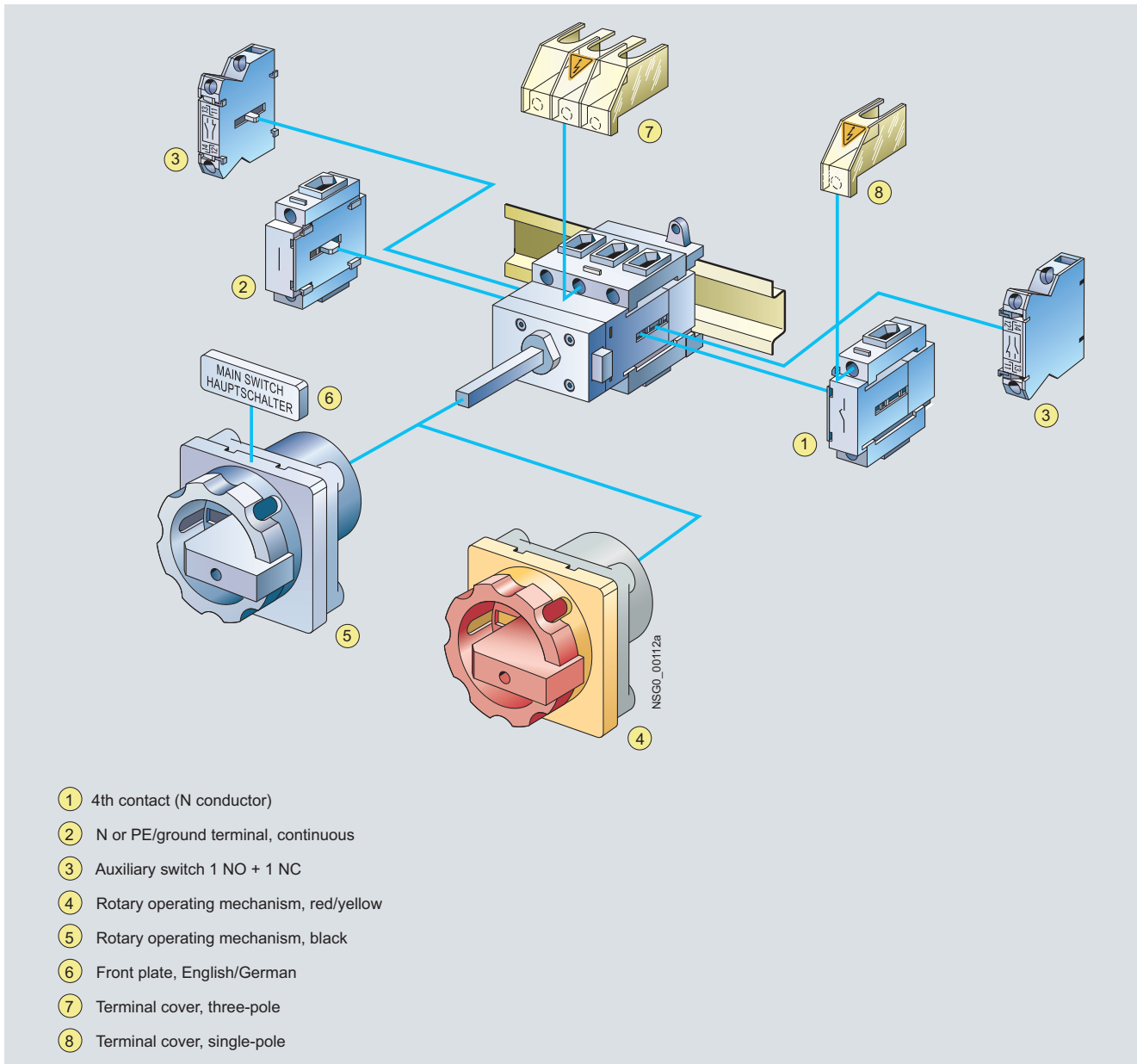


Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

General data

Overview



The 3LD main and EMERGENCY-STOP switches are manually operated switch disconnectors according to IEC 60947-3/VDE 0660 Part 107 (EN 60947-3) and comply with the conditions for switch disconnectors.

In EN 60204-1 (VDE 0113 Part 1), main control switches are called "disconnector units", while EMERGENCY-STOP switches are termed "devices for emergency shutdown".

The 3LD switches for 16 to 125 A are approved according to UL 508 and can be used as "manual motor controllers" and "motor disconnects".

UL 508 approval of 3LD switches for 160 and 250 A is under application.

Maintenance personnel can protect themselves against unauthorized startup with padlocks (up to three can be fitted).

The 3LD switches can be used in any mounting position.

Application

The 3LD switches are used for switching main and auxiliary circuits, but also for switching induction motors and other loads during maintenance and repair work.

They can be used as:

- ON-OFF switches
- EMERGENCY-STOP switches
- Main control switches according to EN 60204-1.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

General data

Switch construction

Construction of the contacts

Each switch has three adjacent contact elements¹⁾. A fourth leading contact for switching the N conductor, a continuous PE terminal, 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.

Construction 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 switchboards 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 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.



3LD2 704-0TK53 switch for front mounting with rotary operating mechanism



3LD2 222-0TK1 switch for front mounting with knob



3LD2 122-7UK01 3-pole changeover switch for front mounting with knob



3LD2 103-3VK53 6-pole switch for front mounting with rotary operating mechanism



3LD2 144-0TK53 switch for floor mounting with rotary operating mechanism and door coupling



3LD2 530-0TK11 switch for distribution board mounting with knob



3LD2 264-0TB5 switch in molded-plastic enclosure



3LD2 217-1TL13 switch for floor mounting with rotary operating mechanism and defeatable door coupling



3LD2 265-8VQ51-0AF6 solar plant isolator



3LD2 217-1TL13 switch for floor mounting, 250 A, with rotary operating mechanism and door coupling

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

General data

More information

Standards		DIN VDE 0660, IEC 60947									
Switches		Type	3LD2 0	3LD2 1	3LD2 2	3LD2 5	3LD2 7	3LD2 8	3LD2 3	3LD2 4	
Number of contacts			3/4								
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}		V	690	690	690	690	690	690	690	690	
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 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 V ... 240 V	kW	3.0	4.0	5.5	11.0	18.5	22.0	35.0	55.0
		At 380 V ... 440 V	kW	5.5	7.5	9.5	18.5	30.0	37.0	50.0	110.0
		At 660 V/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 V ... 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 V ... 440 V	kW	7.5	9.5	11.5	22.0	37.0	45.0	75.0	132.0
		At 660 V/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 acc. 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 V ... 240 V	A	3							
		At 380 V ... 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								

