**


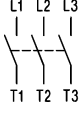

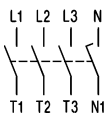

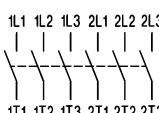

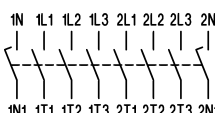

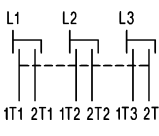

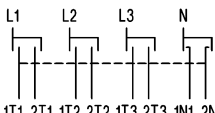
Maintenance and Safety Emergency-Stop-Main Switches, in Plastic Enclosure, lockable IP66, cUL<sup>us</sup> Type 4X

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>3-pole, padlock device SV4(34)</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 PF(L <sup>1</sup> )HN4 A3	1	0,32
		25A	<b>10kW</b>	64 □	LTS25 PF(L <sup>1</sup> )HN4 A3	1	0,32
		32A	<b>12,5kW</b>	64 □	LTS32 PF(L <sup>1</sup> )HN4 A3	1	0,32
		40A	<b>16kW</b>	64 □	LTS40 PF(L <sup>1</sup> )HN4 A3	1	0,32
		63A	<b>22kW</b>	64 □	LTS63 PFLHN4 A3	1	0,60
		80A	<b>22kW</b>	64 □	LTS80 PFLHN4 A3	1	0,60
		85A	<b>30kW</b>	64 □	LTS85 PFLHN4 A3	1	0,78
		100A	<b>37kW</b>	64 □	LTS100 PFLHN4 A3	1	0,78
Larger enclosure Type: ..PFL..	on request	125A	<b>45kW</b>	64 □	LTS125 PFLHN4 A3	1	0,78
		160A	<b>55kW</b>	88 □	LT160 PFHN34 T300	1	2,09
<b>4-pole, padlock device SV4(34)</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 PF(L <sup>1</sup> )HN4 A4	1	0,33
		25A	<b>10kW</b>	64 □	LTS25 PF(L <sup>1</sup> )HN4 A4	1	0,33
		32A	<b>12,5kW</b>	64 □	LTS32 PF(L <sup>1</sup> )HN4 A4	1	0,33
		40A	<b>16kW</b>	64 □	LTS40 PF(L <sup>1</sup> )HN4 A4	1	0,33
		63A	<b>22kW</b>	64 □	LTS63 PFLHN4 A4	1	0,64
		80A	<b>22kW</b>	64 □	LTS80 PFLHN4 A4	1	0,64
		85A	<b>30kW</b>	64 □	LTS85 PFLHN4 A4	1	0,83
Larger enclosure Type appendix +PF3	on request	100A	<b>37kW</b>	64 □	LTS100 PFLHN4 A4	1	0,83
		125A	<b>45kW</b>	64 □	LTS125 PFLHN4 A4	1	0,83
		160A	<b>55kW</b>	88 □	LT160 PFHN34 T400	1	2,47
<b>6-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 PFLHN4 A6	1	1,39
		25A	<b>10kW</b>	64 □	LTS25 PFLHN4 A6	1	1,39
		32A	<b>12,5kW</b>	64 □	LTS32 PFLHN4 A6	1	1,39
		40A	<b>16kW</b>	64 □	LTS40 PFLHN4 A6	1	1,39
		63A	<b>22kW</b>	64 □	LTS63 PFLHN4 A6	1	1,42
		80A	<b>22kW</b>	64 □	LTS80 PFLHN4 A6	1	1,42
knockoutlets M50/40 +PF3/M50	on request						
<b>8-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 PFLHN4 A8	1	1,44
		25A	<b>10kW</b>	64 □	LTS25 PFLHN4 A8	1	1,44
		32A	<b>12,5kW</b>	64 □	LTS32 PFLHN4 A8	1	1,44
		40A	<b>16kW</b>	64 □	LTS40 PFLHN4 A8	1	1,44
		63A	<b>22kW</b>	64 □	LTS63 PFLHN4 A8	1	1,50
		80A	<b>22kW</b>	64 □	LTS80 PFLHN4 A8	1	1,50
knockoutlets M50/40 +PF3/M50	on request						
<b>Changeover Switch with Padlock Device, lockable</b>							
<b>3-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 PFLHN4 U3	1	1,39
		25A	<b>10kW</b>	64 □	LTS25 PFLHN4 U3	1	1,39
		32A	<b>12,5kW</b>	64 □	LTS32 PFLHN4 U3	1	1,39
		40A	<b>16kW</b>	64 □	LTS40 PFLHN4 U3	1	1,39
		63A	<b>22kW</b>	64 □	LTS63 PFLHN4 U3	1	1,42
		80A	<b>22kW</b>	64 □	LTS80 PFLHN4 U3	1	1,42
<b>4-pole, padlock device SV4</b> 							
		20A	<b>7,5kW</b>	64 □	LTS20 PFLHN4 U4	1	1,44
		25A	<b>10kW</b>	64 □	LTS25 PFLHN4 U4	1	1,44
		32A	<b>12,5kW</b>	64 □	LTS32 PFLHN4 U4	1	1,44
		40A	<b>16kW</b>	64 □	LTS40 PFLHN4 U4	1	1,44
		63A	<b>22kW</b>	64 □	LTS63 PFLHN4 U4	1	1,50
		80A	<b>22kW</b>	64 □	LTS80 PFLHN4 U4	1	1,50


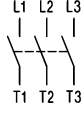

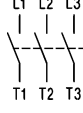
1) PFL.... larger enclosure




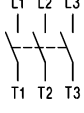

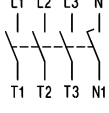

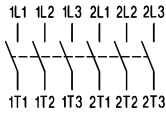

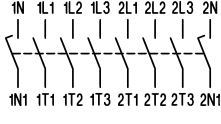
Switch Disconnectors for Panel Mounting, IP66, cUL<sub>us</sub> Type 1

