

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Introduction

Design

Design of the contacts

Each switch has three adjacent contact elements¹⁾. A 4th leading contact for switching the N conductor, a continuous PE terminal, and an auxiliary switch (1 NO + 1 NC) can be fitted to each side of the switch. The auxiliary switches operate as leading contacts on opening. On opening, the NO contact opens before the main contacts, so that a contactor carries the switching capacity in the circuit and the maintenance or safety switch switches at zero current. On closing, the auxiliary switch switches later than or at the same time as the main contacts.

Design of rotary operating mechanisms

The rotary operating mechanisms of the switches for front or floor mounting are mounted on control cabinet doors, front or side panels with four-hole or center-hole mounting with a standard diameter of 22.5 mm and operated from the outside. In their Off position, they can be locked with up to three padlocks with a hasp thickness of 8 mm. Controls with defeatable door-coupling rotary operating mechanism are available in addition.

- **Switch position indicator:**
The switch position is clearly marked with direction arrows and an "O" for OFF and a "I" for ON at the front.
- **Switches for front mounting:**
The switches for front mounting are connected directly to the rotary operating mechanism through the fixing screws or – in the case of center-hole mounting – a special-purpose coupling.
- **Switches for floor mounting:**
The switches for floor mounting are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting plates. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The mounting depth can be adapted to individual requirements by adjusting the switch shaft length.
- **Switches for distribution board mounting:**
The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. They have cap and mounting dimensions to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers. The selector switches can be locked in their OFF position with up to 2 padlocks with a hasp thickness of 6 mm.
- **Switches in molded-plastic enclosure:**
For surface mounting of individual main control and EMERGENCY-STOP switches, molded plastic-enclosed switches to degree of protection IP65 are used. The actuators can be locked in their OFF position with three padlocks with a hasp thickness of 8 mm. The molded-plastic enclosures each contain an N and/or a PE terminal.

¹⁾ 16 A versions have four contact elements; 3-pole changeover switches and 6-pole main control switches have six contact elements.



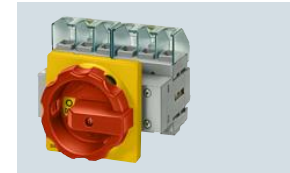
3LD2704-0TK53 switch for front mounting with rotary operating mechanism



3LD2222-0TK1 switch for front mounting with knob



3LD2122-7UK01 3-pole changeover switch for front mounting with knob



3LD2103-3VK53 6-pole switch for front mounting with rotary operating mechanism



3LD2144-0TK53 switch for floor mounting with rotary operating mechanism and door coupling



3LD2530-0TK11 switch for distribution board mounting with knob



3LD2264-0TB5 switch in molded-plastic enclosure



3LD2217-1TL13 switch for floor mounting with rotary operating mechanism and defeatable door coupling



3LD2265-8VQ51-0AF6 DC isolator



3LD2418-0TK13 switch for floor mounting, 250 A, with rotary operating mechanism and door coupling

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Introduction

Technical specifications

Standards		DIN VDE 0660, IEC 60947								
Switches		Type	3LD20	3LD21	3LD22	3LD25	3LD27	3LD28	3LD23	3LD24
Rated insulation voltage U_i		V	690							
Rated operational voltage U_e		V AC	690							
Rated frequency		Hz	50 ... 60							
Rated impulse withstand voltage U_{imp}		kV	6	6	6	6	6	6	6	6
Rated short-time withstand current (1 s current, rms value)		A	340	640	640	1260	2000	2000	4000	4000
Short-circuit protection, max. back-up fuse (gL)		A	20	25	40	63	100	125	160	250
Rated conditional short-circuit current with upstream fuses at AC 50/60 Hz, 690 V		kArms	50	50	50	50	50	20	50	50
Maximum permissible let-through I^2t value		kA ² s	2.5	4	9	21	64	104	185	557
Permissible let-through current of the fuse		kA	3	3.5	4.5	6	10	10	15	15
Rated uninterrupted current I_u		A	16	25	32	63	100	125	160	250
AC-21A load-break switch	Rated operational current I_e	A	16	25	32	63	100	125	160	250
AC-3 motor load switches	Rating									
In-service switching of individual motors	At 220 ... 240 V	kW	3.0	4.0	5.5	11.0	18.5	22.0	35.0	55.0
	At 380 ... 440 V	kW	5.5	7.5	9.5	18.5	30.0	37.0	50.0	110.0
	At 660/690 V	kW	5.5	7.5	9.5	15.0	22.0	30.0	37.0	45.0
AC-23A main control switch	Rating									
Repair switch	At 220 ... 240 V	kW	4.0	5.0	6.0	11.0	18.5	22.0	45.0	75.0
frequent, but not in-service switching of individual motors	At 380 ... 440 V	kW	7.5	9.5	11.5	22.0	37.0	45.0	75.0	132.0
	At 660/690 V	kW	7.5	9.5	11.5	18.5	30.0	37.0	45.0	55.0
Power loss per conducting path at I_e		W	0.5	1.1	1.8	4.5	7.5	12.0	36.0	36.0
Endurance mechanical		Operating cycles	100 000							
Switching frequency		1/h	50							
Permissible ambient temperature		°C	-25 ... +55							
Isolating features		Up to max.	V 690							
Conductor cross-sections for main conductors ¹⁾										
Solid or stranded		mm ²	1 ... 6	1.5 ... 16	1.5 ... 16	2.5 ... 35	4 ... 50	4 ... 50	16 ... 185	16 ... 185
Finely stranded with end sleeve (max.)		mm ²	4	10	10	16	35	35	150	150
Conductor cross-sections		Copper cable	AWG	18 ... 10	14 ... 8	14 ... 8	14 ... 6	12 ... 1	12 ... 1	
Torque for terminal		Nm	1.5 ... 2	2 ... 2.5	2 ... 2.5	2.5 ... 3	2.5 ... 3	2.5 ... 3	9.5 ... 10	9.5 ... 10
Touch protection according to EN 50274			Yes							
Auxiliary switches										
Rated insulation voltage U_i		V	500							
Rated operational voltage U_e		V AC	500							
Rated uninterrupted current I_u		A	10							
Rated operational current I_e , AC-15		At 120 V	A 6							
	At 220 ... 240 V	A	3							
	At 380 ... 415 V	A	1.8							
	At 500 V	A	1.4							
Short-circuit protection, auxiliary switch, max. back-up fuse (gL/gG)		A	10							
Conductor cross-sections for auxiliary conductors										
Connection type			Terminals							
Solid or stranded		mm ²	2 × (0.75 ... 2.5), 1 × 4							
Finely stranded with end sleeve		mm ²	2 × (0.75 ... 1.5) 1 × 2.5							
Torque for terminal		Nm	0.8							

3LD switches for UL/CSA as "manual motor controllers" ²⁾

Standards		UL/CSA								
Switches		Type	3LD20	3LD21	3LD22	3LD25	3LD27	3LD28	3LD23	3LD24
Rated operational voltage U_e		V AC	600							
Rated uninterrupted current I_u		A	10	20	30	60	100	125	160	250
Current rating		A 600	A 600							
Pilot duty		P 600	P 600							
Conventional thermal current I_{th}		A	16	25	32	63	100	125	160	250
Maximum rated power (AC-3)		3 ~ 120 V	HP 1	3	3	5	10	15	--	--
Alternating current motors 40 ... 60 Hz (HP = PS)		240 V	HP 3	7.5	10 (7.5) ³⁾	15	30	40	40	50
	480 V	HP 7.5	10	20 (15) ³⁾	40	60	75	75	100	
	600 V	HP 10	15	30 (20) ³⁾	50	75	100	75	75	
	1 ~ 120 V	HP 0.5	2	2	3	--	--	--	--	
	240 V	HP 1.5	3	3	10	--	--	--	--	
Conductor cross-sections		Cu cable	AWG	18 ... 10	14 ... 8	14 ... 8	14 ... 6	12 ... 1	12 ... 1	1 ... MCM400
Torque		Nm	1.5 ... 2	2 ... 2.5	2 ... 2.5	2.5 ... 3	2.5 ... 3	2.5 ... 3	10	10

¹⁾ Depending on the cable infeed, only small cross-sections are possible with devices in molded-plastic enclosures.