SENTRON 3LD main and EMERGENCY-STOP switches for UL/CSA

Standards		UL/CSA								
Switches		Type	3LD2 0	3LD2 1	3LD2 2	3LD2 5	3LD2 7	3LD2 8	3LD2 3	3LD2 4
Rated operational voltage U_e		V AC	600	600	600	600	600	600	--	--
Rated uninterrupted current I_u		A	10	20	30	60	100	125	--	--
Conventional thermal current I_{th}		Current rating	A 600	A 600	A 600	--	--	--	--	--
		Pilot duty	P 600	P 600	P 600	--	--	--	--	--
Maximum rated power (AC-3) AC motors 40 Hz ... 60 Hz (HP = PS)		3 ~ 120 V	HP 1	3	3	5	10	15	--	--
		240 V	HP 3	7.5	10	15	30	40	--	--
		480 V	HP 7.5	10	20	40	60	75	--	--
		600 V	HP 10	15	30	50	75	100	--	--
		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	--
Torque			Nm	1.5 ... 2	2 ... 2.5	2 ... 2.5	2.5 ... 3	2.5 ... 3	2.5 ... 3	--

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

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Front mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I_{th} /AC-21A							kg
		kW	kW	A							

Main 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: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Including terminal cover for the infeed side
- Front plate:
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm □ 67 mm
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm □ 67 mm
 - 3LD2 3 to 3LD2 4: 96 mm □ 96 mm

Four-hole mounting



3LD2 203-0TK51



3LD2 704-0TK53

3	--	5.5	7.5	16	▶	3LD2 003-0TK5□	1	1 unit	103	0.207
		7.5	9.5	25	▶	3LD2 103-0TK5□	1	1 unit	103	0.206
		9.5	11.5	32	▶	3LD2 203-0TK5□	1	1 unit	103	0.206
		18.5	22.0	63	▶	3LD2 504-0TK5□	1	1 unit	103	0.424
		30	37.0	100	▶	3LD2 704-0TK5□	1	1 unit	103	0.501
		37	45.0	125	A	3LD2 804-0TK5□	1	1 unit	103	0.503
		50	75.0	160	A	3LD2 305-0TK1□	1	1 unit	103	2.100
		110	132.0	250	A	3LD2 405-0TK1□	1	1 unit	103	2.100
3 + N	--	5.5	7.5	16	▶	3LD2 003-1TL5□	1	1 unit	103	0.217
		7.5	9.5	25	A	3LD2 103-1TL5□	1	1 unit	103	0.243
		9.5	11.5	32	A	3LD2 203-1TL5□	1	1 unit	103	0.243
		18.5	22.0	63	A	3LD2 504-1TL5□	1	1 unit	103	0.424
		30.0	37.0	100	▶	3LD2 704-0TK5□ + ¹⁾	1	1 unit	103	0.501
					▶	3LD9 280-0B	1	1 unit	103	0.101
		37.0	45.0	125	A	3LD2 804-0TK5□ + ¹⁾	1	1 unit	103	0.503
					▶	3LD9 280-0B	1	1 unit	103	0.101
3	1 NO + 1 NC	5.5	7.5	16	A	3LD2 003-1TP5□	1	1 unit	103	0.250
		7.5	9.5	25	A	3LD2 103-1TP5□	1	1 unit	103	0.249
		9.5	11.5	32	A	3LD2 203-1TP5□	1	1 unit	103	0.206
		18.5	22.0	63	A	3LD2 504-1TP5□	1	1 unit	103	0.424
		30.0	37.0	100	A	3LD2 704-1TP5□	1	1 unit	103	0.503
		37	45.0	125	A	3LD2 804-1TP5□	1	1 unit	103	0.503
		50.0	75.0	160	A	3LD2 305-0TK1□ + ¹⁾	1	1 unit	103	2.100
					▶	3LD9 200-5B	1	1 unit	103	0.046
3 + N	1 NO + 1 NC	110.0	132.0	250	A	3LD2 405-0TK1□ + ¹⁾	1	1 unit	103	2.100
					▶	3LD9 200-5B	1	1 unit	103	0.046
		5.5	7.5	16	A	3LD2 003-2EP5□	1	1 unit	103	0.272
		7.5	9.5	25	A	3LD2 103-2EP5□	1	1 unit	103	0.287
		9.5	11.5	32	A	3LD2 203-1TL5□ + ¹⁾	1	1 unit	103	0.243
					▶	3LD9 200-5B	1	1 unit	103	0.046
		18.5	22.0	63	A	3LD2 504-1TP5□ + ²⁾	1	1 unit	103	0.424
					▶	3LD9 250-0BA	1	1 unit	103	0.079
3	1 NO + 1 NC	30.0	37.0	100	▶	3LD2 704-0TK5□ + ²⁾	1	1 unit	103	0.501
					▶	3LD9 280-0B + ¹⁾	1	1 unit	103	0.101
					▶	3LD9 200-5B	1	1 unit	103	0.046
		37.0	45.0	125	A	3LD2 804-0TK5□ + ²⁾	1	1 unit	103	0.503
					▶	3LD9 280-0B + ¹⁾	1	1 unit	103	0.101
					▶	3LD9 200-5B	1	1 unit	103	0.046
		50.0	75.0	160	A	3LD2 305-1TL1□ + ¹⁾	1	1 unit	103	2.600
					▶	3LD9 200-5B	1	1 unit	103	0.046
3	1 NO + 1 NC	110.0	132.0	250	A	3LD2 405-1TL1□ + ¹⁾	1	1 unit	103	2.600
					▶	3LD9 200-5B	1	1 unit	103	0.046

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately, see "Accessories". ²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see "Accessories".

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Front mounting

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _u /AC-21A							kg
		kW	kW	A							

Main 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: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Including terminal cover for the infeed side
- Front plate
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm □ 67 mm
 - 3LD2 5 to 3LD2 8: 90 mm □ 90 mm
 - 3LD2 3 to 3LD2 4: 96 mm □ 96 mm