	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>On-Off Switches 3-pole</b>						
 	20A	<b>7,5kW</b>	48 □	LTS20 E A3	1	0,15
	25A	<b>10kW</b>	48 □	LTS25 E A3	1	0,15
	32A	<b>12,5kW</b>	48 □	LTS32 E A3	1	0,15
	40A	<b>16kW</b>	48 □	LTS40 E A3	1	0,15
	63A	<b>22kW</b>	48 □	LTS63 E A3	1	0,17
	80A	<b>22kW</b>	48 □	LTS80 E A3	1	0,17
	85A	<b>30kW</b>	64 □	LTS85 E A3	1	0,39
	100A	<b>37kW</b>	64 □	LTS100 E A3	1	0,39
	125A	<b>45kW</b>	64 □	LTS125 E A3	1	0,39
	160A	<b>55kW</b>	88 □	LT160 E T300	1	1,10
<b>On-Off Switches 4-pole</b>						
 	20A	<b>7,5kW</b>	48 □	LTS20 E A4	1	0,18
	25A	<b>10kW</b>	48 □	LTS25 E A4	1	0,18
	32A	<b>12,5kW</b>	48 □	LTS32 E A4	1	0,18
	40A	<b>16kW</b>	48 □	LTS40 E A4	1	0,18
	63A	<b>22kW</b>	48 □	LTS63 E A4	1	0,21
	80A	<b>22kW</b>	48 □	LTS80 E A4	1	0,21
	85A	<b>30kW</b>	64 □	LTS85 E A4	1	0,44
	100A	<b>37kW</b>	64 □	LTS100 E A4	1	0,44
	125A	<b>45kW</b>	64 □	LTS125 E A4	1	0,44
	160A	<b>55kW</b>	88 □	LT160 E T400	1	1,50
<b>On-Off Switches 6-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 E A6	1	0,30
	25A	<b>10kW</b>	64 □	LTS25 E A6	1	0,30
	32A	<b>12,5kW</b>	64 □	LTS32 E A6	1	0,30
	40A	<b>16kW</b>	64 □	LTS40 E A6	1	0,30
	63A	<b>22kW</b>	64 □	LTS63 E A6	1	0,36
	80A	<b>22kW</b>	64 □	LTS80 E A6	1	0,36
<b>On-Off Switches 8-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 E A8	1	0,32
	25A	<b>10kW</b>	64 □	LTS25 E A8	1	0,32
	32A	<b>12,5kW</b>	64 □	LTS32 E A8	1	0,32
	40A	<b>16kW</b>	64 □	LTS40 E A8	1	0,32
	63A	<b>22kW</b>	64 □	LTS63 E A8	1	0,43
	80A	<b>22kW</b>	64 □	LTS80 E A8	1	0,43
<b>Changeover Switches 3-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 E U3	1	0,31
	25A	<b>10kW</b>	64 □	LTS25 E U3	1	0,31
	32A	<b>12,5kW</b>	64 □	LTS32 E U3	1	0,31
	40A	<b>16kW</b>	64 □	LTS40 E U3	1	0,31
	63A	<b>22kW</b>	64 □	LTS63 E U3	1	0,37
<b>Changeover Switches 4-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 E U4	1	0,33
	25A	<b>10kW</b>	64 □	LTS25 E U4	1	0,33
	32A	<b>12,5kW</b>	64 □	LTS32 E U4	1	0,33
	40A	<b>16kW</b>	64 □	LTS40 E U4	1	0,33
	63A	<b>22kW</b>	64 □	LTS63 E U4	1	0,44

## Switch Disconnectors for Single Hole Mounting, lockable IP66, cUL<sub>us</sub> Type 1

	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>On-Off Switches 3-pole</b>						
 	20A	<b>7,5kW</b>	48 □	LTS20 Z A3	1	0,16
	25A	<b>10kW</b>	48 □	LTS25 Z A3	1	0,16
	32A	<b>12,5kW</b>	48 □	LTS32 Z A3	1	0,16
	40A	<b>16kW</b>	48 □	LTS40 Z A3	1	0,16
<b>On-Off Switches 4-pole</b>						
 	20A	<b>7,5kW</b>	48 □	LTS20 Z A4	1	0,20
	25A	<b>10kW</b>	48 □	LTS25 Z A4	1	0,20
	32A	<b>12,5kW</b>	48 □	LTS32 Z A4	1	0,20
	40A	<b>16kW</b>	48 □	LTS40 Z A4	1	0,20

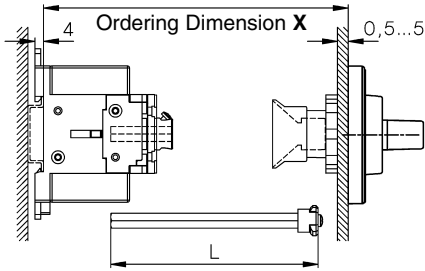
## Switch Disconnectors, Base Mounting with Door Clutch for Single-Hole Mounting Depth X is adjustable (delivered with X<sub>max</sub> see page 288), IP66, cUL<sub>us</sub> Type 1

	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>On-Off Switches 3-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 VZV A3	1	0,19
	25A	<b>10kW</b>	64 □	LTS25 VZV A3	1	0,19
	32A	<b>12,5kW</b>	64 □	LTS32 VZV A3	1	0,19
	40A	<b>16kW</b>	64 □	LTS40 VZV A3	1	0,19
	63A	<b>22kW</b>	64 □	LTS63 VZV A3	1	0,22
	80A	<b>22kW</b>	64 □	LTS80 VZV A3	1	0,22
	85A	<b>30kW</b>	64 □	LTS85 VZV A3	1	0,40
	100A	<b>37kW</b>	64 □	LTS100 VZV A3	1	0,40
125A	<b>45kW</b>	64 □	LTS125 VZV A3	1	0,40	
<b>On-Off Switches 4-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 VZV A4	1	0,20
	25A	<b>10kW</b>	64 □	LTS25 VZV A4	1	0,20
	32A	<b>12,5kW</b>	64 □	LTS32 VZV A4	1	0,20
	40A	<b>16kW</b>	64 □	LTS40 VZV A4	1	0,20
	63A	<b>22kW</b>	64 □	LTS63 VZV A4	1	0,26
	80A	<b>22kW</b>	64 □	LTS80 VZV A4	1	0,26
	85A	<b>30kW</b>	64 □	LTS85 VZV A4	1	0,45
	100A	<b>37kW</b>	64 □	LTS100 VZV A4	1	0,45
125A	<b>45kW</b>	64 □	LTS125 VZV A4	1	0,45	
<b>On-Off Switches 6-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 VZV A6	1	0,32
	25A	<b>10kW</b>	64 □	LTS25 VZV A6	1	0,32
	32A	<b>12,5kW</b>	64 □	LTS32 VZV A6	1	0,32
	40A	<b>16kW</b>	64 □	LTS40 VZV A6	1	0,32
	63A	<b>22kW</b>	64 □	LTS63 VZV A6	1	0,37
	80A	<b>22kW</b>	64 □	LTS80 VZV A6	1	0,37
<b>On-Off Switches 8-pole</b>						
 	20A	<b>7,5kW</b>	64 □	LTS20 VZV A8	1	0,34
	25A	<b>10kW</b>	64 □	LTS25 VZV A8	1	0,34
	32A	<b>12,5kW</b>	64 □	LTS32 VZV A8	1	0,34
	40A	<b>16kW</b>	64 □	LTS40 VZV A8	1	0,34
	63A	<b>22kW</b>	64 □	LTS63 VZV A8	1	0,45
80A	<b>22kW</b>	64 □	LTS80 VZV A8	1	0,45	

Switch Disconnecter, Base Mounting with Door Clutch for Single-Hole Mounting  
 Depth X is adjustable (delivered with X<sub>max</sub> see below), IP66, cUL<sub>us</sub> Type 1

Depth

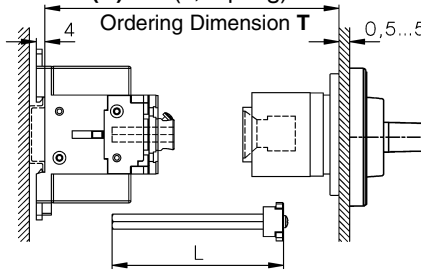
Single Hole Mounting Ø22mm  
 LTS.. VZV..