²⁾ The 3LD switches for UL/CSA are approved in accordance with UL/CSA as "manual motor controllers", and they can be used as repair switches in the molded-plastic enclosure, for example. However, they do not have UL approval as main control switches.

³⁾ Values in brackets apply to devices in molded-plastic enclosure

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Front mounting



Selection and ordering data

Number and version of the contacts	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Main contact elements	Aux. cont. elements	P/AC-3 kW							

Main control and EMERGENCY-STOP switches with rotary operating mechanism/knob-operated mechanism

- Lockable in 0 position with up to 3 padlocks
- Degree of protection at front side IP65
- All versions with rotary operating mechanism
Exception: 3LD23 and 3LD24 with knob-operated mechanism
- Including terminal cover for the infeed side
- Front plate:
 - 3LD20, 3LD21, 3LD22: 67 mm × 67 mm
 - 3LD25 to 3LD28: 90 mm × 90 mm
 - 3LD23 to 3LD24: 96 mm × 96 mm

Four-hole mounting

	3	--	5.5	7.5	16	3LD2003-0TK5□	1	1 unit	1CL	0.208			
			7.5	9.5	25	3LD2103-0TK5□	1	1 unit	1CL	0.201			
			9.5	11.5	32	3LD2203-0TK5□	1	1 unit	1CL	0.200			
			18.5	22.0	63	3LD2504-0TK5□	1	1 unit	1CL	0.413			
			30	37.0	100	3LD2704-0TK5□	1	1 unit	1CL	0.497			
			37	45.0	125	3LD2804-0TK5□	1	1 unit	1CL	0.501			
			50	75.0	160	3LD2305-0TK1□	1	1 unit	1CL	2.089			
			110	132.0	250	3LD2405-0TK1□	1	1 unit	1CL	2.097			
				3 + N	--	5.5	7.5	16	3LD2003-1TL5□	1	1 unit	1CL	0.218
						7.5	9.5	25	3LD2103-1TL5□	1	1 unit	1CL	0.236
9.5	11.5	32				3LD2203-1TL5□	1	1 unit	1CL	0.235			
18.5	22.0	63				3LD2504-1TL5□	1	1 unit	1CL	0.485			
30.0	37.0	100				3LD2704-0TK5□ + ¹⁾	1	1 unit	1CL	0.497			
37.0	45.0	125				3LD2804-0TK5□ + ¹⁾	1	1 unit	1CL	0.501			
50	75.0	160				3LD2305-1TL1□	1	1 unit	1CL	2.609			
110	132.0	250				3LD2405-1TL1□	1	1 unit	1CL	2.611			
	3	1 NO + 1 NC				5.5	7.5	16	3LD2003-1TP5□	1	1 unit	1CL	0.228
						7.5	9.5	25	3LD2103-1TP5□	1	1 unit	1CL	0.224
			9.5	11.5	32	3LD2203-1TP5□	1	1 unit	1CL	0.220			
			18.5	22.0	63	3LD2504-1TP5□	1	1 unit	1CL	0.438			
			30.0	37.0	100	3LD2704-1TP5□	1	1 unit	1CL	0.508			
			37	45.0	125	3LD2804-1TP5□	1	1 unit	1CL	0.517			
			50.0	75.0	160	3LD2305-0TK1□ + ²⁾	1	1 unit	1CL	2.089			
			110.0	132.0	250	3LD2405-0TK1□ + ²⁾	1	1 unit	1CL	2.097			
				3 + N	1 NO + 1 NC	5.5	7.5	16	3LD2003-2EP5□	1	1 unit	1CL	0.237
						7.5	9.5	25	3LD2103-2EP5□	1	1 unit	1CL	0.253
9.5	11.5	32				3LD2203-1TL5□ + ²⁾	1	1 unit	1CL	0.235			
18.5	22.0	63				3LD2504-1TP5□ + ¹⁾	1	1 unit	1CL	0.438			
30.0	37.0	100				3LD2704-0TK5□ + ¹⁾	1	1 unit	1CL	0.497			
37.0	45.0	125				3LD2804-0TK5□ + ¹⁾	1	1 unit	1CL	0.501			
50.0	75.0	160				3LD2305-1TL1□ + ²⁾	1	1 unit	1CL	2.609			
110.0	132.0	250				3LD2405-1TL1□ + ²⁾	1	1 unit	1CL	2.611			
						5.5	7.5	16	3LD2003-2EP5□	1	1 unit	1CL	0.237
						7.5	9.5	25	3LD2103-2EP5□	1	1 unit	1CL	0.253
			9.5	11.5	32	3LD2203-1TL5□ + ²⁾	1	1 unit	1CL	0.235			
			18.5	22.0	63	3LD2504-1TP5□ + ¹⁾	1	1 unit	1CL	0.438			
			30.0	37.0	100	3LD2704-0TK5□ + ¹⁾	1	1 unit	1CL	0.497			
			37.0	45.0	125	3LD2804-0TK5□ + ¹⁾	1	1 unit	1CL	0.501			
			50.0	75.0	160	3LD2305-1TL1□ + ²⁾	1	1 unit	1CL	2.609			
			110.0	132.0	250	3LD2405-1TL1□ + ²⁾	1	1 unit	1CL	2.611			
						5.5	7.5	16	3LD2003-2EP5□	1	1 unit	1CL	0.237
						7.5	9.5	25	3LD2103-2EP5□	1	1 unit	1CL	0.253
9.5	11.5	32				3LD2203-1TL5□ + ²⁾	1	1 unit	1CL	0.235			
18.5	22.0	63				3LD2504-1TP5□ + ¹⁾	1	1 unit	1CL	0.438			
30.0	37.0	100				3LD2704-0TK5□ + ¹⁾	1	1 unit	1CL	0.497			
37.0	45.0	125				3LD2804-0TK5□ + ¹⁾	1	1 unit	1CL	0.501			
50.0	75.0	160				3LD2305-1TL1□ + ²⁾	1	1 unit	1CL	2.609			
110.0	132.0	250				3LD2405-1TL1□ + ²⁾	1	1 unit	1CL	2.611			

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3


¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/22, "Accessories".