Center-hole mounting Ø 22.5 mm



3LD2 254-0TK53

3	--	5.5	7.5	16	A	3LD2 054-0TK5□	1	1 unit	103	0.215
		7.5	9.5	25	A	3LD2 154-0TK5□	1	1 unit	103	0.215
		9.5	11.5	32	A	3LD2 254-0TK5□	1	1 unit	103	0.214
		18.5	22	63	A	3LD2 555-0TK5□	1	1 unit	103	0.443
3 + N	--	5.5	7.5	16	A	3LD2 054-1TL5□	1	1 unit	103	0.230
		7.5	9.5	25	A	3LD2 154-1TL5□	1	1 unit	103	0.256
		9.5	11.5	32	A	3LD2 254-1TL5□	1	1 unit	103	0.260
		18.5	22	63	A	3LD2 555-0TK5□ +1)	1	1 unit	103	0.443
					▶	3LD9 250-0BA	1	1 unit	103	0.079
3	1 NO + 1 NC	5.5	7.5	16	A	3LD2 054-1TP5□	1	1 unit	103	0.261
		7.5	9.5	25	A	3LD2 154-1TP5□	1	1 unit	103	0.257
		9.5	11.5	32	A	3LD2 254-0TK5□ +1)	1	1 unit	103	0.214
		18.5	22	63	A	3LD2 555-0TK5□ +1)	1	1 unit	103	0.443
					▶	3LD9 200-5B	1	1 unit	103	0.046
					▶	3LD9 200-5B	1	1 unit	103	0.046
3 + N	1 NO + 1 NC	5.5	7.5	16	A	3LD2 054-2EP5□	1	1 unit	103	0.276
		7.5	9.5	25	C	3LD2 154-2EP5□	1	1 unit	103	0.304
		9.5	11.5	32	A	3LD2 254-1TL5□ +1)	1	1 unit	103	0.260
		18.5	22	63	A	3LD2 555-0TK5□ +2)	1	1 unit	103	0.443
					▶	3LD9 200-5B	1	1 unit	103	0.046
					▶	3LD9 250-0BA +1)	1	1 unit	103	0.079
					▶	3LD9 200-5B	1	1 unit	103	0.046

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

1) 4th contact element as N conductor to be ordered separately, see "Accessories".

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

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Front mounting

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

Main and EMERGENCY-STOP switches with 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



3LD2 222-0TK11

3	--	7.5	16	A	3LD2 022-0TK1□	1	1 unit	103	0.186
		9.5	25	A	3LD2 122-0TK1□	1	1 unit	103	0.181
		11.5	32	A	3LD2 222-0TK1□	1	1 unit	103	0.182
3 + N	--	7.5	16	A	3LD2 022-1TL1□	1	1 unit	103	0.206
		9.5	25	A	3LD2 122-1TL1□	1	1 unit	103	0.180
		11.5	32	A	3LD2 222-0TK1□ + ¹⁾	1	1 unit	103	0.182
3	1 NO + 1 NC	7.5	16	A	3LD2 022-0TK1□ + ²⁾	1	1 unit	103	0.186
					▶ 3LD9 200-5B	1	1 unit	103	0.046
		9.5	25	A	3LD2 122-0TK1□ + ²⁾	1	1 unit	103	0.181
3 + N	1 NO + 1 NC	7.5	16	A	3LD2 022-1TL1□ + ²⁾	1	1 unit	103	0.206
					▶ 3LD9 200-5B	1	1 unit	103	0.046
		9.5	25	A	3LD2 122-1TL1□ + ²⁾	1	1 unit	103	0.180
3	1 NO + 1 NC	7.5	16	A	3LD2 022-0TK1□ + ¹⁾	1	1 unit	103	0.182
					▶ 3LD9 220-0B + ²⁾	1	1 unit	103	0.039
					▶ 3LD9 200-5B	1	1 unit	103	0.046

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately, see "Accessories".

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

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Front mounting

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

Main and EMERGENCY-STOP switches with 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

Center-hole mounting Ø 22.5 mm



3LD2 150-0TK13

3	--	7.5	16	A	3LD2 050-0TK1□	1	1 unit	103	0.197
		9.5	25	A	3LD2 150-0TK1□	1	1 unit	103	0.191
		11.5	32	A	3LD2 250-0TK1□	1	1 unit	103	0.192
3 + N	--	7.5	16	A	3LD2 050-1TL1□	1	1 unit	103	0.215
		9.5	25	A	3LD2 150-0TK1□ ⁺¹⁾	1	1 unit	103	0.191
					▶ 3LD9 200-5B	1	1 unit	103	0.046
		11.5	32	A	3LD2 250-0TK1□ ⁺¹⁾	1	1 unit	103	0.192
			▶ 3LD9 200-5B	1	1 unit	103	0.046		
3	1 NO + 1 NC	7.5	16	A	3LD2 050-0TK1□ ⁺²⁾	1	1 unit	103	0.197
					▶ 3LD9 200-5B	1	1 unit	103	0.046
		9.5	25	A	3LD2 150-0TK1□ ⁺²⁾	1	1 unit	103	0.191
				▶ 3LD9 200-5B	1	1 unit	103	0.046	
	11.5	32	A	3LD2 250-0TK1□ ⁺²⁾	1	1 unit	103	0.192	
				▶ 3LD9 200-5B	1	1 unit	103	0.046	
3 + N	1 NO + 1 NC	7.5	16	A	3LD2 050-1TL1□ ⁺²⁾	1	1 unit	103	0.215
					▶ 3LD9 200-5B	1	1 unit	103	0.046
		9.5	25	A	3LD2 150-0TK1□ ⁺¹⁾	1	1 unit	103	0.191
					▶ 3LD9 220-0B ⁺²⁾	1	1 unit	103	0.039
			▶ 3LD9 200-5B	1	1 unit	103	0.046		
		11.5	32	A	3LD2 250-0TK1□ ⁺¹⁾	1	1 unit	103	0.192
					▶ 3LD9 220-0B ⁺²⁾	1	1 unit	103	0.039
					▶ 3LD9 200-5B	1	1 unit	103	0.046

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately, see "Accessories".

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

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

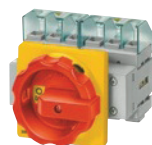
Front mounting

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

Main and EMERGENCY-STOP switches with 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: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Including terminal cover for the infeed side
- Front plate
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm □ 67 mm
 - 3LD2 5: 90 mm □ 90 mm
 - 3LD2 3 to 3LD2 4: 96 mm □ 96 mm

Four-hole mounting



3LD2 103-3VK53

6	--	7.5	9.5	25	A	3LD2 103-3VK5□		1	1 unit	103	0.380
		9.5	11.5	32	A	3LD2 203-3VK5□		1	1 unit	103	0.381
		18.5	22.0	63	A	3LD2 504-3VK5□		1	1 unit	103	0.854
		50	75	160	A	3LD2 305-3VK1□		1	1 unit	103	3.900
		110	132	250	A	3LD2 405-3VK1□		1	1 unit	103	3.900
6	1 NO + 1 NC	7.5	9.5	25	A	3LD2 103-4VP5□		1	1 unit	103	0.432

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	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I_u							kg
		kW	kW	A							

Changeover switches with knob-operated mechanism

- Black actuator
- Knob-operated mechanism on 3LD2 3 and 3LD2 4 is lockable, on all other versions it is non-lockable
- Degree of protection at front side IP65

