

SENTRON Switching and Protection Devices – Switch Disconnectors, 8US Busbar Systems

17



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ET B1¹⁾ LV HRC fuse links

ET B1¹⁾ SITOR Semiconductor Fuses, LV HRC design

SENTRON 8US Busbar Systems

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¹⁾ See Catalog ET B1 "BETA Low-Voltage Circuit Protection".

Technical Information

is available at www.siemens.com/lowvoltage/support

under Product List:
- Technical specifications

under Entry List:
- Updates
- Downloads
- FAQ
- Manuals/operating instructions
- Characteristic curves
- Certificates

and at www.siemens.com/lowvoltage/configurators

- Configurators

Introduction

Overview

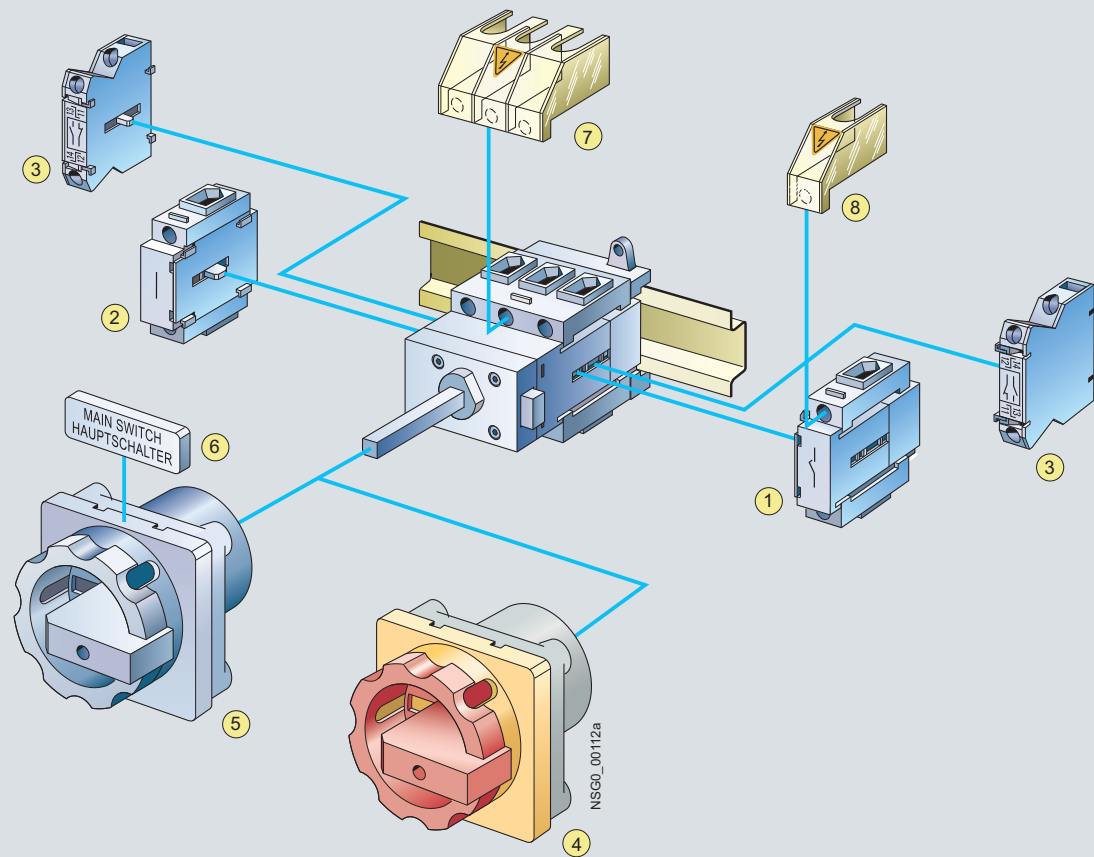
		Order No.	Page
Switch disconnectors			
	<p>Main and EMERGENCY-STOP switches 16 A to 250 A</p> <ul style="list-style-type: none"> • Devices for front mounting, floor mounting with door-coupling rotary operating mechanism, distribution board mounting or in molded-plastic enclosures • Front mounting with four-hole and center hole arrangement • 3, 4 and 6-pole versions • 3 and 4-pole load transfer switches • Solar plant isolators 800 V DC 	3LD	17/3
	<p>Switch disconnectors 63 A to 1000 A</p> <ul style="list-style-type: none"> • Devices for floor mounting with handle, with door-coupling rotary operating mechanism, in molded-plastic enclosures and for mounting in control cabinet side panels • 3 and 4-pole versions • Accessories for use as load transfer switches and parallel switches 	3KA/3KE	17/26
Switch disconnectors with fuses			
	<p>Switch disconnectors with fuses up to 800 A</p> <ul style="list-style-type: none"> • Devices for floor mounting with door-coupling rotary operating mechanism and for mounting in control cabinet side panels • 3KM versions with isolating plug connector for mounting on vertical busbars • 3 and 4-pole versions • Suitable for NH and BS 88 fuse systems 	3KL 3KM	17/38 17/47
	<p>In-line switch disconnectors with fuses, plug-in type, up to 630 A</p> <ul style="list-style-type: none"> • 3 and 4-pole versions • Suitable for NH and BS 88 fuse systems • Manually operated or with motorized operating mechanism • Optionally with integrated current transformers, auxiliary switches and electronic fuse monitoring 	3NJ62	17/58
Fuse switch disconnectors			
	<p>Fuse switch disconnectors up to 630 A</p> <ul style="list-style-type: none"> • Connection components are available for flat connection, saddle-type terminal connection, prism terminal connection and box terminal connection • Electromechanical and electronic fuse monitoring with/without network monitoring function • Mounting variants for floor mounting and 40/60 mm busbar system 	3NP1 / 3NP5	17/79
	<p>In-line fuse switch disconnectors up to 2000 A</p> <ul style="list-style-type: none"> • 1- and 3-pole switchable versions • Versions for secondary-side fusing of transformers • Connection components are available for flat connection, stud bolt connection, saddle-type terminal connection, prism terminal connection and box terminal connection • Versions with/without integratable current transformer • Versions with/without electronic fuse monitoring 	3NJ4/3NJ5	17/108
Busbar systems			
	<ul style="list-style-type: none"> • Systems for 40 mm and 60 mm busbar center-to-center clearance • 1, 2, 3, 4 and 5-pole systems • For flat copper bars and special profiles up to 1600 A • Versions for IEC and UL applications 	8US	17/118

Switch Disconnectors, Main and EMERGENCY-STOP Switches

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

General data

Overview



- ① 4th contact (N conductor)
- ② N or PE/ground terminal, continuous
- ③ Auxiliary switch 1 NO + 1 NC
- ④ Rotary operating mechanism, red/yellow
- ⑤ Rotary operating mechanism, black
- ⑥ Front plate, English/German
- ⑦ Terminal cover, three-pole
- ⑧ Terminal cover, single-pole

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 "disconnecter 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



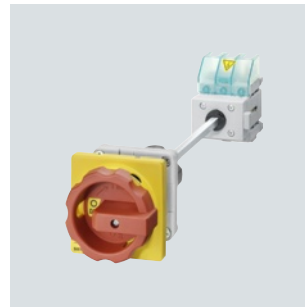
3LD2 222-0TK1 switch for front mounting with knob



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							
Insulating 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	600	600	--	--	--	--	--
	Pilot duty	A	P 600	P 600	P 600	--	--	--	--	--
		A	16	25	32	63	100	125	--	--
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								
Torque		AWG	18 ... 10	14 ... 8	14 ... 8	14 ... 6	12 ... 1	12 ... 1	--	--
		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 kW	P/AC-23A kW	I_n /AC-21A A							kg

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		
50	75.0			160	A	3LD2 305-1TL1□		1	1 unit	103	2.600		
110	132.0			250	A	3LD2 405-1TL1□		1	1 unit	103	2.600		
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		
		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		
3 + N	1 NO + 1 NC	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		
		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				
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 _n /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
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	7.5	16	A	3LD9 220-0B	1	1 unit	103	0.039
						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
						3LD9 200-5B	1	1 unit	103	0.046
						3LD2 222-0TK1 □ + ²⁾	1	1 unit	103	0.182
3 + N	1 NO + 1 NC	7.5	7.5	16	A	3LD9 200-5B	1	1 unit	103	0.046
						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
						3LD9 200-5B	1	1 unit	103	0.046
						3LD2 222-0TK1 □ + ¹⁾	1	1 unit	103	0.182
			11.5	32	A	3LD9 220-0B	1	1 unit	103	0.039
						3LD2 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
			25	A	3LD2 150-0TK1□	1	1 unit	103	0.191
			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
			25	A	3LD2 150-0TK1□⁺¹⁾	1	1 unit	103	0.191
					▶ 3LD9 200-5B	1	1 unit	103	0.046
			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
			25	A	3LD2 150-0TK1□⁺²⁾	1	1 unit	103	0.191
					▶ 3LD9 200-5B	1	1 unit	103	0.046
			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
			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
			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							kg		
		kW	A									
 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	3LD2 044-0TK5□ ⁺²⁾	1	1 unit	103	0.430	
						▶ 3LD9 250-0CA	1	1 unit	103	0.080	
				9.5	25	A	3LD2 044-0TK5□ ⁺²⁾	1	1 unit	103	0.426
							▶ 3LD9 200-5C	1	1 unit	103	0.046
				11.5	32	A	3LD2 144-0TK5□ ⁺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
							3LD2 144-1TL5□ ⁺²⁾	1	1 unit	103	0.461
				9.5	25	A	3LD2 144-1TL5□ ⁺²⁾	1	1 unit	103	0.461
	▶ 3LD9 200-5C	1					1 unit	103	0.046		
	3LD2 244-1TL5□ ⁺²⁾	1					1 unit	103	0.465		
11.5	32	A	3LD2 244-1TL5□ ⁺²⁾	1	1 unit	103	0.465				
			▶ 3LD9 200-5C	1	1 unit	103	0.046				
			3LD2 545-0TK5□ ⁺¹⁾	1	1 unit	103	0.710				
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 ⁺²⁾	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 kW	P/AC-23A kW	I_u A							kg

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 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	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

- 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



3LD2 330-0TK11

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
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 250-0CA		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.
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
		kW	A							
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 200-5C ⁺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 200-5C ⁺¹⁾						1	1 unit
										▶ 3LD9 240-0C

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

- 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



3LD2 164-0TB53

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	0.102
	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	0.046
			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
3	1 NO + 1 NC	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							
			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							
			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	C	3LD9 205-0C	1	5 units	103 0.476
	Length 600 mm	C	3LD9 205-2C	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 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)	▶	3LD9 220-0B	1	1 unit	103	0.039
		Leading switch-on, lagging switch-off						
		N or PE terminals	▶	3LD9 220-2B	1	1 unit	103	0.036
		Continuous						
 <p>3LD9 200-5B</p>		Auxiliary switches	▶	3LD9 200-5B	1	1 unit	103	0.046
		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, 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)	▶	3LD9 220-0C	1	1 unit	103	0.039
		Leading switch-on, lagging switch-off						
		N or PE terminals	▶	3LD9 220-2C	1	1 unit	103	0.037
		Continuous						
 <p>3LD9 200-5C (left) 3LD9 200-6C (right)</p>		Auxiliary switches	▶	3LD9 200-5C	1	1 unit	103	0.046
		For mounting on the left and/or right, lagging switch-on, leading switch-off						
		• 1 NO + 1 NC						
		• 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 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						
		- 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 224-3D</p>								
 <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
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
Terminal covers as additional touch protection (also for distribution board mounting)								
 <p>3LD9 221-2A (left) 3LD9 221-0A (right)</p>		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								
 <p>3LD9 240-0B (left) 3LD9 240-2B (right)</p>		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
 <p>3LD9 200-5B</p>		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 • 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 200-5B	1	1 unit	103	0.046
			C	3LD9 200-5BF	1	1 unit	103	0.028
For floor and distribution board mounting								
 <p>3LD9 240-0C (left) 3LD9 240-2C (right)</p>		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
 <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						
		<ul style="list-style-type: none"> • 1 NO + 1 NC • 2 NO • 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 200-5C	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								
 <p>3LD9 243-1B</p>		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
		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 241-2A</p>		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom						
		• 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								
		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 250-0BA	1	1 unit	103	0.079
3LD9 250-0BA (left) 3LD9 250-2BA (right)		N or PE terminals Continuous	▶	3LD9 250-2BA	1	1 unit	103	0.072
		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
3LD9 200-5B		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								
		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 250-0CA	1	1 unit	103	0.080
3LD9 250-0CA (left) 3LD9 250-2CA (right)		N or PE terminals Continuous	▶	3LD9 250-2CA	1	1 unit	103	0.073
		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
3LD9 200-5C (left) 3LD9 200-6C (right)		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								
		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
3LD9 284-1B			A	3LD9 284-3B	1	1 unit	103	0.152
		• For center-hole mounting, including seal and nut - Black - Red/yellow	A	3LD9 284-1D	1	1 unit	103	0.155
3LD9 284-3D			A	3LD9 284-3D	1	1 unit	103	0.155
		Mounting tools For center-hole mounting with nut	A	3LD9 256-0A	1	5 units	103	0.027
3LD9 256-0A								
		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 With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	A	3LD9 286-1A	1	10 units	103	0.005
3LD9 286-1A		Without inscription	A	3LD9 286-4A	1	10 units	103	0.054
		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole • 3-pole	A	3LD9 251-2A	100	4 units	103	0.100
3LD9 251-2A (left) 3LD9 251-0A (right)			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								
		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 280-0B	1	1 unit	103	0.101
3LD9 280-0B (left) 3LD9 280-2B (right)		N or PE terminals Continuous	▶	3LD9 280-2B	1	1 unit	103	0.092
		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off						
3LD9 200-5B		• 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						
	C	• 1 NO + 1 NC		3LD9 200-5BF	1	1 unit	103	0.028
For floor mounting, distribution board mounting or molded-plastic enclosures								
		4th contact (N conductor) Leading switch-on, lagging switch-off	▶	3LD9 280-0C	1	1 unit	103	0.102
3LD9 280-0C (left) 3LD9 280-2C (right)		N or PE terminals Continuous	▶	3LD9 280-2C	1	1 unit	103	0.093
		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off						
3LD9 200-5C (left) 3LD9 200-6C (right)		• 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						
	C	• 1 NO + 1 NC		3LD9 200-5CF	1	1 unit	103	0.028
For front and floor mounting								
		Rotary operating mechanisms for four-hole mounting Lockable in 0 position with up to 3 padlocks, including seal						
3LD9 284-1B	A	• Black		3LD9 284-1B	1	1 unit	103	0.154
	A	• Red/yellow		3LD9 284-3B	1	1 unit	103	0.152
		Switching shafts 6 x 6 mm						
	C	Length 300 mm		3LD9 205-0C	1	5 units	103	0.476
	C	Length 600 mm		3LD9 205-2C	1	5 units	103	0.476
		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)						
3LD9 286-1A	A	Without inscription		3LD9 286-1A	1	10 units	103	0.005
		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom						
3LD9 281-2A	A	• 1-pole (1 pack = 4 units)		3LD9 281-2A	1	4 units	103	0.007

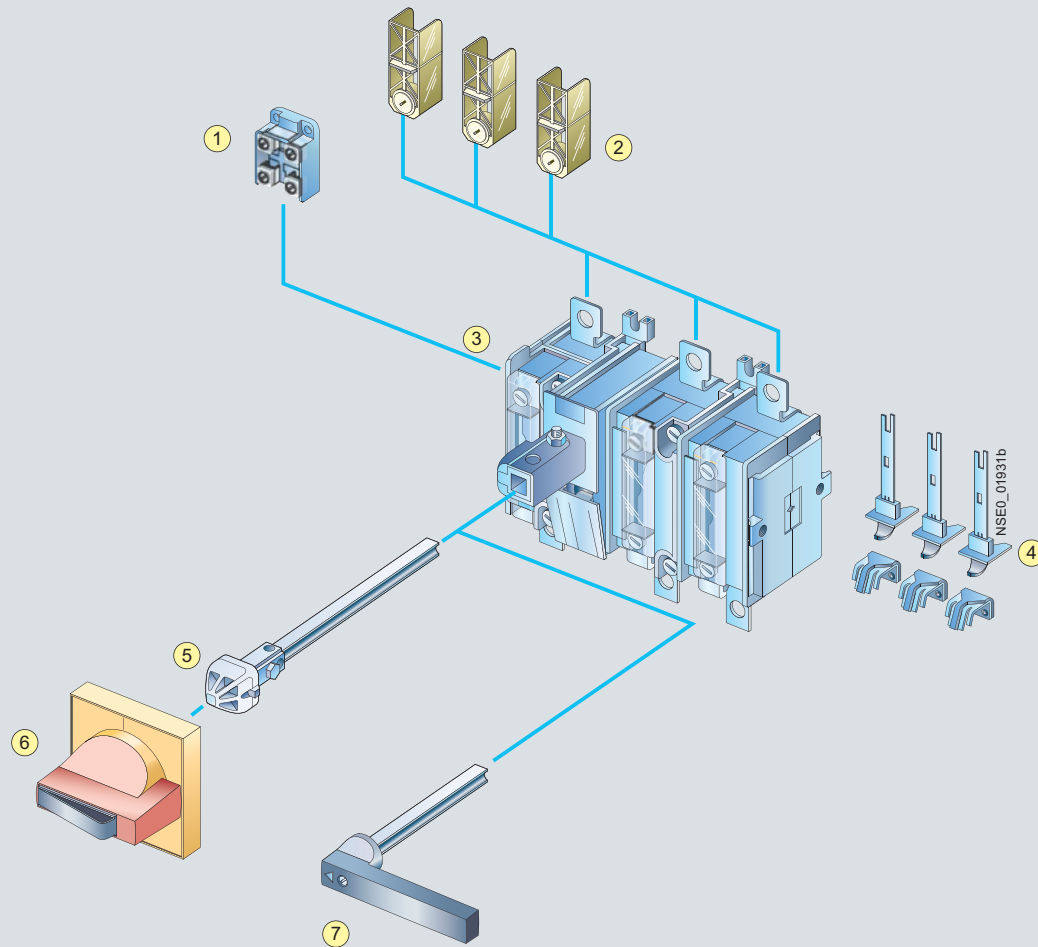
* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

General data

Overview



- ① Auxiliary switch (3SB for 3KA; 3KX for 3KE)
- ② IP20 terminal cover (Operator side)
- ③ 3K switch disconnector
- ④ Arcing contacts (only for 3KE)
- ⑤ Extension shaft
- ⑥ 8UC7 door-coupling rotary operating mechanism in standard version (ti-grey) or EMERGENCY-STOP version (red/yellow).
- ⑦ 8UC9 knob for fixed mounting in standard version (black) or EMERGENCY-STOP version (red/yellow).

All components from the switch to the actuator are provided with non-interchangeability features.

For the 3KA switch disconnectors, complete kits for standard and EMERGENCY-STOP application are available for installation in the side and rear panels of control cabinets.

A changeover operating mechanism is available for the use of 2 switch disconnectors in the 3KE series as load changeover switches.

An operating linkage permits simultaneous switching of two 3KE switch disconnectors with identical or different rated operational currents.

Identical accessories for 3KA switch disconnectors and for 3KL and 3KM switch disconnectors with fuses simplify stock keeping.

Application

3KA and 3KE switch disconnectors are used as main, EMERGENCY-STOP, maintenance and transfer switches in distribution boards for residential and non-residential buildings as well as industrial switchboards. As three and four-pole versions, they ensure activation and deactivation of the specified rated current under load. At the same time, they constitute a safety isolating function and isolating distance in all low-voltage circuits.

All 3K switch disconnectors are climate-proof and meet the requirements of IEC 60947-1, IEC 60947-3 and VDE 0660 Part 107. Switch disconnectors in the type-tested 8HP molded-plastic distribution board enclosure (degree of protection IP65) are available for use as safety switches.

More information can be found in the Catalog ET A1 "ALPHA Distribution Boards and Terminal Blocks".

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

General data

More information

Standards	IEC 60947-1, IEC 60947-3, VDE 0660 Part 107							
	Type	3KA50	3KA51	3KA52 ¹⁾	3KA53 ¹⁾	3KA55 ¹⁾	3KA57 ¹⁾	3KA58 ¹⁾
Rated uninterrupted current I_u	A	63	80	125	160	250	400	630 ³⁾
Conventional free-air thermal current I_{th}²⁾	A	63	80	125	160	250	400	630 ³⁾
Rated insulation voltage U_i	V	690	690	1000	1000	1000	1000	1000
Rated impulse voltage U_{imp}	kV	6	6	8	8	8	8	8
Rated operational voltage U_e								
AC 50 Hz/60 Hz	V	690						
DC	V	440 (3 conducting paths series-connected)						
	V	220 (2 conducting paths series-connected)						
	V	110 (1 conducting path)						
Rated short-circuit making capacity I_{cm} with upstream fuses⁴⁾	kA	220	220	220	220	176	176	105
At 50 Hz/60 Hz 690 V AC, peak value								
Rated conditional short-circuit current with upstream fuses⁴⁾	kA	100	100	100	100	80	80	50
At 50 Hz/60 Hz 690 V AC, rms value								
Max. rated current I_n of the fuses	A	63	80	160	160	400	400	630
Permissible let-through current of the fuses	kA	8	10	17	17	30 ⁵⁾	30 ⁵⁾	40 ⁵⁾
Maximum permissible let-through I^2t value	kA ² s	55	55	223	223	1000	1000	2600
Permissible let-through current of an upstream circuit breaker	kA	7	8	8	15	25	25	32
At 50 Hz/60 Hz 690 V AC, peak value								
Rated short-circuit making capacity without fuses	kA	7	7	7	9	20	25	35
At 50 Hz/60 Hz 690 V AC, peak value								
Switching capacity (infeed from the top or bottom)								
At 400 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	650	1000	1280	2000	3200	5040
• Rated operational current I_e at								
- AC-21A, AC-22A, AC-23A	A	63	80	125	160	250	400	630 ⁶⁾
• Motor switching capacity AC-23A	kW	30	40	65	80	132	200	350
At 500 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	640	1000	1280	2000	3200	3200
• Rated operational current I_e at								
- AC-21A, AC-22A	A	63	80	125	160	250	400	630
- AC-23A	A	63	80	125	160	250	400	400
• Motor switching capacity AC-23A	kW	40	50	90	110	185	280	280
At 690 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	500	1000	1280	2000	3200	3200
• Rated operational current I_e at								
- AC-21A, AC-22A	A	63	80	125	160	250	400	630
- AC-23A	A	63	63	125	160	250	400	400
• Motor switching capacity AC-23A	kW	50	50	110	150	220	375	375
At 440 V DC (3 conducting paths series-connected) ⁷⁾								
• Breaking current I_C ($L/R = 15$ ms)	A	250	260	500	640	1000 ⁹⁾	1600	1600
• Rated operational current I_e at DC-23A	A	63	63	125	160	250 ⁹⁾	400	400
Rated short-time current I_{cw} (1 s current, rms value)	kA	2.5	2.5	3.2	3.2	8	11	15
Permissible ambient temperature	°C	-25 ... +55 for operation ³⁾						
	°C	-50 ... +80 when stored						
Mechanical endurance , operating cycles		15000	15000	15000	15000	12000	12000	12000
Degree of protection		IP00/IP20 (from the operator side, with busbar and terminal covers)						
Power loss of the switch disconnector at I_{th}	W	7	12	22	22	33	72	170
Main conductor connections								
Busbar systems, max. dimensions (w x t)	mm	25 x 9	25 x 9	45 x 10	45 x 10	40 x 12	40 x 12	40 x 15
Cable lug, max. conductor cross-section (stranded)	mm ²	35	35	70	120	150	2 x 150 or 1 x 240	2 x 240
Tightening torque	Nm	6 ... 7.5	6 ... 7.5	7 ... 10	18 ... 22	35 ... 45	35 ... 45	35 ... 45
Terminal screws		M6	M6	M6	M8	M10	M10	M10
Protective conductor connections								
Flat bars	mm	--	--	--	--	20 x 2.5	20 x 2.5	20 x 2.5
Cable lug, max. conductor cross-section (stranded)	mm ²	--	--	--	--	70	120	120

1) Technical specifications for approval on request.

2) Configuring note: Max. permissible operating temperature at connections 100 °C.

3) With 3KA58 for operation -25 °C ... +35 °C, 570 A at 55 °C.

4) Only with 3NA38, 3NA32 or 3ND18, 3ND12 fuses (otherwise only 105 kA/50 kA).

5) 3ND1 switchgear protection fuse.

6) AC-23B

7) 220 V DC (L1 and L3 series-connected) or 110 V DC (one conducting path) at DC-23A.

8) At 440 V $L/R = 4$ ms, at 220 V $L/R = 15$ ms.

9) At 440 V DC-22A, at 220 V DC-23A.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

General data

Standards	IEC 60947-1, IEC 60947-3, VDE 0660 Part 107				
	Type	3KE42	3KE43	3KE44	3KE45
Rated uninterrupted current I_U	A	250	400	630	1000
Rated insulation voltage U_i	V	AC 1000, DC 1200			
Rated impulse voltage U_{imp}	kV	8	8	8	8
Rated operational voltage U_e					
AC 50 Hz/60 Hz	V	690			
DC	V	440 (3 conducting paths series-connected)			
	V	220 (2 conducting paths series-connected)			
Rated short-circuit making capacity I_{cm} At 50 Hz/60 Hz 690 V AC (peak value)	kA	35	35	60	60
Rated short-circuit making capacity with upstream fuses At 50 Hz/60 Hz 690 V AC (peak value)	kA	105	105	105	84
Rated conditional short-circuit current with upstream fuses At 50 Hz/60 Hz 690 V AC (rms value)	A	50	50	50	40
Maximum permissible let-through I^2t value	kA ² s	2150	2150	5400	19000
Permissible let-through current of an upstream circuit breaker					
At 50 Hz/60 Hz 690 V AC (peak value)	kA	35	35	60	60
Max. rated current I_n of the fuse	A	400	400	630	1000
Permissible let-through current of the fuses (peak value)	kA	38	38	60	75
Switching capacity (infeed from the top or bottom)					
At 400 V AC					
• Breaking current I_C (rms value at p.f. = 0.35)	A	1000	1000	2520	2520
• Rated operational current I_e at					
- AC-21A	A	250	400	630	1000
- AC-22A	A	250	330	630	800
- AC-23A	A	125	125	315	315
At 500 V AC					
• Breaking current I_C (rms value at p.f. = 0.35)	A	1000	1000	2520	2520
• Rated operational current I_e at					
- AC-21A	A	250	400	630	1000
- AC-22A	A	250	330	630	800
- AC-23A	A	125	125	315	315
At 690 V AC					
• Breaking current I_C (rms value at p.f. = 0.35)	A	1000	1000	2520	2520
• Rated operational current I_e at					
- AC-21A	A	250	400	630	1000
- AC-22A	A	250	330	630	800
- AC-23A	A	125	125	315	315
At 440 V DC (3 conducting paths series-connected)					
• Breaking current I_C (L/R = 5 ms)	A	1000	1000	2520	2520
• Rated operational current I_e at					
- DC-21A	A	250	400	630	1000
- DC-22A	A	250	250	630	630
Rated short-time current I_{cw} (1 s current, rms value)	kA	12.5	12.5	21	21
Permissible ambient temperature	°C	-25 ... +55 for operation			
	°C	-50 ... +80 when stored			
Mechanical endurance , operating cycles		10000			
Degree of protection		IP00			
Power loss of the switch disconnector at I_{th}	W	15	33	78	180
Main conductor connections					
Busbar systems, max. dimensions (w x t)	mm	25 x 10	25 x 10	2 x 40 x 10	2 x 40 x 10
Cable lug, max. conductor cross-section (stranded)	mm ²	2 x 150	2 x 150, 1 x 240	2 x 240	2 x 240

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Application




3KA switch disconnectors are implemented as main switches and EMERGENCY-STOP switches for normal switching duty and isolation of main circuits and auxiliary circuits. Another field of application is the switching of induction motors and other loads in the event of maintenance and repair.

Main and EMERGENCY-STOP switches are manually operated switch disconnectors according to IEC 60947-3 and VDE 0660 Part 107 (EN 60947-3) and comply with the conditions for switch disconnectors and the requirements of the machinery directive EN 60204-1.

Selection and ordering data

All switch disconnectors with degree of protection IP00

Conductor connecting screws are generally included in the scope of supply.

Rated uninterrupted current I_u	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)								
3-pole for motor loads and for power distribution								
63	B	3KA50 30-1GE01		1	1 unit	103	1.444	
80	B	3KA51 30-1GE01		1	1 unit	103	1.403	
125	B	3KA52 30-1GE01		1	1 unit	103	2.383	
160	B	3KA53 30-1GE01		1	1 unit	103	2.426	
250	B	3KA55 30-1GE01		1	1 unit	103	5.475	
400	B	3KA57 30-1GE01		1	1 unit	103	5.556	
630	B	3KA58 30-1GE01		1	1 unit	103	6.128	
4-pole¹⁾ for power distribution								
63	B	3KA50 40-1GE01		1	1 unit	103	2.498	
80	B	3KA51 40-1GE01		1	1 unit	103	2.540	
125	B	3KA52 40-1GE01		1	1 unit	103	2.490	
160	B	3KA53 40-1GE01		1	1 unit	103	2.458	
250	B	3KA55 40-1GE01		1	1 unit	103	6.038	
400	B	3KA57 40-1GE01		1	1 unit	103	5.154	
630	B	3KA58 40-1GE01		1	1 unit	103	6.595	
Basic switch versions without handle								
3-pole for motor loads and for power distribution								
	63	B	3KA50 30-1AE01		1	1 unit	103	0.946
	80	B	3KA51 30-1AE01		1	1 unit	103	0.918
	125	B	3KA52 30-1AE01		1	1 unit	103	1.880
	160	▶	3KA53 30-1AE01		1	1 unit	103	2.028
	250	B	3KA55 30-1AE01		1	1 unit	103	4.514
	400	B	3KA57 30-1AE01		1	1 unit	103	4.630
	630	B	3KA58 30-1AE01		1	1 unit	103	5.151
3KA53 30-1AE01								
4-pole¹⁾ for power distribution								
	63	B	3KA50 40-1AE01		1	1 unit	103	2.100
	80	B	3KA51 40-1AE01		1	1 unit	103	2.112
	125	B	3KA52 40-1AE01		1	1 unit	103	2.090
	160	B	3KA53 40-1AE01		1	1 unit	103	2.240
	250	C	3KA55 40-1AE01		1	1 unit	103	5.042
	400	B	3KA57 40-1AE01		1	1 unit	103	5.195
	630	B	3KA58 40-1AE01		1	1 unit	103	5.740
3KA53 40-1AE01								
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle								
3-pole for motor loads and for power distribution								
	63	C	8UC71 21-3BB10		1	1 unit	103	0.200
	80	C	8UC71 21-3BB10		1	1 unit	103	0.200
	125	C	8UC72 22-3BB20		1	1 unit	103	0.200
	160	C	8UC72 22-3BB20		1	1 unit	103	0.200
	250	C	8UC73 23-3BB30		1	1 unit	103	0.200
	400	C	8UC73 23-3BB30		1	1 unit	103	0.200
	630	C	8UC73 23-3BB30		1	1 unit	103	0.200
8UC71 21-3BB10								
4-pole¹⁾ for power distribution								
63	C	8UC72 22-3BB20		1	1 unit	103	0.200	
80	C	8UC72 22-3BB20		1	1 unit	103	0.200	
125	C	8UC72 22-3BB20		1	1 unit	103	0.200	
160	C	8UC72 22-3BB20		1	1 unit	103	0.200	
250	C	8UC73 23-3BB30		1	1 unit	103	0.200	
400	C	8UC73 23-3BB30		1	1 unit	103	0.200	
630	C	8UC73 23-3BB30		1	1 unit	103	0.200	


¹⁾ Rated values reduced in the event of strong harmonics caused by frequency converter operation.

For 8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate), see Accessories.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	DT	3-pole, assembly kit for mounting in control cabinet side panel Assembly kits (IP40) Comprising: Lockable handle and three terminal covers for the infeed side	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
A		Order No.	Price per PU			kg	
Black handle							
 <p>3KA53 30-1AE01 with 3KX3 536-2AA</p>	63	B	3KX3 516-2AA	1	1 unit	103	0.591
	80	B	3KX3 516-2AA	1	1 unit	103	0.591
	125	B	3KX3 536-2AA	1	1 unit	103	0.843
	160	B	3KX3 536-2AA	1	1 unit	103	0.843
	250	B	3KX3 556-2AA	1	1 unit	103	1.560
	400	B	3KX3 556-2AA	1	1 unit	103	1.560
	630	B	3KX3 556-2AA	1	1 unit	103	1.560
	EMERGENCY-STOP red handle						
	63	B	3KX3 516-2BA	1	1 unit	103	0.584
80	B	3KX3 516-2BA	1	1 unit	103	0.584	
125	B	3KX3 536-2BA	1	1 unit	103	0.860	
160	B	3KX3 536-2BA	1	1 unit	103	0.860	
250	B	3KX3 556-2BA	1	1 unit	103	1.590	
400	B	3KX3 556-2BA	1	1 unit	103	1.590	
630	B	3KX3 556-2BA	1	1 unit	103	1.590	

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

All switch disconnectors with degree of protection IP00
with high speed closing and opening
conductor connecting screws are generally included in the scope of supply

Rated uninterrupted current I_U	DT	3-pole, operating mechanism and actuation from the front Direct operating mechanisms	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
Complete versions with black handle						
250	B	3KE42 30-0BA	1	1 unit	103	4.210
400	B	3KE43 30-0BA	1	1 unit	103	4.178
630	B	3KE44 30-0BA	1	1 unit	103	7.184
1000	B	3KE45 30-0BA	1	1 unit	103	7.838
Basic switch versions without handle						
250	B	3KE42 30-0AA	1	1 unit	103	3.879
400	B	3KE43 30-0AA	1	1 unit	103	3.870
630	B	3KE44 30-0AA	1	1 unit	103	6.915
1000	B	3KE45 30-0AA	1	1 unit	103	7.427
EMERGENCY-STOP red handles + coupling sockets for basic switch versions without handle						
250	B	8UC93 71 + 3KX2 210-0H	1	1 unit	103	0.146
	B	3KX2 210-0H	1	1 unit	103	0.236
400	B	8UC93 71 + 3KX2 210-0H	1	1 unit	103	0.146
	B	3KX2 210-0H	1	1 unit	103	0.236
630	B	8UC93 75 + 3KX2 210-0H	1	1 unit	103	0.165
	B	3KX2 210-0H	1	1 unit	103	0.236
1000	B	8UC93 75 + 3KX2 210-0H	1	1 unit	103	0.165
	B	3KX2 210-0H	1	1 unit	103	0.236
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)						
250	B	3KE42 30-0GA	1	1 unit	103	5.032
400	B	3KE43 30-0GA	1	1 unit	103	5.041
630	B	3KE44 30-0GA	1	1 unit	103	7.885
1000	B	3KE45 30-0GA	1	1 unit	103	8.532
Basic switch versions without handle						
250	B	3KE42 30-0AA	1	1 unit	103	3.879
400	B	3KE43 30-0AA	1	1 unit	103	3.870
630	B	3KE44 30-0AA	1	1 unit	103	6.915
1000	B	3KE45 30-0AA	1	1 unit	103	7.427
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle						
250, 400, 630, 1000	C	8UC73 24-3BB44	1	1 unit	103	0.200

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	DT	3-pole, rear operating mechanism and actuation	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
Basic switch versions without handle						
Direct operating mechanisms						
250	B	3KE42 30-0CA	1	1 unit	103	5.306
400	B	3KE43 30-0CA	1	1 unit	103	5.030
630	C	3KE44 30-0CA	1	1 unit	103	7.395
1000	C	3KE45 30-0CA	1	1 unit	103	7.990
Direct operating mechanisms (lockable)						
250	B	3KE42 30-0CA	1	1 unit	103	5.306
400	B	3KE43 30-0CA	1	1 unit	103	5.030
630	C	3KE44 30-0CA	1	1 unit	103	7.395
1000	C	3KE45 30-0CA	1	1 unit	103	7.990
Handles (black) + masking plates + display plates (silver) for basic switch versions without handle						
Direct operating mechanisms						
250	B	8UC93 70	1	1 unit	103	0.128
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
400	B	8UC93 70	1	1 unit	103	0.128
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
630	B	8UC93 74	1	1 unit	103	0.145
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
1000	B	8UC93 74	1	1 unit	103	0.145
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
Direct operating mechanisms (lockable)						
250	B	8UC93 70	1	1 unit	103	0.128
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
400	B	8UC93 70	1	1 unit	103	0.128
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
630	B	8UC93 74	1	1 unit	103	0.145
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 31-0B	1	1 unit	103	0.011
1000	B	8UC93 74	1	1 unit	103	0.145
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 31-0B	1	1 unit	103	0.011

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_U	DT	3-pole, rear operating mechanism and actuation	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
EMERGENCY-STOP red handles + masking plates + display plates (yellow) for basic switch versions without handle						
Direct operating mechanisms						
250	B	8UC93 71	1	1 unit	103	0.146
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
400	B	8UC93 71	1	1 unit	103	0.146
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
630	B	8UC93 75	1	1 unit	103	0.165
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
1000	B	8UC93 75	1	1 unit	103	0.165
	A	+ 8UB95 30	1	1 unit	103	0.028
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
Direct operating mechanisms (lockable)						
250	B	8UC93 71	1	1 unit	103	0.146
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
400	B	8UC93 71	1	1 unit	103	0.146
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
630	B	8UC93 75	1	1 unit	103	0.165
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
1000	B	8UC93 75	1	1 unit	103	0.165
	B	+ 8UC95 63	1	1 unit	103	0.271
	A	+ 8UC96 33-0B	1	1 unit	103	0.011
3-pole, rear rotary operating mechanisms (lockable)						
Door-coupling rotary operating mechanisms (lockable)						
A		Order No.	Price per PU			kg
Basic switch versions without handle						
250	B	3KE42 30-OCA	1	1 unit	103	5.306
400	B	3KE43 30-OCA	1	1 unit	103	5.030
630	C	3KE44 30-OCA	1	1 unit	103	7.395
1000	C	3KE45 30-OCA	1	1 unit	103	7.990
8UC7 door-coupling rotary operating mechanisms (black handle) for basic switch versions without handle						
250, 400, 630, 1000	C	8UC73 14-1BB44	1	1 unit	103	0.200
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle						
250, 400, 630, 1000	C	8UC73 24-3BB44	1	1 unit	103	0.200

* You can order this quantity or a multiple thereof.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Molded-plastic enclosure

Benefits

- Lockable with 3 padlocks
- Generous terminal compartment
- Degree of protection IP65
- Maintenance-free
- Easy mounting


Application

Our master and EMERGENCY-STOP switches provide absolute safety, even during maintenance and repair work. All-round safety for people and machines.

With their high degree of protection IP65, they can even withstand dust and water spray, providing unparalleled safety in the

building and industrial installations as well as the food and chemical industry. Even with the enclosure open, they comply with protection class 2. IP20 is the minimum!

Selection and ordering data

Main contacts	Auxiliary contacts	P/AC-23A		I_u	Conductor cross-section of main conductor/PEN	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
		At 380 ... 400 V	At 660/690 V										kW
Main control switches complete with rotary operating mechanism, black¹⁾													
	3	--	65	110	125	35/35 ²⁾	C	8HP2 707		1	1 unit	046	5.240
			80	150	160	120/70 ²⁾	C	8HP2 711		1	1 unit	046	8.039
			132	220	250	150/70 ²⁾	C	8HP2 712		1	1 unit	046	12.242
			200	375	400	2 × 150 or 1 × 240/120	C	8HP2 717		1	1 unit	046	12.378
			350	375	630	2 × 240/120	C	8HP2 718		1	1 unit	046	13.050
			315	315	800 ³⁾	2 × 240/240	C	8HP2 738		1	1 unit	046	14.290
EMERGENCY-STOP switches complete with rotary operating mechanism, red/yellow¹⁾													
	3	--	65	110	125	35/35 ²⁾	C	8HP2 747		1	1 unit	046	5.217
			80	150	160	120/70 ²⁾	C	8HP2 748		1	1 unit	046	7.992
			132	220	250	150/70 ²⁾	C	8HP2 761		1	1 unit	046	12.340
			200	375	400	2 × 150 or 1 × 240/120	C	8HP2 762		1	1 unit	046	12.354
			350	375	630	2 × 240/120	C	8HP2 763		1	1 unit	046	12.875
			315	315	800 ³⁾	2 × 240/240	C	8HP2 758		1	1 unit	046	14.329

¹⁾ With PE-/ground or N terminal.

²⁾ For a fifth conductor, the same terminal can be fitted additionally.

³⁾ At ambient temperatures up to 35 °C.