Type	X min	X max	L
LTS20-80 VZV.. 3, 4-polig	91 -	190	X - 40±3
LTS20-80 VZV.. 6, 8-polig	111 -	190	X - 60±3
LTS85-125 VZV.. 3, 4-polig	95 -	190	X - 44±3

4-Hole Mounting

LTS.. V(H).. (3, 4-polig)



Type	T min	T max	L	Type	T min	T max
LTS20-80 VH..	111 -	190	T - 60±3	LT160 VH..	120 -	450
LTS85-125 VH..	115 -	190	T - 64±3			

greater X- and T-Dimensions (max. 380mm for LTS..) on request

Switch Disconnecter, Base Mounting with Door Clutch for Hole Mounting  
 Depth X is adjustable (delivered with T<sub>max</sub> see above), IP66, cUL<sub>us</sub> Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>On-Off Switches 3-pole</b>							
		20A	<b>7,5kW</b>	64 □ <sup>1)</sup>	LTS20 V A3	1	0,20
		25A	<b>10kW</b>	64 □ <sup>1)</sup>	LTS25 V A3	1	0,20
		32A	<b>12,5kW</b>	64 □ <sup>1)</sup>	LTS32 V A3	1	0,20
		40A	<b>16kW</b>	64 □ <sup>1)</sup>	LTS40 V A3	1	0,20
		63A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS63 V A3	1	0,24
		80A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS80 V A3	1	0,24
		85A	<b>30kW</b>	64 □ <sup>1)</sup>	LTS85 V A3	1	0,40
		100A	<b>37kW</b>	64 □ <sup>1)</sup>	LTS100 V A3	1	0,40
		125A	<b>45kW</b>	64 □ <sup>1)</sup>	LTS125 V A3	1	0,40
		160A	<b>55kW</b>	88 □	LT160 V T300	1	1,38
<b>On-Off Switches 4-pole</b>							
		20A	<b>7,5kW</b>	64 □ <sup>1)</sup>	LTS20 V A4	1	0,21
		25A	<b>10kW</b>	64 □ <sup>1)</sup>	LTS25 V A4	1	0,21
		32A	<b>12,5kW</b>	64 □ <sup>1)</sup>	LTS32 V A4	1	0,21
		40A	<b>16kW</b>	64 □ <sup>1)</sup>	LTS40 V A4	1	0,21
		63A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS63 V A4	1	0,28
		80A	<b>22kW</b>	64 □ <sup>1)</sup>	LTS80 V A4	1	0,28
		85A	<b>30kW</b>	64 □ <sup>1)</sup>	LTS85 V A4	1	0,45
		100A	<b>37kW</b>	64 □ <sup>1)</sup>	LTS100 V A4	1	0,45
		125A	<b>45kW</b>	64 □ <sup>1)</sup>	LTS125 V A4	1	0,45
		160A	<b>55kW</b>	88 □	LT160 V T400	1	1,77

Add-on modules see page 291

1) Types with padlock device 88 ' type suffix **88**, ordering example: LTS32 VHN**488** A3, on request

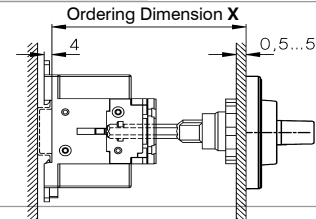
## Switch Disconnecter, Base Mounting with Door Clutch for Single-Hole Mounting

Depth X is not adjustable, declare depth X when ordering, IP66, cUL<sup>us</sup> Type 1

	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
<b>On-Off Switches 4-pole</b>		20A	<b>7,5kW</b>	64 □	LTS20 VZ A4 X..	1	0,18
		25A	<b>10kW</b>	64 □	LTS25 VZ A4 X..	1	0,18
		32A	<b>12,5kW</b>	64 □	LTS32 VZ A4 X..	1	0,18
		40A	<b>16kW</b>	64 □	LTS40 VZ A4 X..	1	0,18
		63A	<b>22kW</b>	64 □	LTS63 VZ A4 X..	1	0,25
		80A	<b>22kW</b>	64 □	LTS80 VZ A4 X..	1	0,25

Declare depth X when ordering

Type	Preference values for X
LTS.. VZ..	80, 85, 104, 129 (tolerance -3, +1,5)



Add-on modules see page 291

## Switch Disconnectors for Distribution Boards, IP40, cUL<sup>us</sup> Type 1

<b>On-Off Switches 3-pole</b>							
	20A	<b>7,5kW</b>	52x45	LTS20 SMA A3	1	0,15	
	25A	<b>10kW</b>	52x45	LTS25 SMA A3	1	0,15	
	32A	<b>12,5kW</b>	52x45	LTS32 SMA A3	1	0,15	
	40A	<b>16kW</b>	52x45	LTS40 SMA A3	1	0,15	
	63A	<b>22kW</b>	52x45	LTS63 SMA A3	1	0,17	
	80A	<b>22kW</b>	52x45	LTS80 SMA A3	1	0,17	
	85A	<b>30kW</b>	78x45	LTS85 SMA A3	1	0,37	
100A	<b>37kW</b>	78x45	LTS100 SMA A3	1	0,37		
125A	<b>45kW</b>	78x45	LTS125 SMA A3	1	0,37		

<b>On-Off Switches 4-pole</b>							
	20A	<b>7,5kW</b>	52x45	LTS20 SMA A4	1	0,16	
	25A	<b>10kW</b>	52x45	LTS25 SMA A4	1	0,16	
	32A	<b>12,5kW</b>	52x45	LTS32 SMA A4	1	0,16	
	40A	<b>16kW</b>	52x45	LTS40 SMA A4	1	0,16	
	63A	<b>22kW</b>	52x45	LTS63 SMA A4	1	0,21	
	80A	<b>22kW</b>	52x45	LTS80 SMA A4	1	0,21	
	85A	<b>30kW</b>	78x45	LTS85 SMA A4	1	0,42	
100A	<b>37kW</b>	78x45	LTS100 SMA A4	1	0,42		
125A	<b>45kW</b>	78x45	LTS125 SMA A4	1	0,42		


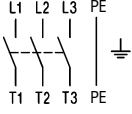

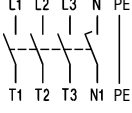

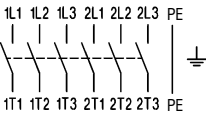

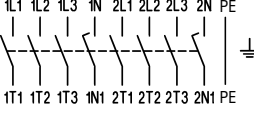

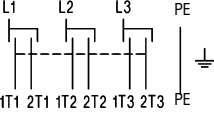

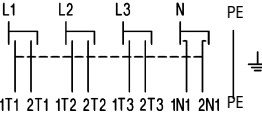
<b>On-Off Switches 6-pole</b>							
	20A	<b>7,5kW</b>	52x45	LTS20 SMA A6	1	0,29	
	25A	<b>10kW</b>	52x45	LTS25 SMA A6	1	0,29	
	32A	<b>12,5kW</b>	52x45	LTS32 SMA A6	1	0,29	
	40A	<b>16kW</b>	52x45	LTS40 SMA A6	1	0,29	
	63A	<b>22kW</b>	97x45	LTS63 SMA A6	1	0,34	
	80A	<b>22kW</b>	97x45	LTS80 SMA A6	1	0,34	