Four-hole mounting



3LD2 123-7UK01



3LD2 405-7UL01

3	--	7.5	9.5	25	A	3LD2 123-7UK01		1	1 unit	103	0.374
		9.5	11.5	32	A	3LD2 223-7UK01		1	1 unit	103	0.378
		18.5	22.0	63	A	3LD2 524-7UK01		1	1 unit	103	0.841
		30.0	37.0	100	A	3LD2 724-7UK01		1	1 unit	103	1.061
		50	75	160	A	3LD2 305-7UK01		1	1 unit	103	4.300
		110	132	250	A	3LD2 405-7UK01		1	1 unit	103	4.400
3 + N		50	75	160	A	3LD2 305-7UL01		1	1 unit	103	5.700
		110	132	250	A	3LD2 405-7UL01		1	1 unit	103	5.700

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Floor mounting

Selection and ordering data

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

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

- 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 A to 125 A)
- All versions with rotary operating mechanism
- Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Mounting using screws or snap-on mounting on 35 mm standard mounting rail (16 A to 125 A)
- Including terminal cover for the infeed side
- Front plate
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm x 67 mm
 - 3LD2 5 to 3LD2 8: 90 mm x 90 mm
 - 3LD2 3 to 3LD2 4: 96 mm x 96 mm
- Mounting dimensions
 - 3LD2 0, 3LD2 1, 3LD2 2: 380 mm
 - 3LD2 5 to 3LD2 8: 390 mm
 - 3LD2 3 to 3LD2 4: 600 mm

Four-hole mounting



3LD2 213-0TK53

3	--	7.5	16	▶	3LD2 013-0TK5□	1	1 unit	103	0.412
		9.5	25	▶	3LD2 113-0TK5□	1	1 unit	103	0.407
		11.5	32	▶	3LD2 213-0TK5□	1	1 unit	103	0.405
		22	63	▶	3LD2 514-0TK5□	1	1 unit	103	0.655
		37	100	▶	3LD2 714-0TK5□	1	1 unit	103	0.765
		45	125	A	3LD2 814-0TK5□	1	1 unit	103	0.766
		75	160	A	3LD2 318-0TK1□	1	1 unit	103	2.400
		132	250	A	3LD2 418-0TK1□	1	1 unit	103	2.700
3 + N	--	7.5	16	▶	3LD2 013-1TL5□	1	1 unit	103	0.412
		9.5	25	A	3LD2 113-1TL5□	1	1 unit	103	0.450
		11.5	32	A	3LD2 213-1TL5□	1	1 unit	103	0.446
		22	63	A	3LD2 514-1TL5□	1	1 unit	103	0.720
		37	100	▶	3LD2 714-0TK5□ + ¹⁾	1	1 unit	103	0.765
				▶	3LD9 280-0C	1	1 unit	103	0.102
		45	125	A	3LD2 814-0TK5□ + ¹⁾	1	1 unit	103	0.766
				▶	3LD9 280-0C	1	1 unit	103	0.102
		75	160	A	3LD2 318-1TL1□	1	1 unit	103	2.900
		132	250	A	3LD2 418-1TL1□	1	1 unit	103	3.200

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1


3

¹⁾ 4th contact element as N conductor to be ordered separately, see "Accessories".

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3LD Main 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	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
		kW	A							kg
 3LD2 213-0TK53	3	1 NO + 1 NC	7.5	16	▶	3LD2 013-0TK5□ +2)	1	1 unit	103	0.412
					▶	3LD9 200-5C	1	1 unit	103	0.046
			9.5	25	▶	3LD2 113-0TK5□ +2)	1	1 unit	103	0.407
					▶	3LD9 200-5C	1	1 unit	103	0.046
			11.5	32	▶	3LD2 213-0TK5□ +2)	1	1 unit	103	0.405
					▶	3LD9 200-5C	1	1 unit	103	0.046
			22	63	▶	3LD2 514-0TK5□ +2)	1	1 unit	103	0.655
					▶	3LD9 200-5C	1	1 unit	103	0.046
			37	100	▶	3LD2 714-0TK5□ +2)	1	1 unit	103	0.765
					▶	3LD9 200-5C	1	1 unit	103	0.046
			45	125	A	3LD2 814-0TK5□ +2)	1	1 unit	103	0.766
					▶	3LD9 200-5C	1	1 unit	103	0.046
			75	160	A	3LD2 318-0TK1□ +1)	1	1 unit	103	2.400
					▶	3LD9 200-5C	1	1 unit	103	0.046
132	250	A	3LD2 418-0TK1□ +1)	1	1 unit	103	2.700			
		▶	3LD9 200-5C	1	1 unit	103	0.046			
3 + N	1 NO + 1 NC	7.5	16	▶	3LD2 013-1TL5□ +2)	1	1 unit	103	0.412	
				▶	3LD9 200-5C	1	1 unit	103	0.046	
		9.5	25	A	3LD2 113-1TL5□ +2)	1	1 unit	103	0.450	
				▶	3LD9 200-5C	1	1 unit	103	0.046	
		11.5	32	A	3LD2 213-1TL5□ +2)	1	1 unit	103	0.446	
				▶	3LD9 200-5C	1	1 unit	103	0.046	
		22	63	A	3LD2 514-1TL5□ +2)	1	1 unit	103	0.720	
				▶	3LD9 200-5C	1	1 unit	103	0.046	
		37	100	▶	3LD2 714-0TK5□ +1)	1	1 unit	103	0.765	
				▶	3LD9 280-0C +2)	1	1 unit	103	0.102	
				▶	3LD9 200-5C	1	1 unit	103	0.046	
		45	125	A	3LD2 814-0TK5□ +1)	1	1 unit	103	0.766	
				▶	3LD9 280-0C +2)	1	1 unit	103	0.102	
				▶	3LD9 200-5C	1	1 unit	103	0.046	
75	160	A	3LD2 318-1TL1□ +2)	1	1 unit	103	2.900			
		▶	3LD9 200-5C	1	1 unit	103	0.046			
132	250	A	3LD2 418-1TL1□ +2)	1	1 unit	103	3.200			
		▶	3LD9 200-5C	1	1 unit	103	0.046			

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

1) 4th contact element as N conductor to be ordered separately, see "Accessories".