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Selection and ordering data

	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
3KA50 30/3KA51 30								
		Terminal cover						
		For 3-pole devices (1 set = 6 units)	▶	3KX3 552-3DA01	1	1 unit	103	0.077
		For 4-pole devices (1 set = 8 units)	B	3KX3 552-3DB01	1	1 unit	103	0.102
		Door-coupling rotary operating mechanisms IP65						
		Black handle, shaft 300 mm	C	8UC71 11-1BB10	1	1 unit	103	0.200
		EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC71 21-3BB10	1	1 unit	103	0.200
		Operating mechanisms for fixed mounting	▶	3KX3 516-1AA	1	1 unit	103	0.088
		Black handle, shaft 250 mm						
		Extension shaft 300 mm long	B	8UC60 31	1	1 unit	103	0.068
		Extension shaft 600 mm long	B	8UC60 81	1	1 unit	103	0.136
		Shaft connecting pieces	B	8UC60 21	1	1 unit	103	0.031
		Auxiliary switches	C	3SB14 00-0A	1	1 unit	102	0.020
		1 NO + 1 NC ¹⁾						
3KA50 40/3KA51 40/3KA52/3KA53								
		Terminal cover						
		For 3KA52 3-pole devices (1 set = 6 units)	▶	3KX3 552-3DA01	1	1 unit	103	0.077
		For 3KA53	▶	3KX3 553-3DA01	1	1 unit	103	0.147
		For 3KA52 4-pole devices (1 set = 8 units)	B	3KX3 552-3DB01	1	1 unit	103	0.102
		For 3KA53	B	3KX3 553-3DB01	1	1 unit	103	0.170
		Door-coupling rotary operating mechanisms IP65						
		Black handle, shaft 300 mm	C	8UC72 12-1BB20	1	1 unit	103	0.200
		EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC72 22-3BB20	1	1 unit	103	0.200
		Operating mechanisms for fixed mounting	▶	3KX3 536-1AA	1	1 unit	103	0.155
		Black handle, shaft 250 mm						
		Extension shaft 300 mm long	B	8UC60 32	1	1 unit	103	0.132
		Extension shaft 600 mm long	B	8UC60 82	1	1 unit	103	0.265
		Shaft connecting pieces	B	8UC60 22	1	1 unit	103	0.023
		Auxiliary switches	C	3SB14 00-0A	1	1 unit	102	0.020
		1 NO + 1 NC ¹⁾						
		20 ms leading	B	3KX3 552-3EA01	1	1 unit	103	0.019
		1 NO + 1 NC						
3KA55/3KA57/3KA58								
		Terminal cover						
		For 3-pole devices (1 set = 6 units)	▶	3KX3 557-3DA01	1	1 unit	103	0.277
		For 4-pole devices (1 set = 8 units)	B	3KX3 557-3DB01	1	1 unit	103	0.362
		Door-coupling rotary operating mechanisms IP65						
		Black handle, shaft 300 mm	C	8UC73 13-1BB30	1	1 unit	103	0.200
		EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC73 23-3BB30	1	1 unit	103	0.200
		Operating mechanisms for fixed mounting	▶	3KX3 176-1E	1	1 unit	103	0.285
		Black handle, shaft 250 mm						
		Extension shaft 300 mm long	C	8UC60 33	1	1 unit	103	0.217
		Extension shaft 600 mm long	B	8UC60 83	1	1 unit	103	0.430
		Shaft connecting pieces	B	8UC60 23	1	1 unit	103	0.085
		Auxiliary switches	C	3SB14 00-0A	1	1 unit	102	0.020
		1 NO + 1 NC ¹⁾						
		20 ms leading	B	3KX3 552-3EA01	1	1 unit	103	0.019
		1 NO + 1 NC ¹⁾						

¹⁾ For more 3SB14 00-0, contact blocks with other contact types, see Chapter 9 "Pushbuttons and Indicator Lights".

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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3KE42/3KE43



3KX2 210-0D

Changeover switches

Changeover switches with interruption

Switch I ON – Switch II OFF
Switch I OFF – Switch II OFF
Switch I ON – Switch II ON

B	3KX2 210-0D	1	1 unit	103	2.442
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Door-coupling rotary operating mechanisms IP65

Twin handle (black), shaft 300 mm

C	8UC74 14-1BF44	1	1 unit	103	0.200
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Direct operating mechanisms

Twin handle (black) for fixed mounting

B	8UC93 81	1	1 unit	103	0.264
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Changeover switches without interruption

Switch I ON – Switch II OFF
Switch I ON – Switch II ON
Switch I ON – Switch II ON

B	3KX2 210-0E	1	1 unit	103	2.448
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Door-coupling rotary operating mechanisms IP65

Twin handle (black), shaft 300 mm

C	8UC74 14-1FG44	1	1 unit	103	0.200
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Direct operating mechanisms

Twin handle (black) for fixed mounting

B	8UC93 81	1	1 unit	103	0.264
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Parallel switches

Switch I ON – Switch II ON
Switch I OFF – Switch II OFF

C	3KX2 250-1A	1	1 unit	103	0.750
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Door-coupling rotary operating mechanisms IP65

Twin handle (black), shaft 300 mm

C	8UC74 14-1BB44	1	1 unit	103	0.200
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EMERGENCY-STOP door-coupling rotary operating mechanisms IP65

Twin handle (red), shaft 300 mm

C	8UC74 24-3BB44	1	1 unit	103	0.200
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Direct operating mechanisms

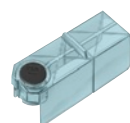
Twin handle (black) for fixed mounting

B	8UC93 81	1	1 unit	103	0.264
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Further accessories

Terminal cover
(1 set = 6 units)

▶	3KX3 557-3DA01	1	1 unit	103	0.277
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3KX3 557-3DA01

Door-coupling rotary operating mechanisms IP65

Black handle, shaft 300 mm

C	8UC73 14-1BB44	1	1 unit	103	0.200
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EMERGENCY-STOP (yellow/red), shaft 300 mm

C	8UC73 24-3BB44	1	1 unit	103	0.200
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Extension shaft 300 mm long

B	8UC60 34	1	1 unit	103	0.315
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Extension shaft 600 mm long

B	8UC60 84	1	1 unit	103	0.640
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Auxiliary switches with switching cam
1 NO + 1 NC (complete mounting kit)

B	3KX2 231-1A	1	1 unit	103	0.049
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3KX2 231-1A

Grounding brackets

B	3KX2 252-1A	1	1 unit	103	0.049
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Arc chute

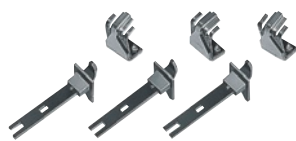
(spare part with 3 arc-splitter assemblies)

B	3KY2 202-0B	1	1 unit	103	0.640
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Arcing contacts

(spare part with 3 fixed and 3 movable contacts)

B	3KY2 204-0A	1	1 unit	103	0.202
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3KY2 204-0A

Switch Disconnectors, Main and EMERGENCY-STOP Switches

SENTRON 3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3KE44/3KE45							
<i>Changeover switches</i>							
Changeover switches with interruption							
Switch I ON – Switch II OFF Switch I OFF – Switch II OFF Switch I ON – Switch II ON	B	3KX2 210-0D		1	1 unit	103	2.442
Door-coupling rotary operating mechanisms IP65 Twin handle (black), shaft 300 mm							
	C	8UC74 14-1BF44		1	1 unit	103	0.200
Direct operating mechanisms Twin handle (black) for fixed mounting							
	B	8UC93 81		1	1 unit	103	0.264
Changeover switches without interruption							
Switch I ON – Switch II OFF Switch I ON – Switch II ON Switch I ON – Switch II ON	B	3KX2 210-0E		1	1 unit	103	2.448
Door-coupling rotary operating mechanisms IP65 Twin handle (black), shaft 300 mm							
	C	8UC74 14-1FG44		1	1 unit	103	0.200
Direct operating mechanisms Twin handle (black) for fixed mounting							
	B	8UC93 81		1	1 unit	103	0.264
<i>Parallel switches</i>							
Switch I ON – Switch II ON Switch I OFF – Switch II OFF	C	3KX2 250-1A		1	1 unit	103	0.750
Door-coupling rotary operating mechanisms IP65 Twin handle (black), shaft 300 mm							
	C	8UC74 14-1BB44		1	1 unit	103	0.200
EMERGENCY-STOP door-coupling rotary operating mechanisms IP65 Twin handle (red), shaft 300 mm							
	C	8UC74 24-3BB44		1	1 unit	103	0.200
Direct operating mechanisms Twin handle (black) for fixed mounting							
	B	8UC93 81		1	1 unit	103	0.264
<i>Further accessories</i>							
Terminal cover (top and bottom)							
	B	3KX2 252-0C		1	1 unit	103	0.424
Door-coupling rotary operating mechanisms IP65							
Black handle, shaft 300 mm	C	8UC73 14-1BB44		1	1 unit	103	0.200
EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC73 24-3BB44		1	1 unit	103	0.200
Extension shaft 300 mm long							
	B	8UC60 34		1	1 unit	103	0.315
Extension shaft 600 mm long							
	B	8UC60 84		1	1 unit	103	0.640
Auxiliary switches 1 NO + 1 NC (complete mounting kit)							
	B	3KX2 231-1A		1	1 unit	103	0.049
Grounding brackets							
	B	3KX2 252-1A		1	1 unit	103	0.049
Arc chute (spare part with 3 arc-splitter assemblies)							
	B	3KY2 232-0A		1	1 unit	103	1.040
Arcing contacts (spare part with 3 fixed and 3 movable contacts)							
	B	3KY2 234-0A		1	1 unit	103	0.105



3KX2 210-0D



3KX2 231-1A



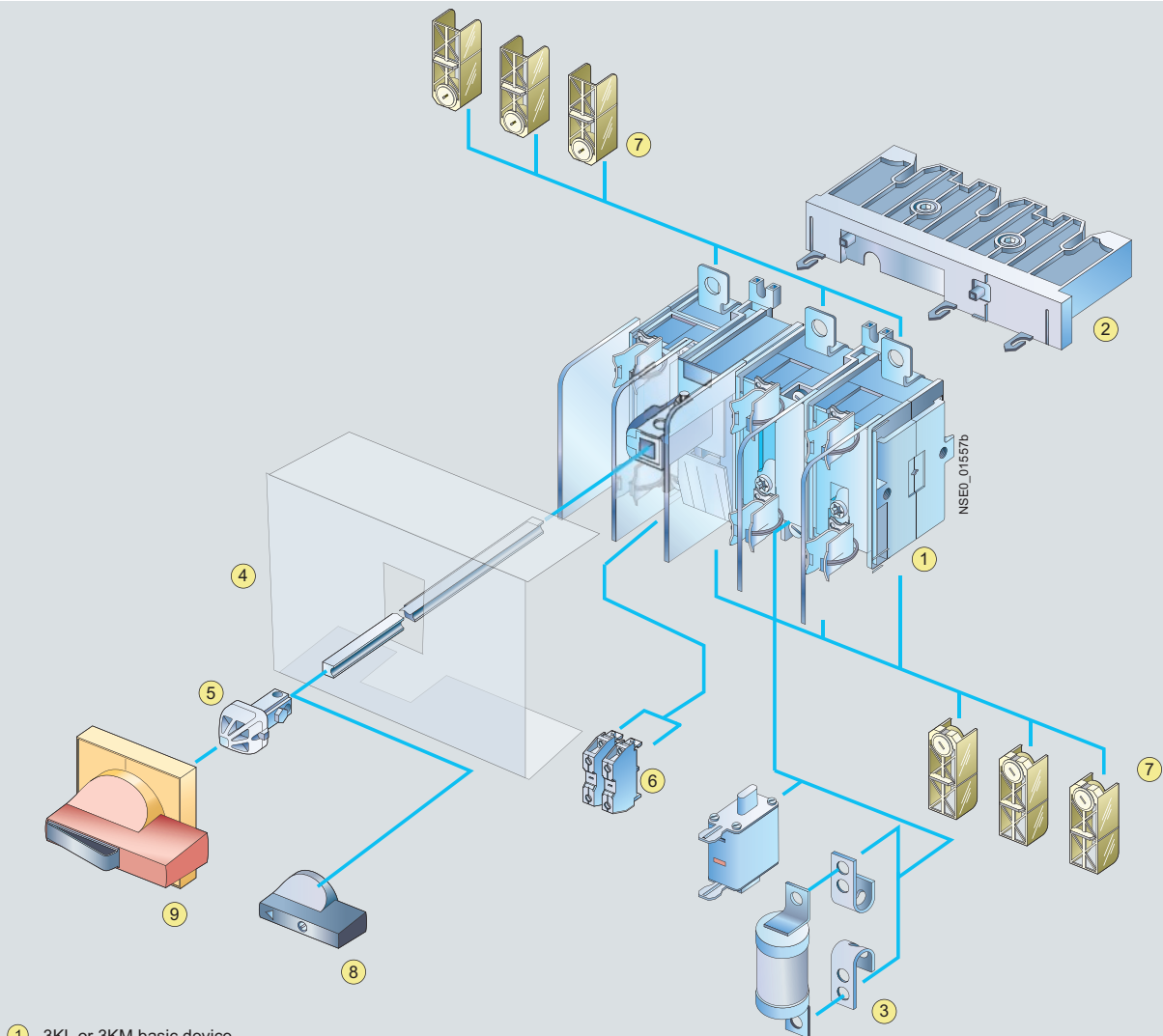
3KY2 232-0A

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

General data

Overview



- ① 3KL or 3KM basic device
- ② Plug-in contact strip for 3KM
- ③ Fuses, optionally BS-88 or LV HRC fuses
- ④ Terminal cover, IP20 (vertical to operator side)
- ⑤ Coupling driver with extension shaft
- ⑥ Standard products from the Siemens 3SB1 range are used as auxiliary switches.
- ⑦ Single-pole terminal cover from 63 A to 630 A, IP20 (vertical to operator side)

All components from the switch to the actuator are provided with non-interchangeability features.

Optional

- ⑧ 8UC9 knob for fixed mounting in standard version (black) or EMERGENCY-STOP version (red), or
- ⑨ 8UC7 door-coupling rotary operating mechanism in standard version (ti-grey) or EMERGENCY-STOP version (red/yellow)

All switch disconnectors feature double contact interruption and an isolating distance. As a result, the fuses of the switch disconnectors are de-energized in the OFF position. Generally, all 3K. 5 switch disconnectors can be secured on the shaft with a padlock to prevent unauthorized reclosing.

Identical accessories for 3KA switch disconnectors and for 3KL and 3KM switch disconnectors with fuses simplify stock keeping. Please inquire about a special variant with reduced values that is particularly resistant to atmospheres high in sulfur, e. g. in the paper and cellulose processing industries.

Application

3KL switch disconnectors with fuses protect against overload and short-circuits as main and EMERGENCY-STOP switches of switch boards, distribution boards, power supply and motor outgoing feeders. In conjunction with Siemens SITOR semiconductor fuses, they are also used in UPS systems, frequency converters and capacitor control systems.

All 3K switch disconnectors are climate-proof and meet the requirements of IEC 60947-1, IEC 60947-3 and VDE 0660 Part 107.

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

General data

More information

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107						
Type		3KL50	3KL52 ¹⁾	3KL53 ¹⁾	3KL55 ¹⁾	3KL57 ¹⁾	3KL61 ¹⁾	3KL62 ¹⁾
Rated uninterrupted current I_u For fuse links acc. to DIN 43620, (when SITOR semiconductor fuses are used, a reduction of rated current is necessary, see Catalog Add-On ET B1 AO · 2009)	A Size	63 00 and 000	125 00 and 000	160 00 and 000	250 1 and 2	400 1 and 2	630 3 and 2	800 3 and 2
Conventional free-air thermal current $I_{th}^{2)}$	A	63	125	160	250	400	630	800
Rated insulation voltage U_i	V	690	1000	1000	1000	1000	1000	1000
Rated impulse voltage U_{imp}	kV	6	8	8	8	8	8	8
Rated operational voltage U_e AC 50 Hz/60 Hz DC	V V	690 440 (3 conducting paths series-connected) 220 (2 conducting paths series-connected) ³⁾						
Rated short-circuit making capacity with fuses Peak value, at 50 Hz/60 Hz 690 V AC	kA	220	220	220	176	176	105	105
Rated conditional short-circuit current with fuses Rms value, at AC 50 Hz/60 Hz 690 V Max. rated current I_n of the fuses	kA A	100 80	100 160	100 160	80 400	80 400	50 630 ⁴⁾	50 800
Max. permissible power loss of the installed fuse								
• NH	W	6	9	11.5	32	45	48	62
• BS	W	8 (A2/A3)	11.5 (A4)	11.5	32	45	48	60.5
Permissible let-through current of the fuses	kA	8	17	17	30 ⁵⁾	30 ⁵⁾	50	50
Maximum permissible let-through I^2t value	kA ² s	55	223	223	1000	1000	5400	10500
Switching capacity (infeed from the top or bottom)								
At 400 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200	5100	6400
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400	630 ⁶⁾	800 ⁶⁾
• Motor switching capacity AC-23A	kW	30	65	80	132	200	335	400
At 500 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200	5100	6400
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400	630 ⁶⁾	800 ⁶⁾
• Motor switching capacity AC-23A	kW	40	90	110	185	280	425	500
At 690 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200	5100	6400
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400	630 ⁵⁾	800 ⁵⁾
• Motor switching capacity AC-23A	kW	50	110	150	220	375	560	700
At 440 V DC (3 conducting paths series-connected) ⁷⁾								
• Breaking current I_C ($L/R = 15$ ms)	A	250	500	640	1000 ⁸⁾	1600	2520 ⁹⁾	2520 ⁹⁾
• Rated operational current I_e at DC-23A	A	63	125	160	250 ¹⁰⁾	400	630 ¹⁰⁾	630 ¹⁰⁾
Rated short-time current I_{cw} (1 s current, rms value)	kA	2.5	3.2	3.2	8	11	32	32
Permissible ambient temperature	°C °C	-25 ... +55 for operation ⁴⁾ , -50 ... +80 when stored						
Mechanical endurance , operating cycles		15000	15000	15000	12000	12000	3000	3000
Degree of protection		IP00/IP20 (from the operator side, with fuse and terminal covers)						
Power loss of the switch disconnector at I_{th} (plus power loss of the fuses)	W	8.5	22	36	33	86	140	225
Main conductor connections								
Busbar systems, max. dimensions (w x t)	mm	25 x 9	45 x 10	45 x 10	40 x 12	40 x 15	40 x 17	40 x 17
Cable lug, max. conductor cross-section (stranded)	mm ²	35	70	120	150	2 x 150 or 1 x 240	2 x 240	2 x 240
Tightening torque	Nm	6 ... 7.5	7 ... 10	18 ... 22	35 ... 45	35 ... 45	56	56
Terminal screws		M6	M6	M8	M10	M10	M12	M12
Protective conductor connections								
Flat bars	mm	--	--	--	20 x 2.5	20 x 2.5	--	--
Cable lug, max. conductor cross-section (stranded)	mm ²	--	--	--	70	120	--	--

1) Technical specifications for approval on request.

2) Configuring note: Max. permissible operating temperature for fuse blades 135 °C, for connections 100 °C.

3) 110 V (one conducting path).

4) With 3KL61 for operation -25 °C ... +35 °C, at +55 °C: $I_{th} = 570$ A.

5) With 3ND1 switchgear protection fuse.

6) AC-23B

7) 220 V DC (L1 and L3 series-connected) or 110 V DC (one conducting path) at DC-23A.

8) At 440 V $L/R = 4$ ms, at 220 V $L/R = 15$ ms.9) Only DC-22A ($L/R = 2.5$ ms)

10) At 440 V DC-22A, at 220 V DC-23A.

Note:

For the 3KL switch disconnectors, complete kits for standard and EMERGENCY-STOP application are available for installation in the side and rear panels of control cabinets.

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Floor mounting

Selection and ordering data

All switch disconnectors with degree of protection IP00

Conductor connecting screws and fuse partitions are generally included in the scope of supply

Rated uninterrupted current I_U	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Size	Operational class							

A

kg

Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)

3-pole for NH fuse systems

63	00 and 000	gG, aM	B	3KL50 30-1GB01	1	1 unit	103	1.460
125	00 and 000	gG, aM	B	3KL52 30-1GB01	1	1 unit	103	2.414
160	00 and 000	gG, aM	B	3KL53 30-1GB01	1	1 unit	103	2.600
250	1 and 2	gG, aM	B	3KL55 30-1GB01	1	1 unit	103	6.112
400	2 and 1	gG, aM	B	3KL57 30-1GB01	1	1 unit	103	6.067
630	3 and 2	gG, aM	B	3KL61 30-1GB00	1	1 unit	103	18.070
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	D	3KL61 30-1GB02	1	1 unit	113	15.200
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	C	3KL62 30-1GB02	1	1 unit	113	15.200

4-pole for NH fuse systems

63	00 and 000	gG, aM	B	3KL50 40-1GB01	1	1 unit	103	2.542
125	00 and 000	gG, aM	B	3KL52 40-1GB01	1	1 unit	103	2.623
160	00 and 000	gG, aM	C	3KL53 40-1GB01	1	1 unit	103	2.776
250	1 and 2	gG, aM	B	3KL55 40-1GB01	1	1 unit	103	6.642
400	2 and 1	gG, aM	B	3KL57 40-1GB01	1	1 unit	103	6.886
630	3 and 2	gG, aM	B	3KL61 40-1GB00	1	1 unit	103	16.690

3-pole for fuses acc. to BS 88

63	Form A2/A3		B	3KL50 30-1GG01	1	1 unit	103	1.455
125	Form A2/A3		B	3KL52 30-1GG01	1	1 unit	103	2.360
125	Form A4		B	3KL52 30-1GJ01	1	1 unit	103	2.406
160	Form A4		B	3KL53 30-1GJ01	1	1 unit	103	2.575
250	Form B1-B3		B	3KL55 30-1GG01	1	1 unit	103	6.115
400	Form B1-B3		B	3KL57 30-1GG01	1	1 unit	103	6.582
630	Form C1-C3		C	3KL61 30-1GG00	1	1 unit	103	16.278
800	Form C1-C3		D	3KL62 30-1GG00	1	1 unit	113	15.400

4-pole for fuses acc. to BS 88

63	Form A2/A3		B	3KL50 40-1GG01	1	1 unit	103	2.563
125	Form A2/A3		B	3KL52 40-1GG01	1	1 unit	103	2.560
125	Form A4		B	3KL52 40-1GJ01	1	1 unit	103	2.614
160	Form A4		B	3KL53 40-1GJ01	1	1 unit	103	2.780
250	Form B1-B3		B	3KL55 40-1GG01	1	1 unit	103	6.639
400	Form B1-B3		B	3KL57 40-1GG01	1	1 unit	103	7.148
630	Form C1-C3		C	3KL61 40-1GG00	1	1 unit	103	16.996

Basic switch versions without handle

3-pole for NH fuse systems

63	00 and 000	gG, aM	▶	3KL50 30-1AB01	1	1 unit	103	1.055
125	00 and 000	gG, aM	▶	3KL52 30-1AB01	1	1 unit	103	1.989
160	00 and 000	gG, aM	▶	3KL53 30-1AB01	1	1 unit	103	2.200
250	1 and 2	gG, aM	▶	3KL55 30-1AB01	1	1 unit	103	5.715
400	2 and 1	gG, aM	▶	3KL57 30-1AB01	1	1 unit	103	5.400
630	3 and 2	gG, aM	A	3KL61 30-1AB0	1	1 unit	113	17.696
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	A	3KL61 30-1AB02	1	1 unit	113	14.000
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	A	3KL62 30-1AB02	1	1 unit	113	15.200

3KL52 30-1AB01

4-pole for NH fuse systems

63	00 and 000	gG, aM	B	3KL50 40-1AB01	1	1 unit	103	2.219
125	00 and 000	gG, aM	B	3KL52 40-1AB01	1	1 unit	103	2.195
160	00 and 000	gG, aM	B	3KL53 40-1AB01	1	1 unit	103	2.344
250	1 and 2	gG, aM	B	3KL55 40-1AB01	1	1 unit	103	5.577
400	2 and 1	gG, aM	B	3KL57 40-1AB01	1	1 unit	103	5.670
630	3 and 2	gG, aM	A	3KL61 40-1AB00	1	1 unit	113	15.423

3KL52 40-1AB01

3-pole for fuses acc. to BS 88

63	Form A2/A3		B	3KL50 30-1AG01	1	1 unit	103	0.993
125	Form A2/A3		B	3KL52 30-1AG01	1	1 unit	103	1.939
125	Form A4		B	3KL52 30-1AJ01	1	1 unit	103	2.033
160	Form A4		B	3KL53 30-1AJ01	1	1 unit	103	2.170
250	Form B1-B3		B	3KL55 30-1AG01	1	1 unit	103	5.145
400	Form B1-B3		B	3KL57 30-1AG01	1	1 unit	103	5.666
630	Form C1-C3		A	3KL61 30-1AG00	1	1 unit	113	15.075
800	Form C1-C3		C	3KL62 30-1AG00	1	1 unit	113	14.200

3KL52 30-1AJ01

Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO, signaling contact, see Catalog ET B1.

For footnotes, see page 17/41.

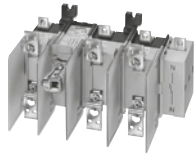
* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Floor mounting

Rated uninterrupted current I_U	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Size	Operational class							



3KL52 40-1AJ01 with fuses

4-pole for fuses acc. to BS 88									
63	Form A2/A3		B	3KL50 40-1AG01		1	1 unit	103	2.145
125	Form A2/A3		B	3KL52 40-1AG01		1	1 unit	103	2.161
125	Form A4		B	3KL52 40-1AJ01		1	1 unit	103	2.120
160	Form A4		B	3KL53 40-1AJ01		1	1 unit	103	2.230
250	Form B1-B3		B	3KL55 40-1AG01		1	1 unit	103	5.666
400	Form B1-B3		B	3KL57 40-1AG01		1	1 unit	103	6.441
630	Form C1-C3		C	3KL61 40-1AG00		1	1 unit	113	15.708

8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle



8UC71 21-3BB10

3-pole for NH fuse systems									
63	00 and 000	gG, aM	C	8UC71 21-3BB10		1	1 unit	103	0.200
125	00 and 000	gG, aM	C	8UC72 22-3BB20		1	1 unit	103	0.200
160	00 and 000	gG, aM	C	8UC72 22-3BB20		1	1 unit	103	0.200
250	1 and 2	gG, aM	C	8UC73 23-3BB30		1	1 unit	103	0.200
400	2 and 1	gG, aM	C	8UC73 23-3BB30		1	1 unit	103	0.200
630	3 and 2	gG, aM	C	8UC74 24-3BB44 + 8UC92 53		1	1 unit	103	0.200
800	3 and 2	gG, aM	C	8UC74 24-3BB44 + 8UC92 53		1	1 unit	103	0.200
						1	1 unit	103	0.115

4-pole for NH fuse systems									
63	00 and 000	gG, aM	C	8UC72 22-3BB20		1	1 unit	103	0.200
125	00 and 000	gG, aM	C	8UC72 22-3BB20		1	1 unit	103	0.200
160	00 and 000	gG, aM	C	8UC72 22-3BB20		1	1 unit	103	0.200
250	1 and 2	gG, aM	C	8UC73 23-3BB30		1	1 unit	103	0.200
400	2 and 1	gG, aM	C	8UC73 23-3BB30		1	1 unit	103	0.200
630	3 and 2	gG, aM	C	8UC74 24-3BB44 + 8UC92 53		1	1 unit	103	0.200
						1	1 unit	103	0.115

3-pole for fuses acc. to BS 88									
63	Form A2/A3		C	8UC71 21-3BB10		1	1 unit	103	0.200
125	Form A2/A3		C	8UC72 22-3BB20		1	1 unit	103	0.200
125	Form A4		C	8UC72 22-3BB20		1	1 unit	103	0.200
160	Form A4		C	8UC72 22-3BB20		1	1 unit	103	0.200
250	Form B1-B3		C	8UC73 23-3BB30		1	1 unit	103	0.200
400	Form B1-B3		C	8UC73 23-3BB30		1	1 unit	103	0.200
630	Form C1-C3		C	8UC74 24-3BB44 + 8UC92 53		1	1 unit	103	0.200
						1	1 unit	103	0.115
800	Form C1-C3		C	8UC74 24-3BB44 + 8UC92 53		1	1 unit	103	0.200
						1	1 unit	103	0.115

4-pole for fuses acc. to BS 88									
63	Form A2/A3		C	8UC72 22-3BB20		1	1 unit	103	0.200
125	Form A2/A3		C	8UC72 22-3BB20		1	1 unit	103	0.200
125	Form A4		C	8UC72 22-3BB20		1	1 unit	103	0.200
160	Form A4		C	8UC72 22-3BB20		1	1 unit	103	0.200
250	Form B1-B3		C	8UC73 23-3BB30		1	1 unit	103	0.200
400	Form B1-B3		C	8UC73 23-3BB30		1	1 unit	103	0.200
630	Form C1-C3		C	8UC74 24-3BB44 + 8UC92 53		1	1 unit	103	0.200
						1	1 unit	103	0.115

Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO signaling contact, see [Catalog ET B1](#).

Footnotes for pages 17/40 and 17/41:

- Silver-plated fuse blades. Silver-plated isolating links can be used if desired.
- For the assignment of semiconductor fuses see "Accessories".
- With SITOP 3NE fuse links us-approved.

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Front mounting

Selection and ordering data

All switch disconnectors with degree of protection IP00

Conductor connecting screws and fuse partitions are generally included in the scope of supply

Rated uninterrupted current I_U	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Size	Operational class							
A									kg

Assembly kits (IP40) comprising: lockable handle, cover for NH fuse systems (locked in ON state) and three terminal covers for infeed side for basic switch versions without handle

3-pole, assembly kits for mounting in control cabinet side panels

• Black handle

63	00	gG, aM	B	3KX3 516-3AA	1	1 unit	103	0.626
125	00	gG, aM	B	3KX3 526-3AA	1	1 unit	103	0.820
160	00	gG, aM	B	3KX3 536-3AA	1	1 unit	103	0.880
250	1 and 2	gG, aM	B	3KX3 556-3AA	1	1 unit	103	1.720
400	2 and 1	gG, aM	B	3KX3 556-3AA	1	1 unit	103	1.720

• EMERGENCY-STOP red handle

63	00	gG, aM	B	3KX3 516-3BA	1	1 unit	103	0.625
125	00	gG, aM	B	3KX3 526-3BA	1	1 unit	103	0.846
160	00	gG, aM	B	3KX3 536-3BA	1	1 unit	103	0.883
250	1 and 2	gG, aM	B	3KX3 556-3BA	1	1 unit	103	1.690
400	2 and 1	gG, aM	B	3KX3 556-3BA	1	1 unit	103	1.690

Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO signaling contact, [see Catalog ET B1](#).

¹⁾ Silver-plated fuse blades. Silver-plated isolating links can be used if desired.








²⁾ For the assignment of semiconductor fuses see "Accessories".

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3KL50 30							
 3KX3 552-3DA01		Terminal cover For 3-pole devices (1 set = 6 units)	▶	3KX3 552-3DA01	1	1 unit	103 0.077
 3KX3 5.7-3AA		Fuse covers (interlock only detachable in the OFF position)	▶	3KX3 517-3AA	1	1 unit	103 0.041
		Cover IP20 For 3-pole devices	▶	3KX3 507-0CA02	1	1 unit	103 0.400
		Fuse partitions (1 set = 5 units)	▶	3KX3 507-0AA01	1	1 unit	103 0.044
 3KX3 507-0BA01	B	Lyre-shaped fuse covers (1 set = 6 units)		3KX3 507-0BA01	1	1 unit	103 0.033
	C	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC71 11-1BB10	1	1 unit	103 0.200
	C	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC71 21-3BB10	1	1 unit	103 0.200
		Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3 516-1AA	1	1 unit	103 0.088
	B	Extension shaft 300 mm long		8UC60 31	1	1 unit	103 0.068
	B	Extension shaft 600 mm long		8UC60 81	1	1 unit	103 0.136
	B	Shaft connecting pieces		8UC60 21	1	1 unit	103 0.031
 3SB14 00-0A	C	Auxiliary switches 1 NO + 1 NC		3SB14 00-0A	1	1 unit	102 0.020
	C	2 NO		3SB14 00-0G	1	1 unit	102 0.020
	D	2 NC		3SB14 00-0H	1	1 unit	102 0.020
	B	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA	1	1 unit	103 0.014
3KL50 40/3KL52/3KL53							
 3KX3 552-3DA01		Terminal covers For 3-pole devices (1 set = 6 units)	▶	3KX3 552-3DA01	1	1 unit	103 0.077
		• 3KL52	▶	3KX3 553-3DA01	1	1 unit	103 0.147
		• 3KL53	▶	3KX3 553-3DA01	1	1 unit	103 0.147
	B	For 4-pole devices (1 set = 8 units) • 3KL50 40, 3KL52		3KX3 552-3DB01	1	1 unit	103 0.102
	B	• 3KL53		3KX3 553-3DB01	1	1 unit	103 0.170
 3KX3 5.7-3AA		Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶	3KX3 527-3AA	1	1 unit	103 0.071
		Cover IP20 For 3KL52 3-pole devices	▶	3KX3 527-0CA02	1	1 unit	103 0.765
		Cover IP20 For 3KL53 3-pole devices	▶	3KX3 537-0CA02	1	1 unit	103 0.765
		Fuse partitions (1 set = 5 units)	▶	3KX3 507-0AA01	1	1 unit	103 0.044
 3KX3 507-0BA01	B	Lyre-shaped fuse covers (1 set = 6 units)		3KX3 507-0BA01	1	1 unit	103 0.033

¹⁾ For 3KX3 527-3AA: Not suitable for use with type A4 BS fuses.

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Door-coupling rotary operating mechanisms IP65							
Black handle, shaft 300 mm	C	8UC72 12-1BB20		1	1 unit	103	0.200
EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC72 22-3BB20		1	1 unit	103	0.200
Operating mechanisms for fixed mounting							
Black handle, shaft 250 mm	▶	3KX3 536-1AA		1	1 unit	103	0.155
Extension shaft 300 mm long							
	B	8UC60 32		1	1 unit	103	0.132
Extension shaft 600 mm long							
	B	8UC60 82		1	1 unit	103	0.265
Shaft connecting pieces							
	B	8UC60 22		1	1 unit	103	0.023
Auxiliary switches							
1 NO + 1 NC	C	3SB14 00-0A		1	1 unit	102	0.020
20 ms leading, 1 NO + 1 NC	B	3KX3 552-3EA01		1	1 unit	103	0.019
2 NO	C	3SB14 00-0G		1	1 unit	102	0.020
2 NC	D	3SB14 00-0H		1	1 unit	102	0.020
Fuse monitor connections							
(1 set = 6 units)	B	3KX3 505-0AA		1	1 unit	103	0.014
3KL55/3KL57							
Terminal cover							
For 3-pole devices (1set = 6 units)	▶	3KX3 557-3DA01		1	1 unit	103	0.277
For 4-pole devices (1set = 8 units)	B	3KX3 557-3DB01		1	1 unit	103	0.362
Fuse covers							
(interlock only detachable in the OFF position)	▶	3KX3 557-3AA		1	1 unit	103	0.212
Cover IP20							
For 3-pole devices	▶	3KX3 557-0CA02		1	1 unit	103	1.235
Fuse partitions							
(1 set = 5 units)	▶	3KX3 557-0AA01		1	1 unit	103	0.162
Door-coupling rotary operating mechanisms IP65							
Black handle, shaft 300 mm	C	8UC73 13-1BB30		1	1 unit	103	0.200
EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC73 23-3BB30		1	1 unit	103	0.200
Operating mechanisms for fixed mounting, size 3							
Black handle, shaft 250 mm	▶	3KX3 176-1E		1	1 unit	103	0.285
Extension shaft 300 mm long							
	C	8UC60 33		1	1 unit	103	0.217
Extension shaft 600 mm long							
	B	8UC60 83		1	1 unit	103	0.430
Shaft connecting pieces							
	B	8UC60 23		1	1 unit	103	0.085
Auxiliary switches							
1 NO + 1 NC	C	3SB14 00-0A		1	1 unit	102	0.020
20 ms leading, 1 NO + 1 NC	B	3KX3 552-3EA01		1	1 unit	103	0.019
2 NO	C	3SB14 00-0G		1	1 unit	102	0.020
2 NC	D	3SB14 00-0H		1	1 unit	102	0.020
Fuse monitor connections							
(1 set = 6 units)	B	3KX3 505-0AA		1	1 unit	103	0.014



3SB14 00-0A



3KX3 5.7-3AA



3KX3 176-1E



3SB14 00-0A

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3KL61/3KL62							
Terminal cover For 3-pole devices (1 set = 6 units) For 4-pole devices (1 set = 8 units)	▶ B	3KX3 561-3DA01 3KX3 561-3DB01		1 1	1 unit 1 unit	103 103	0.263 0.365
Fuse covers Cover plate	A	3KX3 561-0AA00		1	1 unit	113	0.408
Complete covers ¹⁾	A	3KX3 561-1AA00		1	1 unit	113	0.408
Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	C	8UC74 14-1BB44 +		1	1 unit	103	0.200
	▶	8UC92 53		1	1 unit	103	0.115
EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC74 24-3BB44 +		1	1 unit	103	0.200
	▶	8UC92 53		1	1 unit	103	0.115
Operating mechanisms for fixed mounting, size 5 Black handle, shaft 250 mm	▶	3KX3 616-1A		1	1 unit	103	0.490
Extension shaft 300 mm long	B	8UC60 34		1	1 unit	103	0.315
Extension shaft 600 mm long	B	8UC60 84		1	1 unit	103	0.640
Shaft connecting pieces	B	8UC60 24		1	1 unit	103	0.077
Auxiliary switches 1 NO + 1 NC	C	3KX3 612-1B		1	1 unit	113	0.201
2 NO	B	3SB34 00-0D		1	1 unit	102	0.018
2 NC	B	3SB34 00-0E		1	1 unit	102	0.018



8UC92 53

¹⁾ Only for NH fuse systems.

SITOR fuses for 3KL and KM fuse switch disconnectors: Assignment table

for switch disconnectors			SITOR fuses				DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type 3KL (Type 3KM)	Permissible load current ¹⁾	Required conductor cross-section Cu	Size	Operational class	Rated current	Rated voltage							
A		mm ²			A	V							kg
SITOR 3NE1 fuses for 3KL5, 3KL6 and 3 KM5													
3KL50 30	16	1.5	000 ¹⁾	gR/gS	16	690	▶	3NE1 813-0		1	3 units	047	0.127
(3KM50 30)	20	2.5	000 ¹⁾	gR/gS	20	690	▶	3NE1 814-0		1	3 units	047	0.128
	25	4	000 ¹⁾	gR/gS	25	690	▶	3NE1 815-0		1	3 units	047	0.127
	35	6	000 ¹⁾	gR/gS	35	690	▶	3NE1 803-0		1	3 units	047	0.128
	40	10	000 ¹⁾	gR/gS	40	690	▶	3NE1 802-0		1	3 units	047	0.127
	50	10	000 ¹⁾	gR/gS	50	690	▶	3NE1 817-0		1	3 units	047	0.128
	63	16	000 ¹⁾	gR/gS	63	690	▶	3NE1 818-0		1	3 units	047	0.128
3KL52 30	80	25	000 ¹⁾	gR/gS	80	690	▶	3NE1 820-0		1	3 units	047	0.129
(3KM52 30)	100	35	00	gR/gS	100	690	▶	3NE1 021-0		1	3 units	047	0.202
	125	50	00	gR/gS	125	690	▶	3NE1 022-0		1	3 units	047	0.202
	125	50	00	gR	125	690	A	3NE1 022-2		1	3 units	047	0.203
3KL55 30	160	70	1	gR/gS	160	690	▶	3NE1 224-0		1	3 units	047	0.580
(3KM55 30)	160	70	1	gR	160	690	A	3NE1 224-2		1	3 units	047	0.613
	200	95	1	gR/gS	200	690	▶	3NE1 225-0		1	3 units	047	0.582
	200	95	1	gR	200	690	A	3NE1 225-2		1	3 units	047	0.612
	250	120	1	gR/gS	250	690	▶	3NE1 227-0		1	3 units	047	0.580
	245	120	1	gR	250	690	A	3NE1 227-2		1	3 units	047	0.626
3KL57 30	315	2 × 70	1	gR/gS	315	690	A	3NE1 230-0		1	3 units	047	0.581
(3KM57 30)	280	2 × 70	1	gR	315	690	A	3NE1 230-2		1	3 units	047	0.615
3KL57	350 (330) ²⁾	2 × 95	2	gR/gS	350	690	▶	3NE1 331-0		1	3 units	047	0.766
3KL61 30	350 (300) ²⁾	2 × 95	2	gR	400	690	A	3NE1 331-2		1	3 units	047	0.754
(3KM57 30)	400 (375) ²⁾	2 × 95	2	gR/gS	400	690	▶	3NE1 332-0		1	3 units	047	0.743
3KL61 30	450 (400) ²⁾	2 × 120	2	gR/gS	450	690	A	3NE1 333-0		1	3 units	047	0.760
(3KM57 30)	450 (325) ²⁾	2 × 120	2	gR	450	690	A	3NE1 333-2		1	3 units	047	0.768
	500 (400) ²⁾	2 × 120	2	gR/gS	500	690	A	3NE1 334-0		1	3 units	047	0.766
	500 (350) ²⁾	2 × 120	2	gR	500	690	A	3NE1 334-2		1	3 units	047	0.768

¹⁾ Permissible load current in the switch disconnector.
In the case of cyclic loads, the currents may have to be reduced again (precise values on request).

²⁾ Values in blue in brackets apply to 3KM switch disconnectors.