<b>On-Off Switches 8-pole</b>							
	20A	<b>7,5kW</b>	97x45	LTS20 SMA A8	1	0,31	
	25A	<b>10kW</b>	97x45	LTS25 SMA A8	1	0,31	
	32A	<b>12,5kW</b>	97x45	LTS32 SMA A8	1	0,31	
	40A	<b>16kW</b>	97x45	LTS40 SMA A8	1	0,31	
	63A	<b>22kW</b>	126x45	LTS63 SMA A8	1	0,42	
	80A	<b>22kW</b>	126x45	LTS80 SMA A8	1	0,42	

<b>Changeover Switches 3-pole</b>							
	20A	<b>7,5kW</b>	97x45	LTS20 SMA U3	1	0,30	
	25A	<b>10kW</b>	97x45	LTS25 SMA U3	1	0,30	
	32A	<b>12,5kW</b>	97x45	LTS32 SMA U3	1	0,30	
	40A	<b>16kW</b>	97x45	LTS40 SMA U3	1	0,30	
	63A	<b>22kW</b>	97x45	LTS63 SMA U3	1	0,35	
















<b>Changeover Switches 4-pole</b>							
	20A	<b>7,5kW</b>	97x45	LTS20 SMA U4	1	0,32	
	25A	<b>10kW</b>	97x45	LTS25 SMA U4	1	0,32	
	32A	<b>12,5kW</b>	97x45	LTS32 SMA U4	1	0,32	
	40A	<b>16kW</b>	97x45	LTS40 SMA U4	1	0,32	
	63A	<b>22kW</b>	126x45	LTS63 SMA U4	1	0,43	

# Switch Disconnectors in Plastic Enclosure IP66, Type 4X




	max. padlocks	AC21 690V	AC23 3x400V	Plate	Type	Pack pcs.	Weight kg/pcs
 	<b>On-Off Switches 3-pole</b>		20A	7,5kW	64 □	LTS20 PF(L <sup>1</sup> ) A3	1 0,30
		25A	10kW	64 □	LTS25 PF(L <sup>1</sup> ) A3	1 0,30	
		32A	12,5kW	64 □	LTS32 PF(L <sup>1</sup> ) A3	1 0,30	
		40A	16kW	64 □	LTS40 PF(L <sup>1</sup> ) A3	1 0,30	
		63A	22kW	64 □	LTS63 PFL A3	1 0,58	
		80A	22kW	64 □	LTS80 PFL A3	1 0,58	
	 	<b>On-Off Switches 4-pole</b>		20A	7,5kW	64 □	LTS20 PF(L <sup>1</sup> ) A4
		25A	10kW	64 □	LTS25 PF(L <sup>1</sup> ) A4	1 0,31	
		32A	12,5kW	64 □	LTS32 PF(L <sup>1</sup> ) A4	1 0,31	
		40A	16kW	64 □	LTS40 PF(L <sup>1</sup> ) A4	1 0,31	
		63A	22kW	64 □	LTS63 PFL A4	1 0,62	
		80A	22kW	64 □	LTS80 PFL A4	1 0,62	
 		<b>On-Off Switches 6-pole</b>		20A	7,5kW	64 □	LTS20 PFL A6
		25A	10kW	64 □	LTS25 PFL A6	1 1,39	
		32A	12,5kW	64 □	LTS32 PFL A6	1 1,39	
		40A	16kW	64 □	LTS40 PFL A6	1 1,39	
		63A	22kW	64 □	LTS63 PFL A6	1 1,42	
		80A	22kW	64 □	LTS80 PFL A6	1 1,42	
	knockoutlets M50/40		+PF3/M50 on request				
 	<b>On-Off Switches 8-pole</b>		20A	7,5kW	64 □	LTS20 PFL A8	1 1,44
		25A	10kW	64 □	LTS25 PFL A8	1 1,44	
		32A	12,5kW	64 □	LTS32 PFL A8	1 1,44	
		40A	16kW	64 □	LTS40 PFL A8	1 1,44	
		63A	22kW	64 □	LTS63 PFL A8	1 1,50	
		80A	22kW	64 □	LTS80 PFL A8	1 1,50	
	knockoutlets M50/40		+PF3/M50 on request				
 	<b>Changeover Switches 3-pole</b>		20A	7,5kW	64 □	LTS20 PFL U3	1 1,39
		25A	10kW	64 □	LTS25 PFL U3	1 1,39	
		32A	12,5kW	64 □	LTS32 PFL U3	1 1,39	
		40A	16kW	64 □	LTS40 PFL U3	1 1,39	
		63A	22kW	64 □	LTS63 PFL U3	1 1,42	
		80A	22kW	64 □	LTS80 PFL U3	1 1,42	
	 	<b>Changeover Switches 4-pole</b>		20A	7,5kW	64 □	LTS20 PFL U4
		25A	10kW	64 □	LTS25 PFL U4	1 1,44	
		32A	12,5kW	64 □	LTS32 PFL U4	1 1,44	
		40A	16kW	64 □	LTS40 PFL U4	1 1,44	
		63A	22kW	64 □	LTS63 PFL U4	1 1,50	
		80A	22kW	64 □	LTS80 PFL U4	1 1,50	

1) PFL.... larger enclosure



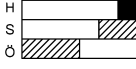



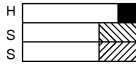







## Add-on Modules for Main Switches, Panel Mounting and Single Hole Mounting

	for switch	Type	Pack pcs.	Weight kg/pcs
	 N   N1	LTS20 ... to LTS40 ...	N40E	1 0,035
		LTS63 ... , LTS80 ...	N80E	1 0,042
	 H   13   21   S   14   22   Ö	LTS20 ... to LTS125 ...	LH11	1 0,02
	 H   47   35   S   48   36   Ö	LTS20 ... to LTS125 ...	LH11X	1 0,02
	 H   11   21   S   12   22   Ö	LTS20 ... to LTS125 ...	LH20V/02E	1 0,02
	 PE   PE	LTS20 ... to LTS80 ...	PE80E	1 0,04
		LT125 E.. to LT160 E..	LTXX-E/E	1 0,2
	 N   N	LTS20 ... to LTS80 ...	PEN80E	1 0,04
		LT125 E.. to LT160 E..	LTXX-N/E	1 0,2
		LTS20 ... to LTS80 ...	KLAD70	1 0,005
		LTS85.. to LTS125. KLAD125		1 0,01
		LT125.. to LT160..	XX-KLAD3	1 0,02
	Mains	LTS20 ... to LTS80..KLAD70N		1 0,002
	Load circuit	LTS20 ... to LTS80..KLAD70NI		1 0,002
		LTS85.. to LTS125. KLAD125		1 0,01
		LT125.. to LT160..	XX-KLAD4	1 0,02

## Accessories for Main Switches, Panel Mounting, Single Hole and Base Mounting

	for switch	Type	Pack pcs.	Weight kg/pcs
	for plate 48 <sup>r</sup>	LTS.. .HN1..	A91501	1 0,003
	for plate 64 <sup>r</sup>	LTS.. .HN4..	E91501	1 0,005
	for plate 48 <sup>r</sup>	LTS.. .HN1..	A91524	1 0,003
	for plate 64 <sup>r</sup>	LTS.. .HN4..	E91524	1 0,005
		LTS20 ... to LTS40 ...	LG11073	10 0,001