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

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3LD Main 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	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							

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

- 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 A to 125 A)
- All versions with rotary operating mechanism
- Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Mounting using screws or snap-on mounting on 35 mm standard mounting rail (16 A to 125 A)
- Including terminal cover for the infeed side
- Front plate
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm x 67 mm
 - 3LD2 5 to 3LD2 8: 90 mm x 90 mm
 - 3LD2 3 to 3LD2 4: 96 mm x 96 mm
- Mounting dimensions
 - 3LD2 0, 3LD2 1, 3LD2 2: 380 mm
 - 3LD2 5 to 3LD2 8: 390 mm
 - 3LD2 3 to 3LD2 4: 600 mm

Center-hole mounting Ø 22.5 mm

	3	--	7.5	16	A	3LD2 044-0TK5□	1	1 unit	103	0.430
			9.5	25	A	3LD2 144-0TK5□	1	1 unit	103	0.426
			11.5	32	A	3LD2 244-0TK5□	1	1 unit	103	0.427
			22	63	A	3LD2 545-0TK5□	1	1 unit	103	0.710
	3 + N	--	7.5	16	A	3LD2 044-1TL5□	1	1 unit	103	0.433
			9.5	25	A	3LD2 144-1TL5□	1	1 unit	103	0.461
			11.5	32	A	3LD2 244-1TL5□	1	1 unit	103	0.465
			22	63	A	3LD2 545-0TK5□ ⁺¹⁾	1	1 unit	103	0.710
	3	1 NO + 1 NC	7.5	16	A	▶ 3LD9 250-0CA	1	1 unit	103	0.080
						▶ 3LD2 044-0TK5□ ⁺²⁾	1	1 unit	103	0.430
						▶ 3LD9 200-5C	1	1 unit	103	0.046
			9.5	25	A	▶ 3LD2 144-0TK5□ ⁺²⁾	1	1 unit	103	0.426
					▶ 3LD9 200-5C	1	1 unit	103	0.046	
11.5			32	A	▶ 3LD2 244-0TK5□ ⁺²⁾	1	1 unit	103	0.427	
					▶ 3LD9 200-5C	1	1 unit	103	0.046	
22			63	A	▶ 3LD2 545-0TK5□ ⁺²⁾	1	1 unit	103	0.710	
			▶ 3LD9 200-5C	1	1 unit	103	0.046			
3 + N	1 NO + 1 NC	7.5	16	A	▶ 3LD2 044-1TL5□ ⁺²⁾	1	1 unit	103	0.433	
					▶ 3LD9 200-5C	1	1 unit	103	0.046	
		9.5	25	A	▶ 3LD2 144-1TL5□ ⁺²⁾	1	1 unit	103	0.461	
					▶ 3LD9 200-5C	1	1 unit	103	0.046	
		11.5	32	A	▶ 3LD2 244-1TL5□ ⁺²⁾	1	1 unit	103	0.465	
					▶ 3LD9 200-5C	1	1 unit	103	0.046	
		22	63	A	▶ 3LD2 545-0TK5□ ⁺¹⁾	1	1 unit	103	0.710	
					▶ 3LD9 250-0CA ⁺²⁾	1	1 unit	103	0.080	
			▶ 3LD9 200-5C	1	1 unit	103	0.046			

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

¹⁾ 4th contact element as N conductor to be ordered separately, see "Accessories".

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

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3LD Main 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	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I_u							kg
		kW	kW	A							

Main 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: 3LD2 3 and 3LD2 4 with door-coupling rotary operating mechanism as selector switch
- Mounting using screws or snap-on mounting on 35 mm standard mounting rail
- Including terminal cover for the infeed side
- Front plate
- 3LD2 0, 3LD2 1, 3LD2 2: 67 mm □ 67 mm
- 3LD2 3, 3LD2 4: 96 mm □ 96 mm

Four-hole mounting



3LD2 113-3VK51

6	--	7.5	9.5	25	C	3LD2 113-3VK5 □		1	1 unit	103	0.604
6	--	50	75	160	A	3LD2 318-3VK1 □		1	1 unit	103	4.500
6	--	110	132	250	A	3LD2 418-3VK1 □		1	1 unit	103	4.500
6	1 NO + 1 NC	9.5	9.5	25	C	3LD2 113-4VP5 □		1	1 unit	103	0.645

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	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I_u							kg
		kW	kW	A							

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	A	3LD2 318-7UK01		1	1 unit	103	5.000
3		110	132	250	A	3LD2 418-7UK01		1	1 unit	103	5.000
3 + N		50	75	160	A	3LD2 318-7UL01		1	1 unit	103	6.400
3 + N		110	132	250	A	3LD2 418-7UL01		1	1 unit	103	6.400

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3LD Main 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	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							

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

The SENTRON 3LD main 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 the interlock in ON position and open the control cabinet door with the plant activated.

SENTRON 3LD main 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 rail
- Including terminal cover for the infeed side
- Front plate 65 mm □ 65 mm

Four-hole mounting



3LD2 017-0TK..

3	--	7.5	16	C	3LD2 017-0TK1 □	1	1 unit	103	0.412
		11.5	32	C	3LD2 217-0TK1 □	1	1 unit	103	0.412
		22	63	C	3LD2 517-0TK1 □	1	1 unit	103	0.412
3 + N	--	7.5	16	C	3LD2 017-1TL1 □	1	1 unit	103	0.412
		11.5	32	C	3LD2 217-1TL1 □	1	1 unit	103	0.412
		22	63	C	3LD2 517-1TL1 □	1	1 unit	103	0.412

Actuator color

Black
Red/yellow (EMERGENCY-STOP)



1
3

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3LD Main 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 Hz ... 60 Hz, 380 V ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg	
		kW	A								
ON/OFF and EMERGENCY-STOP switches with masking plate and selector switch <ul style="list-style-type: none"> • With screw mounting With snap-on mounting on 35 mm standard mounting rail (16 A 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 and outgoing terminal (160 A and 250 A) 											
 3LD2 530-0TK13	3	--	7.5	16	A	3LD2 030-0TK1 □		1	1 unit	103	0.169
			9.5	25	A	3LD2 130-0TK1 □		1	1 unit	103	0.171
			11.5	32	A	3LD2 230-0TK1 □		1	1 unit	103	0.168
			22	63	A	3LD2 530-0TK1 □		1	1 unit	103	0.311
			37	100	A	3LD2 730-0TK1 □		1	1 unit	103	0.379
			45	125	A	3LD2 830-0TK1 □		1	1 unit	103	0.379
 3LD2 330-0TK11	3 + N	--	7.5	16	A	3LD2 030-1TL1 □		1	1 unit	103	0.183
			9.5	25	A	3LD2 130-0TK1 □ + ¹⁾		1	1 unit	103	0.171
						▶ 3LD9 220-0C		1	1 unit	103	0.039
			11.5	32	A	3LD2 230-0TK1 □ + ¹⁾		1	1 unit	103	0.168
						▶ 3LD9 220-0C		1	1 unit	103	0.039
			22	63	A	3LD2 530-0TK1 □ + ¹⁾		1	1 unit	103	0.311
						▶ 3LD9 250-OCA		1	1 unit	103	0.080
			37	100	A	3LD2 730-0TK1 □ + ¹⁾		1	1 unit	103	0.379
						▶ 3LD9 280-0C		1	1 unit	103	0.102
			45	125	A	3LD2 830-0TK1 □ + ¹⁾		1	1 unit	103	0.379
						▶ 3LD9 280-0C		1	1 unit	103	0.102
			75	160	A	3LD2 330-0TK1 □ + ¹⁾		1	1 unit	103	2.000
			▶ 3LD9 240-0C		1	1 unit	103	0.500			
	132	250	A	3LD2 430-0TK1 □ + ¹⁾		1	1 unit	103	2.000		
				▶ 3LD9 240-0C		1	1 unit	103	0.500		

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately; see "Accessories for floor mounting".