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3 kW	P/AC-23A kW	I _n /AC-21A A							kg
<p>Main control and EMERGENCY-STOP switches with direct operating mechanism (rotary operating mechanism/knob-operated mechanism)</p> <ul style="list-style-type: none"> • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • All versions with rotary operating mechanism Exception: 3LD23 and 3LD24 with knob-operated mechanism • Including terminal cover for the infeed side • Front plate <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 67 mm × 67 mm - 3LD25 to 3LD28: 90 mm × 90 mm - 3LD23 to 3LD24: 96 mm × 96 mm 											
Center-hole mounting Ø 22.5 mm											
 <p>3LD2254-0TK53</p>	3	--	5,5	7,5	16	3LD2054-0TK5□		1	1 unit	1CL	0.208
			7,5	9,5	25	3LD2154-0TK5□		1	1 unit	1CL	0.203
			9,5	11,5	32	3LD2254-0TK5□		1	1 unit	1CL	0.203
			18,5	22	63	3LD2555-0TK5□		1	1 unit	1CL	0.419
	3 + N	--	5,5	7,5	16	3LD2054-1TL5□		1	1 unit	1CL	0.220
			7,5	9,5	25	3LD2154-1TL5□		1	1 unit	1CL	0.246
			9,5	11,5	32	3LD2254-1TL5□		1	1 unit	1CL	0.242
			18,5	22	63	3LD2555-0TK5□ + ¹⁾		1	1 unit	1CL	0.419
						3LD9250-0BA		1	1 unit	1CL	0.075
	3	1 NO + 1 NC	5,5	7,5	16	3LD2054-1TP5□		1	1 unit	1CL	0.231
			7,5	9,5	25	3LD2154-1TP5□		1	1 unit	1CL	0.229
			9,5	11,5	32	3LD2254-0TK5□ + ²⁾		1	1 unit	1CL	0.203
					3LD9200-5B		1	1 unit	1CL	0.020	
		18,5	22	63	3LD2555-0TK5□ + ²⁾		1	1 unit	1CL	0.419	
					3LD9200-5B		1	1 unit	1CL	0.020	
3 + N	1 NO + 1 NC	5,5	7,5	16	3LD2054-2EP5□		1	1 unit	1CL	0.242	
		7,5	9,5	25	3LD2154-2EP5□		1	1 unit	1CL	0.262	
		9,5	11,5	32	3LD2254-1TL5□ + ²⁾		1	1 unit	1CL	0.242	
					3LD9200-5B		1	1 unit	1CL	0.020	
		18,5	22	63	3LD2555-0TK5□ + ¹⁾		1	1 unit	1CL	0.419	
					3LD9250-0BA + ²⁾		1	1 unit	1CL	0.075	
					3LD9200-5B + ²⁾		1	1 unit	1CL	0.020	

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

 1
3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A


Front mounting

Number and version of the contacts		Rated data 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							
		kW	A							kg

Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism)

- Lockable in 0 position (can be modified to I position) with max. 2 padlocks
- Degree of protection at front side IP65
- Including terminal cover for the infeed side
- Front plate
 - 48 mm × 48 mm

Four-hole mounting

 3LD2222-0TK11	3	-	7.5	16	3LD2022-0TK1□	1	1 unit	1CL	0.183		
			9.5	25	3LD2122-0TK1□	1	1 unit	1CL	0.177		
			11.5	32	3LD2222-0TK1□	1	1 unit	1CL	0.176		
	3 + N	-	7.5	16	3LD2022-1TL1□	1	1 unit	1CL	0.196		
			9.5	25	3LD2122-1TL1□	1	1 unit	1CL	0.214		
			11.5	32	3LD2222-0TK1□ +1)	1	1 unit	1CL	0.176		
	3	1 NO + 1 NC	7.5	16	3LD2022-0TK1□ +2)	1	1 unit	1CL	0.183		
				9.5	25	3LD9200-5B	1	1 unit	1CL	0.020	
				11.5	32	3LD2122-0TK1□ +2)	1	1 unit	1CL	0.177	
			9.5	25	3LD9200-5B	1	1 unit	1CL	0.020		
				11.5	32	3LD2222-0TK1□ +2)	1	1 unit	1CL	0.176	
				3LD9200-5B	1	1 unit	1CL	0.020			
3 + N			1 NO + 1 NC	7.5	16	3LD2022-1TL1□ +2)	1	1 unit	1CL	0.196	
					9.5	25	3LD9200-5B	1	1 unit	1CL	0.020
					11.5	32	3LD2122-1TL1□ +2)	1	1 unit	1CL	0.214
9.5	25	3LD9200-5B	1	1 unit	1CL	0.020					
	11.5	32	3LD2222-0TK1□ +1)	1	1 unit	1CL	0.176				
	3LD9200-5B	1	1 unit	1CL	0.020						

Actuator color

- Black
- Red/yellow (EMERGENCY-STOP)

1
3


1) 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							
Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism) <ul style="list-style-type: none"> • Lockable in 0 position (can be modified to I position) with max. 2 padlocks • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate: 48 mm × 48 mm 										
Center-hole mounting Ø 22.5 mm										
 3LD2150-0TK13	3	--	7.5	16	3LD2050-0TK1□		1	1 unit	1CL	0.190
			9.5	25	3LD2150-0TK1□		1	1 unit	1CL	0.182
			11.5	32	3LD2250-0TK1□		1	1 unit	1CL	0.183
	3 + N	--	7.5	16	3LD2050-1TL1□		1	1 unit	1CL	0.198
			9.5	25	3LD2150-0TK1□ +2)		1	1 unit	1CL	0.182
			11.5	32	3LD2250-0TK1□ +2)		1	1 unit	1CL	0.183
	3	1 NO + 1 NC	7.5	16	3LD2050-0TK1□ +2)		1	1 unit	1CL	0.190
			9.5	25	3LD9200-5B +2)		1	1 unit	1CL	0.020
			11.5	32	3LD2250-0TK1□ +2)		1	1 unit	1CL	0.183
	3 + N	1 NO + 1 NC	7.5	16	3LD2050-1TL1□ +2)		1	1 unit	1CL	0.198
			9.5	25	3LD9200-5B +1)		1	1 unit	1CL	0.182
			11.5	32	3LD2250-0TK1□ +1)		1	1 unit	1CL	0.183

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

1) 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Front mounting

Number and version of the contacts	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Main contact elements	Auxiliary contact elements	P/AC-3 kW							

Main control and EMERGENCY-STOP switches with direct operating mechanism (rotary operating mechanism/knob-operated mechanism), 6-pole

- Lockable in 0 position with up to 3 padlocks
- Degree of protection at front side IP65
- All versions with rotary operating mechanism
Exception: 3LD23 and 3LD24 with knob-operated mechanism
- Including terminal cover for the infeed side
- Front plate
 - 3LD20, 3LD21, 3LD22: 67 mm × 67 mm
 - 3LD25: 90 mm × 90 mm
 - 3LD23 to 3LD24: 96 mm × 96 mm

Four-hole mounting



3LD2103-3VK53

6	-	7.5	9.5	25	3LD2103-3VK5□		1	1 unit	1CL	0.380
		9.5	11.5	32	3LD2203-3VK5□					
		18.5	22.0	63	3LD2504-3VK5□					
		50	75	160	3LD2305-3VK1□					
		110	132	250	3LD2405-3VK1□					
6	1 NO + 1 NC	7.5	9.5	25	3LD2103-4VP5□	1	1 unit	1CL	0.420	