## Add-on Modules for Main Switches, Base and Rail Mounting

		for switch	Type	Pack pcs.	Weight kg/pcs
	<b>4<sup>th</sup> Add-on Neutral Switching Pole</b>				
		LTS20 ... , LTS40 ... N40V LTS63 ... , LTS80 ... N80V		1 1	0,035 0,042
	<b>Aux. Contact Block 1NO + 1NC</b>				
		LTS20 ... to LTS125 ...	LH11	1	0,02
	<b>Aux. Contact Block 1NO + 1NC Overlapping</b>				
		LTS20 ... to LTS125 ...	LH11X	1	0,02
	<b>Aux. Contact Block 2NO</b>				
		LTS20 ... to LTS125 ...	LH20V/02E	1	0,02
	<b>PE-Terminal</b>				
		LTS20 ... to LTS80 ... LT125 .. to LT160 ..	PE80V LTXX-E/V	1 1	0,04 0,2
	<b>N-Terminal</b>				
		LTS20 ... to LTS80 ... LT125 .. to LT160 ..	PEN80V LTXX-N/V	1 1	0,04 0,2
	<b>Terminal Cover 3-pole</b>				
		LTS20 ... to LTS40 ...	KLAD40	1	0,005
		LTS63 ... to LTS80 ...	KLAD70	1	0,005
		LTS85.. to LTS125. LT125.. to LT160..	KLAD125 XX-KLAD3	1 1	0,01 0,02
	<b>Terminal Cover for 4<sup>th</sup> pole</b>				
	Mains Load circuit	LTS63., LTS80.. LTS63., LTS80..	KLAD70N KLAD70NI	1 1	0,002 0,002
	<b>Terminal Cover 4-pole</b>				
		LTS20 ... to LTS40 ...	KLAD40	1	0,005
		LTS85.. to LTS125.	KLAD125	1	0,01
		LT125.. to LT160..	XX-KLAD4	1	0,02
<b>Additional Cover SMA for</b>			LG8628	1	0,047
4.Pole	N40V, N80V				
Aux. Contacts	LH..				
PE and N-Terminal	PE80V, PEN80V				

# Technical Data

Data according to IEC 947-3, IEC 947-5-1, VDE 0660, EN 60947-3, EN 60947-5-1

Type	LTS20	LTS25	LTS32	LTS40	LTS63	LTS80	LTS85	LTS100	LTS125	LT160	
<b>Main contacts</b>											
Rated thermal current $I_{th}$ open	A	20	25	32	40	63	80	85	100	125	160
Rated thermal current $I_{the}$ enclosed	A	20	25	32	40	63	80	85	100	110	160
Rated insulation voltage $U_i$ 1)	V	690	690	690	690	690	690	1000 5)	1000 5)	1000 5)	1000 3)
Rated operational current $I_e$ AC21A	A	20	25	32	40	63	80	85	100	125	160
Making capacity $I_{eff}$ 3x380-440V	A	160	190	220	300	370	440	600	725	850	1050
Breaking capacity 3x220-240V	A	160	180	200	250	330	380	480	580	680	900
	A	160	180	200	250	330	380	480	580	680	850
	A	80	110	140	170	190	220	250	330	420	340
Disconnection property performed up to	V	690	690	690	690	690	690	1000	1000	1000	1000 3)
Motor Switch AC3 3x400V	A	12	16	23	30	37	37	45	60	72	85
Motor Switch AC3 3x220-240V	kW	3	4	5,5	7,5	11	11	15	18,5	22	30
Direct switching of single motors 3x380-440V	kW	5,5	7,5	11	15	18,5	18,5	22	30	37	45
	kW	5,5	7,5	11	15	18,5	18,5	22	30	37	45
Main Switch AC23 3x400V	A	16	20	25	32	45	45	60	72	85	110
Motor Switch, AC23A, 3x220-240V	kW	4	5,5	7,5	9	15	15	18,5	22	30	30
Main Switch, AC23B 3x380-440V	kW	7,5	10	12,5	16	22	22	30	37	45	55
Safety Switch 3x660-690V	kW	5,5	7,5	11	15	18,5	18,5	22	30	37	37
Rated conditional short-circuit current $kA_{eff}$	A	10	10	10	10	10	10	10	10	5	30
Max. fuse size gL (gG)	A	25	35	40	40	63	80	100	100	125	160
Mechanical life $\times 10^3$	A	200	200	200	200	100	100	100	100	100	100
Rated short-time withstand current (1sec. current)	A	250	300	400	500	600	850	1000	1200	1500	3000
Power loss per pole AC21 = $I_{th}$ P/pole [W]	E, Z	0,322	0,503	0,824	1,288	2,739	4,416	3,851	5,330	8,328	
	V, SMA, PF	0,364	0,569	0,933	1,458	2,739	4,416	3,851	5,330	8,328	
	E, Z	0,805	0,805	0,805	0,805	0,690	0,690	0,533	0,533	0,533	
	V, SMA, PF	0,911	0,911	0,911	0,911	0,690	0,690	0,533	0,533	0,533	
<b>Maximum ambient temperature</b>											
Operation	open										-40°C to +60°C
	enclosed										-40°C to +40°C
Storage											-50°C to +90°C
<b>Cable cross sections</b>											
solid or stranded	mm <sup>2</sup>	0,5 - 10				1 - 25 <sup>6)</sup>		4 - 50		max.95	
	AWG	20 - 8 (10)				16 - 4 (10)		10 - 0 (10)		max.3/0	
flexible	mm <sup>2</sup>	0,5 - 6				4 - 16 <sup>6)</sup>		10 - 35		max.70	
	AWG	20 - 10				16 - 6		8 - 2		max.2/0	
flexible (+ multicore cable end)	mm <sup>2</sup>	0,5 - 6				0,75 - 16 <sup>6)</sup>		6 - 35		max.50	
	AWG	20 - 10				16 - 6		8 - 2		max.1/0	
Size of terminal screw		M3,5				M5		M6		M10	
Tightening torque	Nm	0,8 - 1,4				2,5 - 4		3,5 - 4,5		14	
<b>Auxiliary contacts</b>											
Rated insulation voltage $U_i$ 1)	V	690				690		690		690	
Rated thermal current $I_{th}$ , $I_{the}$	A	10				10		10		16	
Switching capacity AC15 220-240V	A	2,5				2,5		2,5		6	
	A	1,5				1,5		1,5		4	
Rated conditional short-circuit current	$kA_{eff}$	3				3		3		3	
Max. short circuit protection gL (gG)	A	10				10		10		16	
<b>Cable cross sections</b>											
solid or stranded	mm <sup>2</sup>	0,75 - 2,5				0,75 - 2,5		0,75 - 2,5		max.4	
	AWG	14 - 12				14 - 12		14 - 12		max.12	
flexible (+ multicore cable end)	mm <sup>2</sup>	0,75 - 2,5 (1,5)				0,75 - 2,5 (1,5)		0,75 - 2,5 (1,5)		max.2,5	
	AWG	18 - 14				18 - 14		18 - 14		max.14	
<b>Data according to UL und cUL</b>											
Type	LTS20	LTS25	LTS32	LTS40	LTS63	LTS80	LTS85	LTS100	LTS125	LT160	
Rated voltage	V	600	600	600	600	600	600	600	600	600	
Ampere-Rating "General use"	A	20	25	32	40	63	80	85	100	200	
DOL-Rating 3-phase	110-120V	HP	1	1,5	2	2	3	5	7,5	10	15
	220-240V	HP	3	5	5	5	10	10	20	25	30
	440-480V	HP	7,5	10	10	10	20	20	40	50	60
	550-600V	HP	10	10	15	15	25	25	50	60	60
DOL-Rating 1-phase	110-120V	HP	1	1	1	1	2	2	3	5	7,5
	200-208V	HP	1	2	2	2	3	3	7,5	10	10
	220-240V	HP	2	2	3	3	5	5	10	15	15
		HP	2	2	3	3	5	5	10	15	15
Fuse size (RK5) Manual Motor Controller	A	40	50	50	70	90	110	125	125	125	400 4)
5kA / 600V Motor Disconnect	A	40	50	50	50	70	70	125	125	125	400 4)
Tightening torque	Nm	1,7-2,3	1,7-2,3	1,7-2,3	1,7-2,3	2,8-4	2,8-4	1,7-4,5	1,7-4,5	1,7-4,5	14
	lb.inch	11-20	11-20	11-20	11-20	24-35	24-35	15-40	15-40	15-40	124

1) suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry):  $U_{imp} = 6kV$ .

2) the values after the slash are valid for switches 6-pole or more

3) Suitable for no load applications(AC20A) above 690V

5)  $U_{imp} = 8kV$

4) Fuse RK1 / 10kA / 600V

6) LTS63..U. stranded 16mm<sup>2</sup>, flexible 10mm<sup>2</sup>



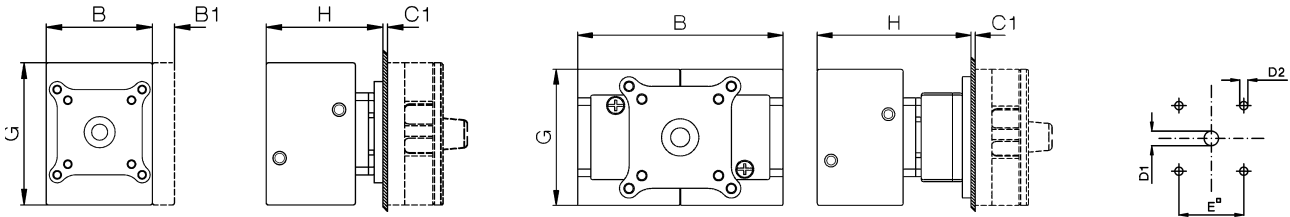
# Dimensions (mm)

## Main Switches, Switch Disconnectors LT(S)..

**Panel mounting LT(S).. E(HN)..**  
ON-OFF Switches 3-pole, 4-pole

ON-OFF Switches 6-pole, 8-pole  
Changeover Switches 3-pole, 4-pole

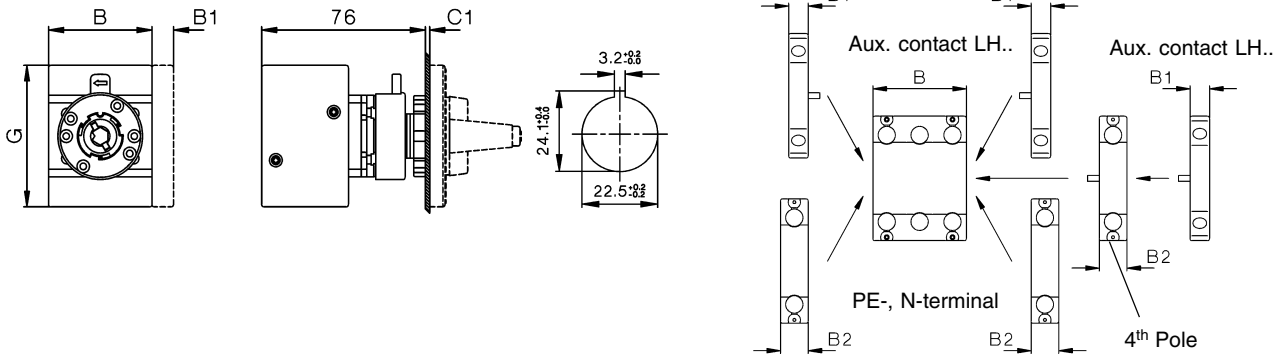
Mounting holes



**Single hole mounting LTS.. Z(HN)..**  
ON-OFF Switches 3-pole, 4-pole

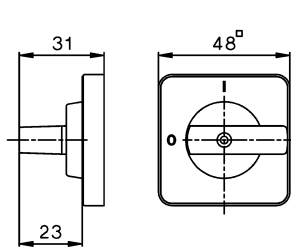
Mounting holes

**Mounting of add-on modules LTS20 - LTS80**  
Panel mounting, Single hole mounting

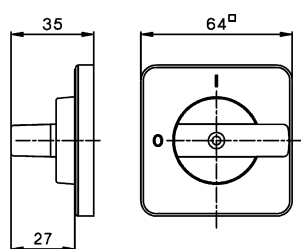


Type	Changeover ON-OFF Escutch. plate or padlock device	3-pole		4-pole		aux. contact B1	4 Pole PE			3,4-pole			G	3-pole 4-pole		H
		A	B	B	B		B	B2	C1	D1	D2	E		F	H	
LTS..	48 □, SV1	48	48	62,5	-	-	10	14,5	1-5	9	5	36	-	64	54	-
LTS..	64 □, SV4, SV164	64	48	62,5	97	126	10	14,5	1-5	9	5	48	-	64	54	74
LTS85-125..	64 □, SV4	64	78	78	-	-	10	-	1-5	9	5	48	-	85	60	-
LTS85-125..	88 □, SV488	88	78	78	-	-	10	-	1-5	9	6	68	-	85	60	-
LT125/160	88 □, SV34	88	112	150	224	-	-	-	1-4	13-17	6	68	49,3	108	96	98

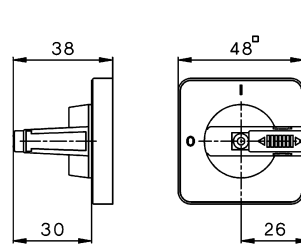
**Escutcheon plate**  
48 □



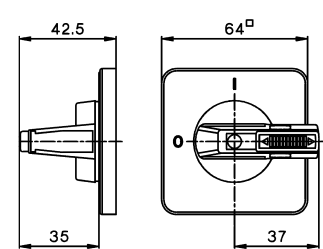
64 □



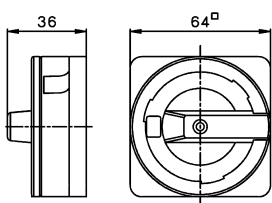
**Padlock devices**  
SV1



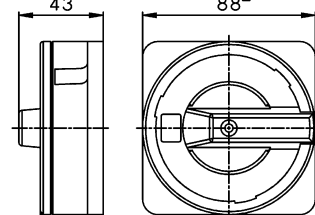
SV164



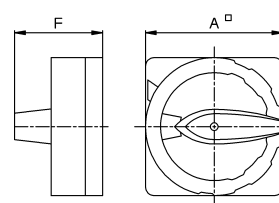
**Padlock devices**  
SV4



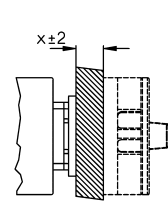
SV488



SV34



**Extended Switch Shaft**  
+VW"x"

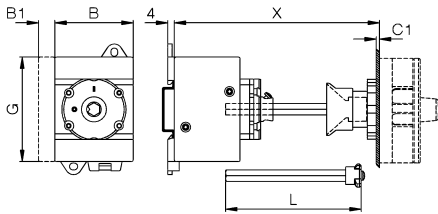


# Dimensions (mm)

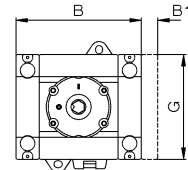
## Main Switches, Switch Disconnectors LT(S)..