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Distribution board mounting



3LD2 530-0TK11

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
3	1 NO + 1 NC	7.5	16	A	3LD2 030-0TK1□ +2)		1	1 unit	103	0.169
				▶	3LD9 200-5C					
		9.5	25	A	3LD2 130-0TK1□ +2)		1	1 unit	103	0.171
				▶	3LD9 200-5C					
		11.5	32	A	3LD2 230-0TK1□ +2)		1	1 unit	103	0.168
				▶	3LD9 200-5C					
		22	63	A	3LD2 530-0TK1□ +2)		1	1 unit	103	0.311
				▶	3LD9 200-5C					
		37	100	A	3LD2 730-0TK1□ +2)		1	1 unit	103	0.379
				▶	3LD9 200-5C					
		45	125	A	3LD2 830-0TK1□ +2)		1	1 unit	103	0.379
				▶	3LD9 200-5C					
		75	160	A	3LD2 330-0TK1□ +2)		1	1 unit	103	2.000
				▶	3LD9 200-5C					
132	250	A	3LD2 430-0TK1□ +2)		1	1 unit	103	2.000		
		▶	3LD9 200-5C						1	1 unit
3 + N	1 NO + 1 NC	7.5	16	A	3LD2 030-1TL1□ +2)		1	1 unit	103	0.183
				▶	3LD9 200-5C					
		9.5	25	A	3LD2 130-0TK1□ +2)		1	1 unit	103	0.171
				▶	3LD9 200-5C +1)					
		11.5	32	A	3LD2 230-0TK1□ +2)		1	1 unit	103	0.168
				▶	3LD9 200-5C +1)					
		22	63	A	3LD2 530-0TK1□ +2)		1	1 unit	103	0.311
				▶	3LD9 200-5C +1)					
		37	100	A	3LD2 730-0TK1□ +2)		1	1 unit	103	0.379
				▶	3LD9 200-5C +1)					
		45	125	A	3LD2 830-0TK1□ +2)		1	1 unit	103	0.379
				▶	3LD9 280-0C +1)					
		75	160	A	3LD2 330-0TK1□ +2)		1	1 unit	103	2.000
				▶	3LD9 200-5C +1)					
132	250	A	3LD2 430-0TK1□ +2)		1	1 unit	103	2.000		
		▶	3LD9 240-0C +1)						1	1 unit
132	250	A	3LD2 430-0TK1□ +2)		1	1 unit	103	2.000		
		▶	3LD9 200-5C +1)						1	1 unit
132	250	A	3LD2 430-0TK1□ +2)		1	1 unit	103	2.000		
		▶	3LD9 240-0C +1)						1	1 unit

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

¹⁾ 4th contact element as N conductor to be ordered separately; see "Accessories for floor mounting".


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

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Molded-plastic enclosure

Selection and ordering data

Number and version of the contacts		Base terminal	Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements		P/AC-23A	I_u							kg
			kW	A							
Main 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	A	3LD2 064-0TB5 □	1	1 unit	103	0.463
			PE + N	9.5	25	A	3LD2 164-0TB5 □	1	1 unit	103	0.463
			PE + N	11.5	32	A	3LD2 264-0TB5 □	1	1 unit	103	0.465
			PE + N	22	63	A	3LD2 565-0TB5 □	1	1 unit	103	0.906
			PE + N	37	100	A	3LD2 766-0TB5 □	1	1 unit	103	1.890
			PE + N	45	125	A	3LD2 866-0TB5 □	1	1 unit	103	1.890
	3 + N	--	PE	7.5	16	A	3LD2 064-1TC5 □	1	1 unit	103	0.453
			PE	9.5	25	A	3LD2 164-1TC5 □	1	1 unit	103	0.487
			PE	11.5	32	C	3LD2 264-1TC5 □	1	1 unit	103	0.500
			PE	22	63	C	3LD2 565-1TC5 □	1	1 unit	103	0.960
			PE + N	37	100	A	3LD2 766-0TB5 □ +1)	1	1 unit	103	1.890
								▶ 3LD9 280-0C	1	1 unit	103
	3	1 NO + 1 NC	N	7.5	16	A	3LD2 064-1GP5 □	1	1 unit	103	0.507
			N	9.5	25	A	3LD2 164-1GP5 □	1	1 unit	103	0.501
			N	11.5	32	A	3LD2 264-1GP5 □	1	1 unit	103	0.488
			N	22	63	A	3LD2 565-1GP5 □	1	1 unit	103	0.935
			N	37	100	A	3LD2 766-1GP5 □	1	1 unit	103	1.838
			N	45	125	A	3LD2 866-1GP5 □	1	1 unit	103	1.843
	3 + N	1 NO + 1 NC	PE	7.5	16	A	3LD2 064-1TC5 □ +2)	1	1 unit	103	0.453
								▶ 3LD9 200-5C	1	1 unit	103
PE			9.5	25	A	3LD2 164-1TC5 □ +2)	1	1 unit	103	0.487	
							▶ 3LD9 200-5C	1	1 unit	103	0.046
PE			11.5	32	C	3LD2 264-1TC5 □ +2)	1	1 unit	103	0.500	
							▶ 3LD9 200-5C	1	1 unit	103	0.046
PE			22	63	C	3LD2 565-1TC5 □ +2)	1	1 unit	103	0.960	
							▶ 3LD9 200-5C	1	1 unit	103	0.046
N			37	100	A	3LD2 766-1GP5 □ +2)	1	1 unit	103	1.838	
							▶ 3LD9 280-0C	1	1 unit	103	0.102
N			45	125	A	3LD2 866-1GP5 □ +2)	1	1 unit	103	1.843	
							▶ 3LD9 280-0C	1	1 unit	103	0.102

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

¹⁾ 4th contact element as N conductor to be ordered separately; see "Accessories for floor mounting".

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately; see "Accessories".