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Number and version of the contacts	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Main contact elements	Auxiliary contact elements	P/AC-3 kW							

Changeover switches with direct operating mechanism (knob-operated mechanism)

- Black actuator
- Knob-operated mechanism on 3LD23 and 3LD24 is lockable, on all other versions it is non-lockable
- Degree of protection at front side IP65

Four-hole mounting



3LD2123-7UK01



3LD2405-7UL01


3	-	7.5	9.5	25	3LD2123-7UK01		1	1 unit	1CL	0.378
		9.5	11.5	32	3LD2223-7UK01					
		18.5	22.0	63	3LD2524-7UK01					
		30.0	37.0	100	3LD2724-7UK01					
		50	75	160	3LD2305-7UK01					
		110	132	250	3LD2405-7UK01					
3 + N		50	75	160	3LD2305-7UL01	1	1 unit	1CL	5.786	
		110	132	250	3LD2405-7UL01	1	1 unit	1CL	5.865	

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Floor mounting

Selection and ordering data

Number and version of the contacts	Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	Main contact elements	Auxiliary contact elements								P/AC-23A kW
<p>Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism</p> <ul style="list-style-type: none"> • With shaft • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism with integrated tolerance compensation (16 to 125 A) • All versions with rotary operating mechanism • Exception: 3LD23 and 3LD24 with knob-operated mechanism • Mounting using screws or snap-on mounting on 35 mm standard mounting rail (16 to 125 A) • Including terminal cover for the infeed side • Front plate <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 67 mm x 67 mm - 3LD25 to 3LD28: 90 mm x 90 mm - 3LD23 to 3LD24: 96 mm x 96 mm • Mounting dimensions <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 380 mm - 3LD25 to 3LD28: 390 mm - 3LD23 to 3LD24: 600 mm 										
kg										
Four-hole mounting										
 3LD2213-0TK53	3	--	7.5	16	3LD2013-0TK5□	1	1 unit	1CL	0.413	
			9.5	25	3LD2113-0TK5□	1	1 unit	1CL	0.399	
			11.5	32	3LD2213-0TK5□	1	1 unit	1CL	0.409	
			22	63	3LD2514-0TK5□	1	1 unit	1CL	0.640	
			37	100	3LD2714-0TK5□	1	1 unit	1CL	0.756	
			45	125	3LD2814-0TK5□	1	1 unit	1CL	0.752	
			75	160	3LD2318-0TK1□	1	1 unit	1CL	2.750	
			132	250	3LD2418-0TK1□	1	1 unit	1CL	2.761	
		3 + N	--	7.5	16	3LD2013-1TL5□	1	1 unit	1CL	0.420
				9.5	25	3LD2113-1TL5□	1	1 unit	1CL	0.439
				11.5	32	3LD2213-1TL5□	1	1 unit	1CL	0.443
				22	63	3LD2514-1TL5□	1	1 unit	1CL	0.712
				37	100	3LD2714-0TK5□ + ¹⁾	1	1 unit	1CL	0.756
						3LD9280-0C	1	1 unit	1CL	0.097
			45	125	3LD2814-0TK5□ + ¹⁾	1	1 unit	1CL	0.752	
					3LD9280-0C	1	1 unit	1CL	0.097	
			75	160	3LD2318-1TL1□	1	1 unit	1CL	3.239	
			132	250	3LD2418-1TL1□	1	1 unit	1CL	3.264	

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1


3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Floor mounting

	Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
	Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							
 3LD2213-0TK53	3	1 NO + 1 NC	7.5	16		3LD2013-0TK5 ⁺²⁾		1	1 unit	1CL	0.413
			9.5	25		3LD2113-0TK5 ⁺²⁾		1	1 unit	1CL	0.020
			11.5	32		3LD2213-0TK5 ⁺²⁾		1	1 unit	1CL	0.409
			22	63		3LD2514-0TK5 ⁺²⁾		1	1 unit	1CL	0.640
			37	100		3LD2714-0TK5 ⁺²⁾		1	1 unit	1CL	0.756
			45	125		3LD2814-0TK5 ⁺²⁾		1	1 unit	1CL	0.752
			75	160		3LD2318-0TK1 ⁺²⁾		1	1 unit	1CL	2.750
			132	250		3LD2418-0TK1 ⁺²⁾		1	1 unit	1CL	2.761
			7.5	16		3LD2013-1TL5 ⁺²⁾		1	1 unit	1CL	0.420
			9.5	25		3LD2113-1TL5 ⁺²⁾		1	1 unit	1CL	0.439
			11.5	32		3LD2213-1TL5 ⁺²⁾		1	1 unit	1CL	0.443
			22	63		3LD2514-1TL5 ⁺²⁾		1	1 unit	1CL	0.712
			37	100		3LD2714-0TK5 ⁺¹⁾		1	1 unit	1CL	0.756
			45	125		3LD2814-0TK5 ⁺¹⁾		1	1 unit	1CL	0.752
75	160		3LD2318-1TL1 ⁺²⁾		1	1 unit	1CL	3.239			
132	250		3LD2418-1TL1 ⁺²⁾		1	1 unit	1CL	3.264			
						3LD9200-5C		1	1 unit	1CL	0.020

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3


1) 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							
<p>Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism</p> <ul style="list-style-type: none"> • With shaft • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism with integrated tolerance compensation (16 to 125 A) • All versions with rotary operating mechanism • Exception: 3LD23 and 3LD24 with knob-operated mechanism • Mounting using screws or snap-on mounting on 35 mm standard mounting rail (16 to 125 A) • Including terminal cover for the infeed side • Front plate <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 67 mm x 67 mm - 3LD25 to 3LD28: 90 mm x 90 mm - 3LD23 to 3LD24: 96 mm x 96 mm • Mounting dimensions <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 380 mm - 3LD25 to 3LD28: 390 mm - 3LD23 to 3LD24: 600 mm 										
Center-hole mounting Ø 22.5 mm										
 <p>3LD2144-0TK53</p>	3	--	7.5	16	3LD2044-0TK5□		1	1 unit	1CL	0.433
			9.5	25	3LD2144-0TK5□		1	1 unit	1CL	0.423
			11.5	32	3LD2244-0TK5□		1	1 unit	1CL	0.424
			22	63	3LD2545-0TK5□		1	1 unit	1CL	0.688
	3 + N	--	7.5	16	3LD2044-1TL5□		1	1 unit	1CL	0.441
			9.5	25	3LD2144-1TL5□		1	1 unit	1CL	0.462
			11.5	32	3LD2244-1TL5□		1	1 unit	1CL	0.455
			22	63	3LD2545-0TK5□ + ¹⁾		1	1 unit	1CL	0.688
					3LD9250-OCA		1	1 unit	1CL	0.074
	3	1 NO + 1 NC	7.5	16	3LD2044-0TK5□ + ²⁾		1	1 unit	1CL	0.433
			9.5	25	3LD2144-0TK5□ + ²⁾		1	1 unit	1CL	0.423
			11.5	32	3LD2244-0TK5□ + ²⁾		1	1 unit	1CL	0.424
			22	63	3LD2545-0TK5□ + ²⁾		1	1 unit	1CL	0.688
					3LD9200-5C		1	1 unit	1CL	0.020
	3 + N	1 NO + 1 NC	7.5	16	3LD2044-1TL5□ + ²⁾		1	1 unit	1CL	0.441
			9.5	25	3LD2144-1TL5□ + ²⁾		1	1 unit	1CL	0.462
			11.5	32	3LD2244-1TL5□ + ²⁾		1	1 unit	1CL	0.455
			22	63	3LD2545-0TK5□ + ¹⁾		1	1 unit	1CL	0.688
					3LD9250-OCA + ²⁾		1	1 unit	1CL	0.074
					3LD9200-5C		1	1 unit	1CL	0.020