Switch Disconnectors with Fuses

SENTRON 3KL Switch Disconnectors with Fuses up to 800 A

Accessories

For switch disconnectors		SITOR fuses					DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type 3KL (Type 3KM)	Permissible load current ¹⁾	Required conductor cross-section Cu	Size	Operational class	Rated current	Rated voltage							
A		mm ²			A	V						kg	
3KL61 30 (3KL62)	630 (710) ³⁾	2 x (40 x 5)	3	gR/gS	710	690	A	3NE1 437-0		1	3 units	047	1.117
	630 (710) ³⁾	2 x (40 x 5)	3	gR	710	600	D	3NE1 437-1		1	3 units	047	1.120
	630 (700) ³⁾	2 x (40 x 5)	3	gR	710	690	B	3NE1 437-2		1	3 units	047	1.153
	630 (800) ³⁾	2 x (50 x 5)	3	gR/gS	800	690		3NE1 438-0		1	3 units	047	1.124
	630 (800) ³⁾	2 x (50 x 5)	3	gR	800	600	A	3NE1 438-1		1	3 units	047	1.113
	630 (760) ³⁾	2 x (50 x 5)	3	gR	800	690	A	3NE1 438-2		1	3 units	047	1.184
3KL61 30 (3KL62)	630 (670) ³⁾	2 x (40 x 5)	3	gR	670	690	A	3NE1 447-2		1	3 units	047	1.170
	630 (790) ³⁾	2 x (40 x 8)	3	gR	850	690	A	3NE1 448-2		1	3 units	047	1.207
SITOR fuses 3NE3 ... 3NE8, 3NC2 for 3KL5, 3KL6 and 3KM5													
3KL50 (3KM50)	25	4	00	gR	25	690	▶	3NE8 015-1		1	3 units	047	0.205
	33	6	00	gR	35	690	▶	3NE8 003-1		1	3 units	047	0.204
	45	10	00	gR	50	690	▶	3NE8 017-1		1	3 units	047	0.203
	54	16	00	gR	63	690	▶	3NE8 018-1		1	3 units	047	0.205
3KL52 (3KM52)	68	25	00	aR	80	690	▶	3NE8 020-1		1	3 units	047	0.203
	89	35	00	aR	100	690	▶	3NE8 021-1		1	3 units	047	0.205
	106	50	00	aR	125	690	▶	3NE8 022-1		1	3 units	047	0.213
	130	70	00	aR	160	690	▶	3NE8 024-1		1	3 units	047	0.207
3KL55 ²⁾ (3KM55) ²⁾	32	6	0	gR	32	1000	▶	3NE4 101		1	3 units	047	0.278
	40	10	0	gR	40	1000	▶	3NE4 102		1	3 units	047	0.277
	50	10	0	gR	50	1000	▶	3NE4 117		1	3 units	047	0.276
	63	16	0	gR	63	1000	▶	3NE4 118		1	3 units	047	0.279
	80	25	0	aR	80	1000	▶	3NE4 120		1	3 units	047	0.276
	95	35	0	aR	100	1000	▶	3NE4 121		1	3 units	047	0.278
	120	50	0	aR	125	1000	▶	3NE4 122		1	3 units	047	0.279
	150	70	0	aR	160	1000	▶	3NE4 124		1	3 units	047	0.279
	90	35	1	aR	100	1000	A	3NE3 221		1	3 units	047	0.580
	110	50	1	aR	125	1000	A	3NE3 222		1	3 units	047	0.568
	140	70	1	aR	160	1000	A	3NE3 224		1	3 units	047	0.573
	175	95	1	aR	200	1000	A	3NE3 225		1	3 units	047	0.570
210	120	1	aR	250	1000	A	3NE3 227		1	3 units	047	0.580	
3KL57 (3KM57)	240	185	1	aR	315	1000	▶	3NE3 230-0B		1	3 units	047	0.585
	265	240	1	aR	350	1000	A	3NE3 231		1	3 units	047	0.590
	290	240	1	aR	400	1000	A	3NE3 232-0B		1	3 units	047	0.576
	320	2 x 150	1	aR	450	1000	A	3NE3 233		1	3 units	047	0.720
3KL61 (3KL62) (3KM57)	340 (360) ³⁾ (290) ⁴⁾	240	2	aR	400	1000	A	3NE3 332-0B		1	3 units	047	0.759
	380 (400) ³⁾ (320) ⁴⁾	2 x 150	2	aR	450	1000	A	3NE3 333		1	3 units	047	0.748
	440 (470) ³⁾ (360) ⁴⁾	2 x 150	2	aR	500	1000	▶	3NE3 334-0B		1	3 units	047	0.753
	500 (530) ³⁾ (400) ⁴⁾	2 x 185	2	aR	560	1000	▶	3NE3 335		1	3 units	047	0.756
	540 (580) ³⁾ (400) ⁴⁾	2 x 185	2	aR	630	1000	▶	3NE3 336		1	3 units	047	0.760
	600 (640) ³⁾ (400) ⁴⁾	2 x 200	2	aR	710	900	▶	3NE3 337-8		1	3 units	047	0.762
	630 (720) ³⁾ (400) ⁴⁾	2 x 200	2	aR	800	800	▶	3NE3 338-8		1	3 units	047	0.764
	630 (800) ³⁾ (400) ⁴⁾	2 x 200	2	aR	900	690	▶	3NE3 340-8		1	3 units	047	0.753
	200 (200) ³⁾ (175) ⁴⁾	120	2	aR	250	800	▶	3NE4 327-0B		1	3 units	047	0.753
	260 (260) ³⁾ (230) ⁴⁾	240	2	aR	315	800	▶	3NE4 330-0B		1	3 units	047	0.760
	370 (370) ³⁾ (340) ⁴⁾	2 x (30 x 5)	2	aR	450	800	▶	3NE4 333-0B		1	3 units	047	0.760
	425 (450) ³⁾ (380) ⁴⁾	2 x (30 x 5)	2	aR	500	800	▶	3NE4 334-0B		1	3 units	047	0.754
600 (630) ³⁾ (400) ⁴⁾	2 x (40 x 5)	2	aR	710	800	▶	3NE4 337		1	3 units	047	0.771	
3KL61 (3KL62)	145 (150) ³⁾	70	3	gR	150	500	B	3NC2 423-3C		1	3 units	047	0.940
	180 (190) ³⁾	95	3	gR	200	500	B	3NC2 425-3		1	3 units	047	1.057
	225 (240) ³⁾	120	3	gR	250	500	B	3NC2 427-3		1	3 units	047	1.066
	255 (270) ³⁾	185	3	gR	300	500	B	3NC2 428-3		1	3 units	047	1.078
	330 (345) ³⁾	240	3	gR	350	500	B	3NC2 431-3C		1	3 units	047	0.940
	400 (400) ³⁾	240	3	gR	400	500	B	3NC2 432-3C		1	3 units	047	0.940
	135 (140) ³⁾	70	3	gR	150	660	B	3NC8 423-3		1	3 units	047	1.062
	180 (190) ³⁾	95	3	gR	200	660	B	3NC8 425-3		1	3 units	047	1.063
	225 (240) ³⁾	120	3	gR	250	660	B	3NC8 427-3		1	3 units	047	1.069
	300 (315) ³⁾	240	3	gR	350	660	B	3NC8 431-3		1	3 units	047	1.072
	425 (450) ³⁾	2 x 150	3	gR	500	660	B	3NC8 434-3		1	3 units	047	1.069
	630 (800) ³⁾	2 x (60 x 6)	3	aR	1000	600	C	3NC8 444-3		1	3 units	047	1.085

¹⁾ Permissible load current in the switch disconnector.
In the case of cyclic loads, the currents may have to be reduced again (precise values on request).

²⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE41 fuses should be switchable only occasionally and only at zero current.

³⁾ Values in black in brackets apply to 3KL62 switch disconnectors.

⁴⁾ Values in blue in brackets apply to 3KM switch disconnectors.

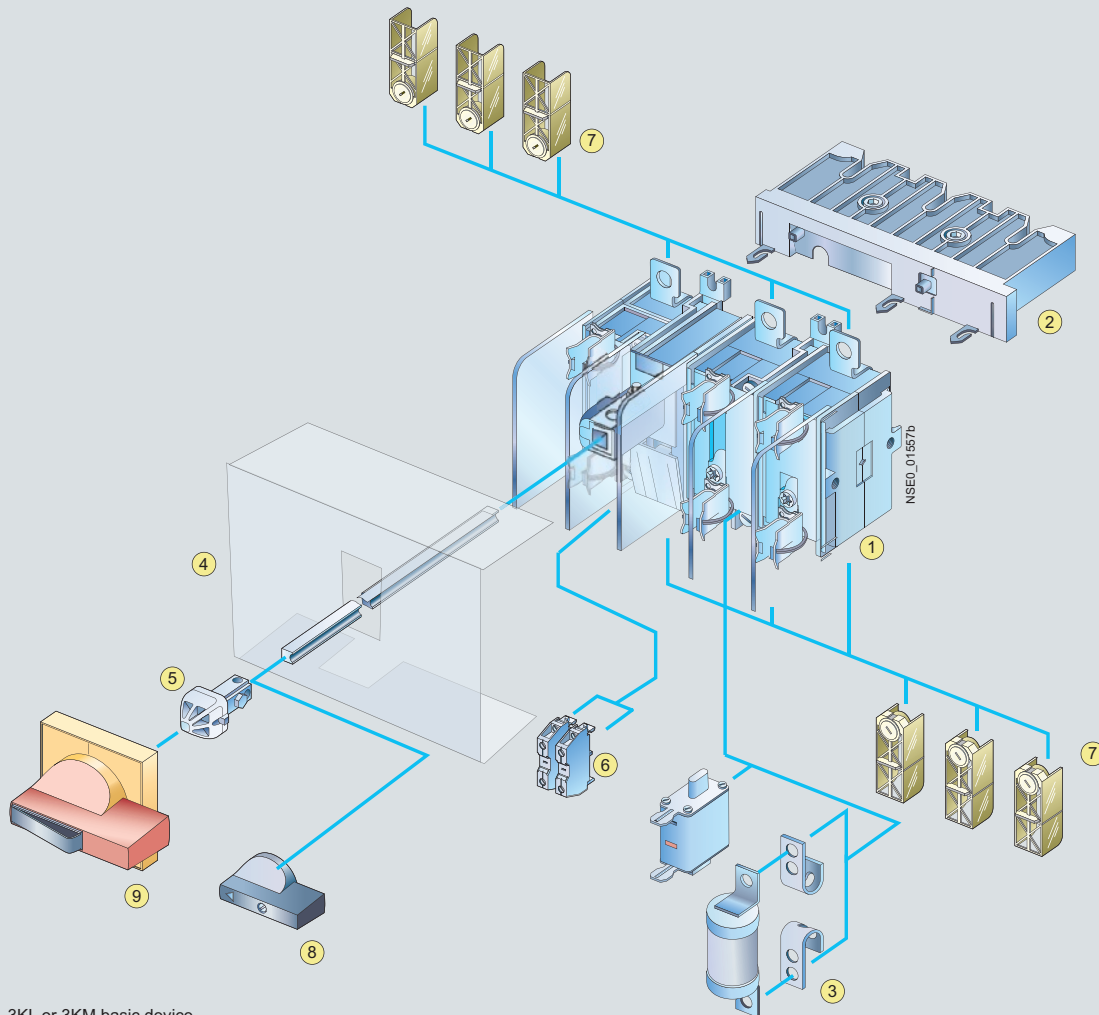
For technical specifications and dimensional drawings of the SITOR fuses see [Catalog ET B1](#).

Switch Disconnectors with Fuses

SENTRON 3KM Switch Disconnectors with Fuses and Isolating Plug Connector up to 400 A

General data

Overview



- ① 3KL or 3KM basic device
- ② Plug-in contact strip for 3KM
- ③ Fuses, optionally BS-88 or LV HRC fuses
- ④ Terminal cover, IP20 (vertical to operator side)
- ⑤ Coupling driver with extension shaft
- ⑥ Standard products from the Siemens 3SB1 range are used as auxiliary switches.
- ⑦ Single-pole terminal cover from 63 A to 630 A, IP20 (vertical to operator side)

All components from the switch to the actuator are provided with non-interchangeability features.

Optional

- ⑧ 8UC9 knob for fixed mounting in standard version (black) or EMERGENCY-STOP version (red), or
- ⑨ 8UC7 door-coupling rotary operating mechanism in standard version (ti-grey) or EMERGENCY-STOP version (red/yellow)

All switch disconnectors feature double contact interruption and an isolating distance. As a result, the fuses are de-energized when the switch disconnectors are in the disconnected position.

The 3KM switch disconnectors with fuses also feature an isolating plug connector. This facilitates mounting and contact establishment in motor control centers (MCCs) in conjunction with vertical busbars. Generally, all 3K. 5 switch disconnectors can be

secured on the shaft with a padlock to prevent unauthorized re-closing.

Identical accessories for 3KA switch disconnectors and for 3KL and 3KM switch disconnectors with fuses simplify stock keeping.

Please inquire about a special variant with reduced values that is particularly resistant to atmospheres high in sulfur, e. g. in the paper and cellulose processing industries.

Application

3KM switch disconnectors with fuses protect against overload and short-circuits as main and EMERGENCY-STOP switches of switch boards, distribution boards, power supply and motor outgoing feeders. In conjunction with Siemens SITOR semiconductor fuses, they are also used in UPS systems, frequency converters and capacitor control systems.

All 3K switch disconnectors are climate-proof and meet the requirements of IEC 60947-1, IEC 60947-3 and VDE 0660 Part 107.

Switch Disconnectors with Fuses

SENTRON 3KM Switch Disconnectors with Fuses and Isolating Plug Connector up to 400 A

General data

More information

Standards	IEC 60947-1, IEC 60947-3, VDE 0660 Part 107					
	Type	3KM50	3KM52	3KM53	3KM55	3KM57
Rated uninterrupted current I_U For fuse links acc. to DIN 43620, (when SITOR semiconductor fuse links are used, a reduction of rated current is necessary, see Catalog Add-On ET B1 AO · 2009)	A Size	63 00 and 000	125 00 and 000	160 00 and 000	250 1 and 2	400 1 and 2
Conventional free-air thermal current $I_{th}^{1)}$	A	63	125	160	250	400
Rated insulation voltage U_i	V	690	1000	1000	1000	1000
Rated impulse voltage U_{imp}	kV	6	8	8	8	8
Rated operational voltage U_e						
AC 50 Hz/60 Hz	V	690				
DC	V	440 (3 conducting paths series-connected)				
	V	220 (2 conducting paths series-connected) ²⁾				
Rated short-circuit making capacity with fuses (peak value, at 50 Hz/60 Hz 690 V AC)	kA	220	220	220	176	176
Rated conditional short-circuit current with fuses (rms value, at 50 Hz/60 Hz 690 V AC)	kA	100	100	100	80	80
Max. rated current I_n of the fuses	A	80	160	160	400	400
Max. permissible power loss of the installed fuse						
• NH	W	6	9	11.5	32	45
• BS	W	8 (A2/A3)	11.5 (A4)	11.5	32	45
Permissible let-through current of the fuses	kA	8	17	17	30 ³⁾	30 ³⁾
Maximum permissible let-through I^2t value	kA ² s	55	223	223	1000	1000
Switching capacity (infeed from the top or bottom)						
At 400 V AC						
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	30	65	80	132	200
At 500 V AC						
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	40	90	110	185	280
At 690 V AC						
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	50	110	150	220	375
At 440 V DC (3 conducting paths series-connected) ⁴⁾						
• Breaking current I_C ($L/R = 15$ ms)	A	250	500	640	1000 ⁴⁾	1600
• Rated operational current I_e at DC-23A	A	63	125	160	250 ⁵⁾	400
Rated short-time current (1 s current), rms value	kA	2.5	3.2	3.2	8	11
Permissible ambient temperature	°C	-25 ... +55 for operation ⁶⁾				
	°C	-50 ... +80 when stored				
Mechanical endurance, operating cycles		15000	15000	15000	12000	12000
Degree of protection		IP00/IP20 (from the operator side, with fuse and terminal covers)				
Power loss of the switch disconnector at I_{th} (plus power loss of the fuses)	W	8.5	22	36	33	86
Main conductor connections						
Busbars, max. dimensions (w × t)	mm	25 × 9	45 × 10	45 × 10	40 × 12	40 × 15
Cable lug, max. conductor cross-section (stranded)	mm ²	35	70	120	150	2 × 150 or 1 × 240
Busbars, max. dimensions (w × t)	mm	25 × 9	45 × 10	45 × 10	40 × 12	40 × 15
Tightening torque	Nm	6 ... 7.5	7 ... 10	18 ... 22	35 ... 45	35 ... 45
Terminal screws	M6	M6	M6	M8	M10	M10
Protective conductor connections						
Flat bars	mm	--	--	--	20 × 2.5	20 × 2.5
Cable lug, max. conductor cross-section (stranded)	mm ²	--	--	--	70	120

1) Configuring note: Max. permissible operating temperature for fuse blades 135 °C, for connections 100 °C.

2) 110 V (one conducting path).

3) 220 V DC (L1 and L3 series-connected) or 110 V DC (one conducting path) at DC-23A.

4) At 440 V $L/R = 4$ ms, at 220 V $L/R = 15$ ms.

5) At 440 V DC-22A, at 220 V DC-23A.

6) 3ND1 switchgear protection fuse.

Switch Disconnectors with Fuses

SENTRON 3KM Switch Disconnectors with Fuses and Isolating Plug Connector up to 400 A

For snapping onto busbars

Selection and ordering data

All switch disconnectors with degree of protection IP00

Mounting on vertical busbars with busbar center-to-center spacing of 60 mm and bar thickness from 5 mm to 6.35 mm
Conductor connecting screws and fuse partitions are generally included in the scope of supply.

Rated uninterrupted current I_U	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Size	Operational class							
A									kg

8UC7 complete versions with door-coupling rotary operating mechanisms

3-pole for NH fuse systems

- (black handle)

63	00 and 000	gG, aM	B	3KM50 30-1GB01	1	1 unit	103	1.890
125	00 and 000	gG, aM	B	3KM52 30-1GB01	1	1 unit	103	2.860
160	00 and 000	gG, aM	B	3KM53 30-1GB01	1	1 unit	103	2.935
250	1 and 2	gG, aM	B	3KM55 30-1GB01	1	1 unit	103	5.670
400	2 and 1	gG, aM	B	3KM57 30-1GB01	1	1 unit	103	6.938

3-pole for fuses acc. to BS 88

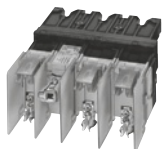
- Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)

125	Form A2/A3		C	3KM52 30-1GG01	1	1 unit	103	2.785
125	Form A4		C	3KM52 30-1GJ01	1	1 unit	103	2.340
160	Form A4		C	3KM53 30-1GJ01	1	1 unit	103	2.926
250	Form B1-B3		C	3KM55 30-1GG01	1	1 unit	103	6.651
400	Form B1-B3		C	3KM57 30-1GG01	1	1 unit	103	7.175

Basic switch versions without handle

3-pole for NH fuse systems

63	00 and 000	gG, aM	B	3KM50 30-1AB01	1	1 unit	103	1.515
125	00 and 000	gG, aM	B	3KM52 30-1AB01	1	1 unit	103	2.450
160	00 and 000	gG, aM	C	3KM53 30-1AB01	1	1 unit	103	2.516
250	1 and 2	gG, aM	B	3KM55 30-1AB01	1	1 unit	103	5.698
400	2 and 1	gG, aM	B	3KM57 30-1AB01	1	1 unit	103	5.966



3KM53 30-1AB01
with fuses

3-pole for fuses acc. to BS 88

63	Form A2/A3		C	3KM50 30-1AG01	1	1 unit	103	1.450
125	Form A2/A3		C	3KM52 30-1AG01	1	1 unit	103	2.405
125	Form A4		C	3KM52 30-1AJ01	1	1 unit	103	2.430
160	Form A4		C	3KM53 30-1AJ01	1	1 unit	103	2.520
250	Form B1-B3		C	3KM55 30-1AG01	1	1 unit	103	5.689
400	Form B1-B3		C	3KM57 30-1AG01	1	1 unit	103	6.250



3KM55 30-1AG01
with fuses

8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle

63	00 and 000	gG, aM	C	8UC71 21-3BB10	1	1 unit	103	0.200
125	00 and 000	gG, aM	C	8UC72 22-3BB20	1	1 unit	103	0.200
160	00 and 000	gG, aM	C	8UC72 22-3BB20	1	1 unit	103	0.200
250	1 and 2	gG, aM	C	8UC73 23-3BB30	1	1 unit	103	0.200
400	2 and 1	gG, aM	C	8UC73 23-3BB30	1	1 unit	103	0.200



8UC71 21-3BB10

- 8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate)

63	Form A2/A3		C	8UC71 21-3BB10	1	1 unit	103	0.200
125	Form A2/A3		C	8UC72 22-3BB20	1	1 unit	103	0.200
125	Form A4		C	8UC72 22-3BB20	1	1 unit	103	0.200
160	Form A4		C	8UC72 22-3BB20	1	1 unit	103	0.200
250	Form B1-B3		C	8UC73 23-3BB30	1	1 unit	103	0.200
400	Form B1-B3		C	8UC73 23-3BB30	1	1 unit	103	0.200

Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO signaling contact, see [Catalog ET B1](#).

- 1) Silver-plated fuse blades. Silver-plated isolating links can be used if desired.
- 2) For the assignment of semiconductor fuses see "3KL Switch Disconnectors with Fuses up to 800 A" --> "Accessories".






* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SENTRON 3KM Switch Disconnectors with Fuses and Isolating Plug Connector up to 400 A

Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
3KM50								
		Terminal cover For 3-pole devices (1 set = 6 units)	▶	3KX3 552-3DA01	1	1 unit	103	0.077
		Fuse covers (interlock only detachable in the OFF position)	▶	3KX3 517-3AA	1	1 unit	103	0.041
3KX3 5.7-3AA		Fuse partitions (1 set = 5 units)	▶	3KX3 507-0AA01	1	1 unit	103	0.044
	B	Lyre-shaped fuse covers (1 set = 6 units)		3KX3 507-0BA01	1	1 unit	103	0.033
3KX3 507-0BA01		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	C	8UC71 11-1BB10	1	1 unit	103	0.200
		EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC71 21-3BB10	1	1 unit	103	0.200
		Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3 516-1AA	1	1 unit	103	0.088
	B	Extension shaft 300 mm long		8UC60 31	1	1 unit	103	0.068
	B	Extension shaft 600 mm long		8UC60 81	1	1 unit	103	0.136
	B	Shaft connecting pieces		8UC60 21	1	1 unit	103	0.031
		Auxiliary switches 1 NO + 1 NC	C	3SB14 00-0A	1	1 unit	102	0.020
		2 NO	C	3SB14 00-0G	1	1 unit	102	0.020
		2 NC	D	3SB14 00-0H	1	1 unit	102	0.020
3SB14 00-0A	B	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA	1	1 unit	103	0.014
3KM52/3KM53								
		Terminal cover For 3-pole devices (1 set = 6 units)	3KM52 ▶	3KX3 552-3DA01	1	1 unit	103	0.077
			3KM53 ▶	3KX3 553-3DA01	1	1 unit	103	0.147
		For 4-pole devices (1 set = 8 units)	3KM52 B	3KX3 552-3DB01	1	1 unit	103	0.102
			3KM53 B	3KX3 553-3DB01	1	1 unit	103	0.170
		Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶	3KX3 527-3AA	1	1 unit	103	0.071
3KX3 5.7-3AA		Fuse partitions (1 set = 5 units)	▶	3KX3 507-0AA01	1	1 unit	103	0.044
	B	Lyre-shaped fuse covers (1 set = 6 units)		3KX3 507-0BA01	1	1 unit	103	0.033
3KX3 507-0BA01		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	C	8UC72 12-1BB20	1	1 unit	103	0.200
		EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC72 22-3BB20	1	1 unit	103	0.200
		Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3 536-1AA	1	1 unit	103	0.155

¹⁾ For 3KX3 527-3AA: Not suitable for use with type A4 BS fuses.

Switch Disconnectors with Fuses

SENTRON 3KM Switch Disconnectors with Fuses and Isolating Plug Connector up to 400 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3KM52/3KM53 (continued)							
Extension shaft 300 mm long	B	8UC60 32		1	1 unit	103	0.132
Extension shaft 600 mm long	B	8UC60 82		1	1 unit	103	0.265
Shaft connecting pieces	B	8UC60 22		1	1 unit	103	0.023
Auxiliary switches							
1 NO + 1 NC	C	3SB14 00-0A		1	1 unit	102	0.020
20 ms leading, 1 NO + 1 NC	B	3KX3 552-3EA01		1	1 unit	103	0.019
2 NO	C	3SB14 00-0G		1	1 unit	102	0.020
2 NC	D	3SB14 00-0H		1	1 unit	102	0.020
Fuse monitor connections (1 set = 6 units)	B	3KX3 505-0AA		1	1 unit	103	0.014
3KM55/3KM57							
Terminal cover							
For 3-pole devices (1 set = 6 units)	▶	3KX3 557-3DA01		1	1 unit	103	0.277
For 4-pole devices (1 set = 8 units)	B	3KX3 557-3DB01		1	1 unit	103	0.362
Fuse covers (interlock only detachable in the OFF position)	▶	3KX3 557-3AA		1	1 unit	103	0.212
Fuse partitions (1 set = 5 units)	▶	3KX3 557-0AA01		1	1 unit	103	0.162
Door-coupling rotary operating mechanisms IP65							
Black handle, shaft 300 mm	C	8UC73 13-1BB30		1	1 unit	103	0.200
EMERGENCY-STOP (yellow/red), shaft 300 mm	C	8UC73 23-3BB30		1	1 unit	103	0.200
Operating mechanisms for fixed mounting, size 3	▶	3KX3 176-1E		1	1 unit	103	0.285
Black handle, shaft 250 mm							
Extension shaft 300 mm long	C	8UC60 33		1	1 unit	103	0.217
Extension shaft 600 mm long	B	8UC60 83		1	1 unit	103	0.430
Shaft connecting pieces	B	8UC60 23		1	1 unit	103	0.085
Auxiliary switches							
1 NO + 1 NC	C	3SB14 00-0A		1	1 unit	102	0.020
20 ms leading, 1 NO + 1 NC	B	3KX3 552-3EA01		1	1 unit	103	0.019
2 NO	C	3SB14 00-0G		1	1 unit	102	0.020
2 NC	D	3SB14 00-0H		1	1 unit	102	0.020
Fuse monitor connections (1 set = 6 units)	B	3KX3 505-0AA		1	1 unit	103	0.014



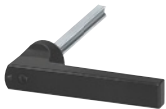
3SB14 00-0A



3KX3 5.7-3AA



3KX3 557-0AA01



3KX3 176-1E



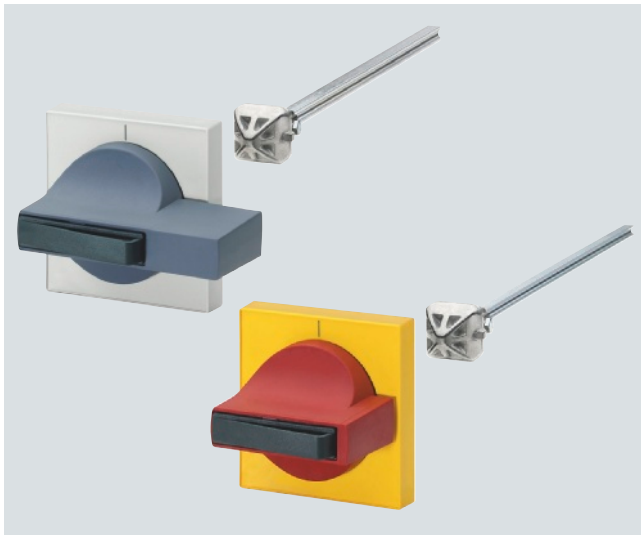
3SB14 00-0A

Switch Disconnectors with Fuses

8UC Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Overview



8UC7 rotary operating mechanism in STANDARD version (left) and EMERGENCY-STOP version (right)

With door-coupling rotary operating mechanisms it is also possible to operate switch disconnectors from the outside with the control cabinet doors closed

The rotary operating mechanisms are available in "STANDARD" and "EMERGENCY-STOP" versions with the following differences:

- STANDARD version: Masking plates in light-gray with black inscription, handles in ti-grey.
- EMERGENCY-STOP version: Masking plates in yellow with black inscription, handles in red.

Available sizes

Rotary operating mechanisms	Size	Rated torque ¹⁾ Nm	Shaft profile mm x mm	Masking plate mm x mm
8UC71	1	4	6 x 6	75 x 75
8UC72	2	9	8 x 8	75 x 75
8UC73	3	25	10 x 10 or 12 x 12	100 x 100
8UC74	4	40/55 ²⁾	12 x 12	100 x 100

¹⁾ Operating mechanisms tested with triple torque (according to EN 60947-3). They are therefore also suitable for applications in this area.

²⁾ Operation with two hands.

Degree of protection

Degree of protection when installed is IP65.

Standards

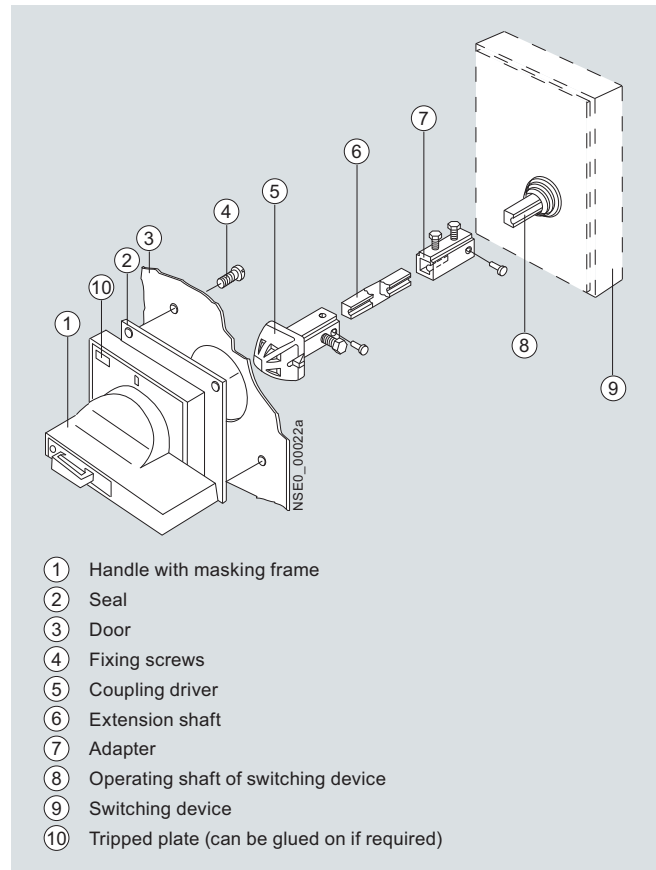
8UC7 door-coupling rotary operating mechanisms are in line with for example the following standards:

IEC 60204-1, EN 60204-1 (VDE 0113 Part 1)	Electrical equipment of machines
IEC 60439-1, EN 60439-1 (VDE 0660 Part 500)	Low-voltage switchgear and controlgear assemblies
IEC 60947-3, EN 60947-3 (VDE 0660 Part 107)	Low-voltage switchgear and controlgear; load-break switches, disconnectors, switch disconnectors and fuse-combination units

Design

The rotary operating mechanisms consist of a masking plate with handle, including seal and fixing screws for door installation, an extension shaft (300 mm) and a coupling driver to be mounted onto the switch shaft.

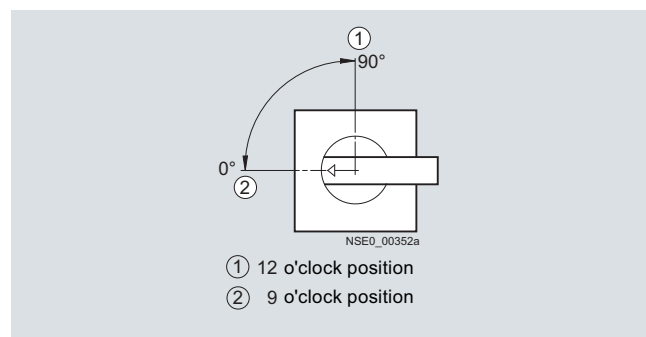
Operating mechanisms for 3KA / 3KL / 3KM switch disconnectors do not have a shaft coupling since the extension shaft is fitted directly into the switch. Extension shafts with a length of 600 mm are also available.



Design, schematic representation

Switch position

In order to ensure compliance with locking and interlocking conditions, the controls and operating mechanisms must be installed such that, with two-position switches the "0" position lies at 9 o'clock and the "I" position at 12 o'clock.



Positions for two-position switches with 90° operating angle

Switch Disconnectors with Fuses

8UC Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Benefits

Can be locked

The retractable locking device integrated in the handles is suitable for padlocks with shackle diameters of 4.5 mm to 8.5 mm (locks according to DIN 7465).

Up to three padlocks with a shackle diameter of 8.5 mm and up to five padlocks with a shackle diameter of 6 mm can be fitted simultaneously.

Non-interchangeability

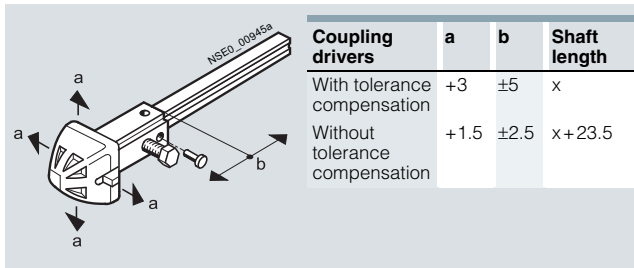
In order to ensure that, when installing switches and door-coupling operating mechanisms, all components are assembled in the correct position with respect to one another, the components are provided with non-interchangeability features (rivel and lug).

Stops

Stops are used to prevent damage occurring as the result of excessive torque. These stops are supplied loose with the rotary operating mechanisms and can be fitted as required. Stops are fitted at the factory to size 1 and 2 rotary operating mechanisms with a 90° operating angle (exception: 3RV motor starter protectors).

Tolerance compensation

8UC7 rotary operating mechanisms are capable of taking up a radial eccentricity of max. 3 mm between the actuating shaft of the switching device and the door-coupling rotary operating mechanism. Supporting the extension shaft is recommended with greater tolerances.



Permissible radial eccentricity and axial tolerance compensation in mm

Pull-out strength

The pull-out strength of interlocked operating mechanisms, e. g. pulling off the shaft or destruction of the operating mechanism, amounts to 800 N when the pulling force acts directly onto the operating mechanism in direction of shaft.

Application

8UC7 door-coupling rotary operating mechanisms can be used in electrical controls, distribution boards and switchboards in cases where switches have to be mounted behind covers, end plates and doors that must be opened and where they are to be operated manually from outside.

Interlocking conditions

The basic versions of the rotary operating mechanisms comply with the following interlocking conditions:

- Operating mechanism and switch in "0" (OFF) position: The control cabinet door can be opened. With padlocks fitted, the control cabinet door remains locked however.
- Operating mechanism and switch in "I" (ON) position: The control cabinet door cannot be opened in this position. However, the interlock can be overridden and the control cabinet door opened by trained personnel for performing checks. No padlocks can be fitted in "I" position.

Other interlocking conditions:

- If no door interlock is required, the user can remove the door interlocking plate of the rotary operating mechanism.
- It is easy for the user to fit padlocks to the rotary operating mechanisms in the "I" position as well. In this case the door cannot be opened, the operating mechanism cannot be actuated and the door interlock cannot be overridden.

Operating conditions and ambient conditions

The temperature range for operation of the rotary operating mechanisms is between -25 °C and +60 °C.

Thanks to the use of glass fiber-reinforced molded plastic for handles and masking plates as well as metal components with surface protection, the rotary operating mechanisms are suitable for rough conditions, high air humidity and aggressive atmospheres.

Switch Disconnectors with Fuses

8UC Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Selection and ordering data

Door-coupling rotary operating mechanisms, fully lockable with padlocks, with door interlock supplied with seal and fixing screws

Switching device	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
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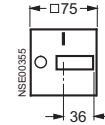
Type	A	mm	Nm	Size
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8UC71



For switch disconnectors with or without fuses

3KL50 ¹⁾ , 3KM50 ¹⁾	63	6 x 6	3	1
3KA50 ¹⁾	63	6 x 6	3	
3KA51 ¹⁾	80	6 x 6	3	

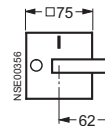


8UC72



For switch disconnectors with or without fuses

3KL52, 3KM52	125	8 x 8	7.5	2
3KL53, 3KM53	160	8 x 8	7.5	
3KA52	125	8 x 8	7.5	
3KA53	160	8 x 8	7.5	

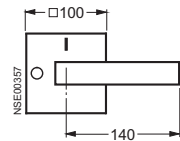


8UC73



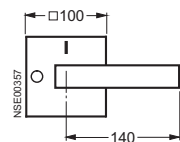
For switch disconnectors with or without fuses

3KL55, 3KM55	250	10 x 10	16	3
3KL57, 3KM57	400	10 x 10	16	
3KA55	250	10 x 10	16	
3KA57	400	10 x 10	16	
3KA58	630	10 x 10	16	

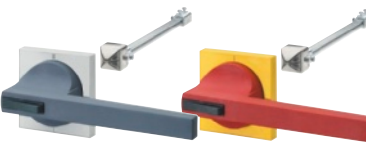


For switch disconnectors without fuses

3KE42	250	12 x 12	15	3
3KE43	400	12 x 12	15	
3KE44	630	12 x 12	24	
3KE45	1000	12 x 12	24	

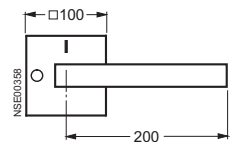


8UC74



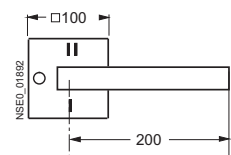
For switch disconnectors with fuses

3KL61 ²⁾	630	12 x 12	30	4
3KL62 ²⁾	800	12 x 12	30	



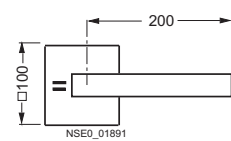
For switch disconnectors as changeover switches with break-before-make feature

3KE42 (2 units)	250	12 x 12	20	4
3KE43 (2 units)	400	12 x 12	20	
3KE44 (2 units)	630	12 x 12	30	
3KE45 (2 units)	1000	12 x 12	30	



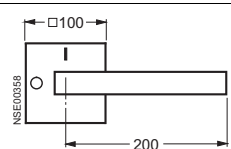
For switch disconnectors as changeover switches without break-before-make feature

3KE42 (2 units)	250	12 x 12	40	4
3KE43 (2 units)	400	12 x 12	40	
3KE44 (2 units)	630	12 x 12	55	
3KE45 (2 units)	1000	12 x 12	55	



For switch disconnectors as changeover switches without break-before-make feature

3KE42 (2 units)	250	12 x 12	40	4
3KE43 (2 units)	400	12 x 12	40	
3KE44 (2 units)	630	12 x 12	55	
3KE45 (2 units)	1000	12 x 12	55	



¹⁾ Valid only for 3-pole switching devices. For 4-pole switching devices, an operating mechanism with 8 x 8 mm actuating shaft must be used, see [lower level for 3KA52, 3KL52 or 3KM52](#).

²⁾ Additionally required for 3KL61: 1 shaft coupling, Order No. 8UC92 53, see ["Individual Parts", table on page 17/56](#).

³⁾ The door interlocking plate must be removed.

⁴⁾ With shortened 8UC60 16/8UC60 17 coupling driver and reduced tolerance compensation, see ["Dimensional Drawings"](#).

Switch Disconnectors with Fuses

8UC Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Version	DT	Rotary operating mechanisms, complete		PU (UNIT, SET, M)	PS*	PG	Individual parts				
							Weight per PU approx. kg	Handle with masking plate Order No.	Coupling drivers Order No.	Extension shaft Length 300 mm Order No.	Shaft couplings Order No.
		Order No.	Price per PU					□ 6 mm	□ 6 mm	□ 6 mm by 6 mm	
Standard	C	8UC71 11-1BB10		1	1 unit	103	0.200	8UC71 10-1BB	8UC60 11	8UC60 31	Not required
Standard ⁴⁾	C	8UC71 61-1BB10		1	1 unit	103	0.200	8UC71 10-1BB	8UC60 16	8UC60 31	Not required
EMER- GENCY- STOP	C	8UC71 21-3BB10		1	1 unit	103	0.200	8UC71 20-3BB	8UC60 11	8UC60 31	Not required
Standard	C	8UC72 12-1BB20		1	1 unit	103	0.200	8UC72 10-1BB	8UC60 12	8UC60 32	Not required
Standard ⁴⁾	C	8UC72 62-1BB20		1	1 unit	103	0.200	8UC72 10-1BB	8UC60 17	8UC60 32	Not required
EMER- GENCY- STOP	C	8UC72 22-3BB20		1	1 unit	103	0.200	8UC72 20-3BB	8UC60 12	8UC60 32	Not required
Standard	C	8UC73 13-1BB30		1	1 unit	103	0.200	8UC73 10-1BB	8UC60 13	8UC60 33	Not required
EMER- GENCY- STOP	C	8UC73 23-3BB30		1	1 unit	103	0.200	8UC73 20-3BB	8UC60 13	8UC60 33	Not required
Standard	C	8UC73 14-1BB44		1	1 unit	103	0.200	8UC73 10-1BB	8UC60 14	8UC60 34	8UC60 24
EMER- GENCY- STOP	C	8UC73 24-3BB44		1	1 unit	103	0.200	8UC73 20-3BB	8UC60 14	8UC60 34	8UC60 24
Standard	C	8UC74 14-1BB44		1	1 unit	103	0.200	8UC74 10-1BB	8UC60 14	8UC60 34	8UC60 24
EMER- GENCY- STOP	C	8UC74 24-3BB44		1	1 unit	103	0.200	8UC74 20-3BB	8UC60 14	8UC60 34	8UC60 24
Standard	C	8UC74 14-1BF44		1	1 unit	103	0.200	8UC74 10-1BF	8UC60 14	8UC60 34	8UC60 24
Standard	C	8UC74 14-1FG44		1	1 unit	103	0.200	8UC74 10-1FG	8UC60 14	8UC60 34	8UC60 24
Standard	C	8UC74 14-1BB44		1	1 unit	103	0.200	8UC74 10-1BB	8UC60 14	8UC60 34	8UC60 24





* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

8UC Door-Coupling Rotary Operating Mechanisms

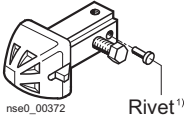
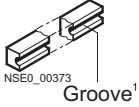

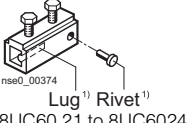
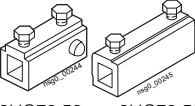
Individual parts

Selection and ordering data

Switching device	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ⁴⁾	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
						Order No.	Price per PU				
Type	Type	mm × mm									kg
 8UC71 10-1BB	3KL50, 3KM50, 3KA50, 3KA51	8UC71	1	6 × 6	Standard	C	8UC71 10-1BB	1	1 unit	103	0.200
						C	8UC71 20-3BB	1	1 unit	103	0.200
 8UC72 10-6BD	3KL52, 3KM52, 3KL53, 3KM53, 3KA52, 3KA53	8UC72	2	8 × 8	Standard	C	8UC72 10-1BB	1	1 unit	103	0.200
						C	8UC72 20-3BB	1	1 unit	103	0.200
 8UC73 10-1BB	3KL55, 3KM55, 3KL57, 3KM57, 3KA55, 3KA57, 3KE42, 3KE43, 3KE44, 3KE45	8UC73	3	10 × 10 or 12 × 12	Standard	C	8UC73 10-1BB	1	1 unit	103	0.200
						C	8UC73 20-3BB	1	1 unit	103	0.200
 8UC74 10-1BB	3KL61, 3KL62, 3KE42, 3KE43, 3KE44, 3KE45	8UC74	4	12 × 12	Standard	C	8UC74 10-1BB	1	1 unit	103	0.200
						C	8UC74 20-3BB	1	1 unit	103	0.200
						C	8UC74 10-1BF	1	1 unit	103	0.200
						C	8UC74 10-1FG	1	1 unit	103	0.200
						C	8UC74 10-1BB	1	1 unit	103	0.200

Rotary operating mechanisms	Cross-section of the actuating shaft	DT	Individual parts for 8UC6 door-coupling rotary operating mechanisms		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	mm × mm		Order No.	Price per PU				kg

Coupling drivers, extension shafts, shaft couplings and reducers

Coupling drivers for 3K											
 8UC60 11	8UC71	6 × 6	B	8UC60 11	1	1 unit	103	0.078			
	8UC71 ²⁾	6 × 6	A	8UC60 16	1	1 unit	103	0.070			
	8UC72	8 × 8	B	8UC60 12	1	1 unit	103	0.075			
	8UC72 ²⁾	8 × 8	A	8UC60 17	1	1 unit	103	0.043			
	8UC73	10 × 10	B	8UC60 13	1	1 unit	103	0.251			
	8UC73/74	12 × 12	B	8UC60 14	1	1 unit	103	0.253			
Extension shafts 300 mm long											
 8UC60 31 ... 34	8UC71	6 × 6	B	8UC60 31	1	1 unit	103	0.068			
	8UC72	8 × 8	B	8UC60 32	1	1 unit	103	0.132			
	8UC73	10 × 10	C	8UC60 33	1	1 unit	103	0.217			
	8UC73/74	12 × 12	B	8UC60 34	1	1 unit	103	0.315			
	Extension shafts 600 mm long										
 8UC60 81 ... 84	8UC71	6 × 6	B	8UC60 81	1	1 unit	103	0.136			
	8UC72	8 × 8	B	8UC60 82	1	1 unit	103	0.265			
	8UC73	10 × 10	B	8UC60 83	1	1 unit	103	0.430			
	8UC73/74	12 × 12	B	8UC60 84	1	1 unit	103	0.640			
	Shaft couplings										
 8UC60 21 to 8UC6024	8UC71	6 × 6	B	8UC60 21	1	1 unit	103	0.031			
	8UC72	8 × 8	B	8UC60 22	1	1 unit	103	0.023			
	8UC73	10 × 10	B	8UC60 23	1	1 unit	103	0.085			
	8UC73/74	12 × 12	B	8UC60 24	1	1 unit	103	0.077			
	8UC74 (3KL61)	12 × 12	▶	8UC92 53	1	1 unit	103	0.115			
	Reducers										
 8UC70 58 8UC70 50	8UC71	8 × 8 to 6 × 6	C	8UC70 58	1	1 unit	103	0.200			
	8UC72	12 × 12 to 8 × 8	C	8UC70 50	1	1 unit	103	0.200			

¹⁾ Non-interchangeability features.