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Molded-plastic enclosure

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

Main 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



3LD2 165-3VB53

6	--	PE + N	7.5	9.5	25	A	3LD2 165-3VB5□	1	1 unit	103	0.880
		PE + N	9.5	11.5	32	A	3LD2 265-3VB5□	1	1 unit	103	0.878
		PE + N	18.5	22.0	63	A	3LD2 566-3VB5□	1	1 unit	103	2.105
6	1 NO + 1 NC	N	7.5	9.5	25	A	3LD2 165-4VD5□	1	1 unit	103	0.914
		N	9.5	11.5	32	A	3LD2 265-4VD5□	1	1 unit	103	0.910
		PE + N	18.5	22.0	63	A	3LD2 566-4VD5□	1	1 unit	103	2.084

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

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

Changeover switches with knob-operated mechanism, knob cannot be locked

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



3LD2 165-7UB01

3	--	PE + N	7.5	9.5	25	A	3LD2 165-7UB01	1	1 unit	103	0.888
		PE + N	9.5	11.5	32	A	3LD2 265-7UB01	1	1 unit	103	0.888
		PE + N	18.5	22.0	63	A	3LD2 566-7UB01	1	1 unit	103	2.105
		PE + N	30.0	37.0	100	A	3LD2 766-7UB01	1	1 unit	103	2.335

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

DC applications

Mains voltage	Rated current I_e at 800 V DC		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Max. V DC	DC-21A A	DC-22A A							kg

Solar plant 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 up to 10 mm²
- Lockable



3LD2 265-8VQ5-0AF6

800	32	16	A	3LD2 265-8VQ5-0AF6		1	1 unit	103	0.878
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Actuator color

- Black
- Red/yellow (EMERGENCY-STOP)

1
3

Mains voltage	Rated current I_e at 800 V DC		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Max. V DC	DC-21A A	DC-22A A							kg

Solar plant isolators for distribution board mounting

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



3LD2 265-8VQ11-0AF6

800	32	16	A	3LD2 230-8VQ11-0AF6		1	1 unit	103	0.878
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Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Accessories

Selection and ordering data

Version	DT	3LD2 0	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Order No.	Price per PU				
For front mounting						
 3LD9 200-2B	N or PE terminals Continuous	▶	3LD9 200-2B	1	1 unit	103 0.030
 3LD9 200-5B	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-plate contacts for SIMATIC request, leading switch-off • 1 NO + 1 NC	▶	3LD9 200-5B	1	1 unit	103 0.046
		C	3LD9 200-5BF	1	1 unit	103 0.028
For floor mounting, distribution board mounting or molded-plastic enclosures						
 3LD9 200-2C	N or PE terminals Continuous	▶	3LD9 200-2C	1	1 unit	103 0.032
 3LD9 200-5C (left) 3LD9 200-6C (right)	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NO For mounting on the left and/or right, lagging switch-on, with gold-plate contacts for SIMATIC request, leading switch-off • 1 NO + 1 NC	▶	3LD9 200-5C	1	1 unit	103 0.046
		▶	3LD9 200-6C	1	1 unit	103 0.046
		C	3LD9 200-5CF	1	1 unit	103 0.028
For front and floor mounting						
 3LD9 224-1B	Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting, including seal - Black - Red/yellow	A	3LD9 224-1B	1	1 unit	103 0.072
		A	3LD9 224-3B	1	1 unit	103 0.075
 3LD9 224-3D	• For center-hole mounting, including seal and nut - Black - Red/yellow	A	3LD9 224-1D	1	1 unit	103 0.080
		A	3LD9 224-3D	1	1 unit	103 0.081
 3LD9 256-0A	Mounting tools For center-hole mounting with nut	A	3LD9 256-0A	1	5 units	103 0.027
	Switching shafts 6 x 6 mm Length 300 mm Length 600 mm	C	3LD9 205-0C	1	5 units	103 0.476
		C	3LD9 205-2C	1	5 units	103 0.476
 3LD9 286-1A	Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER) Without inscription	A	3LD9 286-1A	1	10 units	103 0.005
		A	3LD9 286-4A	1	10 units	103 0.054
 3LD9 201-2A	Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole • 3-/4-pole	A	3LD9 201-2A	100	4 units	103 0.200
		A	3LD9 201-1A	1	4 units	103 0.007

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Accessories








Version	DT	3LD2 1 and 3LD2 2	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
		Order No.	Price per PU			kg		
For front mounting								
 <p>3LD9 220-0B (left) 3LD9 220-2B (right)</p>		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 220-0B	1	1 unit	103	0.039
		N or PE terminals Continuous	▶	3LD9 220-2B	1	1 unit	103	0.036
 <p>3LD9 200-5B</p>		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC	▶	3LD9 200-5B	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request • 1 NO + 1 NC	C	3LD9 200-5BF	1	1 unit	103	0.028
For floor mounting, distribution board mounting or molded-plastic enclosures								
 <p>3LD9 220-0C</p>		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 220-0C	1	1 unit	103	0.039
		N or PE terminals Continuous	▶	3LD9 220-2C	1	1 unit	103	0.037
 <p>3LD9 200-5C (left) 3LD9 200-6C (right)</p>		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NO	▶	3LD9 200-5C	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request • 1 NO + 1 NC	C	3LD9 200-6C 3LD9 200-5CF	1 1	1 unit 1 unit	103 103	0.046 0.028
For front and floor mounting								
 <p>3LD9 224-1B</p>		Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting						
		- Black	A	3LD9 224-1B	1	1 unit	103	0.072
		- Red/yellow	A	3LD9 224-3B	1	1 unit	103	0.075
		For center-hole mounting, including seal and nut						
 <p>3LD9 224-3D</p>		- Black	A	3LD9 224-1D	1	1 unit	103	0.080
		- Red/yellow	A	3LD9 224-3D	1	1 unit	103	0.081
 <p>3LD9 256-0A</p>		Mounting tools For center-hole mounting with nut	A	3LD9 256-0A	1	5 units	103	0.027
		Switching shafts 6 x 6 mm Length 300 mm	C	3LD9 205-0C	1	5 units	103	0.476
	Length 600 mm	C	3LD9 205-2C	1	5 units	103	0.476	
 <p>3LD9 286-1A</p>		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	A	3LD9 286-1A	1	10 units	103	0.005
		Without inscription	A	3LD9 286-4A	1	10 units	103	0.054
 <p>3LD9 221-2A (left) 3LD9 221-0A (right)</p>		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom						
		• 1-pole	A	3LD9 221-2A	100	4 units	103	0.100
	• 3-pole	A	3LD9 221-0A	1	4 units	103	0.007	