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories"

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/22, "Accessories"

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Floor mounting

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3 kW	P/AC-23A kW	I_u A							kg

Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism (6-pole)

- Lockable in 0 position with up to 3 padlocks
- Degree of protection at front side IP65
- Door-coupling rotary operating mechanism with integrated tolerance compensation (for 3LD21)
- All versions with rotary operating mechanism
Exception: 3LD23 and 3LD24 with door-coupling rotary operating mechanism as selector switch
- Mounting using screws or snap-on mounting on 35 mm standard mounting rails
- Including terminal cover for the infeed side
- Front plate
- 3LD20, 3LD21, 3LD22: 67 mm × 67 mm
- 3LD23, 3LD24: 96 mm × 96 mm

7

Four-hole mounting

6	–	7.5	9.5	25		3LD2113-3VK5□		1	1 unit	1CL	0.588
6	–	50	75	160		3LD2318-3VK1□		1	1 unit	1CL	4.568
6	–	110	132	250		3LD2418-3VK1□		1	1 unit	1CL	4.530
6	1 NO + 1 NC	9.5	9.5	25		3LD2113-4VP5□		1	1 unit	1CL	0.608



3LD2113-3VK51

Actuator color

- Black
- Red/yellow (EMERGENCY-STOP)

1
3

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3 kW	P/AC-23A kW	I_u A							kg

Changeover switches with door-coupling rotary operating mechanism

- Lockable in 0 position with up to 3 padlocks
- Handle and cover black
- Door-coupling rotary operating mechanisms as selector switch
- Degree of protection at front side IP65

Four-hole mounting

3		50	75	160		3LD2318-7UK01		1	1 unit	1CL	5.156
3		110	132	250		3LD2418-7UK01		1	1 unit	1CL	5.191
3 + N		50	75	160		3LD2318-7UL01		1	1 unit	1CL	6.543
3 + N		110	132	250		3LD2418-7UL01		1	1 unit	1CL	6.533

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							
		kW	A							kg

Main control and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism

The 3LD main control and EMERGENCY-STOP switch with defeatable door-coupling rotary operating mechanism enables you to conduct repairs, maintenance work or tests on electrical plants and machines without having to interrupt their operation. With the help of the defeatable door-coupling rotary operating mechanism, an electrician can bypass locking in the ON position and open the control cabinet door with the plant activated.

3LD main control and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism are approved according to UL 508.

- With 300 mm switch shaft
- Lockable in 0 position with up to 3 padlocks
- Degree of protection at front side IP65
- Door-coupling rotary operating mechanism with integrated tolerance compensation
- Mounting using screws or snap-on mounting on 35 mm standard mounting rails
- Including terminal cover for the infeed side
- Front plate 65 mm x 65 mm

Four-hole mounting



3LD2017-0TK..

3	-	7.5	16	3LD2017-0TK1□	1	1 unit	1CL	0.419
		11.5	32	3LD2217-0TK1□	1	1 unit	1CL	0.415
		22	63	3LD2517-0TK1□	1	1 unit	1CL	0.573
3 + N	-	7.5	16	3LD2017-1TL1□	1	1 unit	1CL	0.435
		11.5	32	3LD2217-1TL1□	1	1 unit	1CL	0.448
		22	63	3LD2517-1TL1□	1	1 unit	1CL	0.634

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

7

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Floor mounting

Accessories


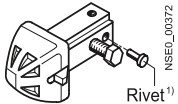

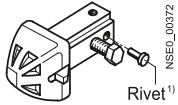
Defeatable door-coupling rotary operating mechanisms from 100 A - 250 A

For switch disconnectors with door-coupling rotary operating mechanisms, a defeatable door-coupling rotary operating mechanism can be assembled with the following components from the 8UC7 series.

The following components are to be used for this purpose:

- For switch disconnectors with 3LD27 and 3LD28 door-coupling rotary operating mechanisms:
 - 8UC7110-1BB
 - 8UC7120-3BB
 - 8UC6011
- For switch disconnectors with 3LD23 and 3LD24 door-coupling rotary operating mechanisms:
 - 8UC7210-1BB
 - 8UC7220-3BB
 - 8UC6012

7

	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ²⁾	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms Article No. www.siemens.com/product?Article No. Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Type		mm x mm							kg
Components for 3LD27, 3LD28										
	8UC71	1	6 × 6	Standard	EMERGENCY-STOP	8UC7110-1BB 8UC7120-3BB	1	1 unit	1CL	0.175
8UC71							1	1 unit	1CL	0.178
	8UC71	1	6 × 6	–		8UC6011	1	1 unit	1CL	0.072
8UC6011										
Components for 3LD23, 3LD24										
	8UC72	2	8 × 8	Standard	EMERGENCY-STOP	8UC7210-1BB 8UC7220-3BB	1	1 unit	1CL	0.190
8UC74							1	1 unit	1CL	0.186
	8UC72	2	8 × 8	--		8UC6012	1	1 unit	1CL	0.073
8UC6012										

¹⁾ Non-interchangeability features.



²⁾ Standard: Ti-gray handle, light-gray masking plate;
EMERGENCY-STOP: Red handle, yellow masking plate.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Distribution board mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Main contact elements	Auxiliary contact elements	P/AC-23A kW	I_u A							
ON/OFF and EMERGENCY-STOP switches with masking plate and selector knob										
<ul style="list-style-type: none"> • With screw fixing • With snap-on mounting on 35 mm standard mounting rail (16 to 125 A) • Lockable in 0 position with up to 2 (160 A and 250 A: max. 3) padlocks • Degree of protection at front side IP44 • Including terminal cover for the infeed side (160 A and 250 A only) 										
 3LD2530-0TK13	3	--	7.5	16	3LD2030-0TK1□		1	1 unit	1CL	0.169
			9.5	25	3LD2130-0TK1□		1	1 unit	1CL	0.163
			11.5	32	3LD2230-0TK1□		1	1 unit	1CL	0.165
			22	63	3LD2530-0TK1□		1	1 unit	1CL	0.303
			37	100	3LD2730-0TK1□		1	1 unit	1CL	0.375
			45	125	3LD2830-0TK1□		1	1 unit	1CL	0.374
			75	160	3LD2330-0TK1□		1	1 unit	1CL	2.040
 3LD2330-0TK11	3 + N	--	7.5	16	3LD2030-1TL1□		1	1 unit	1CL	0.183
			9.5	25	3LD2130-0TK1□ + ¹⁾		1	1 unit	1CL	0.163
					3LD9220-0C		1	1 unit	1CL	0.036
			11.5	32	3LD2230-0TK1□ + ¹⁾		1	1 unit	1CL	0.165
					3LD9220-0C		1	1 unit	1CL	0.036
			22	63	3LD2530-0TK1□ + ¹⁾		1	1 unit	1CL	0.303
					3LD9250-OCA		1	1 unit	1CL	0.074
			37	100	3LD2730-0TK1□ + ¹⁾		1	1 unit	1CL	0.375
					3LD9280-0C		1	1 unit	1CL	0.097
			45	125	3LD2830-0TK1□ + ¹⁾		1	1 unit	1CL	0.374
					3LD9280-0C		1	1 unit	1CL	0.097
			75	160	3LD2330-0TK1□ + ¹⁾		1	1 unit	1CL	2.040
					3LD9240-0C		1	1 unit	1CL	0.498
132	250	3LD2430-0TK1□ + ¹⁾		1	1 unit	1CL	2.030			
		3LD9240-0C		1	1 unit	1CL	0.498			