²⁾ Shortened coupling driver with reduced tolerance compensation.

³⁾ For switch disconnectors as changeover switches in various versions, see table on page 17/54

⁴⁾ Standard: Ti-grey handle, light-gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate.






* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

8UC Door-Coupling Rotary Operating Mechanisms

Operating mechanisms for fixed mounting

Selection and ordering data

	Switching device	Cross-section of the actuating shaft	Torque of the operating mechanism ¹⁾	Operating mechanism	Color of handle	DT	Operating mechanisms for fixed mounting		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.					
							Order No.	Price per PU									
	Type	mm × mm	Nm	Size								kg					
 8UC93 54	3KA50, 3KA51, 3KL50, 3KM50	6 × 6	4	1	Black	²⁾ B	8UC93 54		1	1 unit	103	0.031					
			7.5	2	Black	²⁾ B			1	1 unit	103	0.047					
 8UC93 60	3KA52 3KA53, 3KL52, 3KM52, 3KL53, 3KM53	8 × 8	7.5	2	Black	B	8UC93 62		1	1 unit	103	0.041					
					Red	B							8UC93 63	1	1 unit	103	0.044
 8UC93 65	3KL55, 3KM55, 3KL57, 3KM57	10 × 10	16	3	Black	B	8UC93 65		1	1 unit	103	0.138					
					Red	B							8UC93 66	1	1 unit	103	0.160
 8UC93 74	3KE42, 3KE43	12 × 12	16	3	Black	³⁾ B	8UC93 70		1	1 unit	103	0.128					
					Red	³⁾ B							8UC93 71	1	1 unit	103	0.146
					Black	³⁾ B							8UC93 74	1	1 unit	103	0.145
Red	³⁾ B	8UC93 75	1	1 unit	103	0.165											
 8UC93 81	3KL61	12 × 12	55	5	Black	B	8UC93 81		1	1 unit	103	0.264					
					Red	B							8UC93 82	1	1 unit	103	0.273

¹⁾ Operating mechanisms were tested with triple torque (DIN VDE 0660 Part 107). They are therefore qualified for use in all controls, especially for disconnectors.

²⁾ Red handle available on request.

³⁾ Also required: 3KX2 210-0H coupling socket.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses

General data

Overview

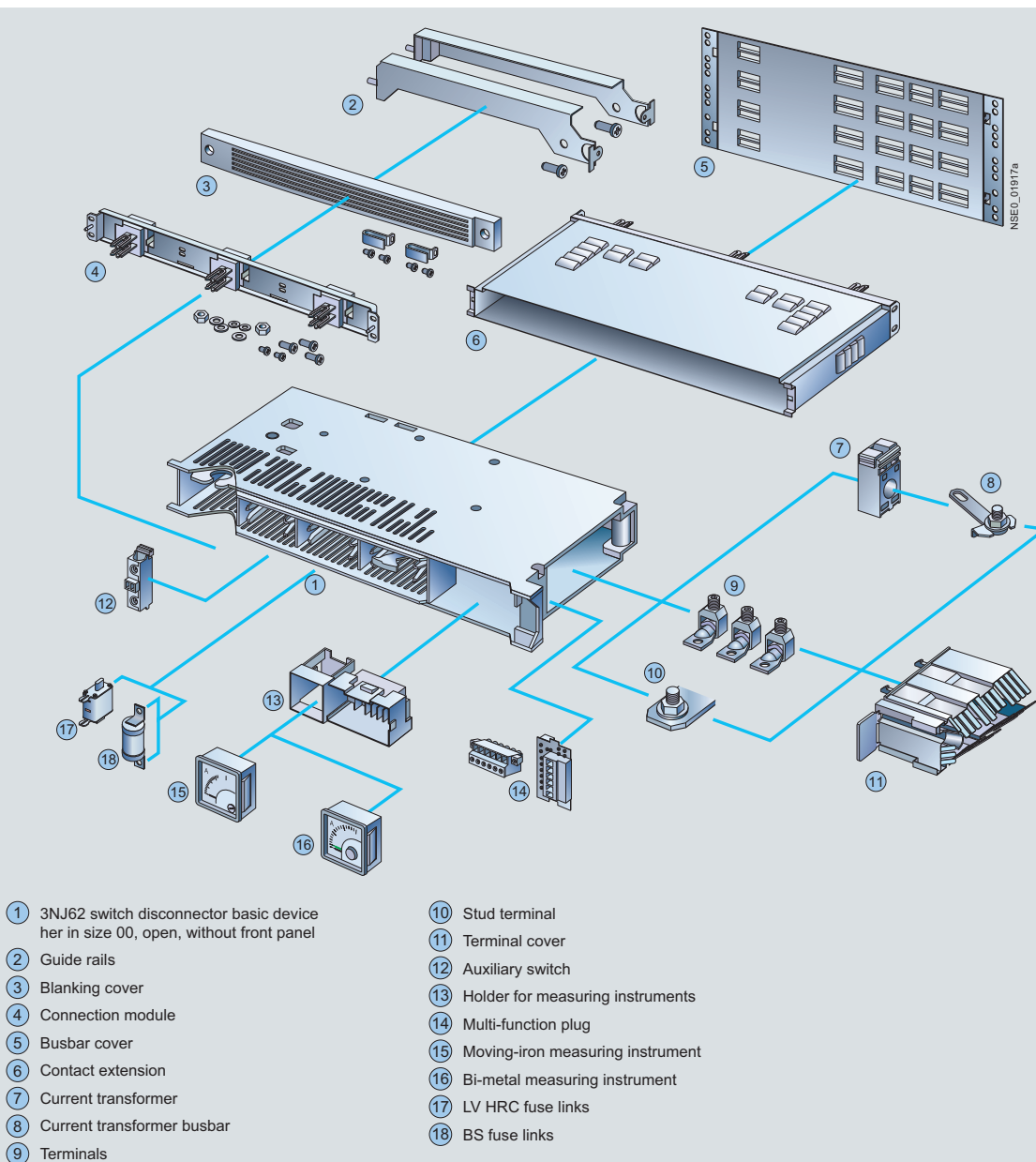


3NJ62 Switch Disconnectors with Fuses

All key product features at a glance

- In-line
- Type-tested according to IEC EN 60947-3
- Voltage levels up to 690 V AC
- 160 A to 630 A for LV HRC and BS 88 fuse links, according to IEC 60269-1/EN 60269-1
- 3-/4-pole versions available
- 185 mm phase center distance of plug-in contacts
- Manually operated or with motorized operating mechanism
- Electronic fuse monitoring (EFM)
- Developed for switchgears in plug-in design
- Horizontal or vertical mounting position
- Front panel locked in ON position
- Degree of protection IP41

Overview of components and accessory parts



Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
General data

Benefits

Key advantages for switchgear manufacturers due to the following:

- Compact, modular design
- Simple and efficient mounting due to incoming plug-in contact
- High packing density in the field
- Cable connection with cable clamps or cable lugs
- Can be mounted in different control cabinet depths
- Comprehensive range of accessories

The advantages for users are:

- Conversion, retrofitting and replacement without switching off the switchgear
- Dead-state fuse replacement
- Maintenance free
- High personal safety
- Operating handle can be locked in OFF position
- Clear and unambiguous switch position indicator

Application

The plug-in 3NJ6 switch disconnectors with fuses are installed in low-voltage distribution boards where a minimum amount of space is available for a maximum number of cable ducts to the power distribution. They can be easily fitted in all common control cabinets (minimum depth: 400 mm).

The plug-in 3NJ62 switch disconnectors with fuses are available for rated uninterrupted currents from 160 A to 630 A.

LV HRC fuse links according to IEC 60269-1/EN 60269-1 (sizes NH 00 to NH 3) or BS fuse links according to BS 88 provide overload and short-circuit protection up to 690 V AC.

The switch disconnectors can be retrofitted at any time with auxiliary switches, an ammeter (48 mm x 48 mm) and current transformers, with no extra space required. For installation in control cabinets of > 400 mm depth, the mounting depth of the disconnectors can be increased by 200 mm using a contact extension. Further installation accessories, such as guide rails and blanking covers, complete the product range.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses

General data

More information

Standards		EN / IEC 60947-3														
Size		Size 00				Size 1		Size 2		Size 3						
Type 3NJ62 ...-																
With LV HRC fuse links		--		...03-1 ...04-1 ...04-2	...03-3 ...03-4	...13-1 ...14-1 ...14-2	...13-3 ...13-4	...23-1 ...24-1 ...24-2	...23-3 ...23-4	...33-1 ...34-1 ...34-2	...33-3 ...33-4					
With BS fuse links		...43-3	...53-3	...64-1 ...63-3 ...63-4	...74-1 ...74-2	...73-3 ...73-4	...84-1 ...84-2	...83-3 ...83-4	...94-1 ...94-2	...93-3 ...93-4						
Switching capacity		H	H	S	H	S	H	S	H	S	H					
Rated insulation voltage U_i V		1000														
Rated peak withstand voltage U_{imp} V		8000														
For LV HRC fuse links acc. to IEC 60269		--		00 and 000		1		2 and 1		3 and 2						
For BS fuse links acc. to BS 88		A3		00T ¹⁾		B2		B4		3T ¹⁾						
Rated operational current I_e For fuse links acc. to IEC 60269/BS 88		A	63	100	160	125	160	125	250	250	400	400	630	500	630	500
Rated operational voltage U_e At 50/60 Hz rated frequency		V AC	690	690	500	690	500	690	690	690	690	690	500	690	500	690
Utilization categories		AC-23B	AC-23B	AC-22B	AC-23B	AC-22B	AC-23B	AC-22B	AC-23B	AC-22B	AC-23B					
Rated conditional short-circuit current																
Short-circuit strength, rms value		kA	100	100	100	100	100	100	100	100	100					
Short-circuit making capacity, rms value		kA	66	66	55	66	55	66	55	66	55	66				
Rated making capacity																
p.f. = 0.65		A	--	--	480	375	--	--	750	--	1200	--	1890	1500	--	--
p.f. = 0.45		A	630	1000	--	--	--	--	--	--	--	--	--	--	--	--
p.f. = 0.35		A	--	--	--	--	1600	1250	--	2500	--	4000	--	--	6300	5000
Rated breaking capacity																
p.f. = 0.65		A	--	--	480	375	--	--	750	--	1200	--	1890	1500	--	--
p.f. = 0.45		A	504	800	--	--	--	--	--	--	--	--	--	--	--	--
p.f. = 0.35		A	--	--	--	--	1280	1000	--	2000	--	3200	--	--	5040	4000
Endurance																
Operating cycles total		2000		1600		1600		1000		1000						
Operating cycles electrical at 690 V, p.f. = 0.65		300		200		200		200		200						
Power loss																
Without fuse links		W	7	17	43		78		158		357					
Permissible ambient temperature °C		-5 ... +55														
Permissible mounting positions		Horizontal and vertical with bottom connection														
Degree of protection (in operating state)		IP41														
Main conductor connections																
Cable lug connection conductor cross-section																
Al/Cu, solid or stranded		mm ²	1 x (10 ... 95)		1 x (10 ... 95)		1 x (25 ... 240)		1 x (25 ... 300)		1 x (25 ... 300)					
Acc. to DIN 46235 (Cu) and DIN 46239 (Al)		mm ²	2 x (16 ... 70)		2 x (16 ... 70)		1 x (25 ... 70)		2 x (25 ... 240)		2 x (25 ... 240)					
Screw size		M8		M8		M12		2 x M12		2 x M12						
Torque		Nm	15		15		30		30		30					
Terminal connection																
(Al/Cu), rm		mm ²	1 x (10 ... 50)		1 x (10 ... 50)		1 x (16 ... 185)		2 x (16 ... 185)		2 x (16 ... 185)					
(Al/Cu), re		mm ²	1 x (10 ... 50)		1 x (10 ... 50)		1 x (16 ... 150)		2 x (16 ... 150)		2 x (16 ... 150)					
(Al/Cu), sm		mm ²	1 x (16 ... 95)		1 x (16 ... 95)		1 x (16 ... 240)		2 x (16 ... 240)		2 x (16 ... 240)					
(Al/Cu), se		mm ²	1 x (16 ... 95)		1 x (16 ... 95)		1 x (35 ... 300)		2 x (35 ... 300)		2 x (35 ... 300)					
Torque		Nm	15		15		25		25		25					
Motorized operating mechanisms																
Control supply voltage		V DC	24 ±2													
Power consumption		A	1.1		1.3		2.8									
Signal duration		s	min. 0.5 or continuous signal													
Auxiliary switches																
Rated insulation voltage U_i		V	690													
Rated peak withstand voltage U_{imp}		V	8000													
Rated operational current I_e																
At AC-15, $U_e = 120$ V		A	8													
At AC-15, $U_e = 230$ V		A	6													
At AC-15, $U_e = 400$ V		A	4													
At AC-15, $U_e = 690$ V		A	2													

¹⁾ The fuse is available from Lawson fuses (UK) and does not correspond to BS 88.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC fuse links

Selection and ordering data

Rated current I_n	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A								kg
3-pole, standard switching capacity S								
<i>Manually operated</i>								
160	00/000	A	3NJ62 03-1AA0□-□□□□		1	1 unit	143	3.630
250	1	A	3NJ62 13-1AA0□-□□□□		1	1 unit	143	6.750
400	2/1	A	3NJ62 23-1AA0□-□□□□		1	1 unit	143	15.000
630	3/2	A	3NJ62 33-1AA0□-□□□□		1	1 unit	143	15.360
3-pole, high switching capacity H								
<i>Manually operated</i>								
160	00/000	A	3NJ62 03-3AA0□-□□□□		1	1 unit	143	3.630
250	1	A	3NJ62 13-3AA0□-□□□□		1	1 unit	143	6.750
400	2/1	A	3NJ62 23-3AA0□-□□□□		1	1 unit	143	15.000
630	3/2	A	3NJ62 33-3AA0□-□□□□		1	1 unit	143	15.360
<i>Manually operated, EFM</i>								
160	00/000	A	3NJ62 03-3AV0□-□□□□		1	1 unit	143	3.630
250	1	A	3NJ62 13-3AV0□-□□□□		1	1 unit	143	6.750
400	2/1	A	3NJ62 23-3AV0□-□□□□		1	1 unit	143	15.000
630	3/2	A	3NJ62 33-3AV0□-□□□□		1	1 unit	143	15.360
<i>Motorized operating mechanisms</i>								
160	00/000	C	3NJ62 03-4AA0□-□□□□		1	1 unit	143	3.630
250	1	C	3NJ62 13-4AA0□-□□□□		1	1 unit	143	6.750
400	2/1	C	3NJ62 23-4AA0□-□□□□		1	1 unit	143	15.000
630	3/2	C	3NJ62 33-4AA0□-□□□□		1	1 unit	143	15.360
<i>Motorized operating mechanism, EFM</i>								
160	00/000	C	3NJ62 03-4AV0□-□□□□		1	1 unit	143	3.630
250	1	C	3NJ62 13-4AV0□-□□□□		1	1 unit	143	6.750
400	2/1	C	3NJ62 23-4AV0□-□□□□		1	1 unit	143	15.000
630	3/2	C	3NJ62 33-4AV0□-□□□□		1	1 unit	143	15.360
4-pole, standard switching capacity S								
<i>Manually operated</i>								
160	00/000	A	3NJ62 04-1AA0□-□□□□		1	1 unit	143	6.160
250	1	A	3NJ62 14-1AA0□-□□□□		1	1 unit	143	10.380
400	2/1	A	3NJ62 24-1AA0□-□□□□		1	1 unit	143	18.900
630	3/2	A	3NJ62 34-1AA0□-□□□□		1	1 unit	143	20.000
<i>Manually operated, EFM</i>								
160	00/000	C	3NJ62 04-1AV0□-□□□□		1	1 unit	143	6.160
250	1	C	3NJ62 14-1AV0□-□□□□		1	1 unit	143	10.380
400	2/1	C	3NJ62 24-1AV0□-□□□□		1	1 unit	143	18.900
630	3/2	C	3NJ62 34-1AV0□-□□□□		1	1 unit	143	20.000
<i>Motorized operating mechanisms</i>								
160	00/000	C	3NJ62 04-2AA0□-□□□□		1	1 unit	143	6.160
250	1	C	3NJ62 14-2AA0□-□□□□		1	1 unit	143	10.380
400	2/1	C	3NJ62 24-2AA0□-□□□□		1	1 unit	143	18.900
630	3/2	C	3NJ62 34-2AA0□-□□□□		1	1 unit	143	20.000
<i>Motorized operating mechanism, EFM</i>								
160	00/000	C	3NJ62 04-2AV0□-□□□□		1	1 unit	143	6.160
250	1	C	3NJ62 14-2AV0□-□□□□		1	1 unit	143	10.380
400	2/1	C	3NJ62 24-2AV0□-□□□□		1	1 unit	143	18.900
630	3/2	C	3NJ62 34-2AV0□-□□□□		1	1 unit	143	20.000
				Order No. supplement	Add. price			
				0 0AA0	None			
Standard Order No. supplement (more Order No. supplements on page 17/63 onwards)								
Without auxiliary switches, ammeters, current transformers								

* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for BS fuse links

Selection and ordering data

Rated current I_n A	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3-pole, high switching capacity H								
<i>Manually operated</i>								
63	A3	C	3NJ62 43-3AA0 □-□□□□		1	1 unit	143	3.630
100	A3	C	3NJ62 53-3AA0 □-□□□□		1	1 unit	143	3.630
160	00T ¹⁾	C	3NJ62 63-3AA0 □-□□□□		1	1 unit	143	3.630
250	B2	C	3NJ62 73-3AA0 □-□□□□		1	1 unit	143	6.750
400	B4	C	3NJ62 83-3AA0 □-□□□□		1	1 unit	143	15.000
630	3T ¹⁾	C	3NJ62 93-3AA0 □-□□□□		1	1 unit	143	15.360
<i>Manually operated, EFM</i>								
160	00T ¹⁾	C	3NJ62 63-3AV0 □-□□□□		1	1 unit	143	3.630
250	B2	C	3NJ62 73-3AV0 □-□□□□		1	1 unit	143	6.750
400	B4	C	3NJ62 83-3AV0 □-□□□□		1	1 unit	143	15.000
630	3T ¹⁾	C	3NJ62 93-3AV0 □-□□□□		1	1 unit	143	15.360
<i>Motorized operating mechanisms</i>								
160	00T ¹⁾	C	3NJ62 63-4AA0 □-□□□□		1	1 unit	143	3.630
250	B2	C	3NJ62 73-4AA0 □-□□□□		1	1 unit	143	6.750
400	B4	C	3NJ62 83-4AA0 □-□□□□		1	1 unit	143	15.000
630	3T ¹⁾	C	3NJ62 93-4AA0 □-□□□□		1	1 unit	143	15.360
4-pole, standard switching capacity S								
<i>Manually operated</i>								
160	00T ¹⁾	C	3NJ62 64-1AA0 □-□□□□		1	1 unit	143	6.160
250	B2	C	3NJ62 74-1AA0 □-□□□□		1	1 unit	143	10.380
400	B4	C	3NJ62 84-1AA0 □-□□□□		1	1 unit	143	18.900
630	3T ¹⁾	C	3NJ62 94-1AA0 □-□□□□		1	1 unit	143	20.000
<i>Manually operated, EFM</i>								
160	00T ¹⁾	C	3NJ62 64-1AV0 □-□□□□		1	1 unit	143	6.160
250	B2	C	3NJ62 74-1AV0 □-□□□□		1	1 unit	143	10.380
400	B4	C	3NJ62 84-1AV0 □-□□□□		1	1 unit	143	18.900
630	3T ¹⁾	C	3NJ62 94-1AV0 □-□□□□		1	1 unit	143	20.000
<i>Motorized operating mechanisms</i>								
160	00T ¹⁾	C	3NJ62 64-2AA0 □-□□□□		1	1 unit	143	6.160
250	B2	C	3NJ62 74-2AA0 □-□□□□		1	1 unit	143	10.380
400	B4	C	3NJ62 84-2AA0 □-□□□□		1	1 unit	143	18.900
630	3T ¹⁾	C	3NJ62 94-2AA0 □-□□□□		1	1 unit	143	20.000
				Order No. supplement	Add. price			
				0 0AA0	None			

Standard Order No. supplement
(more Order No. supplements on page 17/63 onwards)

Without auxiliary switches, ammeters, current transformers ▶



None

¹⁾ The fuse is available from Lawson fuses (UK) and does not correspond to BS 88.

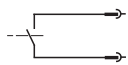
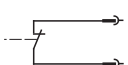
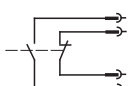
Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses for LV HRC and BS fuse links

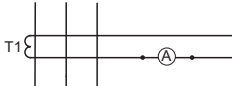
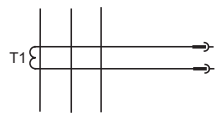
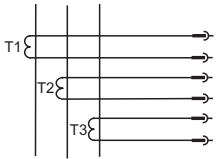
Options

1. Order No. supplement:
Auxiliary switch wired to multi-function plug

		DT	Order No. supplement 3NJ62 ...-□-....	Add. price
Without		▶	0	None
	1 NO	B	1	x
	1 NC	B	2	x
	1 NO + 1 NC	B	3	x

x = Additional price

2. Order No. supplement:
Ammeter and current transformer wired

	Ammeters		Current transformers		DT	Order No. supplement 3NJ62 ...-□□□□	Add. price	
			Primary current A	Secondary current A				Accuracy class
For size NH 00 and BS 00T								
Without		Without	Without	Without	▶	0AA0	None	
1 current transformer to 1 ammeter								
	Moving iron	50	1	1	B	1DB1	x	
	Moving iron	50	5	1	B	1DB4	x	
	Moving iron	100	1	1	B	1DD1	x	
	Moving iron	100	5	1	B	1DD4	x	
	Moving iron	150	1	1	B	1DE1	x	
	Moving iron	150	5	1	B	1DE4	x	
	Bi-metal	50	1	1	B	2DB1	x	
	Bi-metal	50	5	1	B	2DB4	x	
	Bi-metal	100	1	1	B	2DD1	x	
	Bi-metal	100	5	1	B	2DD4	x	
	Bi-metal	150	1	1	B	2DE1	x	
	Bi-metal	150	5	1	B	2DE4	x	
1 current transformers to multi-function plug								
	Without	50	1	1	B	0BB1	x	
	Without	50	5	1	B	0BB4	x	
	Without	100	1	1	B	0BD1	x	
	Without	100	1	0.5	B	0BD2	x	
	Without	100	1	0.5 calibrated	D	0BD3	x	
	Without	100	5	1	B	0BD4	x	
	Without	100	5	0.5	B	0BD5	x	
	Without	100	5	0.5 calibrated	D	0BD6	x	
	Without	150	1	1	B	0BE1	x	
	Without	150	1	0.5	B	0BE2	x	
	Without	150	1	0.5 calibrated	D	0BE3	x	
	Without	150	5	1	B	0BE4	x	
	Without	150	5	0.5	B	0BE5	x	
	Without	150	5	0.5 calibrated	D	0BE6	x	
	3 current transformers to multi-function plug							
		Without	50	1	1	B	0CB1	x
		Without	50	5	1	B	0CB4	x
		Without	100	1	1	B	0CD1	x
Without		100	1	0.5	B	0CD2	x	
Without		100	1	0.5 calibrated	D	0CD3	x	
Without		100	5	1	B	0CD4	x	
Without		100	5	0.5	B	0CD5	x	
Without		100	5	0.5 calibrated	D	0CD6	x	
Without		150	1	1	B	0CE1	x	
Without		150	1	0.5	B	0CE2	x	
Without		150	1	0.5 calibrated	D	0CE3	x	
Without		150	5	1	B	0CE4	x	
Without		150	5	0.5	B	0CE5	x	
Without		150	5	0.5 calibrated	D	0CE6	x	

x = Additional price

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

2. Order No. supplement: Ammeter and current transformer wired

	Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Add. price
		Primary current A	Secondary current A	Accuracy class			
For size NH 00 and BS 00T (continued)							
1 current transformer to 1 ammeter and multi-function plug							
	Moving iron	50	1	1	B	1EB1	x
	Moving iron	50	5	1	B	1EB4	x
	Moving iron	100	1	1	B	1ED1	x
	Moving iron	100	1	0.5	B	1ED2	x
	Moving iron	100	1	0.5 calibrated	D	1ED3	x
	Moving iron	100	5	1	B	1ED4	x
	Moving iron	100	5	0.5	B	1ED5	x
	Moving iron	100	5	0.5 calibrated	D	1ED6	x
	Moving iron	150	1	1	B	1EE1	x
	Moving iron	150	1	0.5	B	1EE2	x
	Moving iron	150	1	0.5 calibrated	D	1EE3	x
	Moving iron	150	5	1	B	1EE4	x
	Moving iron	150	5	0.5	B	1EE5	x
	Moving iron	150	5	0.5 calibrated	D	1EE6	x
	Bi-metal	50	1	1	B	2EB1	x
	Bi-metal	50	5	1	B	2EB4	x
	Bi-metal	100	1	1	B	2ED1	x
	Bi-metal	100	1	0.5	B	2ED2	x
	Bi-metal	100	1	0.5 calibrated	D	2ED3	x
	Bi-metal	100	5	1	B	2ED4	x
	Bi-metal	100	5	0.5	B	2ED5	x
	Bi-metal	100	5	0.5 calibrated	D	2ED6	x
	Bi-metal	150	1	1	B	2EE1	x
	Bi-metal	150	1	0.5	B	2EE2	x
Bi-metal	150	1	0.5 calibrated	D	2EE3	x	
Bi-metal	150	5	1	B	2EE4	x	
Bi-metal	150	5	0.5	B	2EE5	x	
Bi-metal	150	5	0.5 calibrated	D	2EE6	x	
3 current transformer to 1 ammeter and multi-function plug							
	Moving iron	50	1	1	B	1FB1	x
	Moving iron	50	5	1	B	1FB4	x
	Moving iron	100	1	1	B	1FD1	x
	Moving iron	100	1	0.5	B	1FD2	x
	Moving iron	100	1	0.5 calibrated	D	1FD3	x
	Moving iron	100	5	1	B	1FD4	x
	Moving iron	100	5	0.5	B	1FD5	x
	Moving iron	100	5	0.5 calibrated	D	1FD6	x
	Moving iron	150	1	1	B	1FE1	x
	Moving iron	150	5	0.5	B	1FE2	x
	Moving iron	150	5	0.5 calibrated	D	1FE3	x
	Moving iron	150	5	1	B	1FE4	x
	Moving iron	150	5	0.5	B	1FE5	x
	Moving iron	150	5	0.5 calibrated	D	1FE6	x
	Bi-metal	50	1	1	B	2FB1	x
	Bi-metal	50	5	1	B	2FB4	x
	Bi-metal	100	1	1	B	2FD1	x
	Bi-metal	100	1	0.5	B	2FD2	x
	Bi-metal	100	1	0.5 calibrated	D	2FD3	x
	Bi-metal	100	5	1	B	2FD4	x
	Bi-metal	100	5	0.5	B	2FD5	x
	Bi-metal	100	5	0.5 calibrated	D	2FD6	x
	Bi-metal	150	1	1	B	2FE1	x
	Bi-metal	150	1	0.5	B	2FE2	x
Bi-metal	150	1	0.5 calibrated	D	2FE3	x	
Bi-metal	150	5	1	B	2FE4	x	
Bi-metal	150	5	0.5	B	2FE5	x	
Bi-metal	150	5	0.5 calibrated	D	2FE6	x	

x = Additional price

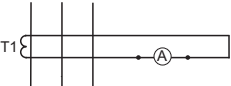
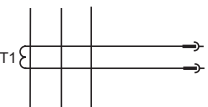
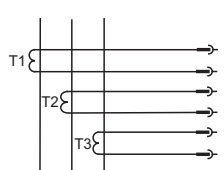
Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Add. price
	Primary current	Secondary current	Accuracy class			
	A	A				

For size NH 1 and BS B2

	Without	Without	Without	Without	▶	0AA0	None	
1 current transformer to 1 ammeter								
	Moving iron	50	1	1	B	1DB1	x	
	Moving iron	50	5	1	B	1DB4	x	
	Moving iron	100	1	1	B	1DD1	x	
	Moving iron	100	5	1	B	1DD4	x	
	Moving iron	150	1	1	B	1DE1	x	
	Moving iron	150	5	1	B	1DE4	x	
	Moving iron	200	1	1	B	1DF1	x	
	Moving iron	200	5	1	B	1DF4	x	
	Moving iron	250	1	1	B	1DG1	x	
	Moving iron	250	5	1	B	1DG4	x	
	Bi-metal	50	1	1	B	2DB1	x	
	Bi-metal	50	5	1	B	2DB4	x	
	Bi-metal	100	1	1	B	2DD1	x	
	Bi-metal	100	5	1	B	2DD4	x	
Bi-metal	150	1	1	B	2DE1	x		
Bi-metal	150	5	1	B	2DE4	x		
Bi-metal	200	1	1	B	2DF1	x		
Bi-metal	200	5	1	B	2DF4	x		
Bi-metal	250	1	1	B	2DG1	x		
Bi-metal	250	5	1	B	2DG4	x		
1 current transformers to multi-function plug								
	Without	50	1	1	B	0BB1	x	
	Without	50	5	1	B	0BB4	x	
	Without	100	1	1	B	0BD1	x	
	Without	100	1	0.5	B	0BD2	x	
	Without	100	5	1	B	0BD4	x	
	Without	100	5	0.5	B	0BD5	x	
	Without	150	1	1	B	0BE1	x	
	Without	150	1	0.5	B	0BE2	x	
	Without	150	5	1	B	0BE4	x	
	Without	150	5	0.5	B	0BE5	x	
	Without	200	1	1	B	0BF1	x	
	Without	200	1	0.5	B	0BF2	x	
	Without	200	5	1	B	0BF4	x	
	Without	200	5	0.5	B	0BF5	x	
	Without	250	1	1	B	0BG1	x	
	Without	250	1	0.5	B	0BG2	x	
	Without	250	5	1	B	0BG4	x	
	Without	250	5	0.5	B	0BG5	x	
	3 current transformers to multi-function plug							
		Without	50	1	1	B	0CB1	x
Without		50	5	1	B	0CB4	x	
Without		100	1	1	B	0CD1	x	
Without		100	1	0.5	B	0CD2	x	
Without		100	5	1	B	0CD4	x	
Without		100	5	0.5	B	0CD5	x	
Without		150	1	1	B	0CE1	x	
Without		150	1	0.5	B	0CE2	x	
Without		150	5	1	B	0CE4	x	
Without		150	5	0.5	B	0CE5	x	
Without		200	1	1	B	0CF1	x	
Without		200	1	0.5	B	0CF2	x	
Without		200	5	1	B	0CF4	x	
Without		200	5	0.5	B	0CF5	x	
Without		250	1	1	B	0CG1	x	
Without		250	1	0.5	B	0CG2	x	
Without		250	5	1	B	0CG4	x	
Without		250	5	0.5	B	0CG5	x	

x = Additional price

Switch Disconnectors with Fuses

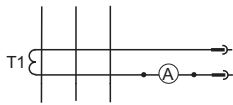
SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62-□□□□ ↑↑↑↑	Add. price
	Primary current A	Secondary current A	Accuracy class			

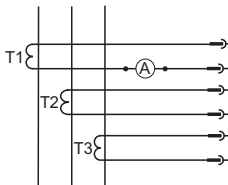
For size NH 1 and BS B2 (continued)

1 current transformer to 1 ammeter and multi-function plug



Moving iron	50	1	1	B	1EB1	x
Moving iron	50	5	1	B	1EB4	x
Moving iron	100	1	1	B	1ED1	x
Moving iron	100	1	0.5	B	1ED2	x
Moving iron	100	5	1	B	1ED4	x
Moving iron	100	5	0.5	B	1ED5	x
Moving iron	150	1	1	B	1EE1	x
Moving iron	150	1	0.5	B	1EE2	x
Moving iron	150	5	1	B	1EE4	x
Moving iron	150	5	0.5	B	1EE5	x
Moving iron	200	1	1	B	1EF1	x
Moving iron	200	1	0.5	B	1EF2	x
Moving iron	200	5	1	B	1EF4	x
Moving iron	200	5	0.5	B	1EF5	x
Moving iron	250	1	1	B	1EG1	x
Moving iron	250	1	0.5	B	1EG2	x
Moving iron	250	5	1	B	1EG4	x
Moving iron	250	5	0.5	B	1EG5	x
Bi-metal	50	1	1	B	2EB1	x
Bi-metal	50	5	1	B	2EB4	x
Bi-metal	100	1	1	B	2ED1	x
Bi-metal	100	1	0.5	B	2ED2	x
Bi-metal	100	5	1	B	2ED4	x
Bi-metal	100	5	0.5	B	2ED5	x
Bi-metal	150	1	1	B	2EE1	x
Bi-metal	150	1	0.5	B	2EE2	x
Bi-metal	150	5	1	B	2EE4	x
Bi-metal	150	5	0.5	B	2EE5	x
Bi-metal	200	1	1	B	2EF1	x
Bi-metal	200	1	0.5	B	2EF2	x
Bi-metal	200	5	1	B	2EF4	x
Bi-metal	200	5	0.5	B	2EF5	x
Bi-metal	250	1	1	B	2EG1	x
Bi-metal	250	1	0.5	B	2EG2	x
Bi-metal	250	5	1	B	2EG4	x
Bi-metal	250	5	0.5	B	2EG5	x

3 current transformer to 1 ammeter and multi-function plug



Moving iron	50	1	1	B	1FB1	x
Moving iron	50	5	1	B	1FB4	x
Moving iron	100	1	1	B	1FD1	x
Moving iron	100	1	0.5	B	1FD2	x
Moving iron	100	5	1	B	1FD4	x
Moving iron	100	5	0.5	B	1FD5	x
Moving iron	150	1	1	B	1FE1	x
Moving iron	150	1	0.5	B	1FE2	x
Moving iron	150	5	1	B	1FE4	x
Moving iron	150	5	0.5	B	1FE5	x
Moving iron	200	1	1	B	1FF1	x
Moving iron	200	1	0.5	B	1FF2	x
Moving iron	200	5	1	B	1FF4	x
Moving iron	200	5	0.5	B	1FF5	x
Moving iron	250	1	1	B	1FG1	x
Moving iron	250	1	0.5	B	1FG2	x
Moving iron	250	5	1	B	1FG4	x
Moving iron	250	5	0.5	B	1FG5	x
Bi-metal	50	1	1	B	2FB1	x
Bi-metal	50	5	1	B	2FB4	x
Bi-metal	100	1	1	B	2FD1	x
Bi-metal	100	1	0.5	B	2FD2	x
Bi-metal	100	5	1	B	2FD4	x
Bi-metal	100	5	0.5	B	2FD5	x
Bi-metal	150	1	1	B	2FE1	x
Bi-metal	150	1	0.5	B	2FE2	x
Bi-metal	150	5	1	B	2FE4	x
Bi-metal	150	5	0.5	B	2FE5	x
Bi-metal	200	1	1	B	2FF1	x
Bi-metal	200	1	0.5	B	2FF2	x
Bi-metal	200	5	1	B	2FF4	x
Bi-metal	200	5	0.5	B	2FF5	x
Bi-metal	250	1	1	B	2FG1	x
Bi-metal	250	1	0.5	B	2FG2	x
Bi-metal	250	5	1	B	2FG4	x
Bi-metal	250	5	0.5	B	2FG5	x

x = Additional price

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Add. price
	Primary current	Secondary current	Accuracy class			
	A	A				

For size NH 2 and BS B4

	Without	Without	Without			0AA0	None	
1 current transformer to 1 ammeter								
	Moving iron	300	1	1	B	1DH1	x	
	Moving iron	300	5	1	B	1DH4	x	
	Moving iron	400	1	1	B	1DJ1	x	
	Moving iron	400	5	1	B	1DJ4	x	
	Bi-metal	300	1	1	B	2DH1	x	
	Bi-metal	300	5	1	B	2DH4	x	
	400	1	1	B	2DJ1	x		
	400	5	1	B	2DJ4	x		
1 current transformers to multi-function plug								
	Without	300	1	1	B	0BH1	x	
	Without	300	1	0.5	B	0BH2	x	
	Without	300	1	0.5 calibrated	D	0BH3	x	
	Without	300	5	1	B	0BH4	x	
	Without	300	5	0.5	B	0BH5	x	
	Without	300	5	0.5 calibrated	D	0BH6	x	
	Without	400	1	1	B	0BJ1	x	
	Without	400	1	0.5	B	0BJ2	x	
	Without	400	1	0.5 calibrated	D	0BJ3	x	
	Without	400	5	1	B	0BJ4	x	
	Without	400	5	0.5	B	0BJ5	x	
	Without	400	5	0.5 calibrated	D	0BJ6	x	
3 current transformers to multi-function plug								
	Without	300	1	1	B	0CH1	x	
	Without	300	1	0.5	B	0CH2	x	
	Without	300	1	0.5 calibrated	D	0CH3	x	
	Without	300	5	1	B	0CH4	x	
	Without	300	5	0.5	B	0CH5	x	
	Without	300	5	0.5 calibrated	D	0CH6	x	
	Without	400	1	1	B	0CJ1	x	
	Without	400	1	0.5	B	0CJ2	x	
	Without	400	1	0.5 calibrated	D	0CJ3	x	
	Without	400	5	1	B	0CJ4	x	
	Without	400	5	0.5	B	0CJ5	x	
	Without	400	5	0.5 calibrated	D	0CJ6	x	
	1 current transformer to 1 ammeter and multi-function plug							
		Moving iron	300	1	1	B	1EH1	x
		Moving iron	300	1	0.5	B	1EH2	x
Moving iron		300	1	0.5 calibrated	D	1EH3	x	
Moving iron		300	5	1	B	1EH4	x	
Moving iron		300	5	0.5	B	1EH5	x	
Moving iron		300	5	0.5 calibrated	D	1EH6	x	
Moving iron		400	1	1	B	1EJ1	x	
Moving iron		400	1	0.5	B	1EJ2	x	
Moving iron		400	1	0.5 calibrated	D	1EJ3	x	
Moving iron		400	5	1	B	1EJ4	x	
Moving iron		400	5	0.5	B	1EJ5	x	
Moving iron		400	5	0.5 calibrated	D	1EJ6	x	
Bi-metal		300	1	1	B	2EH1	x	
Bi-metal		300	1	0.5	B	2EH2	x	
Bi-metal		300	1	0.5 calibrated	D	2EH3	x	
Bi-metal		300	5	1	B	2EH4	x	
Bi-metal		300	5	0.5	B	2EH5	x	
Bi-metal		300	5	0.5 calibrated	D	2EH6	x	
Bi-metal		400	1	1	B	2EJ1	x	
Bi-metal		400	1	0.5	B	2EJ2	x	
Bi-metal		400	1	0.5 calibrated	D	2EJ3	x	
Bi-metal		400	5	1	B	2EJ4	x	
Bi-metal		400	5	0.5	B	2EJ5	x	
Bi-metal		400	5	0.5 calibrated	D	2EJ6	x	

x = Additional price

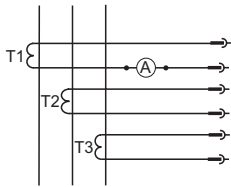
Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-.....-□□□□	Add. price
	Primary current A	Secondary current A	Accuracy class			

For size NH 2 and BS B4 (continued)



3 current transformer to 1 ammeter and multi-function plug

Moving iron	300	1	1	B	1FH1	x
Moving iron	300	1	0.5	B	1FH2	x
Moving iron	300	1	0.5 calibrated	D	1FH3	x
Moving iron	300	5	1	B	1FH4	x
Moving iron	300	5	0.5	B	1FH5	x
Moving iron	300	5	0.5 calibrated	D	1FH6	x
Moving iron	400	1	1	B	1FJ1	x
Moving iron	400	1	0.5	B	1FJ2	x
Moving iron	400	1	0.5 calibrated	D	1FJ3	x
Moving iron	400	5	1	B	1FJ4	x
Moving iron	400	5	0.5	B	1FJ5	x
Moving iron	400	5	0.5 calibrated	D	1FJ6	x
Bi-metal	300	1	1	B	2FH1	x
Bi-metal	300	1	0.5	B	2FH2	x
Bi-metal	300	1	0.5 calibrated	D	2FH3	x
Bi-metal	300	5	1	B	2FH4	x
Bi-metal	300	5	0.5	B	2FH5	x
Bi-metal	300	5	0.5 calibrated	D	2FH6	x
Bi-metal	400	1	1	B	2FJ1	x
Bi-metal	400	1	0.5	B	2FJ2	x
Bi-metal	400	1	0.5 calibrated	D	2FJ3	x
Bi-metal	400	5	1	B	2FJ4	x
Bi-metal	400	5	0.5	B	2FJ5	x
Bi-metal	400	5	0.5 calibrated	D	2FJ6	x

x = Additional price

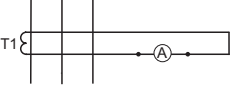
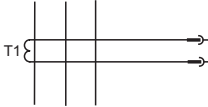
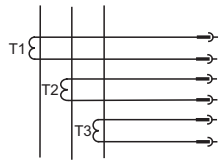
Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□	Add. price
	Primary current	Secondary current	Accuracy class			
	A	A			↑↑↑↑	