**Base mounting LTS.. VZV(HN)..**  
ON-OFF Switches 3-pole, 4-pole

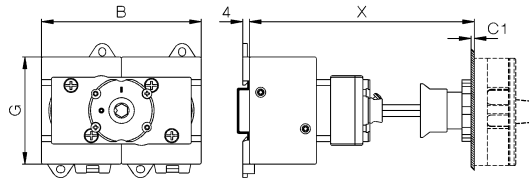
$L = X - 40 \pm 3$  for LTS20 - 80  
 $L = X - 44 \pm 3$  for LTS85 - 125



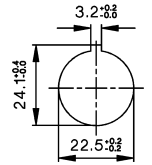
6-pole  
for LTS20 - 40 only  
 $L = X - 40 \pm 3$



ON-OFF Switches 6-pole, 8-pole  
Changeover Switches 3-pole, 4-pole  
 $L = X - 60 \pm 3$

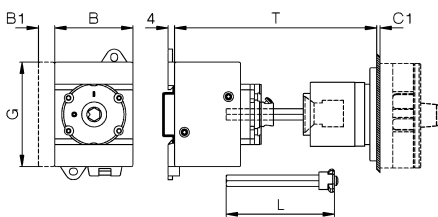


Mounting holes

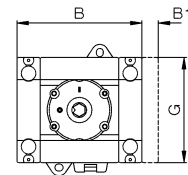


**Base mounting LT(S).. V(HN)..**  
ON-OFF Switches 3-pole, 4-pole

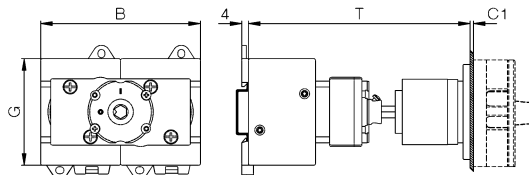
$L = T - 60 \pm 3$  for LTS20 - 80  
 $L = T - 64 \pm 3$  for LTS85 - 125



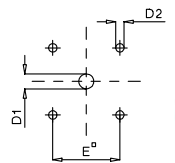
6-pole  
for LTS20 - 40 only  
 $L = T - 60 \pm 3$



ON-OFF Switches 6-pole, 8-pole  
Changeover Switches 3-pole, 4-pole  
 $L = T - 80 \pm 3$  for LTS20 - 80 only



Mounting holes

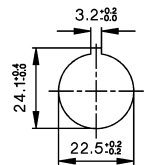
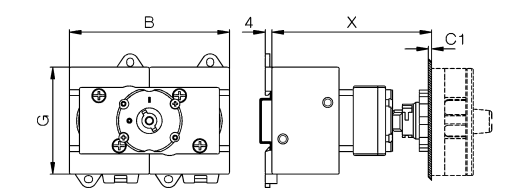
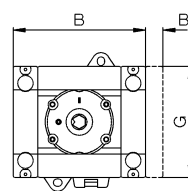
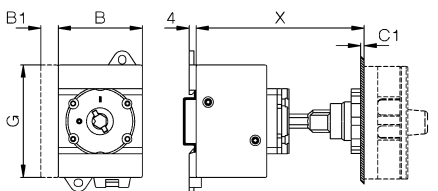


**Base mounting LTS.. VZ(HN)..**  
ON-OFF Switches 3-pole, 4-pole  
Preference values for X: 80, 85, 104, 129

6-pole  
for LTS20 - 40 only

ON-OFF Switches 6-pole, 8-pole  
Changeover Switches 3-pole, 4-pole

Mounting holes

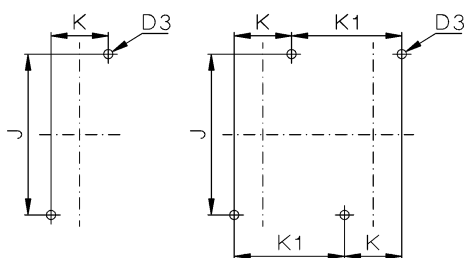


Type	Changeover ON-OFF Escutch. plate or padlock device	3,4-pole				aux. contact B1	4.Pole PE B2	Mounting holes					Mounting holes				
		A	B	B	B			C1	D1	D2	D3	E	G	K	K1	J	
LTS20 -40	64 □, SV4, SV164	64	48	48	77	97	10	14,5	1-5	9	5	M4	48	64	25	48	70
LTS63, 80	64 □, SV4, SV164	64	48	62,5	97	126	10	14,5	1-5	9	5	M4	48	64	25	48	70
LTS85-125..	64 □, SV4	64	78	78	-	-	10	-	1-5	9	5	M4	48	85	38	-	90
LT125/160	88 □, SV34	88	112	150	224	-	-	-	1-4	13/27 <sup>2)</sup>	6	M6	68	108	36	-	120

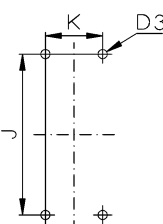
**Base mounting**  
ON-OFF Switches LTS20 - LTS80

3-pole, 4-pole  
6-pole LTS20 -40

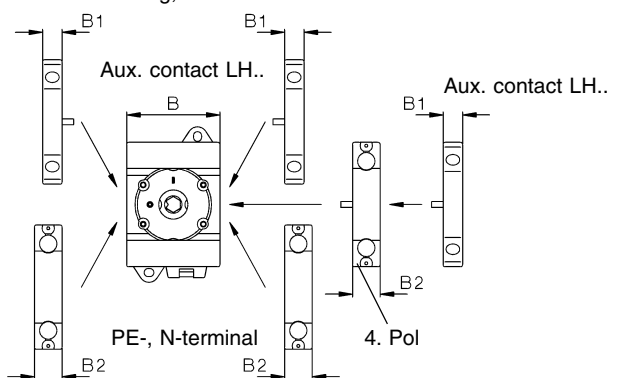
6-pole, 8-pole  
Changeover Switches



LTS85-125, LT160  
3-pole, 4-pole



**Mounting of Accessories LTS20 - LTS80**  
Base mounting, for distribution boards



1) Ø 22-25 for LT80(100) VH(N)34 .. only  
2) Ø 26-30 for LT125(160) VH(N)34 .. only