Actuator color

Black

Red/yellow (EMERGENCY-STOP)


1
3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/22, "Accessories, accessories for floor mounting"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Distribution board mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							
 3LD2530-0TK11	3	1 NO + 1 NC	7.5	16	3LD2030-0TK1□⁺²⁾		1	1 unit	1CL	0.169
					3LD9200-5C		1	1 unit	1CL	0.020
			9.5	25	3LD2130-0TK1□⁺²⁾		1	1 unit	1CL	0.163
					3LD9200-5C		1	1 unit	1CL	0.020
			11.5	32	3LD2230-0TK1□⁺²⁾		1	1 unit	1CL	0.165
					3LD9200-5C		1	1 unit	1CL	0.020
			22	63	3LD2530-0TK1□⁺²⁾		1	1 unit	1CL	0.303
					3LD9200-5C		1	1 unit	1CL	0.020
			37	100	3LD2730-0TK1□⁺²⁾		1	1 unit	1CL	0.375
					3LD9200-5C		1	1 unit	1CL	0.020
			45	125	3LD2830-0TK1□⁺²⁾		1	1 unit	1CL	0.374
					3LD9200-5C		1	1 unit	1CL	0.020
			75	160	3LD2330-0TK1□⁺²⁾		1	1 unit	1CL	2.040
					3LD9200-5C		1	1 unit	1CL	0.020
			132	250	3LD2430-0TK1□⁺²⁾		1	1 unit	1CL	2.030
					3LD9200-5C		1	1 unit	1CL	0.020
	3 + N	1 NO + 1 NC	7.5	16	3LD2030-1TL1□⁺²⁾		1	1 unit	1CL	0.183
					3LD9200-5C		1	1 unit	1CL	0.020
			9.5	25	3LD2130-0TK1□⁺²⁾		1	1 unit	1CL	0.163
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9220-0C		1	1 unit	1CL	0.036	
		11.5	32	3LD2230-0TK1□⁺²⁾		1	1 unit	1CL	0.165	
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9220-0C		1	1 unit	1CL	0.036	
		22	63	3LD2530-0TK1□⁺²⁾		1	1 unit	1CL	0.303	
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9250-0CA		1	1 unit	1CL	0.074	
		37	100	3LD2730-0TK1□⁺²⁾		1	1 unit	1CL	0.375	
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9280-0C		1	1 unit	1CL	0.097	
		45	125	3LD2830-0TK1□⁺²⁾		1	1 unit	1CL	0.374	
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9280-0C		1	1 unit	1CL	0.097	
		75	160	3LD2330-0TK1□⁺²⁾		1	1 unit	1CL	2.040	
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9240-0C		1	1 unit	1CL	0.498	
		132	250	3LD2430-0TK1□⁺²⁾		1	1 unit	1CL	2.030	
				3LD9200-5C⁺¹⁾		1	1 unit	1CL	0.020	
				3LD9240-0C		1	1 unit	1CL	0.498	

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

1) 4th contact element as N conductor to be ordered separately;
see page 7/22, "Accessories for floor mounting"


2) Auxiliary switches 1 NO + 1 NC to be ordered separately,
see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Molded-plastic enclosures

Selection and ordering data

	Number and version of the contacts		Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Main contact elements	Auxiliary contact elements		P/AC-23A	I_u							
Main control and EMERGENCY-STOP switches												
<ul style="list-style-type: none"> • With N and/or PE/ground base terminals • Lockable in 0 position with up to 3 padlocks • Degree of protection IP65 • Rotary operating mechanisms with center-hole mounting • For floor-mounted auxiliary switches • Metric screw connection 												
	3	-	PE + N	7.5	16		3LD2064-0TB5□		1	1 unit	1CL	0.460
			PE + N	9.5	25		3LD2164-0TB5□		1	1 unit	1CL	0.458
			PE + N	11.5	32		3LD2264-0TB5□		1	1 unit	1CL	0.453
			PE + N	22	63		3LD2565-0TB5□		1	1 unit	1CL	0.900
			PE + N	37	100		3LD2766-0TB5□		1	1 unit	1CL	1.886
			PE + N	45	125		3LD2866-0TB5□		1	1 unit	1CL	1.895
	3 + N	-	PE	7.5	16		3LD2064-1TC5□		1	1 unit	1CL	0.471
			PE	9.5	25		3LD2164-1TC5□		1	1 unit	1CL	0.476
			PE	11.5	32		3LD2264-1TC5□		1	1 unit	1CL	0.477
			PE	22	63		3LD2565-1TC5□		1	1 unit	1CL	0.953
			PE + N	37	100		3LD2766-0TB5□ +¹⁾		1	1 unit	1CL	1.886
							3LD9280-0C		1	1 unit	1CL	0.097
			PE + N	45	125		3LD2866-0TB5□ +¹⁾		1	1 unit	1CL	1.895
							3LD9280-0C		1	1 unit	1CL	0.097
	3	1 NO + 1 NC	N	7.5	16		3LD2064-1GP5□		1	1 unit	1CL	0.479
			N	9.5	25		3LD2164-1GP5□		1	1 unit	1CL	0.467
			N	11.5	32		3LD2264-1GP5□		1	1 unit	1CL	0.465
			N	22	63		3LD2565-1GP5□		1	1 unit	1CL	0.907
N			37	100		3LD2766-1GP5□		1	1 unit	1CL	1.815	
N			45	125		3LD2866-1GP5□		1	1 unit	1CL	1.851	
3 + N	1 NO + 1 NC	PE	7.5	16		3LD2064-1TC5□ +²⁾		1	1 unit	1CL	0.471	
						3LD9200-5C		1	1 unit	1CL	0.020	
		PE	9.5	25		3LD2164-1TC5□ +²⁾		1	1 unit	1CL	0.476	
						3LD9200-5C		1	1 unit	1CL	0.020	
		PE	11.5	32		3LD2264-1TC5□ +²⁾		1	1 unit	1CL	0.477	
						3LD9200-5C		1	1 unit	1CL	0.020	
		PE	22	63		3LD2565-1TC5□ +²⁾		1	1 unit	1CL	0.953	
						3LD9200-5C		1	1 unit	1CL	0.020	
		N	37	100		3LD2766-1GP5□ +¹⁾		1	1 unit	1CL	1.815	
						3LD9280-0C		1	1 unit	1CL	0.097	
		N	45	125		3LD2866-1GP5□ +¹⁾		1	1 unit	1CL	1.851	
						3LD9280-0C		1	1 unit	1CL	0.097	