For size NH 3 and BS 3T

	Without	Without	Without	Without	▶	0AA0	None	
1 current transformer to 1 ammeter								
	Moving iron	300	1	1	B	1DH1	x	
	Moving iron	300	5	1	B	1DH4	x	
	Moving iron	400	1	1	B	1DJ1	x	
	Moving iron	400	5	1	B	1DJ4	x	
	Moving iron	500	1	1	B	1DK1	x	
	Moving iron	500	5	1	B	1DK4	x	
	Moving iron	600	1	1	B	1DL1	x	
	Moving iron	600	5	1	B	1DL4	x	
	Bi-metal	300	1	1	B	2DH1	x	
	Bi-metal	300	5	1	B	2DH4	x	
	Bi-metal	400	1	1	B	2DJ1	x	
	Bi-metal	400	5	1	B	2DJ4	x	
	Bi-metal	500	1	1	B	2DK1	x	
	Bi-metal	500	5	1	B	2DK4	x	
Bi-metal	600	1	1	B	2DL1	x		
Bi-metal	600	5	1	B	2DL4	x		
1 current transformers to multi-function plug								
	Without	300	1	1	B	0BH1	x	
	Without	300	1	0.5	B	0BH2	x	
	Without	300	1	0.5 calibrated	D	0BH3	x	
	Without	300	5	1	B	0BH4	x	
	Without	300	5	0.5	B	0BH5	x	
	Without	300	5	0.5 calibrated	D	0BH6	x	
	Without	400	1	1	B	0BJ1	x	
	Without	400	1	0.5	B	0BJ2	x	
	Without	400	1	0.5 calibrated	D	0BJ3	x	
	Without	400	5	1	B	0BJ4	x	
	Without	400	5	0.5	B	0BJ5	x	
	Without	400	5	0.5 calibrated	D	0BJ6	x	
	Without	500	1	1	B	0BK1	x	
	Without	500	1	0.5	B	0BK2	x	
	Without	500	1	0.5 calibrated	D	0BK3	x	
	Without	500	5	1	B	0BK4	x	
	Without	500	5	0.5	B	0BK5	x	
	Without	500	5	0.5 calibrated	D	0BK6	x	
	Without	600	1	1	B	0BL1	x	
	Without	600	1	0.5	B	0BL2	x	
	Without	600	1	0.5 calibrated	D	0BL3	x	
	Without	600	5	1	B	0BL4	x	
	Without	600	5	0.5	B	0BL5	x	
	Without	600	5	0.5 calibrated	D	0BL6	x	
	3 current transformers to multi-function plug							
		Without	300	1	1	B	0CH1	x
		Without	300	1	0.5	B	0CH2	x
		Without	300	1	0.5 calibrated	D	0CH3	x
		Without	300	5	1	B	0CH4	x
		Without	300	5	0.5	B	0CH5	x
Without		300	5	0.5 calibrated	D	0CH6	x	
Without		400	1	1	B	0CJ1	x	
Without		400	1	0.5	B	0CJ2	x	
Without		400	1	0.5 calibrated	D	0CJ3	x	
Without		400	5	1	B	0CJ4	x	
Without		400	5	0.5	B	0CJ5	x	
Without		400	5	0.5 calibrated	D	0CJ6	x	
Without		500	1	1	B	0CK1	x	
Without		500	1	0.5	B	0CK2	x	
Without		500	1	0.5 calibrated	D	0CK3	x	
Without		500	5	1	B	0CK4	x	
Without		500	5	0.5	B	0CK5	x	
Without		500	5	0.5 calibrated	D	0CK6	x	
Without		600	1	1	B	0CL1	x	
Without		600	1	0.5	B	0CL2	x	
Without		600	1	0.5 calibrated	D	0CL3	x	
Without		600	5	1	B	0CL4	x	
Without		600	5	0.5	B	0CL5	x	
Without		600	5	0.5 calibrated	D	0CL6	x	

x = Additional price

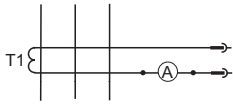
Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-.....-□□□□	Add. price
	Primary current A	Secondary current A	Accuracy class			

For size NH 3 and BS 3T (continued)



1 current transformer to 1 ammeter and multi-function plug

Moving iron	300	1	0.5 calibrated	D	1EH3	x
Moving iron	300	5	1	B	1EH4	x
Moving iron	300	5	0.5	B	1EH5	x
Moving iron	300	5	0.5 calibrated	D	1EH6	x
Moving iron	400	1	1	B	1EJ1	x
Moving iron	400	1	0.5	B	1EJ2	x
Moving iron	400	1	0.5 calibrated	D	1EJ3	x
Moving iron	400	5	1	B	1EJ4	x
Moving iron	400	5	0.5	B	1EJ5	x
Moving iron	400	5	0.5 calibrated	D	1EJ6	x
Moving iron	500	1	1	B	1EK1	x
Moving iron	500	1	0.5	B	1EK2	x
Moving iron	500	1	0.5 calibrated	D	1EK3	x
Moving iron	500	5	1	B	1EK4	x
Moving iron	500	5	0.5	B	1EK5	x
Moving iron	500	5	0.5 calibrated	D	1EK6	x
Moving iron	600	1	1	B	1EL1	x
Moving iron	600	1	0.5	B	1EL2	x
Moving iron	600	1	0.5 calibrated	D	1EL3	x
Moving iron	600	5	1	B	1EL4	x
Moving iron	600	5	0.5	B	1EL5	x
Moving iron	600	5	0.5 calibrated	D	1EL6	x
Bi-metal	300	1	1	B	2EH1	x
Bi-metal	300	1	0.5	B	2EH2	x
Bi-metal	300	1	0.5 calibrated	D	2EH3	x
Bi-metal	300	5	1	B	2EH4	x
Bi-metal	300	5	0.5	B	2EH5	x
Bi-metal	300	5	0.5 calibrated	D	2EH6	x
Bi-metal	400	1	1	B	2EJ1	x
Bi-metal	400	1	0.5	B	2EJ2	x
Bi-metal	400	1	0.5 calibrated	D	2EJ3	x
Bi-metal	400	5	1	B	2EJ4	x
Bi-metal	400	5	0.5	B	2EJ5	x
Bi-metal	400	5	0.5 calibrated	D	2EJ6	x
Bi-metal	500	1	1	B	2EK1	x
Bi-metal	500	1	0.5	B	2EK2	x
Bi-metal	500	1	0.5 calibrated	D	2EK3	x
Bi-metal	500	5	1	B	2EK4	x
Bi-metal	500	5	0.5	B	2EK5	x
Bi-metal	500	5	0.5 calibrated	D	2EK6	x
Bi-metal	600	1	1	B	2EL1	x
Bi-metal	600	1	0.5	B	2EL2	x
Bi-metal	600	1	0.5 calibrated	D	2EL3	x
Bi-metal	600	5	1	B	2EL4	x
Bi-metal	600	5	0.5	B	2EL5	x
Bi-metal	600	5	0.5 calibrated	D	2EL6	x

x = Additional price

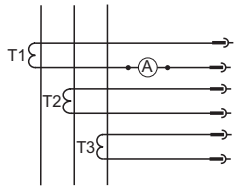
Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses for LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-.....-□□□□	Add. price
	Primary current A	Secondary current A	Accuracy class			

For size NH 3 and BS 3T (continued)



3 current transformer to 1 ammeter and multi-function plug

Moving iron	300	1	1	B	1FH1	x
Moving iron	300	1	0.5	B	1FH2	x
Moving iron	300	1	0.5 calibrated	D	1FH3	x
Moving iron	300	5	1	B	1FH4	x
Moving iron	300	5	0.5	B	1FH5	x
Moving iron	300	5	0.5 calibrated	D	1FH6	x
Moving iron	400	1	1	B	1FJ1	x
Moving iron	400	1	0.5	B	1FJ2	x
Moving iron	400	1	0.5 calibrated	D	1FJ3	x
Moving iron	400	5	1	B	1FJ4	x
Moving iron	400	5	0.5	B	1FJ5	x
Moving iron	400	5	0.5 calibrated	D	1FJ6	x
Moving iron	500	1	1	B	1FK1	x
Moving iron	500	1	0.5	B	1FK2	x
Moving iron	500	1	0.5 calibrated	D	1FK3	x
Moving iron	500	5	1	B	1FK4	x
Moving iron	500	5	0.5	B	1FK5	x
Moving iron	500	5	0.5 calibrated	D	1FK6	x
Moving iron	600	1	1	B	1FL1	x
Moving iron	600	1	0.5	B	1FL2	x
Moving iron	600	1	0.5 calibrated	D	1FL3	x
Moving iron	600	5	1	B	1FL4	x
Moving iron	600	5	0.5	B	1FL5	x
Moving iron	600	5	0.5 calibrated	D	1FL6	x
Bi-metal	300	1	1	B	2FH1	x
Bi-metal	300	1	0.5	B	2FH2	x
Bi-metal	300	1	0.5 calibrated	D	2FH3	x
Bi-metal	300	5	1	B	2FH4	x
Bi-metal	300	5	0.5	B	2FH5	x
Bi-metal	300	5	0.5 calibrated	D	2FH6	x
Bi-metal	400	1	1	B	2FJ1	x
Bi-metal	400	1	0.5	B	2FJ2	x
Bi-metal	400	1	0.5 calibrated	D	2FJ3	x
Bi-metal	400	5	1	B	2FJ4	x
Bi-metal	400	5	0.5	B	2FJ5	x
Bi-metal	400	5	0.5 calibrated	D	2FJ6	x
Bi-metal	500	1	1	B	2FK1	x
Bi-metal	500	1	0.5	B	2FK2	x
Bi-metal	500	1	0.5 calibrated	D	2FK3	x
Bi-metal	500	5	1	B	2FK4	x
Bi-metal	500	5	0.5	B	2FK5	x
Bi-metal	500	5	0.5 calibrated	D	2FK6	x
Bi-metal	600	1	1	B	2FL1	x
Bi-metal	600	1	0.5	B	2FL2	x
Bi-metal	600	1	0.5 calibrated	D	2FL3	x
Bi-metal	600	5	1	B	2FL4	x
Bi-metal	600	5	0.5	B	2FL5	x
Bi-metal	600	5	0.5 calibrated	D	2FL6	x










x = Additional price

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses Accessories

Selection and ordering data





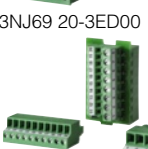
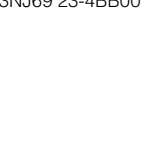

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH 00, BS A3 and BS 00T							
Terminals							
 3NJ69 23-1BA00		Single terminal for 2-/3-pole devices, 10 ... 95 mm ² (1 set = 3 units)	A	3NJ69 23-1BA00	1	1 unit	143 0.210
		Single terminal for 4-pole devices, 10 ... 95 mm ² (1 set = 4 units)	A	3NJ69 24-1BA00	1	1 unit	143 0.280
Terminal covers							
 3NJ69 23-1DA00		For 2-/3-pole devices	A	3NJ69 23-1DA00	1	1 unit	143 0.063
		Only for 4th pole	A	3NJ69 04-1DA00	1	1 unit	143 0.070
Contact extension							
 3NJ69 23-1EB00		3-pole	A	3NJ69 23-1EB00	1	1 unit	143 1.700
		4-pole	A	3NJ69 24-1EB00	1	1 unit	143 2.000
Auxiliary switches							
 3NJ69 20-2BB00		1 NO contact (1 NO) with cover	A	3NJ69 20-2BB00	1	1 unit	143 0.080
		1 NO contact (1 NO)	A	3NJ69 00-2BC00	1	1 unit	143 0.020
		1 NC contact (1 NC) with cover	A	3NJ69 20-2CB00	1	1 unit	143 0.080
 3NJ69 00-2BC00		1 NC contact (1 NC)	A	3NJ69 00-2CC00	1	1 unit	143 0.020
Current transformers							
For main devices and contact extensions							
Ø = Feed-through opening diameter							
 3NJ69 20-3BD11		50 A/1 A Class 1 1 VA, Ø 21 mm	A	3NJ69 20-3BB11	1	1 unit	143 0.160
		50 A/5 A Class 1 1 VA, Ø 21 mm	A	3NJ69 20-3BB21	1	1 unit	143 0.160
		100 A/1 A Class 1 2.5 VA, Ø 21 mm	A	3NJ69 20-3BD11	1	1 unit	143 0.160
		100 A/1 A Class 0.5 1.5 VA, Ø 21 mm	A	3NJ69 20-3BD12	1	1 unit	143 0.160
		100 A/1 A Class 0.5 calibrated 1.5 VA, Ø 14 mm	D	3NJ69 20-3BD13	1	1 unit	143 0.160
		100 A/5 A Class 1 2.5 VA, Ø 21 mm	A	3NJ69 20-3BD21	1	1 unit	143 0.160
		100 A/5 A Class 0.5 1.5 VA, Ø 21 mm	A	3NJ69 20-3BD22	1	1 unit	143 0.160
		100 A/5 A Class 0.5 calibrated 1.5 VA, Ø 14 mm	D	3NJ69 20-3BD23	1	1 unit	143 0.160
		150 A/1 A Class 1 2.5 VA, Ø 21 mm	A	3NJ69 20-3BE11	1	1 unit	143 0.170
		150 A/1 A Class 0.5 1.5 VA, Ø 21 mm	A	3NJ69 20-3BE12	1	1 unit	143 0.170
		150 A/1 A Class 0.5 calibrated 2.5 VA, Ø 14 mm	D	3NJ69 20-3BE13	1	1 unit	143 0.170
		150 A/5 A Class 1 1.5 VA, Ø 21 mm	A	3NJ69 20-3BE21	1	1 unit	143 0.170
		150 A/5 A Class 0.5 1.5 VA, Ø 21 mm	A	3NJ69 20-3BE22	1	1 unit	143 0.170
		150 A/5 A Class 0.5 calibrated 2.5 VA, Ø 14 mm	D	3NJ69 20-3BE23	1	1 unit	143 0.170
Current transformer busbars for current transformers with feed-through opening Ø 21 mm							
 3NJ69 20-3DB00		For 1 current transformers	A	3NJ69 20-3DB00	1	1 unit	143 0.070
		For 3 current transformers	A	3NJ69 20-3DC00	1	1 unit	143 0.210
		For 4 current transformers ¹⁾	A	3NJ69 20-3DD00	1	1 unit	143 0.280
Current transformer busbars for current transformers with feed-through opening Ø 14 mm							
 3NJ69 20-3DC00		For 1 current transformers	A	3NJ69 20-3DE00	1	1 unit	143 0.070
		For 3 current transformers	A	3NJ69 20-3DF00	1	1 unit	143 0.210
 3NJ69 20-3DD00		For 4 current transformers ¹⁾	A	3NJ69 20-3DG00	1	1 unit	143 0.280

¹⁾ Not available in combination with multi-function plugs.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
Accessories








Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH 00, BS A3 and BS 00T (continued)							
		Holders for ammeters For sizes 00, 1, 2, 3	A	3NJ69 00-4GA00	1	1 unit	143 0.040
3NJ69 00-4GA00							
Ammeters							
		Moving-iron measuring instruments for measuring input on transformer x/1A with double overload					
		50 A/1 A 0.6 VA	A	3NJ69 00-4HB11	1	1 unit	143 0.100
		100 A/1 A 0.6 VA	A	3NJ69 00-4HD11	1	1 unit	143 0.100
		150 A/1 A 0.6 VA	A	3NJ69 00-4HE11	1	1 unit	143 0.100
3NJ69 00-4H...							
		Moving-iron measuring instruments for measuring input on transformer x/5A with double overload					
		50 A/5 A 0.6 VA	A	3NJ69 00-4HB21	1	1 unit	143 0.100
		100 A/5 A 0.6 VA	A	3NJ69 00-4HD21	1	1 unit	143 0.100
		150 A/5 A 0.6 VA	A	3NJ69 00-4HE21	1	1 unit	143 0.100
3NJ69 00-4H...							
		Bi-metal measuring instruments for measuring input on transformer x/1A with 1.2-times the overload					
		50 A/1 A 1 VA	A	3NJ69 00-4HB12	1	1 unit	143 0.100
		100 A/1 A 1 VA	A	3NJ69 00-4HD12	1	1 unit	143 0.100
		150 A/1 A 1 VA	A	3NJ69 00-4HE12	1	1 unit	143 0.100
3NJ69 00-4H...							
		Bi-metal measuring instruments for measuring input on transformer x/5A with 1.2-times the overload					
		50 A/5 A 1 VA	A	3NJ69 00-4HB22	1	1 unit	143 0.100
		100 A/5 A 1 VA	A	3NJ69 00-4HD22	1	1 unit	143 0.100
		150 A/5 A 1 VA	A	3NJ69 00-4HE22	1	1 unit	143 0.100
3NJ69 00-4H...							
		Multi-function plugs					
		6 x 2.5 mm ² , with fixing screws	A	3NJ69 20-3EB00	1	1 unit	143 0.047
		8 x 2.5 mm ² , without fixing screws	A	3NJ69 20-3ED00	1	1 unit	143 0.047
		10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws	A	3NJ69 20-3EE00	1	1 unit	143 0.070
3NJ69 20-3EB00							
							
3NJ69 20-3ED00							
3NJ69 20-3EE00							
		Front panel					
		For NH: 3NJ62 03-1AA... and 3NJ62 03-3AA... without/with EFM	A	3NJ69 23-4BB00	1	1 unit	143 0.400
		For BS: 3NJ62 03-1AA... and 3NJ62 03-3AA... without/with EFM	A	3NJ69 23-4BC00	1	1 unit	143 0.400
3NJ69 23-4BB00							

* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A






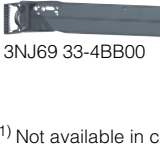


3NJ62 switch disconnectors with fuses Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
For size NH 1 and BS B2								
Terminals								
 3NJ69 33-1BA00		Single terminal for 2-/3-pole devices, 16 ... 300 mm ² (1 set = 3 units)	A	3NJ69 33-1BA00	1	1 unit	143 0.230	
		Single terminal for 4-pole devices, 16 ... 300 mm ² (1 set = 4 units)	A	3NJ69 34-1BA00	1	1 unit	143 0.310	
Terminal covers								
 3NJ69 33-1DA00		For 2-/3-pole devices	A	3NJ69 33-1DA00	1	1 unit	143 0.146	
		Internal terminal covers for 2-/3-pole devices	A	3NJ69 33-1DB00	1	1 unit	143 0.020	
 3NJ69 33-1DB00		Only for 4th pole	A	3NJ69 04-1DA00	1	1 unit	143 0.070	
Contact extension								
 3NJ69 33-1EB00		3-pole	A	3NJ69 33-1EB00	1	1 unit	143 2.400	
		4-pole	A	3NJ69 34-1EB00	1	1 unit	143 2.800	
Auxiliary switches								
 3NJ69 30-2BB00		1 NO contact (1 NO) with cover	A	3NJ69 30-2BB00	1	1 unit	143 0.050	
		1 NO contact (1 NO)	A	3NJ69 00-2BC00	1	1 unit	143 0.020	
		1 NC contact (1 NC) with cover	A	3NJ69 30-2CB00	1	1 unit	143 0.050	
 3NJ69 00-2BC00		1 NC contact (1 NC)	A	3NJ69 00-2CC00	1	1 unit	143 0.020	
Current transformers								
For main devices and contact extensions								
Ø = Feed-through opening diameter								
 3NJ69 20-3BD11	50 A/1 A	Class 1	1 VA, Ø 21 mm	A	3NJ69 20-3BB11	1	1 unit	143 0.160
	50 A/5 A	Class 1	1 VA, Ø 21 mm	A	3NJ69 20-3BB21	1	1 unit	143 0.160
	100 A/1 A	Class 1	2.5 VA, Ø 21 mm	A	3NJ69 20-3BD11	1	1 unit	143 0.160
	100 A/1 A	Class 0.5	1.5 VA, Ø 21 mm	A	3NJ69 20-3BD12	1	1 unit	143 0.160
	100 A/5 A	Class 1	2.5 VA, Ø 21 mm	A	3NJ69 20-3BD21	1	1 unit	143 0.160
	100 A/5 A	Class 0.5	1.5 VA, Ø 21 mm	A	3NJ69 20-3BD22	1	1 unit	143 0.160
	150 A/1 A	Class 1	2.5 VA, Ø 21 mm	A	3NJ69 20-3BE11	1	1 unit	143 0.170
	150 A/1 A	Class 0.5	1.5 VA, Ø 21 mm	A	3NJ69 20-3BE12	1	1 unit	143 0.170
	150 A/5 A	Class 1	1.5 VA, Ø 21 mm	A	3NJ69 20-3BE21	1	1 unit	143 0.170
	150 A/5 A	Class 0.5	1.5 VA, Ø 21 mm	A	3NJ69 20-3BE22	1	1 unit	143 0.170
	200 A/1 A	Class 1	2.5 VA, Ø 21 mm	A	3NJ69 30-3BF11	1	1 unit	143 0.180
	200 A/1 A	Class 0.5	5 VA, Ø 21 mm	A	3NJ69 30-3BF12	1	1 unit	143 0.180
	200 A/5 A	Class 1	2.5 VA, Ø 21 mm	A	3NJ69 30-3BF21	1	1 unit	143 0.180
	200 A/5 A	Class 0.5	2.5 VA, Ø 21 mm	A	3NJ69 30-3BF22	1	1 unit	143 0.180
	250 A/1 A	Class 1	5 VA, Ø 21 mm	A	3NJ69 30-3BG11	1	1 unit	143 0.180
	250 A/1 A	Class 0.5	5 VA, Ø 21 mm	A	3NJ69 30-3BG12	1	1 unit	143 0.180
250 A/5 A	Class 1	2.5 VA, Ø 21 mm	A	3NJ69 30-3BG21	1	1 unit	143 0.180	
250 A/5 A	Class 0.5	2.5 VA, Ø 21 mm	A	3NJ69 30-3BG22	1	1 unit	143 0.180	

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
For size NH 1 and BS B2 (continued)								
 <p>3NJ69 30-3DB00 3NJ69 30-3DC00 3NJ69 30-3DD00</p>	Current transformer busbars for current transformers with feed-through opening \varnothing 21 mm							
		For 1 current transformers	A	3NJ69 30-3DB00	1	1 unit	143	0.210
		For 3 current transformers	A	3NJ69 30-3DC00	1	1 unit	143	0.310
		For 4 current transformers ¹⁾	A	3NJ69 30-3DD00	1	1 unit	143	0.410
 <p>3NJ69 00-4GA00</p>		Holders for ammeters	A	3NJ69 00-4GA00	1	1 unit	143	0.040
		For sizes 00, 1, 2, 3						
 <p>3NJ69 00-4H...</p>	Ammeters							
	Moving-iron measuring instruments for measuring input on transformer x/1A with double overload							
	50 A/1 A	0.6 VA	A	3NJ69 00-4HB11	1	1 unit	143	0.100
	100 A/1 A	0.6 VA	A	3NJ69 00-4HD11	1	1 unit	143	0.100
	150 A/1 A	0.6 VA	A	3NJ69 00-4HE11	1	1 unit	143	0.100
	200 A/1 A	0.6 VA	A	3NJ69 00-4HF11	1	1 unit	143	0.100
250 A/1 A	0.6 VA	A	3NJ69 00-4HG11	1	1 unit	143	0.100	
 <p>3NJ69 00-4H...</p>	Moving-iron measuring instruments for measuring input on transformer x/5A with double overload							
	50 A/5 A	0.6 VA	A	3NJ69 00-4HB21	1	1 unit	143	0.100
	100 A/5 A	0.6 VA	A	3NJ69 00-4HD21	1	1 unit	143	0.100
	150 A/5 A	0.6 VA	A	3NJ69 00-4HE21	1	1 unit	143	0.100
	200 A/5 A	0.6 VA	A	3NJ69 00-4HF21	1	1 unit	143	0.100
	250 A/5 A	0.6 VA	A	3NJ69 00-4HG21	1	1 unit	143	0.100
 <p>3NJ69 00-4H...</p>	Bi-metal measuring instruments for measuring input on transformer x/1A with 1.2-times the overload							
	50 A/1 A	1 VA	A	3NJ69 00-4HB12	1	1 unit	143	0.100
	100 A/1 A	1 VA	A	3NJ69 00-4HD12	1	1 unit	143	0.100
	150 A/1 A	1 VA	A	3NJ69 00-4HE12	1	1 unit	143	0.100
	200 A/1 A	1 VA	A	3NJ69 00-4HF12	1	1 unit	143	0.100
	250 A/1 A	1 VA	A	3NJ69 00-4HG12	1	1 unit	143	0.100
 <p>3NJ69 00-4H...</p>	Bi-metal measuring instruments for measuring input on transformer x/5A with 1.2-times the overload							
	50 A/5 A	1 VA	A	3NJ69 00-4HB22	1	1 unit	143	0.100
	100 A/5 A	1 VA	A	3NJ69 00-4HD22	1	1 unit	143	0.100
	150 A/5 A	1 VA	A	3NJ69 00-4HE22	1	1 unit	143	0.100
	200 A/5 A	1 VA	A	3NJ69 00-4HF22	1	1 unit	143	0.100
	250 A/5 A	1 VA	A	3NJ69 00-4HG22	1	1 unit	143	0.100
 <p>3NJ69 20-3EB00 3NJ69 40-3EE00</p>	Multi-function plugs							
		6 x 2.5 mm ² , with fixing screws	A	3NJ69 20-3EB00	1	1 unit	143	0.047
		8 x 2.5 mm ² , without fixing screws	A	3NJ69 20-3ED00	1	1 unit	143	0.047
		10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws	A	3NJ69 20-3EE00	1	1 unit	143	0.070
 <p>3NJ69 33-4BB00</p>	Front panel							
		For NH: 3NJ62 13-1AA... and 3NJ62 13-3AA... without/with EFM	A	3NJ69 33-4BB00	1	1 unit	143	0.500
	For BS: 3NJ62 13-1AA... and 3NJ62 13-3AA... without/with EFM	A	3NJ69 33-4BC00	1	1 unit	143	0.500	







¹⁾ Not available in combination with multi-function plug.

* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses Accessories








Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH 2, NH 3, BS B4 and BS 3T							
Terminals							
 3NJ69 43-1CA00		Double terminal for 2-/3-pole devices, 2 x (16 mm ² ... 300 mm ²) (1 set = 6 units)	A	3NJ69 43-1CA00	1	1 unit	143 0.450
		Double terminal for 4-pole devices, 2 x (16 mm ² ... 300 mm ²) (1 set = 8 units)	A	3NJ69 44-1CA00	1	1 unit	143 0.600
Terminal covers							
 3NJ69 43-1DA00		For 2-/3-pole devices	A	3NJ69 43-1DA00	1	1 unit	143 0.195
		Only for 4th pole	A	3NJ69 04-1DA00	1	1 unit	143 0.070
Contact extension							
 3NJ69 43-1EB00		3-pole	A	3NJ69 43-1EB00	1	1 unit	143 8.400
		4-pole	A	3NJ69 44-1EB00	1	1 unit	143 9.200
Auxiliary switches							
 3NJ69 40-2BB00		1 NO contact (1 NO) with cover	A	3NJ69 40-2BB00	1	1 unit	143 0.024
		1 NO contact (1 NO)	A	3NJ69 00-2BC00	1	1 unit	143 0.020
		1 NC contact (1 NC) with cover	A	3NJ69 40-2CB00	1	1 unit	143 0.024
		1 NC contact (1 NC)	A	3NJ69 00-2CC00	1	1 unit	143 0.020
 3NJ69 00-2BC00							
Current transformers							
For main devices and contact extensions							
 3NJ69 40-3B...		300 A/1 A Class 1 5 VA	A	3NJ69 40-3BH11	1	1 unit	143 0.330
		300 A/1 A Class 0.5 5 VA	A	3NJ69 40-3BH12	1	1 unit	143 0.330
		300 A/1 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BH13	1	1 unit	143 0.330
		300 A/5 A Class 1 5 VA	A	3NJ69 40-3BH21	1	1 unit	143 0.330
		300 A/5 A Class 0.5 5 VA	A	3NJ69 40-3BH22	1	1 unit	143 0.330
		300 A/5 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BH23	1	1 unit	143 0.330
		400 A/1 A Class 1 5 VA	A	3NJ69 40-3BJ11	1	1 unit	143 0.430
		400 A/1 A Class 0.5 5 VA	A	3NJ69 40-3BJ12	1	1 unit	143 0.430
		400 A/1A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BJ13	1	1 unit	143 0.430
		400 A/5 A Class 1 5 VA	A	3NJ69 40-3BJ21	1	1 unit	143 0.430
		400 A/5 A Class 0.5 5 VA	A	3NJ69 40-3BJ22	1	1 unit	143 0.430
		400 A/5 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BJ23	1	1 unit	143 0.430
		500 A/1 A Class 1 5 VA	A	3NJ69 40-3BK11	1	1 unit	143 0.460
		500 A/1 A Class 0.5 5 VA	A	3NJ69 40-3BK12	1	1 unit	143 0.460
		500 A/1 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BK13	1	1 unit	143 0.460
		500 A/5 A Class 1 5 VA	A	3NJ69 40-3BK21	1	1 unit	143 0.460
		500 A/5 A Class 0.5 5 VA	A	3NJ69 40-3BK22	1	1 unit	143 0.460
		500 A/5 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BK23	1	1 unit	143 0.460
		600 A/1 A Class 1 5 VA	A	3NJ69 40-3BL11	1	1 unit	143 0.460
		600 A/1 A Class 0.5 5 VA	A	3NJ69 40-3BL12	1	1 unit	143 0.460
		600 A/1 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BL13	1	1 unit	143 0.460
		600 A/5 A Class 1 5 VA	A	3NJ69 40-3BL21	1	1 unit	143 0.460
		600 A/5 A Class 0.5 5 VA	A	3NJ69 40-3BL22	1	1 unit	143 0.460
		600 A/5 A Class 0.5 calibrated 5 VA	D	3NJ69 40-3BL23	1	1 unit	143 0.460

* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SETRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses
Accessories






Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH 2, NH 3, BS B4 and BS 3T (continued)							
		Holders for ammeters For sizes 00, 1, 2, 3	A	3NJ69 00-4GA00	1	1 unit	143 0.040
Ammeters							
Moving-iron measuring instruments for measuring input on transformer x/1A with double overload							
		300 A/1 A 0.6 VA	A	3NJ69 00-4HH11	1	1 unit	143 0.100
		400 A/1 A 0.6 VA	A	3NJ69 00-4HJ11	1	1 unit	143 0.100
		500 A/1 A 0.6 VA	A	3NJ69 00-4HK11	1	1 unit	143 0.100
		600 A/1 A 0.6 VA	A	3NJ69 00-4HL11	1	1 unit	143 0.100
Moving-iron measuring instruments for measuring input on transformer x/5A with double overload							
		300 A/5 A 0.6 VA	A	3NJ69 00-4HH21	1	1 unit	143 0.100
		400 A/5 A 0.6 VA	A	3NJ69 00-4HJ21	1	1 unit	143 0.100
		500 A/5 A 0.6 VA	A	3NJ69 00-4HK21	1	1 unit	143 0.100
		600 A/5 A 0.6 VA	A	3NJ69 00-4HL21	1	1 unit	143 0.100
Bi-metal measuring instruments for measuring input on transformer x/1A with 1.2-times the overload							
		300 A/1 A 1 VA	A	3NJ69 00-4HH12	1	1 unit	143 0.100
		400 A/1 A 1 VA	A	3NJ69 00-4HJ12	1	1 unit	143 0.100
		500 A/1 A 1 VA	A	3NJ69 00-4HK12	1	1 unit	143 0.100
		600 A/1 A 1 VA	A	3NJ69 00-4HL12	1	1 unit	143 0.100
Bi-metal measuring instruments for measuring input on transformer x/5A with 1.2-times the overload							
		300 A/5 A 1 VA	A	3NJ69 00-4HH22	1	1 unit	143 0.100
		400 A/5 A 1 VA	A	3NJ69 00-4HJ22	1	1 unit	143 0.100
		500 A/5 A 1 VA	A	3NJ69 00-4HK22	1	1 unit	143 0.100
		600 A/5 A 1 VA	A	3NJ69 00-4HL22	1	1 unit	143 0.100
Multi-function plugs							
		8 x 2.5 mm ² , with fixing screws	A	3NJ69 40-3EC00	1	1 unit	143 0.147
		8 x 2.5 mm ² , without fixing screws	A	3NJ69 40-3ED00	1	1 unit	143 0.147
		12 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws	A	3NJ69 40-3EF00	1	1 unit	143 0.170
							
							
Front panel							
		For NH: 3NJ62 23-1AA... and 3NJ62 23-3AA... without/with EFM	A	3NJ69 43-4BB00	1	1 unit	143 0.700
		For BS: 3NJ62 23-1AA... and 3NJ62 23-3AA... without/with EFM	A	3NJ69 43-4BC00	1	1 unit	143 0.700
		For NH: 3NJ62 33-1AA... and 3NJ62 33-3AA... without/with EFM	A	3NJ69 53-4BB00	1	1 unit	143 0.700
		For BS: 3NJ62 33-1AA... and 3NJ62 33-3AA... without/with EFM	A	3NJ69 53-4BC00	1	1 unit	143 0.700

* You can order this quantity or a multiple thereof.

Switch Disconnectors with Fuses

SENTRON 3NJ6 In-Line Switch Disconnectors with Fuses up to 630 A

3NJ62 switch disconnectors with fuses Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Common accessories							
	Busbar covers Mounting height 200 mm, IP20	A	3NJ69 16-4EA00	1	1 unit	113	0.472
3NJ69 16-4EA00							
	Blanking covers Mounting height 50 mm, IP41	A	3NJ69 00-4CB00	1	1 unit	143	0.800
3NJ69 00-4CB00							
	Connection modules For power takeoff from field distribution bus up to 400 A	A	3NJ69 15-3BA00	1	1 unit	113	1.524
3NJ69 15-3BA00							
	Guide rails Depth 200 mm (1 x left and 1 x right)	C	3NJ69 00-4FB00	1	1 unit	143	1.300
3NJ69 00-4FB00	Depth 400 mm (1 x left and 1 x right)	C	3NJ69 00-4FC00	1	1 unit	143	1.800
							
3NJ69 00-4FC00							
	NH fuse puller tongs						
	For NH00	C	XPT:8PT9624	1	1 unit	195	0.497
	For NH1, 2, 3	C	XPT:8PT9625	1	1 unit	195	0.505

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – General data

Overview

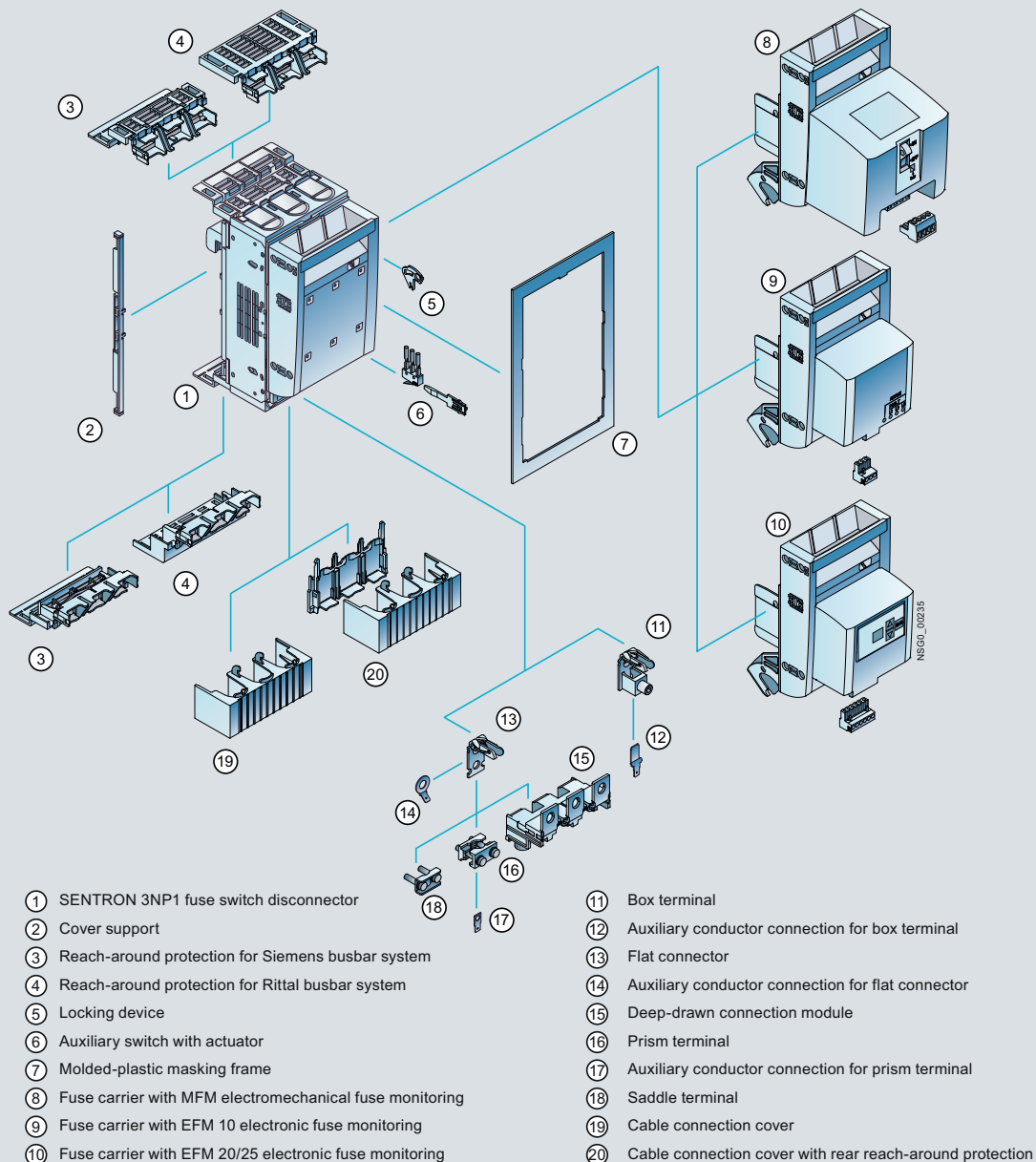


3NP1 Fuse Switch Disconnectors

All key product features at a glance

- Box terminals available for all sizes
- Connection of circular conductors and laminated conductors
- Fuse monitoring possible throughout
- Busbar supports can be built over
- Conversion of 5/10 mm thick busbars without parts which can be lost or broken off
- Convertibility of cable feeder at top/bottom without intervention in the internal conducting paths
- Optimum integration in various system environments through cover levels and on busbar systems with/without base
- Touch protection also with rear incoming unit
- Fuses are removed using a release shaft without the fuses being touched
- All units can be sealed and locked

Overview of components and accessory parts



Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – General data

Benefits

Advantages during planning and configuration

- Low level of equipment variance through easy convertibility of cable feeder at top/bottom (delivered from factory with cable feeder at bottom).
- Only one device variant for applications in industry and infrastructure thanks to touch and reach-around protection as a standard feature.
- Uniform grid sizes for easy configuration.

Advantages during operation and service

- The optional rear covers for the cable connections guarantee optimum touch protection even for distribution boards with access from the rear.
- Innovative design enables the highest safety for equipment and personnel.
- Fuses can be released and removed using a release shaft.
- Lockable and sealable design enables safe working and prevents unauthorized access.

Advantages during installation

- Only one device variant is required for cable feeders at top/bottom and there is no need to intervene in the internal conducting paths.
- One device variant with very high short-circuit values dispenses with having to order and install arc splitters to increase the electrical values.
- On all sizes it is possible to install two CO contacts for indicating the switch position.
- All devices feature all-round touch protection.
- Box terminals are available for all sizes and shorten the mounting time appreciably.
- Snapping on the sizes NH000 and NH00 shortens the mounting time greatly compared to fixing with screws.
- The screw-fixing method on sizes NH1, NH2 and NH3 provides for easy positioning and at the same time secure contacting of the larger and heavier device variants.
- Small space requirement through compact devices and busbar supports which can be built over.
- Device variants for busbar mounting can be converted to 5 mm or 10 mm thick busbars without parts which can be lost or broken off.