## Dimensions (mm)

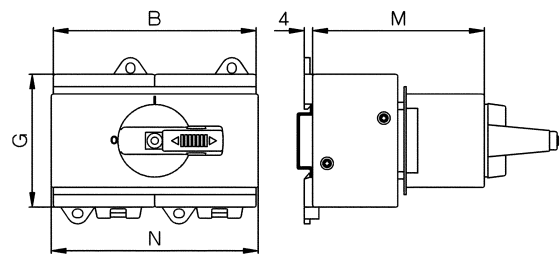
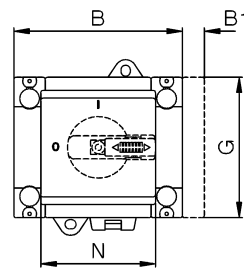
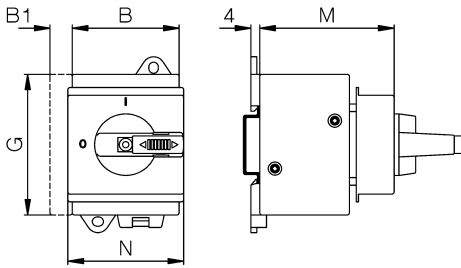
### Main Switches, Switch Disconnectors LT(S)..

#### Installation cover LT(S).. SMA(HN)..

ON-OFF Switches 3-pole, 4-pole

ON-OFF Switches 6-pole  
for LTS20 - 40 only

ON-OFF Switches 6-pole, 8-pole  
Changeover Switches 3-pole, 4-pole



Type	padlock device	Changeover ON-OFF						G	3,4-pole			3,4-pole		
		3-pole	4-pole	6-pole	8-pole	aux. contact	4.pole PE		3-pole 4-pole	6-pole	8-pole	3-pole 4-pole	6-pole	8-pole
		B	B	B	B	B1	B2	M		M	M	N	N	N
LTS20 - 40	SV1, SV164	48	48	77	96	10	14,5	64	60	60	74	52	52	97 <sup>2)</sup>
LTS63, 80	SV1, SV164	48	62,5	96	125	10	14,5	64	60	74	74	52	97 <sup>2)</sup>	126 <sup>1)</sup>
LTS85-125..	SV164	78	78	-	-	10	-	85	60	-	-	78	-	-

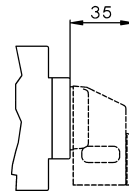
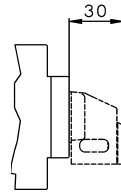
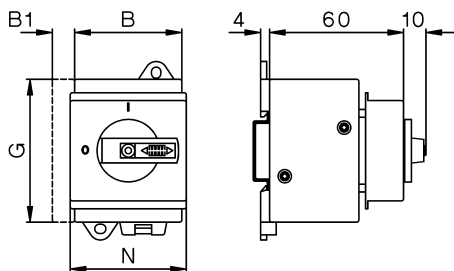
#### Installation cover with low height handle LTS SMAHN1.. +SV1N

Main switch 3-pole, 4-pole

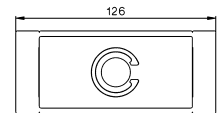
LTS20 - LTS80

Padlock device SV1

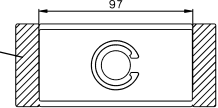
Padlock device SV164



1) Original cover

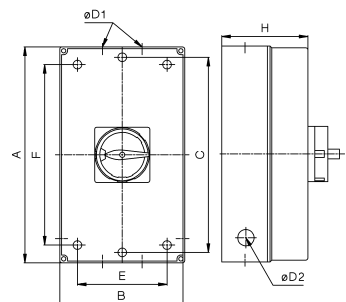


2) Remove cover parts



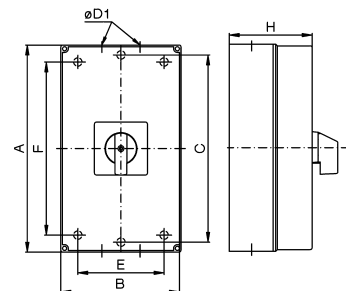
### Maintenance and Safety Switches LT(S)..PF..

Type	pole	size	A	B	C	D1	D2	E	F	H
LTS20 PFH.. A. - LTS40 PFH.. A. <sup>3)</sup>	3, 4	PF1	130	98	121	2x25,5/20,5	-	75	100	76
LTS20 PFLH.. A., LTS40 PFLH A. <sup>3)</sup>	3, 4	PFL	180	98	170	2x25,5/20,5 / 16,5/12,5	-	75	150	76
LTS20 PFLH.. A. - LTS40 PFLH.. A. <sup>4)</sup>	6	PFL2	200	140	-	40,5/32,5+16,5+12,5	-	100	160	86
LTS63 PFLH.. A. - LTS80 PFLH.. A. <sup>4)</sup>	3, 4	PFL2	200	140	-	40,5/32,5+16,5+12,5	-	100	160	86
+ PF3	3, 4	PFL3	240	176	-	2x40,5/32,5	-	120	200	120
+ PF3/M50	3, 4	PFL3	240	176	-	50,5/40,5	-	120	200	120
LTS85 PFLH.. A. - LTS125 PFLH..A. <sup>4)</sup>	3, 4	PFL2	200	140	-	40,5/32,5+16,5+12,5	-	100	160	86
LTS20 PFLH.. A. - LTS40 PFLH.. A. <sup>5)</sup>	8	PFL3	240	176	-	2x40,5/32,5	-	120	200	120
LTS63 PFLH.. A. - LTS80 PFLH.. A. <sup>5)</sup>	6, 8	PFL3	240	176	-	2x40,5/32,5	-	120	200	120
LTS85 PFLH.. A. - LTS125 PFLH..A. <sup>5)</sup>	3, 4	PFL3	240	176	-	50,5/40,5	-	120	200	120
LT160 PF..	3	PF4	300	200	-	2x50,5	25,5	172	272	172
LT160 PF..	4	PF5	300	280	-	2x50,5	-	254	254	180



### Switch Disconnectors in Plastic Enclosure LTS..PF..

Type	pole	size	A	B	C	D1	E	F	H
LTS20 PF A., LTS40 PF A. <sup>3)</sup>	3, 4	PF1	130	98	121	2x25,5/20,5	75	100	76
LTS20 PFL A., LTS40 PFL A. <sup>3)</sup>	3, 4	PFL	180	98	170	2x25,5/20,5 / 16,5/12,5	75	150	76
LTS63 PFL A., LTS80 PFL A. <sup>4)</sup>	3, 4	PFL2	200	140	-	40,5/32,5+16,5+12,5	100	160	86
+ PF3	3, 4	PFL3	240	176	-	2x40,5/32,5	120	200	120
+ PF3/M50	3, 4	PFL3	240	176	-	50,5/40,5	120	200	120



Max. quantity of poles + aux. contacts in enclosure:

3) LTS40 PF.. A5 + LH11

4) LTS40 PFL.. A6, LTS80 PFL.. A5 + LH11, LTS125 PFL.. A4 + LH11

5) LTS40 PFL.. A10, LTS40 PFL.. U4 + LH11, LTS80 PFL.. A8, LTS80 PFL.. A6 + LH11, LTS80 PFL.. U4, LTS40 PFL.. U3 + LH11, LTS125 PFL.. A4+LH11