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

¹⁾ 4th contact element as N conductor to be ordered separately;
see page 7/22, "Accessories for floor mounting"

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately;
see page 7/22, "Accessories"

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Molded-plastic enclosures

Number and version of the contacts	Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		P/AC-3 kW	P/AC-23A kW	I_u A							

Main control and EMERGENCY-STOP switches with rotary operating mechanism (6-pole)

- With N and/or PE/ground base terminals
- Degree of protection IP65
- Metric screw connection



3LD2165-3VB53

6	-	PE + N	7.5	9.5	25	3LD2165-3VB5□ 3LD2265-3VB5□ 3LD2566-3VB5□		1	1 unit	1CL	0.868
		PE + N	9.5	11.5	32						
		PE + N	18.5	22.0	63						
6	1 NO + 1 NC	N	7.5	9.5	25	3LD2165-4VD5□ 3LD2265-4VD5□ 3LD2566-4VD5□		1	1 unit	1CL	0.877
		N	9.5	11.5	32						
		PE + N	18.5	22.0	63						

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Number and version of the contacts	Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		P/AC-3 kW	P/AC-23A kW	I_u A							

Changeover switches with direct operating mechanism (knob-operated mechanism)

- With N and/or PE/ground base terminals
- Black actuator
- Lockable in 0 position with up to 3 padlocks (25 A and 32 A)
- Metric screw connection
- Degree of protection IP65



3LD2165-7UB01

3	-	PE + N	7.5	9.5	25	3LD2165-7UB01 3LD2265-7UB01 3LD2566-7UB01 3LD2766-7UB01		1	1 unit	1CL	0.894
		PE + N	9.5	11.5	32						
		PE + N	18.5	22.0	63						
		PE + N	30.0	37.0	100						

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

DC applications

Selection and ordering data

Mains voltage	Rated current I_e at 800 V DC	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Max. V DC	DC-21A A DC-22A A							kg

DC isolators in molded-plastic enclosure

- Molded-plastic enclosure IP65
- Metric screw connection
- (W x H x D) 146 mm x 199 mm x 136 mm
- Conductor cross-sections:
 - Solid and stranded 1.5 ... 16 mm²
 - Finely stranded with end sleeve max. 10 mm²
- Lockable



3LD2265-8VQ5-0AF6

800	32	16	3LD2265-8VQ5-0AF6		1	1 unit	1CL	0.936
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Actuator color

- Black
- Red/yellow (EMERGENCY-STOP)

1
3

Mains voltage	Rated current I_e at 800 V DC	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Max. V DC	DC-21A A DC-22A A							kg

DC isolators for distribution board mounting

- Conductor cross-sections:
 - Solid and stranded 1.5 ... 16 mm²
 - Finely stranded with end sleeve max. 10 mm²
- Actuator color: Black



3LD2265-8VQ11-0AF6

800	32	16	3LD2230-8VQ11-0AF6		1	1 unit	1CL	0.419
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* You can order this quantity or a multiple thereof.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Accessories

Selection and ordering data








Version	DT	3LD20	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		Article No. www.siemens.com/ product?Article.No.	Price per PU			
For front mounting						
 3LD9200-2B	N or PE terminals Through-type	3LD9200-2B		1	1 unit	1CL 0.030
 3LD9200-5B	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC For mounting on the left and/or right, lagging switch-on, with gold-plated contacts for requesting electronic information, leading switch-off • 1 NO + 1 NC	3LD9200-5B 3LD9200-5BF		1	1 unit	1CL 0.020 1CL 0.020
For floor mounting, distribution board mounting or molded-plastic enclosures						
 3LD9200-2C	N or PE terminals Through-type	3LD9200-2C		1	1 unit	1CL 0.030
 3LD9200-5C (left)  3LD9200-6C (right)	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NC For mounting on the left and/or right, lagging switch-on, with gold-plated contacts for requesting electronic information, leading switch-off • 1 NO + 1 NC	3LD9200-5C 3LD9200-6C 3LD9200-5CF		1 1	1 unit 1 unit	1CL 0.020 1CL 0.021 1CL 0.020
For front and floor mounting						
 3LD9224-1B	Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting, including seal - Black - Red/Yellow • For center-hole mounting, including seal and nut - Black - Red/Yellow	3LD9224-1B 3LD9224-3B 3LD9224-1D 3LD9224-3D		1 1	1 unit 1 unit	1CL 0.076 1CL 0.076 1CL 0.076 1CL 0.076
 3LD9224-3D				1	1 unit	1CL 0.076
 3LD9256-0A	Mounting tools For center-hole mounting with nut	3LD9256-0A		1	5 units	1CL 0.018
	Switching shafts 6 x 6 mm Length 300 mm Length 600 mm	3LD9205-0C 3LD9205-2C		1 1	5 units 5 units	1CL 0.479 1CL 0.833
 3LD9286-1A	Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER) Without inscription	3LD9286-1A 3LD9286-4A		1	10 units 10 units	1CL 0.005 1CL 0.053
 3LD9201-2A	Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole • 3-/4-pole	3LD9201-2A 3LD9201-1A		100	4 units 4 units	1CL 0.280 1CL 0.007

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Accessories

Version	DT	3LD21 and 3LD22	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Article No. www.siemens.com/ product?Article.No.	Price per PU			kg
For front mounting						
 3LD9220-0B (left) 3LD9220-2B (right)		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9220-0B	1	1 unit	1CL 0.037
		N or PE terminals Through-type	3LD9220-2B	1	1 unit	1CL 0.034
 3LD9200-5B		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC	3LD9200-5B	1	1 unit	1CL 0.020
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC	3LD9200-5BF	1	1 unit	1CL 0.020
For floor mounting, distribution board mounting or molded-plastic enclosures						
 3LD9220-0C		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9220-0C	1	1 unit	1CL 0.036
		N or PE terminals Through-type	3LD9220-2C	1	1 unit	1CL 0.034
 3LD9200-5C (left) 3LD9200-6C (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NC	3LD9200-5C 3LD9200-6C	1 1	1 unit 1 unit	1CL 0.020 1CL 0.021
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC	3LD9200-5CF	1	1 unit	1CL 0.020
For front and floor mounting						
 3LD9224-1B 3LD9224-3D		Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting including seal - Black - Red/Yellow	3LD9224-1B 3LD9224-3B	1 1	1 unit 1 unit	1CL 0.076 1CL 0.076
		• For center-hole mounting, including seal and nut - Black - Red/Yellow	3LD9224-1D 3LD9224-3D	1 1	1 unit 1 unit	1CL 0.076 1CL 0.076
		Mounting tools For center-hole mounting with nut	3LD9256-0A	1	5 units	1CL 0.018
		Switching shafts 6 x 6 mm Length 300 mm Length 600 mm	3LD9205-0C 3LD9205-2C	1 1	5 units 5 units	1CL 0.479 1CL 0.833
 3LD9286-1A		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	3LD9286-1A	1	10 units	1CL 0.005
		Without inscription	3LD9286-4A	1	10 units	1CL 0.053
 3LD9221-2A (left) 3LD9221-0A (right)		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole • 3-pole	3LD9221-2A 3LD9221-0A	100 1	4 units 4 units	1CL 0.363 1CL 0.007