Application

Possible uses

3NP1 fuse switch disconnectors can be used for protecting and switching the most diverse electrical loads:

- Motor starter combinations
- In conjunction with SITOR fuses for the protection of frequency converters and soft starters
- Protection of compensation modules
- Cable feeders
- Group fusing of small loads

The devices are optimized for operation in all kinds of system environments:

- Low-voltage switchboards for power distribution and MCCs (e. g. main and sub-distribution boards)
- Distribution systems with cover levels of 32 and 70 mm or 45 and 70 mm
- Mechanical engineering
- Railway applications

Fuse monitors are used to detect, indicate and report faults:

- MFM – electromechanical fuse monitoring for AC/DC networks
- EFM 10 – electronic fuse monitoring for AC networks
- EFM 20 – electronic fuse monitoring with line monitoring for AC networks
- EFM 25 – electronic fuse monitoring with line monitoring for DC networks

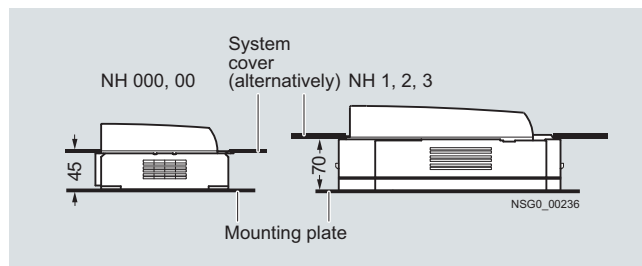
Standards and specifications

The 3NP1 fuse switch disconnectors are compliant with:

- IEC 60947-1, EN 60947-1
- IEC 60947-3, EN 60947-3

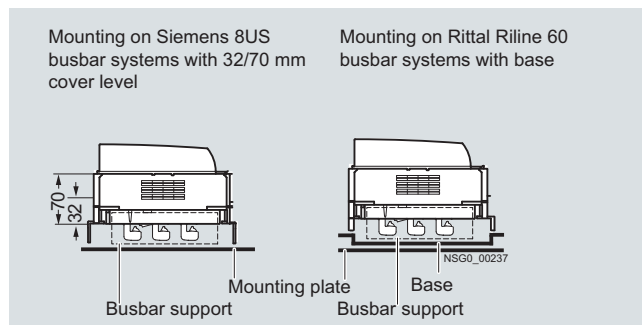
Mounting

Floor mounting



3NP1 fuse switch disconnector for floor mounting

Busbar mounting



3NP1 fuse switch disconnector for busbar mounting

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – General data

More information

Standards		IEC/EN 60439-1				
Type		3NP1 123...	3NP1 133...	3NP1 143...	3NP1 153...	3NP1 163...
Rated uninterrupted current I_u	A	160	160	250	400	630
For fuse links acc. to IEC 60269-1	Size	000	00 and 000	1 and 0	2 and 1	3 and 2
Conventional free-air thermal current I_{th}	A	160	160	250	400	630
Rated operational voltage U_e						
AC 50 Hz/60 Hz	V	690	690	690	690	690
DC (3 conducting paths series-connected)	V	440	440	440	440	440
DC (2 conducting paths series-connected)	V	220/240	220/240	220/240	220/240	220/240
Rated insulation voltage $U_i^{1)}$	V	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8	8
Rated conditional short-circuit current with fuses	Size/A	000 / 160	00 / 160	1 / 250	2 / 400	3 / 630
Rated current at 500 V / 690 V AC	kA	80	80	80	80	50
Permissible let-through current of the fuses, peak value	kA	10	15	25	40	50
Short-circuit strength with fuses	Size/A	000 / 160	00 / 160	1 / 250	2 / 400	3 / 630
Rated current at 500 V / 690 V, rms value	kA	120	120	120	100	100
Let-through I^2t value	kA ² s	56	158	780	2150	5400
Permissible let-through current of the fuses, peak value	kA	15	23	32	40	60
Rated switching capacity at 500 V AC	kA	2	6	17	17	17
Rated making and breaking capacity						
• At AC-21B, 22B, 23B	400 V AC A	160	160	250	400	630
• At AC-21B	500 V AC A	160	160	250	400	630
• At AC-22B	500 V AC A	125	160	250	400	630
• At AC-23B	500 V AC A	40	63	200	315	500
• At AC-21 B	690 V AC A	160	160	250	400	630
• At AC-22B	690 V AC A	50	125	250	400	500
• At AC-23B	690 V AC A	25	35	100	125	200
• At DC-21B	240 V DC A	160	160	250	400	630
• At DC-22B	240 V DC A	100	160	250	400	630
• At DC-23B	240 V DC A	80	100	200	250	400
• At DC-21B	440 V DC A	100	160	250	400	630
• At DC-22B	440 V DC A	50	125	200	315	500
• At DC-23B	440 V DC A	25	63	100	160	250
Capacitor switching capacity						
At 400 V AC						
• Capacitor rating	kvar	50	50	50	50	50
• Rated current I_N	A	72	72	72	72	72
At 525 V AC						
• Capacitor rating	kvar	50	50	50	50	50
• Rated current I_N	A	55	55	55	55	55
Permissible ambient temperature²⁾	°C	-25 ... +55 for operation, -50 ... +80 during storage				
Mechanical endurance, operating cycles		2000	2000	1600	1000	1000
Degree of protection (operator side)						
Without molded-plastic masking frame/cable lug cover		IP30 (switch closed) / IP20 (switch open)				
With molded-plastic masking frame/cable lug cover		IP40 (switch closed) / IP20 (switch open)				
Power loss of the switch at I_{th} (plus fuses)	W	9	12	23	34	48
Max. conductor cross-section of main conductor connection						
Flat connectors	mm ²	--	Up to 95 (M8)	Up to 150 (M10)	Up to 240 (M10)	Up to 300 (M10)
Box terminals	mm ²	1.5 ... 50	6 ... 70	70 ... 185	120 ... 240	150 ... 300
Prism terminal	mm ²	--	16 ... 95	70 ... 150	120 ... 240	150 ... 300
Saddle terminal	mm ²	--	1.5 ... 70	70 ... 150	120 ... 240	150 ... 300
Laminated conductors in box terminal	mm	8 x 8	9 x 8	10 x 20	10 x 32	10 x 32
Rated operational current of auxiliary switch						
3NP19.3-1FA00 auxiliary switch	A	0.25 ($I_{th} = 5$ A)				
3NP19.3-1FB00 auxiliary switch	A	0.1 ($I_{th} = 0.1$ A)				
Permissible mounting positions		Vertical and horizontal (no derating)				

¹⁾ Up to degree of pollution 2, above this $U_i = 690$ V

²⁾ Only with isolating links; otherwise, please observe specifications of fuse manufacturer.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Floor mounting

Selection and ordering data

Rated current I_U	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg
For 45 mm cover level								
<i>Basic units</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1CA10		1	1 unit	143	0.730
Box terminals								
160	000	A	3NP1 123-1CA20		1	1 unit	143	0.470
160	00 / 000	A	3NP1 133-1CA20		1	1 unit	143	0.730
<i>With MFM electromechanical fuse monitoring</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1CA11		1	1 unit	143	1.170
Box terminals								
160	00 / 000	A	3NP1 133-1CA21		1	1 unit	143	1.170
<i>With electronic EFM 10 fuse monitoring</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1CA12		1	1 unit	143	0.870
Box terminals								
160	000	A	3NP1 123-1CA22		1	1 unit	143	0.590
160	00 / 000	A	3NP1 133-1CA22		1	1 unit	143	0.870
<i>With electronic EFM 20 fuse monitoring and line monitoring</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1CA13		1	1 unit	143	0.870
Box terminals								
160	000	A	3NP1 123-1CA23		1	1 unit	143	0.590
160	00 / 000	A	3NP1 133-1CA23		1	1 unit	143	0.870



3NP133-1CA20



3NP1 133-1CA21



3NP1 133-1CA22



3NP1 133-1CA23

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Floor mounting

Rated current I_u	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg

For 70 mm cover level

Basic units

Flat connectors

250	1 and 0	A	3NP1 143-1DA10		1	1 unit	143	2.190
400	2 and 1	A	3NP1 153-1DA10		1	1 unit	143	4.210
630	3 and 2	A	3NP1 163-1DA10		1	1 unit	143	6.310

Box terminals

250	1 and 0	A	3NP1 143-1DA20		1	1 unit	143	2.190
400	2 and 1	A	3NP1 153-1DA20		1	1 unit	143	4.660
630	3 and 2	A	3NP1 163-1DA20		1	1 unit	143	6.730



3NP1 143-1DA20

With MFM electromechanical fuse monitoring

Flat connectors

250	1 and 0	A	3NP1 143-1DA11		1	1 unit	143	2.630
400	2 and 1	A	3NP1 153-1DA11		1	1 unit	143	4.650
630	3 and 2	A	3NP1 163-1DA11		1	1 unit	143	6.750

Box terminals

250	1 and 0	A	3NP1 143-1DA21		1	1 unit	143	2.630
400	2 and 1	A	3NP1 153-1DA21		1	1 unit	143	5.100
630	3 and 2	▶	3NP1 163-1DA21		1	1 unit	143	7.170



3NP1 143-1DA21

With electronic EFM 10 fuse monitoring

Flat connectors

250	1 and 0	A	3NP1 143-1DA12		1	1 unit	143	2.330
400	2 and 1	A	3NP1 153-1DA12		1	1 unit	143	4.350
630	3 and 2	A	3NP1 163-1DA12		1	1 unit	143	6.450

Box terminals

250	1 and 0	A	3NP1 143-1DA22		1	1 unit	143	2.330
400	2 and 1	A	3NP1 153-1DA22		1	1 unit	143	4.800
630	3 and 2	A	3NP1 163-1DA22		1	1 unit	143	6.870



3NP1 143-1DA22

With electronic EFM 20 fuse monitoring and line monitoring

Flat connectors

250	1 and 0	A	3NP1 143-1DA13		1	1 unit	143	2.330
400	2 and 1	A	3NP1 153-1DA13		1	1 unit	143	4.350
630	3 and 2	A	3NP1 163-1DA13		1	1 unit	143	6.450

Box terminals

250	1 and 0	A	3NP1 143-1DA23		1	1 unit	143	2.330
400	2 and 1	A	3NP1 153-1DA23		1	1 unit	143	4.800
630	3 and 2	A	3NP1 163-1DA23		1	1 unit	143	6.870



3NP1 143-1DA23

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – For 40 mm busbar system

Selection and ordering data

Rated current I_n	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg
For cover level 32/70 mm, with reach-around protection for 8US busbar system and Rittal system without base								
<i>Basic units</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1BB10		1	1 unit	143	0.980
Box terminals								
160	000	A	3NP1 123-1BB20		1	1 unit	143	0.820
160	00 / 000	A	3NP1 133-1BB20		1	1 unit	143	0.980
<i>With MFM electromechanical fuse monitoring</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1BB11		1	1 unit	143	1.420
Box terminals								
160	00/000	A	3NP1 133-1BB21		1	1 unit	143	1.420
<i>With electronic EFM 10 fuse monitoring</i>								
Flat connectors								
160	00 / 000	A	3NP1 133-1BB12		1	1 unit	143	1.120
Box terminals								
160	000	A	3NP1 123-1BB22		1	1 unit	143	0.940
160	00 / 000	A	3NP1 133-1BB22		1	1 unit	143	1.120
<i>With electronic EFM 20 fuse monitoring and line monitoring</i>								
Flat connectors								
160	00 / 000	C	3NP1 133-1BB13		1	1 unit	143	1.120
Box terminals								
160	000	C	3NP1 123-1BB23		1	1 unit	143	0.940
160	00 / 000	C	3NP1 133-1BB23		1	1 unit	143	1.120

Note:

Delivered from factory with cable feeder at bottom and convertible by the customer.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – For 40 mm busbar system

Rated current I_u	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg

For Rittal system with base

Basic units

Flat connectors

160 00 / 000

A **3NP1 133-1JB10**

1 1 unit 143 0.980

Box terminals

160 000

A **3NP1 123-1JB20**

1 1 unit 143 0.820

160 00 / 000

A **3NP1 133-1JB20**

1 1 unit 143 0.980



3NP1 133-1JB20

With MFM electromechanical fuse monitoring

Flat connectors

160 00 / 000

C **3NP1 133-1JB11**

1 1 unit 143 1.420

Box terminals

160 00 / 000

C **3NP1 133-1JB21**

1 1 unit 143 1.420



3NP1 133-1JB21

With electronic EFM 10 fuse monitoring

Flat connectors

160 00 / 000

C **3NP1 133-1JB12**

1 1 unit 143 1.120

Box terminals

160 000

C **3NP1 123-1JB22**

1 1 unit 143 0.940

160 00 / 000

C **3NP1 133-1JB22**

1 1 unit 143 1.120



3NP1 133-1JB22

With electronic EFM 20 fuse monitoring and line monitoring

Flat connectors

160 00 / 000

C **3NP1 133-1JB13**

1 1 unit 143 1.120

Box terminals

160 000

C **3NP1 123-1JB23**

1 1 unit 143 0.940

160 00 / 000

C **3NP1 133-1JB23**

1 1 unit 143 1.120



3NP1 133-1JB23

Note:





Delivered from factory with cable feeder at bottom and convertible by the customer.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – For 60 mm busbar system

Selection and ordering data

Rated current I_n	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg
For cover level 32/70 mm, with reach-around protection for 8US busbar system and Rittal Riline60 system without base								
<i>Basic units</i>								
Flat connectors								
	160	00 / 000	A	3NP1 133-1BC10	1	1 unit	143	0.980
	250	1 and 0	A	3NP1 143-1BC10	1	1 unit	143	2.850
	400	2 and 1	A	3NP1 153-1BC10	1	1 unit	143	4.760
	630	3 and 2	A	3NP1 163-1BC10	1	1 unit	143	6.840
Box terminals								
	160	000	A	3NP1 123-1BC20	1	1 unit	143	0.820
3NP1 133-1BC20	160	00 / 000	A	3NP1 133-1BC20	1	1 unit	143	0.980
	250	1 and 0	A	3NP1 143-1BC20	1	1 unit	143	2.850
	400	2 and 1	A	3NP1 153-1BC20	1	1 unit	143	4.990
	630	3 and 2	A	3NP1 163-1BC20	1	1 unit	143	7.040
<i>With MFM electromechanical fuse monitoring</i>								
Flat connectors								
	160	00 / 000	A	3NP1 133-1BC11	1	1 unit	143	1.420
	250	1 and 0	A	3NP1 143-1BC11	1	1 unit	143	3.290
	400	2 and 1	A	3NP1 153-1BC11	1	1 unit	143	5.200
	630	3 and 2	A	3NP1 163-1BC11	1	1 unit	143	7.280
Box terminals								
	160	00 / 000	A	3NP1 133-1BC21	1	1 unit	143	1.420
3NP1 133-1BC21	250	1 and 0	A	3NP1 143-1BC21	1	1 unit	143	3.290
	400	2 and 1	A	3NP1 153-1BC21	1	1 unit	143	5.430
	630	3 and 2	A	3NP1 163-1BC21	1	1 unit	143	7.480
<i>With electronic EFM 10 fuse monitoring</i>								
Flat connectors								
	160	00 / 000	A	3NP1 133-1BC12	1	1 unit	143	1.120
	250	1 and 0	A	3NP1 143-1BC12	1	1 unit	143	2.990
	400	2 and 1	A	3NP1 153-1BC12	1	1 unit	143	4.900
	630	3 and 2	A	3NP1 163-1BC12	1	1 unit	143	6.980
Box terminals								
	160	000	A	3NP1 123-1BC22	1	1 unit	143	0.940
3NP1 133-1BC22	160	00 / 000	A	3NP1 133-1BC22	1	1 unit	143	1.120
	250	1 and 0	A	3NP1 143-1BC22	1	1 unit	143	2.990
	400	2 and 1	A	3NP1 153-1BC22	1	1 unit	143	5.130
	630	3 and 2	A	3NP1 163-1BC22	1	1 unit	143	7.180
<i>With electronic EFM 20 fuse monitoring and line monitoring</i>								
Flat connectors								
	160	00 / 000	C	3NP1 133-1BC13	1	1 unit	143	1.120
	250	1 and 0	C	3NP1 143-1BC13	1	1 unit	143	2.990
	400	2 and 1	C	3NP1 153-1BC13	1	1 unit	143	4.900
	630	3 and 2	C	3NP1 163-1BC13	1	1 unit	143	6.980
Box terminals								
	160	000	C	3NP1 123-1BC23	1	1 unit	143	0.940
3NP1 133-1BC23	160	00 / 000	C	3NP1 133-1BC23	1	1 unit	143	1.120
	250	1 and 0	C	3NP1 143-1BC23	1	1 unit	143	2.990
	400	2 and 1	C	3NP1 153-1BC23	1	1 unit	143	5.130
	630	3 and 2	C	3NP1 163-1BC23	1	1 unit	143	7.180

Note:

Delivered from factory with cable feeder at bottom and convertible by the customer.

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – For 60 mm busbar system

Rated current I_u	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg

For Rittal Riline60 system with base

Basic units

Flat connectors

160	00 / 000	A	3NP1 133-1JC10		1	1 unit	143	0.980
250	1 and 0	A	3NP1 143-1JC10		1	1 unit	143	2.850
400	2 and 1	A	3NP1 153-1JC10		1	1 unit	143	4.760
630	3 and 2	A	3NP1 163-1JC10		1	1 unit	143	6.840

Box terminals

160	000	A	3NP1 123-1JC20		1	1 unit	143	0.820
160	00 / 000	A	3NP1 133-1JC20		1	1 unit	143	0.980
250	1 and 0	A	3NP1 143-1JC20		1	1 unit	143	2.850
400	2 and 1	A	3NP1 153-1JC20		1	1 unit	143	4.990
630	3 and 2	A	3NP1 163-1JC20		1	1 unit	143	7.040



3NP1 133-1JC20

With MFM electromechanical fuse monitoring

Flat connectors

160	00 / 000	C	3NP1 133-1JC11		1	1 unit	143	1.420
250	1 and 0	C	3NP1 143-1JC11		1	1 unit	143	3.290
400	2 and 1	C	3NP1 153-1JC11		1	1 unit	143	5.200
630	3 and 2	C	3NP1 163-1JC11		1	1 unit	143	7.280

Box terminals

160	00 / 000	C	3NP1 133-1JC21		1	1 unit	143	1.420
250	1 and 0	C	3NP1 143-1JC21		1	1 unit	143	3.290
400	2 and 1	C	3NP1 153-1JC21		1	1 unit	143	5.430
630	3 and 2	C	3NP1 163-1JC21		1	1 unit	143	7.480



3NP1 133-1JC21

With electronic EFM 10 fuse monitoring

Flat connectors

160	00 / 000	C	3NP1 133-1JC12		1	1 unit	143	1.120
250	1 and 0	C	3NP1 143-1JC12		1	1 unit	143	2.990
400	2 and 1	C	3NP1 153-1JC12		1	1 unit	143	4.900
630	3 and 2	C	3NP1 163-1JC12		1	1 unit	143	6.980

Box terminals

160	000	C	3NP1 123-1JC22		1	1 unit	143	0.940
160	00 / 000	C	3NP1 133-1JC22		1	1 unit	143	1.120
250	1 and 0	C	3NP1 143-1JC22		1	1 unit	143	2.990
400	2 and 1	C	3NP1 153-1JC22		1	1 unit	143	5.130
630	3 and 2	C	3NP1 163-1JC22		1	1 unit	143	7.180



3NP1 133-1JC22

With electronic EFM 20 fuse monitoring and line monitoring

Flat connectors

160	00 / 000	C	3NP1 133-1JC13		1	1 unit	143	1.120
250	1 and 0	C	3NP1 143-1JC13		1	1 unit	143	2.990
400	2 and 1	C	3NP1 153-1JC13		1	1 unit	143	4.900
630	3 and 2	C	3NP1 163-1JC13		1	1 unit	143	6.980

Box terminals

160	000	C	3NP1 123-1JC23		1	1 unit	143	0.940
160	00 / 000	C	3NP1 133-1JC23		1	1 unit	143	1.120
250	1 and 0	C	3NP1 143-1JC23		1	1 unit	143	2.990
400	2 and 1	C	3NP1 153-1JC23		1	1 unit	143	5.130
630	3 and 2	C	3NP1 163-1JC23		1	1 unit	143	7.180



3NP1 133-1JC23

Note:






Delivered from factory with cable feeder at bottom and convertible by the customer.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Accessories







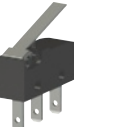

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH000							
<i>Connection methods</i>							
 3NP1 923-1BD00		Feeder terminals , 16 ... 95 mm ² (1 set = 3 units)	A	3NP1 923-1BD00	1	1 unit	143 0.097
 3NP1 923-1BE20		Three-tier terminals , 3 x 2.5 ... 16 mm ² for box terminal (1 set = 3 units)	A	3NP1 923-1BE20	1	1 unit	143 0.134
 3NP1 923-1BF10		Covering caps for 1 blank space on a three-phase busbar (1 set = 20 units)	A	3NP1 923-1BF10	1	1 unit	143 0.012
 3NP1 933-1BF30		Three-phase busbars $I_U = \text{max. } 225 \text{ A}$ (1 set = 5 units)					
	A	For 2 x NH000		3NP1 923-1BF20	1	1 unit	143 0.268
	A	For 3x NH000		3NP1 923-1BF30	1	1 unit	143 0.436
	A	For 4x NH000		3NP1 923-1BF40	1	1 unit	143 0.650
 3NP1 933-1BF50		Link rails , $I_U = \text{max. } 225 \text{ A}$ (1 set = 3 units) for three-phase busbars	A	3NP1 923-1BF50	1	1 unit	143 0.263
	A	Auxiliary conductor connection , 0.25 ... 1 mm ² (1 set = 3 units) for box terminal		3NP1 923-1BG40	1	1 unit	143 0.004

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
For size NH000 (continued)								
<i>Device covers, auxiliary switches</i>								
	Reach-around protection for busbar mounting (1x at top, 1x at bottom)							
		For system Siemens 8US	A	3NP1 923-1CA10	1	1 unit	143	0.048
3NP1 923-1CA10		For system Rittal	A	3NP1 923-1CA20	1	1 unit	143	0.053
	Cable connection covers							
		only for busbar systems 40 mm / 60 mm, top and bottom	A	3NP1 923-1CB00	1	1 unit	143	0.039
3NP1 923-1CB00								
	Cover supports							
		(1 set = 2 units)	A	3NP1 923-1CF00	1	1 unit	143	0.012
3NP1 923-1CF00								
	System covers							
		Dimensions (H x W) 215 x 130 mm	A	3NP1 923-1DA00	1	1 unit	143	0.049
3NP1 923-1DA00								
	Fixing kits							
		For 1 standard mounting rail	A	3NP1 923-1EA00	1	1 unit	143	0.009
3NP1 923-1EA00								
	Auxiliary switches							
		1 CO	A	3NP1 920-1FA00	1	1 unit	143	0.012
3NP1 920-1FA00		1 CO, solid-state compatible	A	3NP1 920-1FB00	1	1 unit	143	0.012
	Fuse carriers							
		Standard	A	3NP1 923-1GA00	1	1 unit	143	0.124
		With electronic EFM 10 fuse monitoring	A	3NP1 923-1GB20	1	1 unit	143	0.551
		With electronic EFM 20 fuse monitoring and line monitoring	A	3NP1 923-1GB30	1	1 unit	143	0.573
		With electronic EFM 25 fuse monitoring and line monitoring	A	3NP1 923-1GB50	1	1 unit	143	0.573
3NP1 923-1GA00								
	Locking devices							
		(1 set = 10 units)	A	3NP1 900-1HA00	1	1 unit	143	0.006
3NP1 900-1HA00								

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A


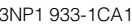





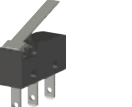

3NP1 for industrial applications,
power distribution – Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH00							
<i>Connection methods</i>							
 3NP1 933-1BA00		Saddle terminals , 1.5 ... 70 mm ² for flat connector (1 set = 3 units)	A	3NP1 933-1BA00	1	1 unit	143 0.081
 3NP1 933-1BB10		Prism terminals single, 16 ... 95 mm ² for flat connector (1 set = 3 units)	A	3NP1 933-1BB10	1	1 unit	143 0.121
 3NP1 933-1BC00		Connection modules , 6 ... 70 mm ² for flat connector for 32 mm cover level with box terminal	A	3NP1 933-1BC00	1	1 unit	143 0.145
 3NP1 933-1BE10		Three-tier terminals , 3 x 2.5 ... 16 mm ² for flat connector (1 set = 3 units)	A	3NP1 933-1BE10	1	1 unit	143 0.087
 3NP1 923-1BE20		Three-tier terminals , 3 x 2.5 ... 16 mm ² for box terminal (1 set = 3 units)	A	3NP1 923-1BE20	1	1 unit	143 0.134
 3NP1 933-1BG10		Auxiliary conductor connection , 0.25 ... 1 mm ² for flat connector (1 set = 3 units)	A	3NP1 933-1BG10	1	1 unit	143 0.006
 3NP1 933-1BG30		Auxiliary conductor connection , 0.25 ... 1 mm ² for prism terminal (1 set = 3 units)	A	3NP1 933-1BG30	1	1 unit	143 0.004
 3NP1 933-1BG40		Auxiliary conductor connection , 0.25 ... 1 mm ² for box terminal (1 set = 3 units)	A	3NP1 933-1BG40	1	1 unit	143 0.006

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
For size NH00 (continued)								
<i>Device covers, auxiliary switches</i>								
 3NP1 933-1CA10	Reach-around protection for busbar mounting (1x at top, 1x at bottom)							
		For system Siemens 8US	A	3NP1 933-1CA10	1	1 unit	143	0.058
 3NP1 933-1CA20	For system Rittal		A	3NP1 933-1CA20	1	1 unit	143	0.044
	Cable connection covers (at top and bottom)		A	3NP1 933-1CB00	1	1 unit	143	0.045
 3NP1 933-1CB00	Cable connection covers with rear reach-around protection in case of busbar mounting (at top and bottom)		A	3NP1 933-1CC00	1	1 unit	143	0.093
 3NP1 933-1CC00	Cable connection covers with rear reach-around protection in case of floor mounting (at top and bottom)		A	3NP1 933-1CD00	1	1 unit	143	0.079
 3NP1 933-1CD00	Cover supports (1 set = 2 units)		A	3NP1 933-1CF00	1	1 unit	143	0.012
 3NP1 933-1CF00	System covers							
		Dimensions (H x W) 215 x 130 mm	A	3NP1 933-1DA00	1	1 unit	143	0.024
 3NP1 933-1EB00	Fixing kits							
		For 2 standard mounting rails 125/150 mm	A	3NP1 933-1EB00	1	1 unit	143	0.009
 3NP1 930-1FB00	Auxiliary switches							
		1 CO	A	3NP1 930-1FA00	1	1 unit	143	0.012
		1 CO, solid-state compatible	A	3NP1 930-1FB00	1	1 unit	143	0.012
 3NP1 933-1GB10	Fuse carriers							
		Standard	A	3NP1 933-1GA00	1	1 unit	143	0.165
		With MFM electromechanical fuse monitoring	A	3NP1 933-1GB10	1	1 unit	143	1.293
		With electronic EFM 10 fuse monitoring	A	3NP1 933-1GB20	1	1 unit	143	0.589
		With electronic EFM 20 fuse monitoring and line monitoring	A	3NP1 933-1GB30	1	1 unit	143	0.611
	With electronic EFM 25 fuse monitoring and line monitoring	A	3NP1 933-1GB50	1	1 unit	143	0.611	
	Locking devices (1 set = 10 units)		A	3NP1 900-1HA00	1	1 unit	143	0.006

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A







3NP1 for industrial applications,
power distribution – Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH1							
<i>Connection methods</i>							
 3NP1 943-1BA00		Saddle terminals , 70 ... 150 mm ² for flat connector (1 set = 3 units)	A	3NP1 943-1BA00	1	1 unit	143 0.144
 3NP1 943-1BB10		Prism terminals single, 70 ... 150 mm ² for flat connector (1 set = 3 units)	A	3NP1 943-1BB10	1	1 unit	143 0.270
 3NP1 943-1BB20		Prism terminals double, 2 x 35 ... 70 mm ² for flat connector (1 set = 3 units)	A	3NP1 943-1BB20	1	1 unit	143 0.311
 3NP1 943-1BG10		Auxiliary conductor connection , 0.25 ... 1 mm ² for flat connector (1 set = 3 units)	A	3NP1 943-1BG10	1	1 unit	143 0.009
 3NP1 943-1BG30		Auxiliary conductor connections , 0.25 ... 1 mm ² For saddle-type or prism terminals (1 set = 3 units)	A	3NP1 943-1BG30	1	1 unit	143 0.004
 3NP1 943-1BG40		Auxiliary conductor connection , 0.25 ... 1 mm ² for box terminal (1 set = 3 units)	A	3NP1 943-1BG40	1	1 unit	143 0.014

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A











3NP1 for industrial applications,
power distribution – Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH1 (continued)							
<i>Device covers, auxiliary switches</i>							
							
3NP1 943-1CA10							
Reach-around protection for busbar mounting (1x at top, 1x at bottom)							
For system Siemens 8US	A	3NP1 943-1CA10		1	1 unit	143	0.024
For system Rittal	A	3NP1 943-1CA20		1	1 unit	143	0.034
Cable connection covers (at top and bottom)							
							
3NP1 943-1CB00							
	A	3NP1 943-1CB00		1	1 unit	143	0.172
Cable connection covers with rear reach-around protection (at top and bottom)							
							
3NP1 943-1CD00							
	A	3NP1 943-1CD00		1	1 unit	143	0.277
Cover supports (1 set = 2 units)							
							
3NP1 943-1CF00							
	A	3NP1 943-1CF00		1	1 unit	143	0.026
System covers							
Dimensions (H x W) 375 x 220 mm	A	3NP1 943-1DA00		1	1 unit	143	0.092
Fixing kits							
For 2 standard mounting rails 125/150 mm	A	3NP1 943-1EB00		1	1 unit	143	0.017
							
3NP1 943-1EB00							
Auxiliary switches							
1 CO	A	3NP1 940-1FA00		1	1 unit	143	0.018
1 CO, solid-state compatible	A	3NP1 940-1FB00		1	1 unit	143	0.018
							
3NP1 940-1FA00							
Fuse carriers							
Standard	A	3NP1 943-1GA00		1	1 unit	143	0.602
With MFM electromechanical fuse monitoring	A	3NP1 943-1GB10		1	1 unit	143	1.726
With electronic EFM 10 fuse monitoring	A	3NP1 943-1GB20		1	1 unit	143	1.022
With electronic EFM 20 fuse monitoring and line monitoring	A	3NP1 943-1GB30		1	1 unit	143	1.044
With electronic EFM 25 fuse monitoring and line monitoring	A	3NP1 943-1GB50		1	1 unit	143	1.044
							
3NP1 943-1GB20							
Locking devices							
(1 set = 10 units)	A	3NP1 900-1HA00		1	1 unit	143	0.006

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Accessories











Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH2							
<i>Connection methods</i>							
 3NP1 953-1BA00		Saddle terminals , 120 ... 240 mm ² for flat connector (1 set = 3 units)	A	3NP1 953-1BA00	1	1 unit	143 0.187
 3NP1 953-1BB10		Prism terminals single, 120 ... 240 mm ² for flat connector (1 set = 3 units)	A	3NP1 953-1BB10	1	1 unit	143 0.420
 3NP1 953-1BB20		Prism terminals double, 2 x 70 ... 120 mm ² for flat connector (1 set = 3 units)	A	3NP1 953-1BB20	1	1 unit	143 0.473
 3NP1 943-1BG10		Auxiliary conductor connection , 0.25 ... 1 mm ² , For flat connector (1 set = 3 units)	A	3NP1 943-1BG10	1	1 unit	143 0.009
 3NP1 953-1BG30		Auxiliary conductor connections , 0.25 ... 1 mm ² , For saddle-type or prism terminal (1 set = 3 units)	A	3NP1 953-1BG30	1	1 unit	143 0.006
 3NP1 953-1BG40		Auxiliary conductor connection , 0.25 ... 1 mm ² , for box terminal (1 set = 3 units)	A	3NP1 953-1BG40	1	1 unit	143 0.029
<i>Device covers, auxiliary switches</i>							
 3NP1 953-1CA10		Reach-around protection for busbar mounting (1x at top, 1x at bottom) For system Siemens 8US	A	3NP1 953-1CA10	1	1 unit	143 0.028
		For system Rittal	A	3NP1 953-1CA20	1	1 unit	143 0.038
 3NP1 953-1CB00		Cable connection covers (at top and bottom)	A	3NP1 953-1CB00	1	1 unit	143 0.242
		Cable connection covers with rear reach-around protection (at top and bottom)	A	3NP1 953-1CD00	1	1 unit	143 0.362
		Cover supports (1 set = 2 units)	A	3NP1 943-1CF00	1	1 unit	143 0.026
		System covers Dimensions (H x W) 375 x 245 mm	A	3NP1 953-1DA00	1	1 unit	143 0.097
		Auxiliary switches 1 CO	A	3NP1 940-1FA00	1	1 unit	143 0.018
 3NP1 940-1FA00		1 CO, solid-state compatible	A	3NP1 940-1FB00	1	1 unit	143 0.018
		Fuse carriers Standard	A	3NP1 953-1GA00	1	1 unit	143 0.754
		With MFM electromechanical fuse monitoring	A	3NP1 953-1GB10	1	1 unit	143 1.797
		With electronic EFM 10 fuse monitoring	A	3NP1 953-1GB20	1	1 unit	143 1.093
		With electronic EFM 20 fuse monitoring and line monitoring	A	3NP1 953-1GB30	1	1 unit	143 1.115
 3NP1 953-1GB30		With electronic EFM 25 fuse monitoring and line monitoring	A	3NP1 953-1GB50	1	1 unit	143 1.115
		Locking devices (1 set = 10 units)	A	3NP1 900-1HA00	1	1 unit	143 0.006

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP1 for industrial applications,
power distribution – Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For size NH3							
<i>Connection methods</i>							
 3NP1 963-1BA00		Saddle terminals , 150 ... 300 mm ² for flat connector (1 set = 3 units)	A	3NP1 963-1BA00	1	1 unit	143 0.210
 3NP1 963-1BB10		Prism terminals single, 150 ... 300 mm ² for flat connector (1 set = 3 units)	A	3NP1 963-1BB10	1	1 unit	143 0.643
 3NP1 963-1BB20		Prism terminals double, 2 x 150 ... 185 mm ² For flat connector (1 set = 3 units)	A	3NP1 963-1BB20	1	1 unit	143 0.681
 3NP1 943-1BG10		Auxiliary conductor connection , 0.25 ... 1 mm ² For flat connector (1 set = 3 units)	A	3NP1 943-1BG10	1	1 unit	143 0.009
 3NP1 953-1BG30		Auxiliary conductor connection , 0.25 ... 1 mm ² For saddle-type or prism terminals (1 set = 3 units)	A	3NP1 953-1BG30	1	1 unit	143 0.006
 3NP1 953-1BG40		Auxiliary conductor connection , 0.25 ... 1 mm ² for box terminal (1 set = 3 units)	A	3NP1 953-1BG40	1	1 unit	143 0.029
<i>Device covers, auxiliary switches</i>							
 3NP1 963-1CA10		Reach-around protection for busbar mounting (1x at top, 1x at bottom) For system Siemens 8US	A	3NP1 963-1CA10	1	1 unit	143 0.032
		For system Rittal	A	3NP1 963-1CA20	1	1 unit	143 0.043
 3NP1 963-1CB00		Cable connection covers (at top and bottom) Cable connection cover With rear reach-around protection (at top and bottom)	A	3NP1 963-1CB00	1	1 unit	143 0.269
			A	3NP1 963-1CD00	1	1 unit	143 0.411
		Cover supports (1 set = 2 units)	A	3NP1 943-1CF00	1	1 unit	143 0.026
System covers							
		Dimensions (H x W) 375 x 290 mm	A	3NP1 963-1DA00	1	1 unit	143 0.116
Auxiliary switches							
 3NP1 940-1FA00		1 CO	A	3NP1 940-1FA00	1	1 unit	143 0.018
		1 CO, solid-state compatible	A	3NP1 940-1FB00	1	1 unit	143 0.018
Fuse carriers							
 3NP1 963-1GB50		Standard	A	3NP1 963-1GA00	1	1 unit	143 0.825
		With MFM electromechanical fuse monitoring	A	3NP1 963-1GB10	1	1 unit	143 1.966
		With electronic EFM 10 fuse monitoring	A	3NP1 963-1GB20	1	1 unit	143 1.262
		With electronic EFM 20 fuse monitoring and line monitoring	A	3NP1 963-1GB30	1	1 unit	143 1.284
		With electronic EFM 25 fuse monitoring and line monitoring	A	3NP1 963-1GB50	1	1 unit	143 1.284
Locking devices							
		(1 set = 10 units)	A	3NP1 900-1HA00	1	1 unit	143 0.006

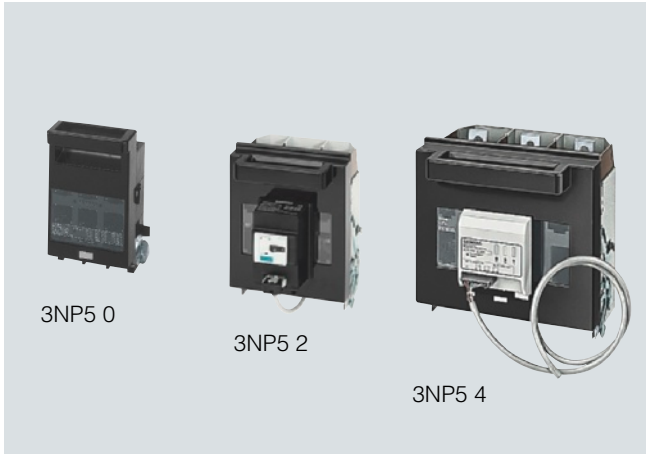
* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

3NP fuse switch disconnectors up to 630 A

3NP5 for extended technical requirements
General data

Overview



3NP5 fuse switch disconnector range

SENTRON 3NP5 fuse switch disconnectors are controls for the occasional manual switching/isolating of loads and distribution boards. They are able to switch on, lead and switch off the specified rated current (including a specific overload).

With the SENTRON 3NP5 fuse switch disconnectors, all poles of downstream electric loads can be safely disconnected from the system under load.

Application

The SENTRON 3NP5 fuse switch disconnectors are ideally suited for surface mounting and installation in distribution boards (e. g. ALPHA, SIKUS), meter cabinets (e. g. ALPHA 400-ZS), and molded-plastic distribution systems such as 8HP.

The possibility of mounting them onto a range of different busbar systems allows their very diverse implementation in switchgear cabinet and control engineering.

The SENTRON 3NP5 fuse switch disconnectors are ideal for operation in combination with other switching devices, for example in capacitor modules for reactive-power compensation.

In conjunction with semiconductor protection fuses (e. g. SITOR), these are used for the effective protection of frequency converters and soft starters.

The SENTRON 3NP5 fuse switch disconnectors are suitable for use in any climate and comply with standards IEC 60947-1, IEC 60947-3 and DIN VDE 0660 Part 107.

In addition, the SENTRON 3NP5 series of fuse switch disconnectors complies with the requirements of BS 5419 and is also approved for operation in marine applications.

All SENTRON 3NP5 fuse switch disconnectors can be sealed as standard (or can be sealed through accessories).

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
General data

More information

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107						
Type		3NP50	3NP52	3NP53	3NP54			
Rated uninterrupted current I_u	A	160	250	400	630			
For fuse links acc. to IEC 60269-1	Size	00	1 and 0	2 and 1	3 and 2			
Conventional free-air thermal current I_{th}	A	160	250	400	630			
Rated operational voltage U_e	V	690						
AC 50 Hz/60 Hz	V	440 (3 conducting paths series-connected), 220 (2 conducting paths series-connected and with fuse monitoring through 3RV)						
DC	V	690 ¹⁾						
Rated insulation voltage U_i	V	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾			
Rated impulse withstand voltage U_{imp}	kV	6	6	6	6			
Rated conditional short-circuit current with fuses (for fast switch-on)								
With fuse links								
Rated current	Size/A	00/160	1/250	2/400	3/630			
At 500 V AC (rms value)	kA	50	50	50	50			
Permissible let-through current of the fuses (peak value)	kA	15	25	40	50			
Short-circuit strength with fuses (with closed switch)								
With fuse links								
Rated current	Size/A	00/160	1/250	2/400	3/630			
At 500 V AC (rms value)	kA	100	100	50	50			
Maximum permissible let-through I^2t value	kA ² s	223	780	2150	5400			
Permissible let-through current of the fuses (peak value)	kA	23	32	40	60			
Rated short-circuit making capacity with isolating links²⁾	Size	00	1	2	3			
At 500 V AC (peak value)	kA	6	17	17	17			
Rated making and breaking capacity²⁾ (infeed from top or bottom ³⁾)								
Size		00	1	0	2	1	3	2
Breaking current I_c (p.f. = 0.35) at 400 V AC, with fuse links, rms value,	A	1600	2500	1600	4000	2500	5040	4000
Rated operational current I_e at AC-21B, AC-22B, AC-23B at 500 V AC, with fuse links	A	160	250	160	400	250	630	400
Breaking current I_c (p.f. = 0.35) (rms value)	A	1300	2500	1600	4000	2500	5040	4000
Rated operational current I_e at AC-21B, AC-22B, AC-23B at 690 V AC, with fuse links	A	160	250	160	400	250	630	400
Breaking current I_c (p.f. = 0.35) (rms value)	A	800	1280	1000	2520	1600	3200	2520
Rated operational current I_e at AC-21B, AC-22B	A	160	250	160	400	250	630	400
Rated operational current I_e at AC-23B	A	100	160	125	315	200	400	315
At 220 (440) V DC, with 2 (3) conducting paths series-connected and fuse links:								
• Breaking current I_c ($L/R = 15$ ms)	A	640	1000	640	1600	1600	2520	1600
• Rated operational current I_e at DC-23B	A	160	250	160	250	250	630	400
Capacitor switching capacity								
Capacitor rating at 400 V AC	kvar	80	90	150	250			
Rated current I_n at 525 V AC	A	116	130	216	361			
Capacitor rating	kvar	100	125	200	300			
Rated current I_n	A	110	137	220	330			
Permissible ambient temperature	°C	-25 ... +55 for operation ⁴⁾ , -50 ... +80 when stored						
Mechanical endurance , operating cycles		1600						
Degree of protection		IP00 ⁵⁾						
Without molded-plastic masking frame		IP30						
With molded-plastic masking frame with closed fuse carrier on the operator side		IP10						
With molded-plastic masking frame with open fuse carrier								
Power loss of the switch at I_{th} (without power loss of fuse links)								
Without busbar adapter	W	7.8 (16.3) ⁶⁾	7.5	15	39			
Main conductor connections								
Cable lug, max. conductor cross-section (stranded)	mm ²	2.5 ... 120	6 ... 150	6 ... 240	6 ... 240	6 ... 240	6 ... 240	6 ... 240
Busbar	mm	16 ... 22	22 ... 30	22 ... 30	22 ... 30	22 ... 30	22 ... 30	22 ... 30
Clamp terminals	mm ²	2.5 ... 50	35 ... 120	—	—	—	—	—
Auxiliary switch 1 NO + 1 NC (accessories)								
(the same voltage potential must be applied to both NO and NC contact)								
At AC 50 Hz/60 Hz to 400 V, rated operational current I_e at AC-12/AC-15 A	A	16/6						
Flat connector (DIN 46244)		A 6.3 ... 0.8						
Permissible mounting positions		Vertical or horizontal (partially reduced switching capacity with horizontal mounting)						
Signaling contact for solid-state fuse monitoring		2 NO + 1 NC						
Rated operational current I_e								
At 250 V, DC-13	A	0.27						
At 240 V, AC-15	A	1.5						
Thermal free-air rated current I_{th}	A	5						

¹⁾ When observing degree of pollution 2 (instead of 3) operation is also possible up to $U_i = 1000$ V.

²⁾ Rated making and breaking current according to IEC 60947-3
Rated making current
 $I = 10 \times I_e$ (AC-23); $3 \times I_e$ (AC-22); $1.5 \times I_e$ (AC-21)
Rated breaking current
 $I_e = 8 \times I_e$ (AC-23); $3 \times I_e$ (AC-22); $1.5 \times I_e$ (AC-21).

³⁾ When using electronic fuse monitoring, infeed must be from the top.