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Accessories

Version	DT	3LD2 3 and 3LD2 4	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
		Order No.	Price per PU			kg		
For front mounting								
 3LD9 240-0B (left) 3LD9 240-2B (right)		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 240-0B	1	1 unit	103	0.500
		N or PE terminals Continuous	▶	3LD9 240-2B	1	1 unit	103	0.450
 3LD9 200-5B		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off						
		<ul style="list-style-type: none"> • 1 NO + 1 NC 	▶	3LD9 200-5B	1	1 unit	103	0.046
		<ul style="list-style-type: none"> • For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request • 1 NO + 1 NC 	C	3LD9 200-5BF	1	1 unit	103	0.028
For floor and distribution board mounting								
 3LD9 240-0C (left) 3LD9 240-2C (right)		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 240-0C	1	1 unit	103	0.500
		N or PE terminals Continuous	▶	3LD9 240-2C	1	1 unit	103	0.450
 3LD9 200-5C (left) 3LD9 200-6C (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off						
		<ul style="list-style-type: none"> • 1 NO + 1 NC 	▶	3LD9 200-5C	1	1 unit	103	0.046
		<ul style="list-style-type: none"> • 2 NO 	▶	3LD9 200-6C	1	1 unit	103	0.046
		<ul style="list-style-type: none"> • For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request • 1 NO + 1 NC 	C	3LD9 200-5CF	1	1 unit	103	0.028
For front and floor mounting								
 3LD9 243-1B		Knob-operated mechanism Lockable in 0 position with up to 3 padlocks						
		<ul style="list-style-type: none"> • For four-hole mounting, including seal - Black - Red/yellow 	A	3LD9 243-1B	1	1 unit	103	0.154
			A	3LD9 243-3B	1	1 unit	103	0.154
		Switching shafts 8 x 8 mm						
		Length 300 mm	C	3LD9 245-0C	1	5 units	103	0.476
		Length 600 mm	C	3LD9 245-2C	1	5 units	103	0.476
 3LD9 286-1A		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	A	3LD9 286-1A	1	10 units	103	0.005
		Without inscription	A	3LD9 286-4A	1	10 units	103	0.054
 3LD9 241-2A		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom						
		<ul style="list-style-type: none"> • 1-pole 	A	3LD9 241-2A	1	4 units	103	0.010

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Accessories








Version	DT	3LD2 5	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
		Order No.	Price per PU			kg		
For front mounting								
 <p>3LD9 250-0BA (left) 3LD9 250-2BA (right)</p>		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 250-0BA	1	1 unit	103	0.079
		N or PE terminals Continuous	▶	3LD9 250-2BA	1	1 unit	103	0.072
 <p>3LD9 200-5B</p>		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC	▶	3LD9 200-5B	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request • 1 NO + 1 NC	▶	3LD9 200-5BF	1	1 unit	103	0.028
For floor mounting, distribution board mounting or molded-plastic enclosures								
 <p>3LD9 250-0CA (left) 3LD9 250-2CA (right)</p>		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 250-0CA	1	1 unit	103	0.080
		N or PE terminals Continuous	▶	3LD9 250-2CA	1	1 unit	103	0.073
 <p>3LD9 200-5C (left) 3LD9 200-6C (right)</p>		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NO	▶	3LD9 200-5C	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request • 1 NO + 1 NC	▶	3LD9 200-6C	1	1 unit	103	0.046
			C	3LD9 200-5CF	1	1 unit	103	0.028
For front and floor mounting								
 <p>3LD9 284-1B</p>		Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting, including seal - Black - Red/yellow	A	3LD9 284-1B	1	1 unit	103	0.154
		• For center-hole mounting, including seal and nut - Black - Red/yellow	A	3LD9 284-3B	1	1 unit	103	0.152
 <p>3LD9 284-3D</p>			A	3LD9 284-1D	1	1 unit	103	0.155
			A	3LD9 284-3D	1	1 unit	103	0.155
 <p>3LD9 256-0A</p>		Mounting tools For center-hole mounting with nut	A	3LD9 256-0A	1	5 units	103	0.027
			C	3LD9 205-0C	1	5 units	103	0.476
			C	3LD9 205-2C	1	5 units	103	0.476
 <p>3LD9 286-1A</p>		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	A	3LD9 286-1A	1	10 units	103	0.005
		Without inscription	A	3LD9 286-4A	1	10 units	103	0.054
 <p>3LD9 251-2A (left) 3LD9 251-0A (right)</p>		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole	A	3LD9 251-2A	100	4 units	103	0.100
		• 3-pole	A	3LD9 251-0A	1	4 units	103	0.009

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

Accessories

Version	DT	3LD2 7 and 3LD2 8	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
		Order No.	Price per PU			kg		
For front mounting								
 <p>3LD9 280-0B (left) 3LD9 280-2B (right)</p>		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 280-0B	1	1 unit	103	0.101
		N or PE terminals Continuous	▶	3LD9 280-2B	1	1 unit	103	0.092
 <p>3LD9 200-5B</p>		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off						
		• 1 NO + 1 NC	▶	3LD9 200-5B	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request						
	• 1 NO + 1 NC	C		3LD9 200-5BF	1	1 unit	103	0.028
For floor mounting, distribution board mounting or molded-plastic enclosures								
 <p>3LD9 280-0C (left) 3LD9 280-2C (right)</p>		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 280-0C	1	1 unit	103	0.102
		N or PE terminals Continuous	▶	3LD9 280-2C	1	1 unit	103	0.093
 <p>3LD9 200-5C (left) 3LD9 200-6C (right)</p>		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off						
		• 1 NO + 1 NC	▶	3LD9 200-5C	1	1 unit	103	0.046
		• 2 NO	▶	3LD9 200-6C	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request						
	• 1 NO + 1 NC	C		3LD9 200-5CF	1	1 unit	103	0.028
For front and floor mounting								
 <p>3LD9 284-1B</p>		Rotary operating mechanisms for four-hole mounting Lockable in 0 position with up to 3 padlocks, including seal						
		• Black	A	3LD9 284-1B	1	1 unit	103	0.154
	• Red/yellow	A	3LD9 284-3B	1	1 unit	103	0.152	
		Switching shafts 6 x 6 mm						
	Length 300 mm	C	3LD9 205-0C	1	5 units	103	0.476	
	Length 600 mm	C	3LD9 205-2C	1	5 units	103	0.476	
		Inscription labels						
 <p>3LD9 286-1A</p>		With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	A	3LD9 286-1A	1	10 units	103	0.005
		Without inscription	A	3LD9 286-4A	1	10 units	103	0.054
 <p>3LD9 281-2A</p>		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)	A	3LD9 281-2A	1	4 units	103	0.007

* You can order this quantity or a multiple thereof.