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Accessories

Version	DT	3LD25	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Article No. www.siemens.com/ product?ArticleNo.	Price per PU			kg
For front mounting						
 <p>3LD9250-0BA (left) 3LD9250-2BA (right)</p>	4th contact (N conductor) Leading switch-on, lagging switch-off		3LD9250-0BA	1	1 unit	1CL 0.075
	N or PE terminals Through-type		3LD9250-2BA	1	1 unit	1CL 0.067
 <p>3LD9200-5B</p>	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off		3LD9200-5B	1	1 unit	1CL 0.020
	<ul style="list-style-type: none"> • 1 NO + 1 NC For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information		3LD9200-5BF	1	1 unit	1CL 0.020
For floor mounting, distribution board mounting or molded-plastic enclosures						
 <p>3LD9250-0CA (left) 3LD9250-2CA (right)</p>	4th contact (N conductor) Leading switch-on, lagging switch-off		3LD9250-0CA	1	1 unit	1CL 0.074
	N or PE terminals Through-type		3LD9250-2CA	1	1 unit	1CL 0.068
 <p>3LD9200-5C (left) 3LD9200-6C (right)</p>	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off		3LD9200-5C	1	1 unit	1CL 0.020
	<ul style="list-style-type: none"> • 1 NO + 1 NC • 2 NC For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information		3LD9200-6C	1	1 unit	1CL 0.021
		<ul style="list-style-type: none"> • 1 NO + 1 NC 	3LD9200-5CF	1	1 unit	1CL 0.020
For front and floor mounting						
 <p>3LD9284-1B</p>	Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks		3LD9284-1B	1	1 unit	1CL 0.151
	<ul style="list-style-type: none"> • For four-hole mounting, including seal <ul style="list-style-type: none"> - Black - Red/Yellow • For center-hole mounting, including seal and nut <ul style="list-style-type: none"> - Black - Red/Yellow 		3LD9284-3B	1	1 unit	1CL 0.152
 <p>3LD9284-3D</p>			3LD9284-1D	1	1 unit	1CL 0.150
			3LD9284-3D	1	1 unit	1CL 0.150
 <p>3LD9256-0A</p>	Mounting tools For center-hole mounting with nut		3LD9256-0A	1	5 units	1CL 0.018
	Switching shafts 6 x 6 mm		3LD9205-0C	1	5 units	1CL 0.479
		3LD9205-2C	1	5 units	1CL 0.833	
 <p>3LD9286-1A</p>	Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)		3LD9286-1A	1	10 units	1CL 0.005
	Without inscription		3LD9286-4A	1	10 units	1CL 0.053
 <p>3LD9251-2A (left) 3LD9251-0A (right)</p>	Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom		3LD9251-2A	100	4 units	1CL 0.480
	<ul style="list-style-type: none"> • 1-pole • 3-pole 		3LD9251-0A	1	4 units	1CL 0.010

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Accessories









Version	DT	3LD27 and 3LD28	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Article No. www.siemens.com/ product?Article No.	Price per PU			kg
For front mounting						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9280-0B	1	1 unit	1CL 0.097
		N or PE terminals Through-type	3LD9280-2B	1	1 unit	1CL 0.087
3LD9280-0B (left) 3LD9280-2B (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC	3LD9200-5B	1	1 unit	1CL 0.020
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC	3LD9200-5BF	1	1 unit	1CL 0.020
3LD9200-5B						
For floor mounting, distribution board mounting or molded-plastic enclosures						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9280-0C	1	1 unit	1CL 0.097
		N or PE terminals Through-type	3LD9280-2C	1	1 unit	1CL 0.086
3LD9280-0C (left) 3LD9280-2C (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC	3LD9200-5C	1	1 unit	1CL 0.020
		• 2 NC For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC	3LD9200-6C	1	1 unit	1CL 0.021
3LD9200-5C (left) 3LD9200-6C (right)			3LD9200-5CF	1	1 unit	1CL 0.020
For front and floor mounting						
		Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting, including seal - Black - Red/Yellow	3LD9284-1B	1	1 unit	1CL 0.151
3LD9284-1B		• For center-hole mounting, including seal and nut - Black - Red/Yellow	3LD9284-3B	1	1 unit	1CL 0.152
			3LD9284-1D	1	1 unit	1CL 0.150
3LD9284-3D			3LD9284-3D	1	1 unit	1CL 0.150
		Switching shafts 6 x 6 mm Length 300 mm	3LD9205-0C	1	5 units	1CL 0.479
		Length 600 mm	3LD9205-2C	1	5 units	1CL 0.833
		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	3LD9286-1A	1	10 units	1CL 0.005
3LD9286-1A		Without inscription	3LD9286-4A	1	10 units	1CL 0.053
		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole (1 pack = 4 units)	3LD9281-2A	1	4 units	1CL 0.006
3LD9281-2A						

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Accessories

Version	DT	3LD23 and 3LD24	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
		Article No. www.siemens.com/ product?Article No.	Price per PU			kg
For front mounting						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9240-0B	1	1 unit	1CL 0.502
3LD9240-0B (left) 3LD9240-2B (right)		N or PE terminals Through-type	3LD9240-2B	1	1 unit	1CL 0.428
		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off	3LD9200-5B	1	1 unit	1CL 0.020
3LD9200-5B		<ul style="list-style-type: none"> • 1 NO + 1 NC • For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC 	3LD9200-5BF	1	1 unit	1CL 0.020
For floor and distribution board mounting						
		Shaft coupling No ON-lock	3LD9242-4F	1	5 units	1CL 0.040
3LD9242-4F		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9240-0C	1	1 unit	1CL 0.498
		N or PE terminals Through-type	3LD9240-2C	1	1 unit	1CL 0.424
3LD9240-0C (left) 3LD9240-2C (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off	3LD9200-5C	1	1 unit	1CL 0.020
		<ul style="list-style-type: none"> • 1 NO + 1 NC • 2 NC 	3LD9200-6C	1	1 unit	1CL 0.021
3LD9200-5C (left) 3LD9200-6C (right)		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information	3LD9200-5CF	1	1 unit	1CL 0.020
		• 1 NO + 1 NC				
For front and floor mounting						
		Knob-operated mechanism (also for distribution board mounting) Lockable in 0 position with up to 3 padlocks	3LD9243-1B	1	1 unit	1CL 0.216
3LD9243-1B		<ul style="list-style-type: none"> • For four-hole mounting, including seal - Black - Red/Yellow 	3LD9243-3B	1	1 unit	1CL 0.218
		Switching shafts 8 x 8 mm Length 300 mm	3LD9245-0C	1	5 units	1CL 0.162
		Length 600 mm	3LD9245-2C	1	5 units	1CL 0.289
		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom	3LD9241-2A	1	4 units	1CL 0.018
3LD9241-2A		• 1-pole				

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