⁴⁾ When using isolating links. If using fuse links, please observe specifications of fuse manufacturer.

⁵⁾ For 3NP52 with terminal clamp connection, degree of protection IP10.

⁶⁾ With busbar adapter

Fuse Switch Disconnectors




SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
Floor mounting

Selection and ordering data

Rated uninter- rupted current I_u	Connection types (on both sides)		For LV HRC fuse links acc. to IEC 60269 1)	For isolat- ing links Size	Auxiliary switch on switch dis- connectors Version	DT	Degree of protection IP00, without fuse links, without isolating links, with termi- nal screws	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Conne- ction	For conduc- tor cross- section mm ²									

Completely compartmentalized, with high speed closing features

	160	Flat con- nectors ²⁾	2.5 ... 150 ³⁾	00 and 000	00	Without ⁴⁾ 1 NO + 1 NC	▶ B	3NP50 60-0CA00	1	1 unit	103	1.608
		Clamp terminals	1 conductor 2.5 ... 50 or 2 conduc- tors 1 × 2.5 ... 50 1 × 2.5 ... 35	00 and 000	00	Without ⁴⁾ 1 NO + 1 NC	A B	3NP50 60-0CB00 3NP50 60-0CB10	1 1	1 unit 1 unit	103 103	1.739 1.748
	250	Flat con- nectors	6 ... 150 ⁵⁾	1 and 0	1	Without 1 NO + 1 NC	▶ A	3NP52 60-0CA00 3NP52 60-0CA10	1 1	1 unit 1 unit	103 103	5.475 5.491
		Clamp terminals	35 ... 120	1 and 0	1	Without 1 NO + 1 NC	C B	3NP52 60-0CB00 3NP52 60-0CB10	1 1	1 unit 1 unit	103 103	5.605 5.814
	400	Flat con- nectors	6 ... 240 ⁵⁾	2 and 1	2	Without 1 NO + 1 NC	▶ A	3NP53 60-0CA00 3NP53 60-0CA10	1 1	1 unit 1 unit	103 103	6.532 6.551
		Flat con- nectors	6 ... 2 × 240 ⁵⁾	3 and 2	3	Without 1 NO + 1 NC	B	3NP54 60-0CA00 3NP54 60-0CA10	1 1	1 unit 1 unit	103 103	7.945 7.958

3NP54 60-0CA00

- 1) LV HRC fuse links, see Catalog ET B1.
- 2) For 3NP50 60 with flat connectors, appropriate 3NY1 106 cable lug covers must be used to provide finger-safe cover, according to DIN VDE 0106 Part 100 (see Accessories).
- 3) According to DIN 46234 or 16 mm² ... 95 mm² according to DIN 46235 (use M10 cable lug if necessary).
- 4) If auxiliary switch is retrofitted, additional drill holes are required on the switch.
- 5) According to DIN 46234 or DIN 46235; with cable lug to DIN 46235: Min. conductor cross-section 16 mm² (use M12 cable lug if necessary).

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
For 40 mm busbar system

Selection and ordering data

Rated uninterrupted current I_u	Connection types (on both sides)		For LV HRC fuse links acc. to DIN 43620 ¹⁾	For isolating links	Auxiliary switch on switch disconnectors	DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Connection	For conductor cross-section									
A		mm ²									kg

Completely compartmentalized, with high speed closing features²⁾

Busbars with a width of 12 mm and thickness of 5 mm or 10 mm

160	Flat connectors	2.5 ... 150 ³⁾ Connection at bottom	00 and 000	Without 1 NO + 1 NC	C	3NP50 65-1CF00	1	1 unit	103	2.380
					B					
	Clamp terminal	1 conductor 2.5 ... 50 or 2 conductors 1 × 2.5 ... 50 1 × 2.5 ... 35 Connection at bottom	00 and 000	Without 1 NO + 1 NC	B	3NP50 65-1CG00	1	1 unit	103	2.433
					B					

¹⁾ For LV HRC fuse links, see Catalog ET B1.

²⁾ For accessories and more devices on busbar systems, see "Accessories".

³⁾ According to DIN 46234 or 16 mm² ... 95 mm² according to DIN 46235 (use M cable lug if necessary).

3NP5 for extended technical requirements
For 60 mm busbar system

Overview

Note:

For switch versions "For installation in any distribution board" and busbar adapters see page 17/107.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
With fuse monitoring

Selection and ordering data





Fuse monitoring by circuit breaker

Floor mounting

Rated uninter- rupted current I_u	Connection types (on both sides)		For LV HRC fuse links acc. to DIN 43620 ¹⁾	Auxiliary switch		DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Con- nection	For conduc- tor cross- section mm ²		Onswitch discon- nector	On MSP/ circuit breaker						
A		Size	Version	Version		Order No.	Price per PU				

Completely compartmentalized, with high speed closing features with fuse monitoring by SIRIUS motor starter protector

With plug-in connection of the auxiliary switch connecting cable (length approx. 1 m) to the circuit breaker

	160	Flat con- nectors ²⁾	2.5 ... 150 ³⁾	00 and 000	1 NO + 1 NC	1 NO + 1 NC	▶	3NP50 60-0EA86	1	1 unit	103	2.484	
					1 NO + 1 NC	2 NO	B						3NP50 60-0EA26
		Clamp terminals	1 conductor 2.5 ... 50 2 conductor 1 × 2.5 ... 50 1 × 2.5 ... 35	00 and 000	00 and 000	1 NO + 1 NC	1 NO + 1 NC	B	3NP50 60-0EB86	1	1 unit	103	2.616
						1 NO + 1 NC	2 NO	B	3NP50 60-0EB26	1	1 unit	103	2.650
		250	Flat con- nectors	6 ... 150 ⁴⁾	1 and 0	1 NO + 1 NC	1 NO + 1 NC	▶	3NP52 60-0EA86	1	1 unit	103	6.014
						1 NO + 1 NC	2 NO	B					
		Clamp terminals	35 ... 120	1 and 0	1 and 0	1 NO + 1 NC	1 NO + 1 NC	B	3NP52 60-0EB86	1	1 unit	103	7.095
						1 NO + 1 NC	2 NO	B	3NP52 60-0EB26	1	1 unit	103	6.659
	400	Flat con- nectors	6 ... 240 ⁴⁾	2 and 1	1 NO + 1 NC	1 NO + 1 NC	▶	3NP53 60-0EA86	1	1 unit	103	7.083	
					1 NO + 1 NC	2 NO	B						3NP53 60-0EA26
	630	Flat con- nectors	6 ... 2 × 240 ⁴⁾	3 and 2	1 NO + 1 NC	1 NO + 1 NC	▶	3NP54 60-0EA86	1	1 unit	103	8.462	
					1 NO + 1 NC	2 NO	B						3NP54 60-0EA26

¹⁾ For LV HRC fuse links, see [Catalog ET B1](#).

²⁾ For 3NP50 60 with flat connectors, appropriate 3NY1 106 cable lug covers must be used to provide finger-safe cover, according to DIN VDE 0106 Part 100 (see [Accessories](#)).

³⁾ According to DIN 46234 or 16 mm² ... 95 mm² according to DIN 46235 (use M10 cable lug if necessary).

⁴⁾ According to DIN 46234 or DIN 46235, with cable lug to DIN 46235: Min. conductor cross-section 16 mm² (use M12 cable lug if necessary).

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
With fuse monitoring

For 40 mm busbar system

Rated uninterrupted current I_u	Connection types (on both sides)		For LV HRC fuse links acc. to DIN 43620 ¹⁾	Auxiliary switch		DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Connection	For conductor cross-section mm ²		On switch disconnector	On MSP/circuit breaker						
A		mm ²	Size	Version	Version						kg
Completely compartmentalized, with high speed closing features with fuse monitoring by SIRIUS motor starter protector²⁾											
Busbars with a width of 12 mm and thickness of 5 mm or 10 mm											
160	Flat connectors	2.5 ... 150 ³⁾	00 and 000	1 NO +	1 NO +	A	3NP50 65-1EF86	1	1 unit	103	2.908
				1 NC	1 NC	B	3NP50 65-1EF26	1	1 unit	103	2.950
	Clamp terminals	2.5 ... 50	00 and 000	1 NO +	1 NO +	B	3NP50 65-1EG86	1	1 unit	103	3.020
				1 NC	1 NC	C	3NP50 65-1EG26	1	1 unit	103	2.973
		2 conductor		1 NO +	2 NO						
		1×2.5 ... 50		1 NO +	2 NO						
		1×2.5 ... 35		1 NC							
		Connection at bottom									

1) LV HRC fuse links, see Catalog ET B1.

2) For accessories and more devices on busbar systems, see "Accessories" and "SENTRON 8US Busbar Systems".

3) According to DIN 46234 or 16 mm² ... 95 mm² according to DIN 46235 (use M10 cable lug if necessary).

For 60 mm busbar system

Note:

For switch versions "For installation in any distribution board" and busbar adapters see page 17/107.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
With fuse monitoring

Fuse monitoring by electronic fuse monitoring device

Floor mounting

Rated uninterrupted current I_u	Connection types (on both sides)		For LV HRC fuse links acc. to DIN 43620 ¹⁾	Auxiliary switch		DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Con- nection	For con- ductor cross- section		On switch dis- connector	On fuse monitor						
A	mm ²	Size	Version	Version		Order No.	Price per PU				kg

Completely compartmentalized, with high speed closing feature, with electronic fuse monitoring (self-powered), open-circuit principle

For rated operational voltages U_e from 400 V to 500 V AC, infeed must come from above!

With plug-in connection for connecting cables from auxiliary switches (approx. 1 m long) to the fuse monitoring device, status indicator: green LED illuminated, fault indication: green LED flashing, fuse failure: red LED (display per phase)



3NP50 60-0HA13

160	Flat connectors ²⁾	2.5 ... 120 ³⁾	00 and 000	1 NO + 1 NC	2 NO + 1 NC	B	3NP50 60-0HA13	1	1 unit	103	2.375
	Clamp terminals	1 conductor: 2.5 ... 50 2 conductors: 1x 2.5 ... 50 1x 2.5 ... 35	00 and 000	1 NO + 1 NC	2 NO + 1 NC	B	3NP50 60-0HB13	1	1 unit	103	2.500



3NP52 60-0HA13

250	Flat connectors	6 ... 150 ⁴⁾	1 and 0	1 NO + 1 NC	2 NO + 1 NC	B	3NP52 60-0HA13	1	1 unit	103	5.865
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3NP53 60-0HA13

400	Flat connectors	6 ... 240 ⁴⁾	2 and 1	1 NO + 1 NC	2 NO + 1 NC	B	3NP53 60-0HA13	1	1 unit	103	6.951
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3NP54 60-0HA13

630	Flat connectors	6 ... 240 ⁴⁾	3 and 2	1 NO + 1 NC	2 NO + 1 NC	B	3NP54 60-0HA13	1	1 unit	103	8.513
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¹⁾ For LV HRC fuse links, see [Catalog ET B1](#).

²⁾ For 3NP50 60 with flat connectors, appropriate 3NY1 106 cable lug covers must be used to provide finger-safe cover, according to DIN VDE 0106 Part 100 (see [Accessories](#)).

³⁾ According to DIN 46234 or 16 mm² ... 95 mm² according to DIN 46235 (use M10 cable lug if necessary).

⁴⁾ According to DIN 46234 or DIN 46235; with cable lug to DIN 46235: Min. conductor cross-section 16 mm² (use M12 cable lug if necessary).

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
With fuse monitoring

For 40 mm busbar system

Rated uninter- rupted current I_u	Connection types (on both sides)		For LV HRC fuse links acc. to DIN 43620 ¹⁾	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Connec- tion	For conduc- tor cross- section		On switch discon- nector	On the fuse moni- tor						
A		mm ²	Size	Version	Version		Order No.	Price per PU			kg

**Completely compartmentalized, with high speed closing feature, with elec-
tronic fuse monitoring (self-powered), open-circuit principle**

**For rated operational voltages U_e from 400 V to 500 V AC, infeed
must come from above!**

Busbars with a width of 12 mm and thickness of 5 mm or 10 mm

160	Flat con- nectors	2.5... 120 ²⁾	00 and 000	1 NO + 1 NC	2 NO + 1 NC	B	3NP50 65-1HF13		1	1 unit	103	2.776
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3NP50 65-1HF13

¹⁾ For LV HRC fuse links, see Catalog ET B1.

²⁾ According to DIN 46234 or 16 mm² ... 95 mm² according to DIN 46235
(use M10 cable lug if necessary).

For 60 mm busbar system

Note:


For switch versions "For installation in any distribution board" and
busbar adapters see page 17/107.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
Accessories

Selection and ordering data

	For fuse switch disconnectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
								kg
Fuse carriers								
	3NP50 6-.C..0	B	3NY1 074		1	1 unit	103	0.620
	3NP52 60-.C..0	B	3NY1 371		1	1 unit	103	0.263
	3NP53 60-.C..0	B	3NY1 372		1	1 unit	103	1.510
	3NP54 60-.C..0	B	3NY1 373		1	1 unit	103	1.690
	<u>With fuse monitoring by 3RV1 MSPs/circuit breakers</u>							
3NP50 6-.E..6	B	3NY1 420		1	1 unit	103	1.405	
3NP52 60-.E..6	B	3NY1 421		1	1 unit	103	1.900	
<u>(with auxiliary switch 1 NO + 1 NC), with plug-in connection, without connector and connecting cable</u>								
3NP53 60-.E..6	B	3NY1 422		1	1 unit	103	1.980	
3NP54 60-.E..6	B	3NY1 423		1	1 unit	103	2.600	
<u>Plugs and connecting cables</u>								
1 m long	3NP5 with 3RV1	B	3NY1 910		1	1 unit	103	0.097
3 m long		B	3NY1 911		1	1 unit	103	0.261
<u>With electronic fuse monitoring for 400 V ... 500 V</u>								
3NP50 6-.H.13	B	3NY1 513-0		1	1 unit	103	1.235	
3NP52 60-.H.13	C	3NY1 513-2		1	1 unit	103	2.130	
<u>(with auxiliary switch 2 NO + 1 NC), with plug-in connection, without connector and connecting cable</u>								
3NP53 60-.H.13	B	3NY1 513-3		1	1 unit	103	2.146	
3NP54 60-.H.13	C	3NY1 513-4		1	1 unit	103	0.325	
<u>Plugs and connecting cables (6-pole)</u>								
3 m long	3NP5 with EFM	B	3NY1 915		1	1 unit	103	0.372
Auxiliary switches 1 NO + 1 NC								
<u>With actuating cams, screws and washers (mounting kit)</u>								
3NP50 ¹⁾	B	3NY3 033		1	1 unit	103	0.015	
<u>With fixing bracket and screws (mounting kit)</u>								
3NP52 ... 3NP54	B	3NY3 034		1	1 unit	103	0.015	
Arc chute								
<u>(3 units each are required for 3NP52, 3NP53 and 3NP54)</u>								
3NP50	B	3NY4 031		1	1 unit	103	0.218	
3NP52	B	3NY4 011		1	1 unit	103	0.215	
3NP53, 3NP54	B	3NY4 012		1	1 unit	103	0.240	
Molded-plastic masking frames								
<u>As replacement for masking frames from assembly kits for installation (without fixing brackets and small parts)</u>								
300 × 220 mm	3NP51 210	A	3NY1 102		1	1 unit	103	0.071
300 × 245 mm	3NP51 211	A	3NY1 103		1	1 unit	103	0.075
300 × 290 mm	3NP51 212	A	3NY1 104		1	1 unit	103	0.084

¹⁾ If retrofitted, drill holes required.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
Accessories

SITOR fuses for 3NP5 fuse switch disconnectors: Assignment table

For switch disconnectors			SITOR fuses				DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
Type	Permissible load current ¹⁾	Required conductor cross-section Cu	Size	Operational class	Rated current A	Rated voltage ²⁾ V								
	A	mm ²			A	V								
SITOR 3NE1 fuses for 3NP5														
3NP50	16	1.5	000	gR/gS	16	690	▶	3NE1 813-0		1	3 units	047	0.127	
	20	2.5	000	gR/gS	20	690	▶	3NE1 814-0		1	3 units	047	0.128	
	25	4	000	gR/gS	25	690	▶	3NE1 815-0		1	3 units	047	0.127	
	35	6	000	gR/gS	35	690	▶	3NE1 803-0		1	3 units	047	0.128	
	40	10	000	gR/gS	40	690	▶	3NE1 802-0		1	3 units	047	0.127	
	50	10	000	gR/gS	50	690	▶	3NE1 817-0		1	3 units	047	0.128	
	63	16	000	gR/gS	63	690	▶	3NE1 818-0		1	3 units	047	0.128	
	80	25	000	gR/gS	80	690	▶	3NE1 820-0		1	3 units	047	0.129	
	100	35	00	gR/gS	100	690	▶	3NE1 021-0		1	3 units	047	0.202	
	125	50	00	gRgS	125	690	▶	3NE1 022-0		1	3 units	047	0.202	
	125	50	00	gR	125	690	A	3NE1 022-2		1	3 units	047	0.203	
	3NP52	160	70	1	gR/gS	160	690	▶	3NE1 224-0		1	3 units	047	0.580
160		70	1	gR	160	690	A	3NE1 224-2		1	3 units	047	0.613	
200		95	1	gR/gS	200	690	▶	3NE1 225-0		1	3 units	047	0.582	
200		95	1	gR	200	690	A	3NE1 225-2		1	3 units	047	0.612	
250		120	1	gR/gS	250	690	▶	3NE1 227-0		1	3 units	047	0.580	
250		120	1	gR	250	690	A	3NE1 227-2		1	3 units	047	0.626	
3NP53	315	2 × 70	2	gR/gS	315	690	A	3NE1 230-0		1	3 units	047	0.581	
	315	2 × 70	2	gR	315	690	A	3NE1 230-2		1	3 units	047	0.615	
	350	2 × 95	2	gR/gS	350	690	▶	3NE1 331-0		1	3 units	047	0.766	
	350	2 × 95	2	gR	350	690	A	3NE1 331-2		1	3 units	047	0.754	
	400	2 × 95	2	gR/gS	400	690	▶	3NE1 332-0		1	3 units	047	0.743	
3NP54	450	2 × 120	2	gR/gS	450	690	A	3NE1 333-0		1	3 units	047	0.760	
	450	2 × 120	2	gR	450	690	A	3NE1 333-2		1	3 units	047	0.768	
	500	2 × 120	2	gR/gS	500	690	A	3NE1 334-0		1	3 units	047	0.766	
	560	2 × 150	3	gR/gS	560	690	A	3NE1 435-0		1	3 units	047	1.111	
	560	2 × 150	3	gR	560	690	A	3NE1 435-2		1	3 units	047	1.149	
	630	2 × 185	3	gR/gS	630	690	A	3NE1 436-0		1	3 units	047	1.114	
	625	2 × 185	3	gR	630	690	A	3NE1 436-2		1	3 units	047	1.179	
	710	2 × (40 × 5)	3	gR/gS	710	690	A	3NE1 437-0		1	3 units	047	1.117	
	690	2 × (40 × 5)	3	gR	690	600	D	3NE1 437-1		1	3 units	047	1.120	
	685	2 × (40 × 5)	3	gR	710	600	B	3NE1 437-2		1	3 units	047	1.153	
	800	2 × (50 × 5)	3	gR/gS	800	690	A	3NE1 438-0		1	3 units	047	1.124	
	750	2 × (50 × 5)	3	gR	750	600	B	3NE1 438-1		1	3 units	047	1.113	
	720	2 × (50 × 5)	3	gR	800	600	A	3NE1 438-2		1	3 units	047	1.184	
	655	2 × (40 × 5)	3	gR	670	690	A	3NE1 447-2		1	3 units	047	1.170	
	820	2 × (40 × 8)	3	gR	850	690	A	3NE1 438-2		1	3 units	047	1.184	
	SITOR fuses 3NE3 ... 3NE8, 3NC2 to 3NC8 for 3NP5													
3NP50	25	4	00	gR	25	690	▶	3NE8 015-1		1	3 units	047	0.205	
	33	6	00	gR	35	690	▶	3NE8 003-1		1	3 units	047	0.204	
	45	10	00	gR	50	690	▶	3NE8 017-1		1	3 units	047	0.203	
	54	16	00	gR	63	690	▶	3NE8 018-1		1	3 units	047	0.205	
	68	25	00	aR	80	690	▶	3NE8 020-1		1	3 units	047	0.203	
	89	35	00	aR	100	690	▶	3NE8 021-1		1	3 units	047	0.205	
	106	50	00	aR	125	690	▶	3NE8 022-1		1	3 units	047	0.213	
	130	70	00	aR	160	690	▶	3NE8 024-1		1	3 units	047	0.207	
	3NP52 ³⁾	32	6	0	gR	32	1000	▶	3NE4 101		1	3 units	047	0.278
		40	10	0	gR	40	1000	▶	3NE4 102		1	3 units	047	0.277
50		10	0	gR	50	1000	▶	3NE4 117		1	3 units	047	0.276	
63		16	0	gR	63	1000	▶	3NE4 118		1	3 units	047	0.279	
80		25	0	aR	80	1000	▶	3NE4 120		1	3 units	047	0.276	
95		35	0	aR	100	1000	▶	3NE4 121		1	3 units	047	0.278	
120		50	0	aR	125	1000	▶	3NE4 122		1	3 units	047	0.279	
150		70	0	aR	160	1000	▶	3NE4 124		1	3 units	047	0.279	
3NP53		100	35	1	aR	100	1000	A	3NE3 221		1	3 units	047	0.580
	120	50	1	aR	125	1000	A	3NE3 222		1	3 units	047	0.568	
	150	70	1	aR	160	1000	▶	3NE3 224		1	3 units	047	0.573	
	190	95	1	aR	200	1000	▶	3NE3 225		1	3 units	047	0.570	
	230	120	1	aR	250	1000	▶	3NE3 227		1	3 units	047	0.580	
	285	185	1	aR	315	1000	▶	3NE3 230-0B		1	3 units	047	0.585	
	310	240	1	aR	350	1000	A	3NE3 231		1	3 units	047	0.590	
	330	240	1	aR	400	1000	A	3NE3 232-0B		1	3 units	047	0.576	
	360	2 × 150	1	aR	450	1000	▶	3NE3 233		1	3 units	047	0.720	
	210	120	2	aR	250	800	▶	3NE4 327-0B		1	3 units	047	0.753	
	270	240	2	aR	315	800	▶	3NE4 330-0B		1	3 units	047	0.760	
	400	2 × (30 × 5)	2	aR	450	800	▶	3NE4 333-0B		1	3 units	047	0.760	

¹⁾ In the case of cyclic loads, the currents may have to be reduced again (precise values on request).

²⁾ When maintaining overvoltage category 2 (instead of 3) and degree of pollution 2 (instead of 3) to EN 60 947-1, the rated insulation voltage of the 3NP fuse switch disconnector is also $U_i = 1000$ V.

³⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE41 fuses should be switchable only occasionally and only at zero current.

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
Accessories

For switch disconnectors			SITOR fuses				DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type	Permissible load current ¹⁾	Required conductor cross-section Cu	Size	Operational class	Rated current	Rated voltage ²⁾							
	A	mm ²			A	V							
3NP54	360	240	2	aR	400	1000	A	3NE3 332-0B		1	3 units	047	0.759
	400	2 x 150	2	aR	450	1000	A	3NE3 333		1	3 units	047	0.748
	450	2 x 150	2	aR	500	1000	▶	3NE3 334-0B		1	3 units	047	0.753
	510	2 x 185	2	aR	560	1000	▶	3NE3 335		1	3 units	047	0.756
	580	2 x 185	2	aR	630	1000	▶	3NE3 336		1	3 units	047	0.760
	630	2 x 200	2	aR	710	900	▶	3NE3 337-8		1	3 units	047	0.762
	630	2 x 200	2	aR	800	800	▶	3NE3 338-8		1	3 units	047	0.764
	630	2 x 200	2	aR	900	690	▶	3NE3 340-8		1	3 units	047	0.753
	450	2 x (30 x 5)	2	aR	500	800	▶	3NE4 334-0B		1	3 units	047	0.754
	600	2 x (40 x 5)	2	aR	710	800	▶	3NE4 337		1	3 units	047	0.771
	145	70	3	gR	150	500	B	3NC2 423-3C		1	3 units	047	0.940
	180	95	3	gR	200	500	B	3NC2 425-3		1	3 units	047	1.057
	225	120	3	gR	250	500	B	3NC2 427-3		1	3 units	047	1.066
	255	185	3	gR	300	500	B	3NC2 428-3		1	3 units	047	1.078
	330	240	3	gR	350	500	B	3NC2 431-3C		1	3 units	047	0.940
	400	240	3	gR	400	500	B	3NC2 432-3C		1	3 units	047	0.940
	135	70	3	gR	150	660	B	3NC8 423-3		1	3 units	047	1.062
	180	95	3	gR	200	660	B	3NC8 425-3		1	3 units	047	1.063
	225	120	3	gR	250	660	B	3NC8 427-3		1	3 units	047	1.069
	300	240	3	gR	350	660	B	3NC8 431-3		1	3 units	047	1.072
	425	2 x 150	3	gR	500	660	B	3NC8 434-3		1	3 units	047	1.069
	800	3 x (60 x 6)	3	aR	1000	600	C	3NC8 444-3		1	3 units	047	1.085

¹⁾ In the case of cyclic loads, the currents may have to be reduced again (precise values on request).

²⁾ When maintaining overvoltage category 2 (instead of 3) and degree of pollution 2 (instead of 3) to EN 60947-1, the rated insulation voltage of the 3NP fuse switch disconnector is also $U_i = 1000$ V.

³⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE41 fuses should be switchable only occasionally and only at zero current.







For technical specifications and dimensional drawings of the SITOR fuses see [Catalog ET B1](#).

Fuse Switch Disconnectors

SENTRON 3NP Fuse Switch Disconnectors up to 630 A

3NP5 for extended technical requirements
Assembly kits for distribution boards

Selection and ordering data

	For fuse switch disconnectors	Dimensions mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
For installation in any distribution board									
	Molded-plastic masking frames		Height × Width						
	For installation in the cabinet	3NP50 with and without auxiliary switch	215 × 135	A	3NY1 105	1	1 unit	103	0.045
		With auxiliary switch	215 × 135	A	3NY1 115	1	1 unit	103	0.044
	For installation in metal front plates	With and without auxiliary switch	220 × 160	A	3NY1 125	1	1 unit	103	0.062
	For covering the connection terminals	3NP50 with and without auxiliary switch	265 × 135	A	3NY1 107	1	1 unit	103	0.073
	For covering the cable lug connections	3NP50 with and without auxiliary switch	290 × 135	A	3NY1 106	1	1 unit	103	0.071
	For separate covering of the upper and lower cable lug connections	With auxiliary switch	290 × 135	A	3NY1 116	1	1 unit	103	0.071
		3NP50 with and without auxiliary switch	290 × 135	A	3NY1 108	1	1 unit	103	0.048
	Assembly kits for flush mounting								
	With molded-plastic masking frame, fixing brackets and small parts. For disconnectors with and without auxiliary switches	3NP50 60	250 × 149	B	3NY1 208	1	1 unit	103	0.531
		3NP52 60	300 × 220	B	3NY1 210	1	1 unit	103	0.287
		3NP53 60	300 × 245	B	3NY1 211	1	1 unit	103	0.298
		3NP54 60	300 × 290	B	3NY1 212	1	1 unit	103	0.313
	Covers for cable lug connections		Cover length						
	(1 set = 6 units) can be screwed onto free screw end to protect against accidental touch	3NP52	99	A	3NY1 241	1	1 unit	103	0.205
		3NP53/3NP54	95	B	3TX6 546-3B	1	1 unit	101	0.260
			120	B	3NY1 245	1	1 unit	103	0.336
	Clamp terminals		Conductor cross-section						
	(1 set = 3 units)	3NP50	2.5 ... 50 mm ² 1)	B	3NY1 903	1	1 unit	103	0.108
		3NP52	35 ... 120 mm ²	B	3NY1 907	1	1 unit	103	0.225
	Busbar adapters		Busbar width						
	For 60 mm busbar system	3NP50	108	A	8US12 91-4SB00	1	1 unit	143	0.551
		3NP52, 3NP53, 3NP54 ²⁾	250 (length 320 mm, M10 terminal screws, connecting cables must be manufactured)	A	8US12 10-4AG00	1	1 unit	143	3.060
	Sealing lugs	3NP50		B	3NY1 940	1	1 unit	103	0.010
	Retrofittable (1 pack = 10 units)								

1) Also available in 2-wire version: 1 × 2.5 mm² ... 50 mm² and 1 × 2.5 mm² - 35 mm².

2) Disconnector is wider than adapter. The adapter can, however, be expanded to 276 mm with two 8US19 98-2BM00 side modules.

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

General data

Overview

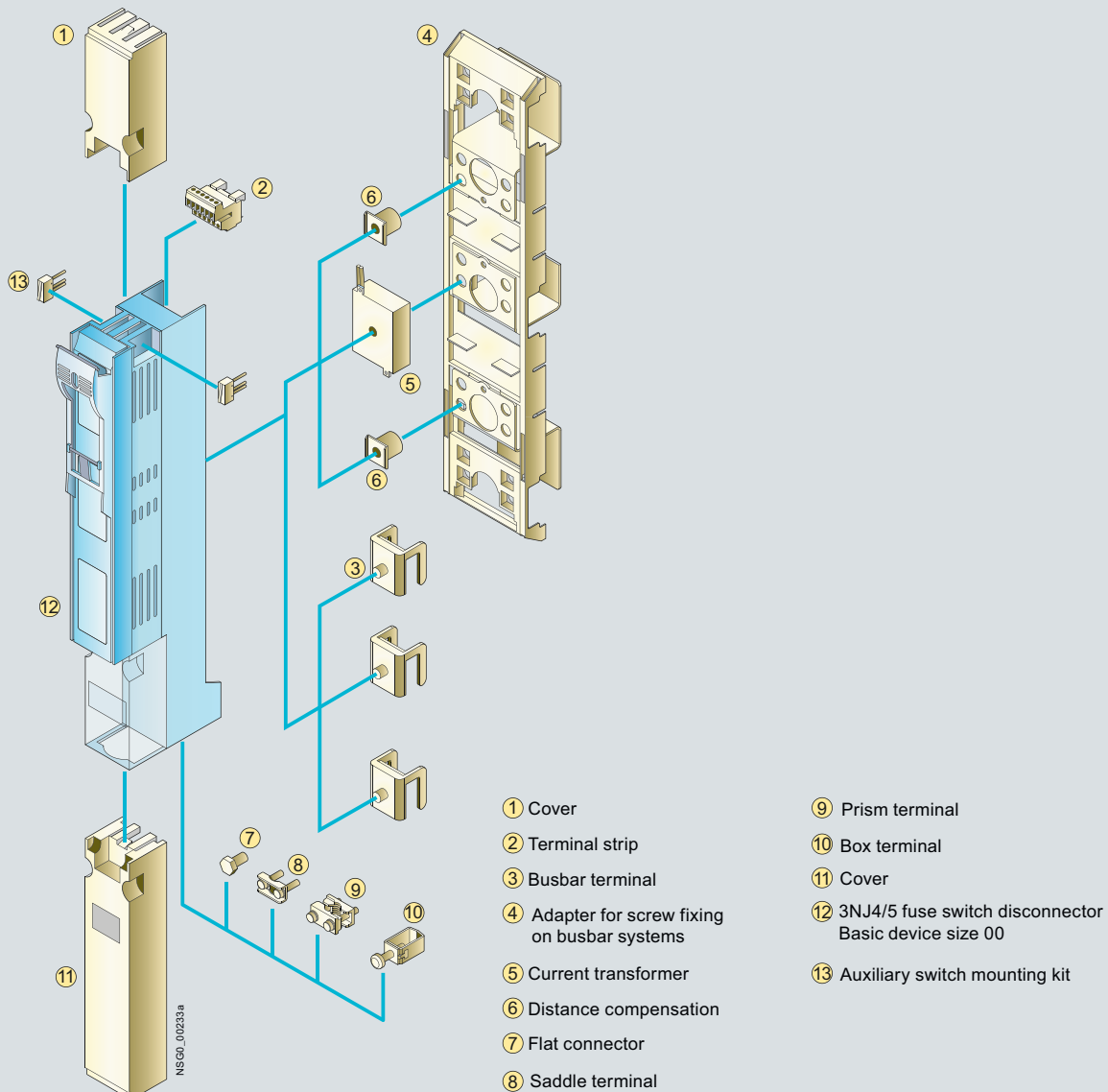


3NJ4/3NJ5 fuse switch disconnectors

All key product features at a glance

- Compliant with IEC/EN 60439-1, IEC/EN 60947-3
- Voltage levels up to 690 V AC
- Rated operational current from 160 A to 2000 A
- Fuse links according to IEC 60269 Part 1 can be used – nickel-plated fuse blades are not permissible due to the high transfer resistance
- In open position safe from touch by the back of the hand (exception 3NJ56: IP00)
- Parking position for maintenance
- 1-pole or 3-pole switchable
- Vertical and horizontal mounting position
- Climate-proof
- Degree of protection IP30 with closed fuse carriers, IP10 with open fuse carriers (exception 3NJ56: IP00)

Overview of all components and accessory parts: 3NJ4/3NJ5 in size 00

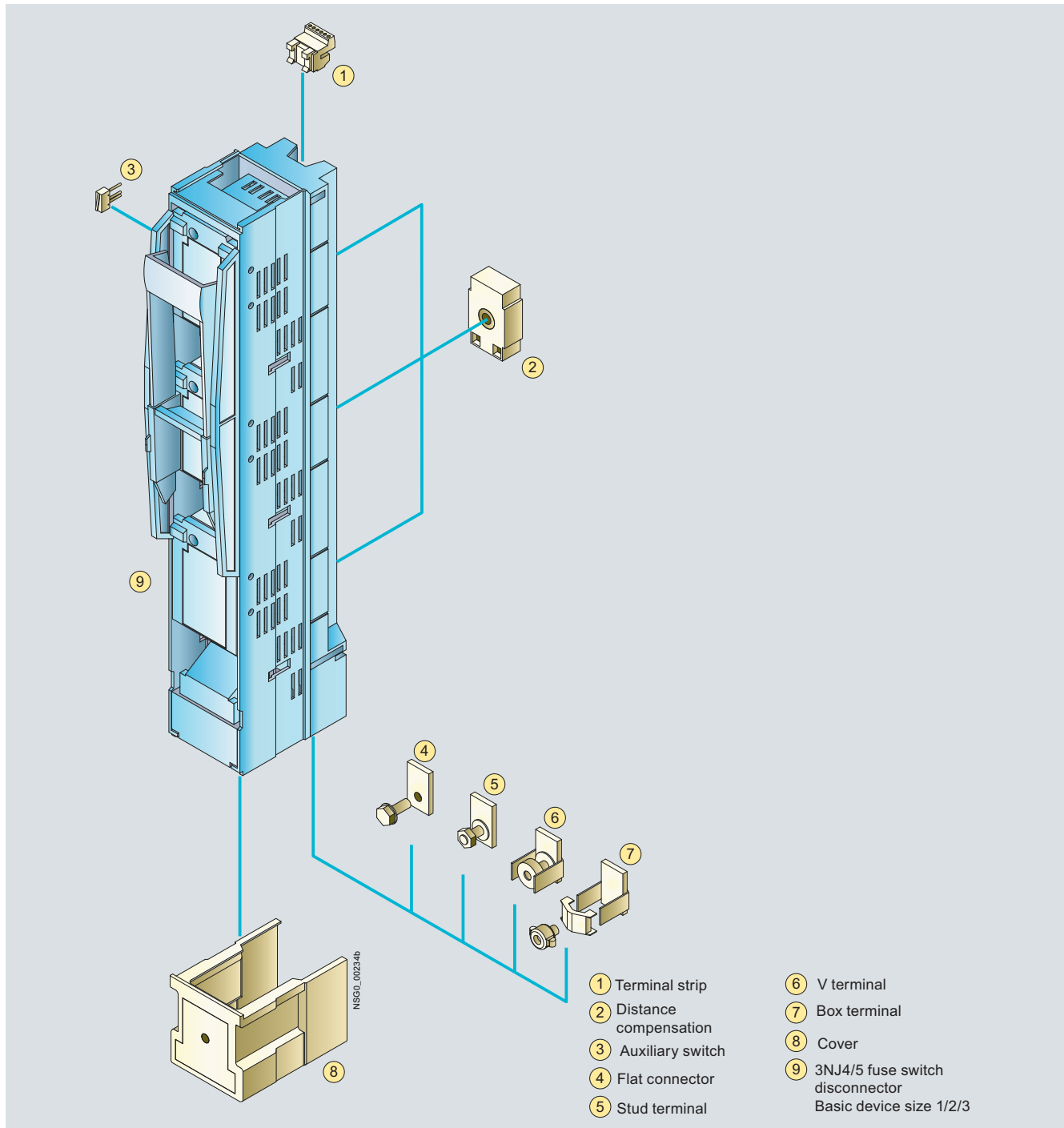


Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

General data

Overview of all components and accessory parts: 3NJ4/3NJ5 in sizes 1 to 3



Benefits

Parking position

For maintenance purposes, for example, the carriers of the 1-pole in-line fuse switch disconnectors of sizes 1 to 3 and the 3-pole in-line fuse switch disconnectors of size 00 can be mounted after being turned by 180° (fuse facing outwards).

This results in the following advantages:

- Visible disconnection point
- Depot for fuse links (parking position)
- No opportunity for mistakes on replacing the fuse links
- Additional touch protection in the vicinity of the lyre-shaped contacts

Application

SENTRON 3NJ41 and 3NJ56 single-pole and 3-pole in-line fuse switch disconnectors are designed for installation in low-voltage distribution boards, substations and cable distribution cabinets.

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

General data

More information

Standards				IEC 60947-1, IEC 60947-3, VDE 0660 Part 107									
Type				3NJ41 0 3NJ50	3NJ41 2	3NJ41 3	3NJ41 4	3NJ56	3NJ41 5	3NJ41 8	3NJ41 6	3NJ41 7	
Conventional thermal current													
Free-air with gG fuses, I_{th}	A			160	250	400	630	1250	630	800	1260	1600	
Free-air with isolating link, I_{th}	A			--	--	--	800	--	1000	1250	1600	2000	
Free-air with gTr fuses, I_{th}	A			--	--	--	--	1154	722	910	1154	1444	
Rated apparent power of the transformer, S_n	kVA			--	--	--	--	800	500	630	800	1000	
For fuse links and isolating links													
	Size			00	1	2	3	4a	3	3	2 x 3	2 x 3	
gG acc. to IEC 60269, I_n	A			160	250	400	630	1250	630	800	2 x 630	2 x 800	
Free-air with isolating link, I_n	A			--	--	--	--	--	1000	1250	2 x 800	2 x 1000	
gTr acc. to VDE acc. to 0636-2011, I_{rat}	A			--	--	--	--	1154	722	909	2 x 577	2 x 722	
gTr acc. to VDE acc. to 0636-2011, S_n	kVA			--	--	--	--	800	500	630	2 x 400	2 x 500	
Rated operational voltage U_e													
At AC 40 Hz ... 60 Hz	V			690	690	690	690	690	690	400	690	400	
Rated insulation voltage U_i													
	V			800	1000	1000	1000	1000	1000	690	1000	690	
Rated impulse withstand voltage U_{imp}													
	kV			8	12	12	12	12	12	8	12	8	
Rated conditional short-circuit current with fuses													
With gG fuse (rms value)	kA			80/50	110	110	110	80	110	50	80	50	
With gTr fuse (rms value)	kA			--	--	--	--	--	--	50	--	--	
Max. permissible power loss per fuse link													
	W			12	32	45	48	110	51	61	48	51	
Rated short-time withstand current I_{CW}													
rms value	kA			--	14.5	14.5	14.5	35	14.5	14.5	25	25	
Rated making and breaking capacity													
Rated operational current I_e for gG fuses													
At	AC-21B	400 V AC	A	160	250	400	630	1250	630	800	2 x 630	2 x 800	
	AC-22B	400 V AC	A	160	250	400	630	1250	630	800	2 x 630	2 x 800	
	AC-23B	400 V AC	A	--	250	400	--	--	--	--	--	--	
	AC-21B	500 V AC	A	160	250	400	630	1250	--	--	--	--	
	AC-22B	500 V AC	A	160	250	400	630	1250	--	--	--	--	
	AC-23B	500 V AC	A	--	--	--	--	--	--	--	--	--	
	AC-21B	690 V AC	A	100	250	400	630	1250	--	--	--	--	
	AC-22B	690 V AC	A	100	250	--	--	--	--	--	--	--	
	AC-23B	690 V AC	A	--	--	--	--	--	--	--	--	--	
Rated operational current I_e for gTr fuses													
At	AC-22B	400 V AC	A	--	--	--	--	--	722	910	2 x 577	2 x 722	
Rated operational current I_e for isolating links													
At	AC-22B	400 V AC	A	--	--	--	--	--	1000	1250	2 x 800	2 x 1000	
Capacitive switching capacity													
	kvar			--	105 ... 115	155 ... 185	250 ... 300	--	--	--	--	--	
Permissible ambient temperature													
	°C			-25 ... +55, > 35 °C with derating factors									
Mechanical endurance, operating cycles													
				1400	1400	800	800	500	800	500	500	500	
Electrical endurance, operating cycles													
				200	200	200	200	100	100	100	100	100	
Degree of protection													
With closed fuse carrier, with terminal cover and peripheral cover				IP30	IP30	IP30	IP30	IP10	IP30	IP30	IP30	IP30	
With open fuse carrier				IP10	IP10	IP10	IP10	IP00	IP10	IP10	IP10	IP10	
Power loss of the main current paths at I_{th}													
	W			18	23	54	115	190	275	155	350	375	
Main conductor connections													
Terminal screws				M8	M10	M12	M12	M16	2 x M12	2 x M12	3 x M12	4 x M12	
Flat bars				mm	20	30	30	80	80 x 10	80 x 10	--	--	
Cable lug, max. conductor cross-section (stranded)				mm ²	95	240	240	240 ¹⁾	2 x 300	2 x 300	2 x 300	3 x 300 4 x 185	4 x 300 4 x 185
Tightening torque				Nm	12 ... 15	30 ... 35	35 ... 40	35 ... 40	50 ... 60	35 ... 40	35 ... 40	35 ... 40	
Clamp/V terminals				mm ²	1.5 ... 70	25 ... 300	25 ... 300	25 ... 300	--	--	--	--	
Fixing screws				M8	M12	M12	M12	M16	M12	M12	M12	M12	
Required tightening torque for mounting on bus-bars				Nm	16 ... 18	35 ... 40	35 ... 40	35 ... 40	50 ... 60	35 ... 40	35 ... 40	35 ... 40	

¹⁾ A special assembly kit is required for connection of 2 x 240 mm²; delivery on request.

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

1-pole switchable

Selection and ordering data

Rated operational current I_e For fuse links acc. to IEC 60269-1	Center-to-center spacing	Connection type (terminal screws/ clamp-type terminals included in the scope of supply) ¹⁾ optionally top or bottom (rotatable!)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
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kg

In-line fuse switch disconnectors, 1-pole switchable



3NJ41 21-3BF01

160	00 and 000	185	M8 flat connector	A	3NJ50 13-0BD00	1	1 unit	143	2.561
250	1	185	M10 flat connector	A	3NJ41 21-3BF01	1	1 unit	143	5.284
400	2 and 1	185	M12 flat connector	A	3NJ41 31-3BF01	1	1 unit	143	5.363
630	3 and 2	185	M12 flat connector	A	3NJ41 41-3BF01	1	1 unit	143	6.098
1250	4a	185	M16 × 60 stud terminal	A	3NJ56 43-0BB00	1	1 unit	143	23.608

In-line fuse switch disconnectors, 1-pole switchable, for integratable current transformers



3NJ41 21-3BF11

250	1	185	M10 flat connector	C	3NJ41 21-3BF11	1	1 unit	143	5.690
400	2 and 1	185	M12 flat connector	C	3NJ41 31-3BF11	1	1 unit	143	5.720
630	3 and 2	185	M12 flat connector	C	3NJ41 41-3BF11	1	1 unit	143	6.680

¹⁾ Fixing screws for mounting on busbars must be ordered separately.

Fuse Switch Disconnectors


SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

3-pole switchable

Selection and ordering data

Rated operational current I_e For fuse links acc. to IEC 60269-1	Center-to-center spacing	Connection type (terminal screws/ clamp-type terminals included in the scope of supply) ¹⁾ optionally top or bottom (rotatable!)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.

In-line fuse switch disconnectors, 3-pole switchable

	160	00 and 000	100	M8 flat connector	▶	3NJ41 03-3BF02	1	1 unit	143	1.400	
				F70 box terminal	A	3NJ41 03-3BR02	1	1 unit	143	1.479	
	160	00 and 000	185	M8 flat connector	A	3NJ50 33-0BD00	1	1 unit	143	2.608	
				M10 flat connector	▶	3NJ41 23-3BF01	1	1 unit	143	5.481	
	250	1	185	M12 stud terminal	A	3NJ41 23-3BJ01	1	1 unit	143	5.512	
				V terminal	A	3NJ41 23-3BT01	1	1 unit	143	5.908	
	400	2 and 1	185	M12 flat connector	▶	3NJ41 33-3BF01	1	1 unit	143	5.540	
				M12 stud terminal	A	3NJ41 33-3BJ01	1	1 unit	143	5.580	
	3NJ41 23-3BF01	630	3 and 2	185	V terminal	A	3NJ41 33-3BT01	1	1 unit	143	5.899
					M12 flat connector	▶	3NJ41 43-3BF01	1	1 unit	143	6.426
					M12 stud terminal	A	3NJ41 43-3BJ01	1	1 unit	143	6.321
					V terminal	A	3NJ41 43-3BT01	1	1 unit	143	6.675

In-line fuse switch disconnectors, 3-pole switchable, with electronic fuse monitoring (EFM)

	160	00 and 000	100	M8 flat connector	C	3NJ41 03-3CF02	1	1 unit	143	1.400
	250	1	185	M10 flat connector	C	3NJ41 23-3CF01	1	1 unit	143	1.400
	400	2 and 1	185	M12 flat connector	C	3NJ41 33-3CF01	1	1 unit	143	1.400
	630	3 and 2	185	M12 flat connector	C	3NJ41 43-3CF01	1	1 unit	143	1.400

In-line fuse switch disconnectors, 3-pole switchable, for integratable current transformers


160	00 and 000	100	M8 flat connector	▶	3NJ41 03-3BF12	1	1 unit	143	1.140
250	1	185	M10 flat connector	▶	3NJ41 23-3BF11	1	1 unit	143	5.890
400	2 and 1	185	M12 flat connector	▶	3NJ41 33-3BF11	1	1 unit	143	5.910
630	3 and 2	185	M12 flat connector	▶	3NJ41 43-3BF11	1	1 unit	143	6.870

In-line fuse switch disconnectors, 3-pole switchable, for integratable current transformers, with electronic fuse monitoring (EFM)

160	00 and 000	100	M8 flat connector	C	3NJ41 03-3CF12	1	1 unit	143	1.400
250	1	185	M10 flat connector	C	3NJ41 23-3CF11	1	1 unit	143	1.400
400	2 and 1	185	M12 flat connector	C	3NJ41 33-3CF11	1	1 unit	143	1.400
630	3 and 2	185	M12 flat connector	C	3NJ41 43-3CF11	1	1 unit	143	1.400

Transformer apparent power	Rated apparent power of the gTr fuses	Center-to-center spacing	Rated current of gTr fuses	Rated operational current I_e with 3NJ4914-8BA00 isolating link	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
kVA	kVA		A	A							kg

In-line fuse switch disconnectors, 3-pole switchable, for secondary-side fusing of transformers

	500	500	185	722	1000	A	3NJ41 53-3BF01	1	1 unit	143	11.030
	630	630	185	909	1250	A	3NJ41 83-3BF01	1	1 unit	143	12.943
	800	2 x 400	185	2 x 577	1600	C	3NJ41 63-3BF01	1	1 unit	143	12.943
	1000	2 x 500	185	2 x 722	2000	C	3NJ41 73-3BF01	1	1 unit	143	12.943

3NJ41 63-3BF01

1) Fixing screws for mounting on busbars must be ordered separately.







* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

Accessories

Selection and ordering data

	For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Cover Size 00 Additional touch protection with use of cable lugs	3NJ50 33, 3NJ5013	B	3NJ49 12-1FA02	1	1 unit	143	0.090
33NJ49 12-1AA01	Cover¹⁾ Size 1 to 3 Additional touch protection with use of cable lugs or connection from above	3NJ41 2 to 3NJ41 4, 3NJ41 5, 3NJ41 8	▶	3NJ49 12-1AA01	1	1 unit	143	0.103
	Covers size 3 For double blocks	3NJ41 4	A	3NJ49 12-1EA00	1	1 unit	143	0.200
3NJ49 12-1EA00	Covers size 00 (can also be used as masking frame) Top and bottom for covering of extended cable lugs and for combining 3NJ41 03 with 3NJ41 2 to 3NJ41 4 in-line disconnectors (1 set = 2 units: short and long ²⁾)	3NJ41 03	A	3NJ49 12-1DA02	1	1 unit	143	0.005
	Blanking covers For panel cut-out	50 mm wide	A	3NJ49 12-2AA00	1	1 unit	143	0.189
3NJ49 12-2AA01	According to the size of the switch disconnectors: sizes 1 to 3 (for fitting in the cutout of the control panels)	100 mm wide	A	3NJ49 12-2BA00	1	1 unit	143	0.215
	For 3NJ41 03	50 mm wide	A	3NJ49 12-2CA00	1	1 unit	143	0.090
3NJ49 12-2BA00	Fixing clips 2 units per side, for fixing the cover of the control panel front (1 set = 4 units, including fixing accessories)	3NJ41	A	3NJ49 18-0AA00	1	1 unit	143	0.130
								
3NJ49 12-2CA01								
								
3NJ49 18-0AAA00								









¹⁾ With cable lugs and connection from above, the terminal cover can be extended by connecting two units together.

²⁾ Can be shortened (in exchange for short cover, included in the scope of supply of the in-line disconnectors).

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

Accessories



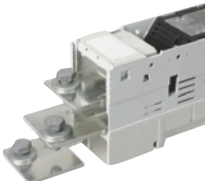
	For fuse switch disconnectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Blanking cover for busbars To be fitted directly in the drilled holes of the busbars		A					
	① Busbar center-to-center spacing 185 mm	50 mm wide	A	3NJ49 12-3AA00	1	1 unit	143	0.148
	② Busbar center-to-center spacing 185 mm	100 mm wide	A	3NJ49 12-3BA01	1	1 unit	143	0.372
③ Busbar center-to-center spacing 100 mm	50 mm wide	A	3NJ49 12-3CA00	1	1 unit	143	0.105	
	(Also for covering a blank space on 3NJ49 18-ODA02 or 3NJ59 30-3BB)							
	Adapters for screw fixing on busbar systems							
	• For fitting of two 3NJ41 03 fuse switch disconnectors (= 1 holder) onto a busbar system with 185 mm center-to-center spacing (including adaptation of the installation depth to that of the 3NJ41 2 to 3NJ41 4 fuse switch disconnectors)	3NJ41 03	A	3NJ49 18-ODA02	1	1 unit	143	0.751
	• For fitting two 3NJ50 fuse switch disconnectors (= 1 holder) (to adapt the overall depth of sizes 1 to 3)	3NJ50 13 and 3NJ50 33	D	3NJ59 30-3BB	1	1 unit	143	0.675
• For fitting one 3NJ41 03 fuse switch disconnectors (= 3 separate brackets) onto a busbar system with 60 mm center-to-center spacing	3NJ41 03	A	3NJ49 18-0EA00	1	1 unit	143	0.232	
3NJ49 18-ODA02								
	Adapters with busbar terminals							
	For fitting two 3NJ41 03 fuse switch disconnectors (= 1 holder) onto a busbar system with 185 mm center-to-center spacing (including adaptation of the overall depth to the 3NJ41 2 to 3NJ41 4 fuse switch disconnectors)	3NJ41 03	D	3NJ49 18-0DB02	1	1 unit	143	0.751
3NJ49 18-0EA00								
	Fixing screws							
	For fitting 3NJ41 03 switch disconnectors with integratable current transformers onto adapters (1 set = 3 units)	3NJ41 03	B	3NJ49 18-0DC02	1	1 unit	143	0.200
3NJ49 18-0EA00								
	Busbar supports							
	For 100 mm and 185 mm center-to-center spacing, for screwing on of busbars	3NJ41 and 3NJ5	▶	3NJ59 74-0AB	1	1 unit	143	0.463
3NJ59 74-0AB								
	Grounding kit with connecting cable 25 mm²							
		3NJ414 to 3NJ418	D	3NJ49 10-1AA00	1	1 unit	143	4.200
3NJ49 10-1AA00								
	Busbar terminal							
		3NJ41 03	▶	3NJ49 11-3AA00	1	1 unit	143	0.176
3NJ49 11-3AA00								
	Busbar terminal							
	For rapid mounting of the in-line disconnectors onto the busbars (1 set = 3 units)	3NJ41 2 to 3NJ41 4	▶	3NJ49 11-3BA01	1	1 unit	143	0.607
3NJ49 11-3BA01								

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

Accessories




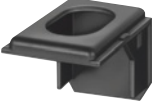



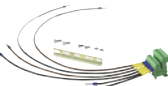
	For fuse switch disconnectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
 3NJ49 11-4AA00	Saddle terminal installation kit Copper terminal 1.5 mm ² to 70 mm ² (1 set = 3 units)	3NJ41 03	A	3NJ49 11-4AA00	1	1 unit	143	0.041
 3NJ49 11-1AA00	Prism terminal assembly kits Aluminum/copper terminal 10 mm ² to 70 mm ² (1 set = 3 units)	3NJ41 03	A	3NJ49 11-1AA00	1	1 unit	143	0.098
 3NJ4911-2BQ00	Box terminal assembly kits Aluminum/copper terminal 95 mm ² to 240 mm ² (for connection to version with flat connector) (1 set = 3 units)	3NJ41 2 to 3NJ41 4	A	3NJ49 11-2BQ00	1	1 unit	143	0.949
 3NJ49 11-5AA00	Connection assembly kit for NH 1, 2, 3 with flat connector 2 x 240 mm ²	3NJ41 2 to 3NJ41 4	A	3NJ49 11-5AA00	1	1 unit	143	0.500
 3NJ49 11-5BA00	2 x 300 mm ² /3x 120 mm ²	3NJ41 2 to 3NJ41 4	A	3NJ49 11-5BA00	1	1 unit	143	1.700
 3NJ49 11-5CA00	1 x 400 mm ²	3NJ41 2 to 3NJ41 4	A	3NJ49 11-5CA00	1	1 unit	143	1.800
 3NJ49 11-6AA00	Connection assembly kit for NH3 as double in-line blocks 3 x 300 mm ² /4 x 185 mm ²	3NJ41 4	A	3NJ49 11-6AA00	1	1 unit	143	2.800
 3NJ49 11-6BA00	4 x 240 mm ²	3NJ41 4	A	3NJ49 11-6BA00	1	1 unit	143	3.800

* You can order this quantity or a multiple thereof.

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A




Accessories

	For fuse switch disconnectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
 3NJ49 11-6BA00			3NJ49 11-6CA00		1	1 unit	143	0.150
 3NJ49 13-6AA02	3NJ41 to 3NJ50	A	3NJ49 13-1AA01		1	1 unit	143	0.029
	Mechanical coupling of operating handles							
	Auxiliary switch mounting kit For sizes 00 to 3 with connecting cables, for 3-pole switchable switch disconnectors only							
	3NJ41 8	C	3NJ49 14-8AA00		1	1 unit	143	1.341
	Fuse 630 kVA 909 A Size NH 3 Specially for the protection of transformers (minimum order quantity 3 units)							
 3NJ49 14-8BA00		B	3NJ49 14-8BA00		1	1 unit	143	2.800
	Isolating links Size NH 3, 1250 A							
 3NJ49 18-1AA00		A	3NJ49 18-1AA00		1	1 unit	143	0.120
	Mounting hooks (one per in-line disconnector required)							
 3NJ49 15-1BA00	3NJ41 03	▶	3NJ49 15-1BA00		1	1 unit	143	0.020
	3NJ412 to 3NJ414	▶	3NJ49 15-2BA00		1	1 unit	143	0.095
 3NJ49 15-2BA00								
 3NJ49 15-1CA00	3NJ41 03	▶	3NJ49 15-1CA00		1	1 unit	143	0.030
	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2CA00		1	1 unit	143	0.110
 3NJ49 15-2CA00								

Fuse Switch Disconnectors

SENTRON 3NJ4, 3NJ5 In-Line Fuse Switch Disconnectors up to 2000 A

Accessories

	For fuse switch disconnectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Current transformers .../1 A								
	100/1 A, Cl. 0.5, 1.5 VA	3NJ41 03	C	3NJ49 15-1EA10	1	1 unit	143	0.250
	100/1 A, Cl. 1, 2.0 VA	3NJ41 03	C	3NJ49 15-1EA20	1	1 unit	143	0.250
	150/1 A, Cl. 0.5, 2.5 VA	3NJ41 03	C	3NJ49 15-1FA10	1	1 unit	143	0.250
	150/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 03	D	3NJ49 15-1FA11	1	1 unit	143	0.250
	150/1 A, Cl. 1, 3.0 VA	3NJ41 03	▶	3NJ49 15-1FA20	1	1 unit	143	0.250
	75/1 A, Cl. 1, 1.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2DA20	1	1 unit	143	0.190
	100/1 A, Cl. 0.5, 1.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2EA10	1	1 unit	143	0.190
	100/1 A, Cl. 1, 2.0 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2EA20	1	1 unit	143	0.190
	150/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2FA10	1	1 unit	143	0.190
	150/1 A, Cl. 1, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2FA20	1	1 unit	143	0.190
	250/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2GA10	1	1 unit	143	0.190
	250/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2GA11	1	1 unit	143	0.190
250/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2GA20	1	1 unit	143	0.190	
400/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2HA10	1	1 unit	143	0.190	
400/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2HA11	1	1 unit	143	0.190	
400/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2HA20	1	1 unit	143	0.190	
500/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2JA10	1	1 unit	143	0.190	
500/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2JA20	1	1 unit	143	0.190	
600/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2KA10	1	1 unit	143	0.190	
600/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2KA11	1	1 unit	143	0.190	
600/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2KA20	1	1 unit	143	0.190	
Current transformers .../5 A								
	100/5 A, Cl. 0.5, 1.0 VA	3NJ41 03	C	3NJ49 15-1EB10	1	1 unit	143	0.250
	100/5 A, Cl. 1, 1.5 VA	3NJ41 03	C	3NJ49 15-1EB20	1	1 unit	143	0.250
	150/5 A, Cl. 0.5, 1.5 VA	3NJ41 03	C	3NJ49 15-1FB10	1	1 unit	143	0.250
	150/5 A, Cl. 0.5 calibrated, 1.5 VA	3NJ41 03	D	3NJ49 15-1FB11	1	1 unit	143	0.250
	150/5 A, Cl. 1, 2.5 VA	3NJ41 03	▶	3NJ49 15-1FB20	1	1 unit	143	0.250
	75/5 A, Cl. 1, 1.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2DB20	1	1 unit	143	0.190
	100/5 A, Cl. 0.5, 1.0 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2EB10	1	1 unit	143	0.190
	100/5 A, Cl. 1, 2.0 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2EB20	1	1 unit	143	0.190
	150/5 A, Cl. 0.5, 1.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2FB10	1	1 unit	143	0.190
	150/5 A, Cl. 1, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2FB20	1	1 unit	143	0.190
	250/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2GB10	1	1 unit	143	0.190
	250/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2GB11	1	1 unit	143	0.190
250/5 A, Cl. 1, 3.75 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2GB20	1	1 unit	143	0.190	
400/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	C	3NJ49 15-2HB10	1	1 unit	143	0.190	
400/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2HB11	1	1 unit	143	0.190	
400/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2HB20	1	1 unit	143	0.190	
500/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2JB10	1	1 unit	143	0.190	
500/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2JB20	1	1 unit	143	0.190	
600/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2KB10	1	1 unit	143	0.190	
600/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2KB11	1	1 unit	143	0.190	
600/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2KB20	1	1 unit	143	0.190	
	400/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2HB10	1	1 unit	143	0.190
	400/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2HB11	1	1 unit	143	0.190
	400/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶	3NJ49 15-2HB20	1	1 unit	143	0.190
	500/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2JB10	1	1 unit	143	0.190
	500/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2JB20	1	1 unit	143	0.190
	600/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	D	3NJ49 15-2KB10	1	1 unit	143	0.190

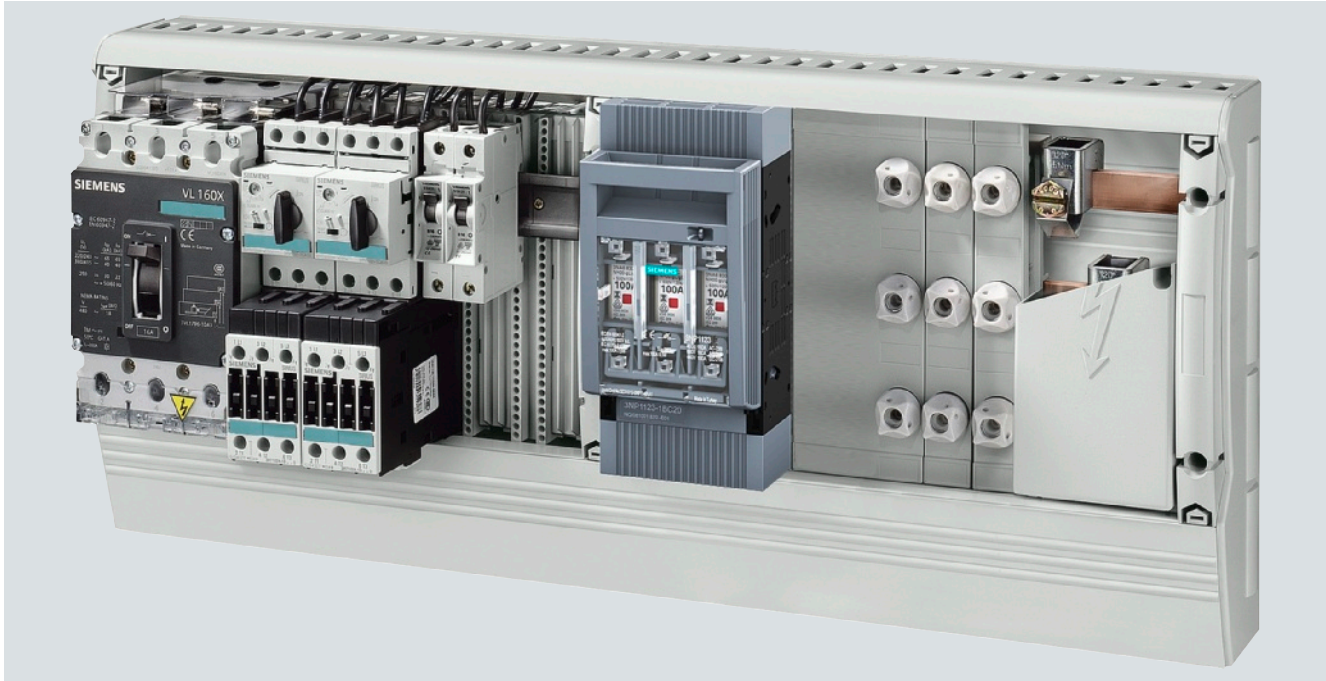
* You can order this quantity or a multiple thereof.

SENTRON 8US Busbar Systems

Introduction

General data

Overview



8US busbar systems with 40 mm busbar center-to-center spacing, completely compartmentalized

Benefits

Compared to conventional configuration in switchgear and control cabinets, this technique allows important cost savings and offers the following advantages: mechanical fixing and electrical contacting are achieved in one action; input wiring is dispensable, use of busbar terminals is reduced to a minimum and it provides a double utilization of the busbar space. All this is effective especially in cases where many tap-off units of the same performance range are required.

During operation, an easily traceable arrangement and rapid and uncomplicated replacement of single devices and assemblies are the most effective advantages. The busbar adapter system is completely finger-safe because it is covered by adapters and switching device holders. A high operational reliability is therefore guaranteed.

Application

Mounting current-limiting (protection) devices such as fuse switch disconnectors and circuit breakers, but also complete load feeders, directly onto busbars has become a commonly used technique.

8US busbar systems are designed for horizontal mounting of the busbars.

More information

Design

8US busbar systems with 40 mm and 60 mm busbar center-to-center spacing as well as flat copper profiles have now become firmly established on the world market. The permissible busbar temperature is a decisive factor when dimensioning the busbars. The busbar temperature is dependent on the current and the current distribution, on the busbar cross-section and the busbar surface, on the position of the busbars, convection and the ambient temperature. The values stated in the following table can only be considered as guide values because the conditions vary with each location. The values are based on uninterrupted current over the whole busbar length.

The busbar runs prove most advantageous when the incoming supply is centrally located and the load is distributed symmetrically on both sides.

Function

Short-circuit strength

The short-circuit strength of the busbar system is dependent on the distance of the busbar supports and on the busbar cross-section.

The short-circuit strength of the whole system is dependent on the short-circuit strength of the busbars and of the adapters with circuit breakers or switch disconnectors (see "Switch Disconnectors" and Chapter 16 "SENTRON Switching and Protection Devices for Power Distribution" --> "Molded-Case Circuit Breakers (MCCB)").

If one of these values is lower than the prospective short-circuit current at the place of installation, a current-limiting protective device has to be mounted upstream of the 8US busbar system. This may also be mounted as a feeder circuit breaker on the busbar system itself.

Technical specifications

Uninterrupted current for busbars, E-Cu bare, at 35 °C ambient temperature according to DIN 43671

Bar dimensions mm	System mm	Uninterrupted current at a busbar temperature of		
		65 °C A	85 °C A	105 °C A
12 × 5	40 + 60	188	248	295
15 × 5	40 + 60	222	293	349
20 × 5	60	274	362	430
25 × 5	60	327	432	513
30 × 5	60	379	500	595
12 × 10	40 + 60	302	398	474
20 × 10	60	427	564	670
30 × 10	60	573	756	900
Special profile up to 1600 A	60	1020	1020	1600

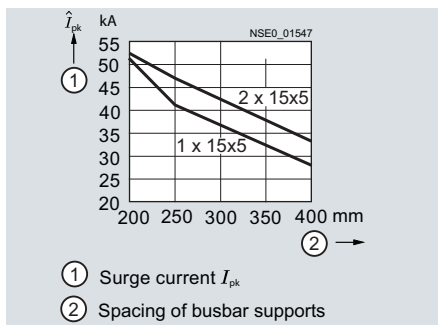
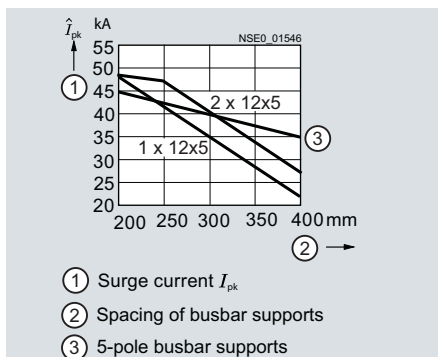
Technical specifications of the system components

Rated insulation voltage U_i	V AC	1000¹⁾
Short-circuit strength		
Of the 8US1 busbar adapters		Current limiting due to associated circuit breaker / load feeders up to 50 kA
Of the busbar systems		see Characteristic Curves
Material		
Of the 8US1 busbar supports, busbar adapters and device holders		Fiberglass-strengthened polyamide
Color		RAL 7035, light gray
Temperature resistance		
Busbar supports, busbar adapters, device holders, infeed and covers	°C	120
AWG connecting cables	°C	105
Cover profile	°C	110
Bases, partitions, edge profiles and blanking covers	°C	70
Approvals		
Busbar supports, busbar adapters, device holders and terminals		UR, CSA

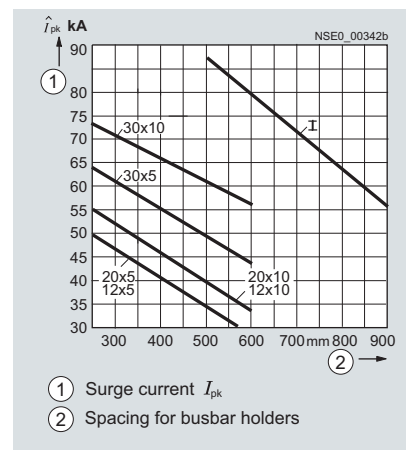
¹⁾ Reduction of U_i when using certain terminals in the 40-mm system, [see page 17/122](#).

Characteristic curves as a function of rated peak withstand current

40 mm busbar system



60 mm busbar system

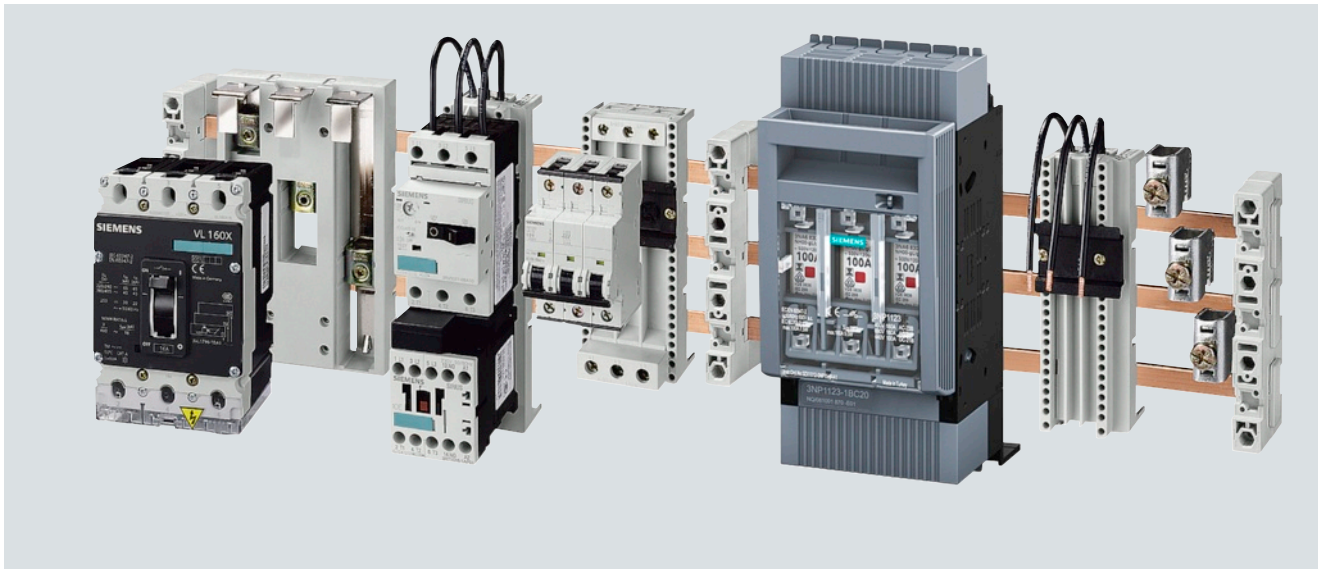


SENTRON 8US Busbar Systems

40 mm busbar system

General data

Overview



The 40 mm busbar system for the low performance range up to 400 A

The 40 mm busbar system is used in machinery and plant engineering, in motor control centers and in power distribution systems of the low performance range up to 400 A.

The busbar cross-sections are adapted to the rated currents and are available in the sizes 12 x 5 mm, 12 x 10 mm, 15 x 5 mm and 15 x 10 mm. The basic system is configured without covers. If touch protection is required, this is possible with busbar covers.

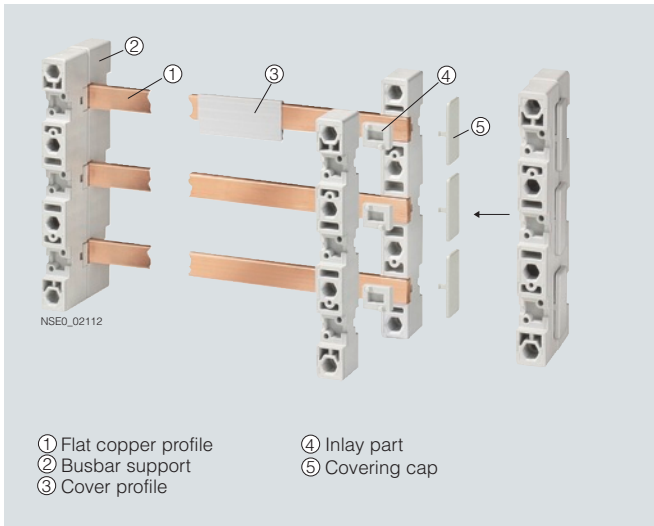
An optimized spectrum of busbar adapters and device holders offers numerous adaptation and mounting options. Terminals round off the product range of the 40 mm busbar system.

SENTRON 8US Busbar Systems

40 mm busbar system





Base assemblies

Overview



40 mm busbar system: Base assembly

Selection and ordering data

Description	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
 <p>②④⑤ Busbar supports End and intermediate holders for flat copper profiles 12 mm x 5 mm, 12 mm x 10 mm, 15 mm x 5 mm, 15 mm x 10 mm 3-pole, with inside fixing (PU = 2 busbar supports including inlay parts for bar thickness 5 mm and lateral finger-safe covers)</p>	A	8US19 03-3AB00		1	1 unit	143	0,184
 <p>5-pole, 12 mm x 5 mm and 12 mm x 10 mm with inside fixing</p>	L1-L3 + N + PE/N A	8US19 03-5AA00		1	1 unit	143	0,137
<p>① Flat copper profiles (flat profile, approx. 2.4 m long, bare, according to EN 12167)</p>							
 <p>12 mm x 5 mm</p>	B	8WC5 123		1	1 unit	143	1,100
<p>15 mm x 5 mm</p>	B	8WC5 121		1	1 unit	143	1.550
<p>③ Cover profiles for busbars</p>							
 <p>12 mm x 5 mm</p>	1000 mm long A	8US19 22-2CA00		1	10 units	143	0.200
<p>15 mm x 5 mm</p>	1000 mm long A	8US19 22-2AA00		1	10 units	143	0,156

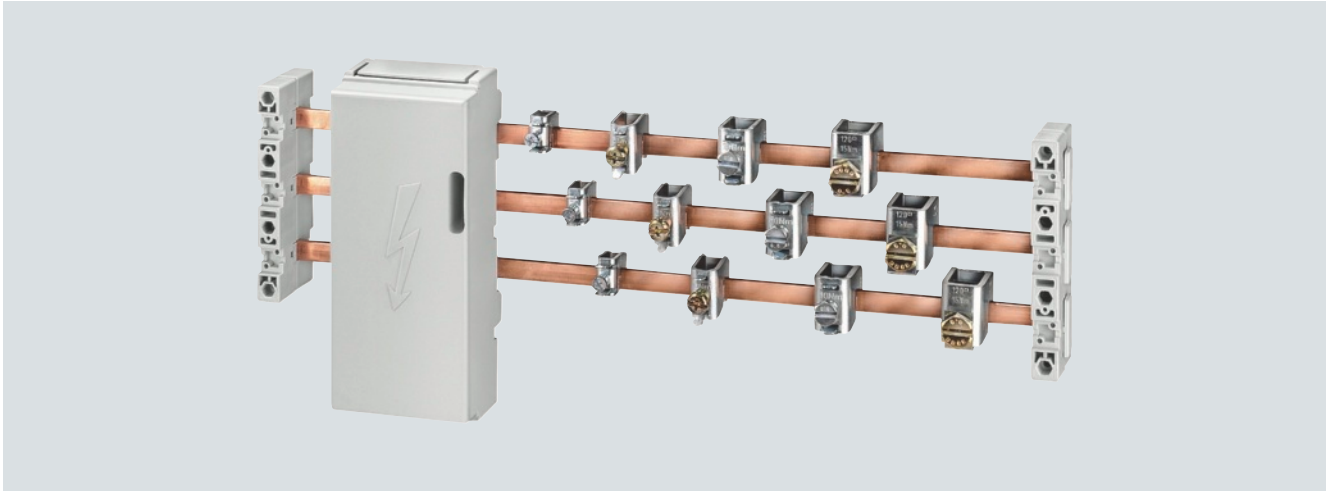
* You can order this quantity or a multiple thereof.

SENTRON 8US Busbar Systems

40 mm busbar system

Infeed and connection components

Overview



40 mm busbar system: Terminals and covers for infeed and connection components

Selection and ordering data

Description	Conductor cross-section mm ²	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
Terminals for circular conductors¹⁾²⁾									
5 mm bar thickness									
<p>Terminals</p>	12 mm × 5 mm, 15 mm × 5 mm	1.5 ... 16 ▶	8US19 21-2AA00		100	100 units	143	0,100	
		4 ... 35 ▶	8US19 21-2AB00		100	50 units	143	4.600	
		16 ... 70 ▶	8US19 21-2AD00		1	50 units	143	0.072	
		16 ... 120 ▶	8US19 21-2AC00		1	50 units	143	0,107	
		1.5 ... 16 ▶	8US19 21-2AA01		1	15 units	143	0.020	
		4 ... 35 ▶	8US19 21-2AB01		1	15 units	143	0.020	
		16 ... 70 ▶	8US19 21-2AD01		1	15 units	143	0.020	
		16 ... 120 ▶	8US19 21-2AC01		1	15 units	143	0.020	
	10 mm busbar thickness								
		12 mm × 10 mm, 15 mm × 10 mm	1.5 ... 16 ▶	8US19 21-2BA00		1	100 units	143	0.020
		4 ... 35 ▶	8US19 21-2BB00		1	50 units	143	0.040	
		16 ... 70 ▶	8US19 21-2BD00		1	50 units	143	0.070	
		16 ... 120 ▶	8US19 21-2BC00		1	50 units	143	0,100	
		1.5 ... 16 ▶	8US19 21-2BA01		1	15 units	143	0.020	
		4 ... 35 ▶	8US19 21-2BB01		1	15 units	143	0.040	
		16 ... 70 ▶	8US19 21-2BD01		1	15 units	143	0.070	
		16 ... 120 ▶	8US19 21-2BC01		1	15 units	143	0,100	
Covers for terminals for circular conductors (attachment to busbar)									
For terminals up to 120 mm ² 200 mm long, 84 mm wide		▶	8US19 22-1GA00		1	10 units	143	0,126	

¹⁾ When using the 8US19 03-3AB00 busbar support in combination with the 8US19 21-2.D0. or 8US19 21-2.C0. terminals, U_i is reduced to 690 V.

²⁾ When using the 8US19 03-5AA00 busbar support with a 12 mm × 10 mm busbar, U_i is reduced to

a) 690 V when using the 8US19 21-2.A0. or 8US19 21-2.B0. terminals.

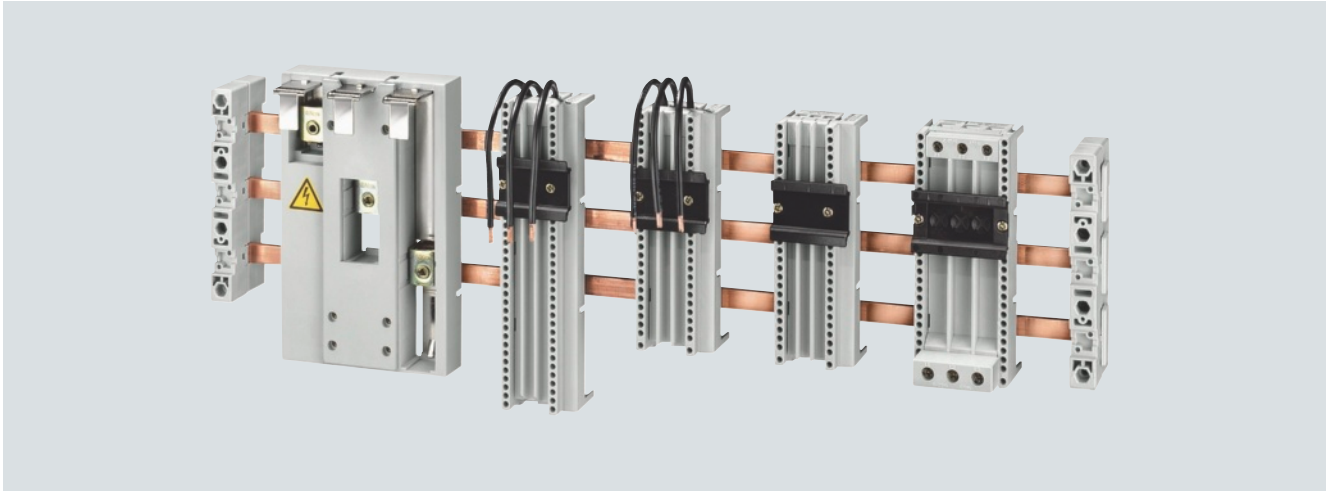
b) 480 V when using the 8US19 21-2.C0. or 8US19 21-2.D0. terminals.

SENTRON 8US Busbar Systems

40 mm busbar system

Busbar adapters and device holders



Overview



40 mm busbar system: Busbar adapters and device holders

Selection and ordering data

For flat copper profiles according to DIN 46433. Width: 12 mm and 15 mm, thickness 5 mm and 10 mm

	Busbar device adapters	Number of mounting rails (35 mm)	Rated current A	Con- nection lead AWG	Adapters		Rated voltage V	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
					Length mm	Width mm								
	For SIRIUS													
	Size S00/S0													
	MSPs/circuit breakers	1	25	12	121	45	690	▶	8US10 51-5DJ07		1	1 unit	143	0,106
	MSPs/circuit breakers + lateral auxiliary switch	1	25	12	121	55	690	▶	8US10 61-5DJ07		1	1 unit	143	0,119
	Contactors + overload relay	1	25	12	139	45	690	▶	8US10 51-5DK07		1	1 unit	143	0,164
	Direct start load feeders	1	25	12	182	45	690	▶	8US10 51-5DM07		1	1 unit	143	0,184
	Reversing feeder adapters + Connecting wedge	1	25	12	182	45	690	▶	8US10 51-5DM07		1	1 unit	143	0,184
	Device holders + Connecting wedges (2 units needed for attachment)	1	--	--	182	45	--	▶	8US10 50-5AM00 8US19 98-1AA00		1	1 unit	143	0,182
		--	--	--	--	--	--	▶	8US19 98-1AA00		100	100 units	143	0,100
	Size S00 – spring-type													
	Direct start load feeders	1	12.5	14	182	45	690	▶	8US10 51-5CM47		1	1 unit	143	0,193
	Size S2													
	MSPs/circuit breakers	1	56	8	139	55	690	▶	8US10 61-5FK08		1	1 unit	143	0,231
	MSPs/circuit breakers + lateral auxiliary switch	1	56	8	139	55	690	▶	8US10 61-5FK08		1	1 unit	143	0,231
	Contactors + overload relay	1	56	8	182	55	690	▶	8US10 61-5FM08		1	1 unit	143	0,278
	Direct start load feeders	1	56	8	242	55	690	▶	8US10 61-5FP08		1	1 unit	143	0,308
	Connecting wedge													

* You can order this quantity or a multiple thereof.

SENTRON 8US Busbar Systems

40 mm busbar system

Busbar adapters and device holders

Busbar device adapters	Number of mounting rails (35 mm)	Rated current	Conne- tion lead	Adapters		Rated voltage	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
				Length	Width								
		A	AWG	mm	mm	V							
Size S3													
Circuit breakers	--	100	Busbars	182	70	Up to 460 ²⁾	▶	8US11 11-4SM00		1	1 unit	143	0.541
Circuit breakers	1	100	3	182	72	Up to 690 ³⁾	▶	8US10 11-4TM00		1	1 unit	143	0.478
For 3VL circuit breakers⁴⁾⁵⁾													
3VL1	--	160	Busbars	175	108	690	A	8US10 11-4SL01		1	1 unit	143	0.585
3VL2	--	160	Busbars	175	108	690	A	8US10 11-4SL01		1	1 unit	143	0.585
With terminals (at top) for any arrangement of components													
1.5 mm ² ... 4 mm ²	1	25	--	139	45	690	A	8US10 50-5RK07		1	1 unit	143	0,149
1.5 mm ² ... 4 mm ²	1	25	--	182	45	690	A	8US10 50-5RM07		1	1 unit	143	0,177
16 mm ² (top) and 35 mm ² (bottom) ⁶⁾	1	80	--	139	54	690	A	8US10 60-5AK00		1	1 unit	143	0.295
Device holders for lateral attachment to busbar device adapters of the same length													
Device holders	1	--	--	139	45	--	A	8US10 50-5AK00		1	1 unit	143	0,149
Device holders	1	--	--	139	55	--	A	8US10 60-5AK08		1	1 unit	143	0,162
Device holders	1	--	--	182	45	--	▶	8US10 50-5AM00		1	1 unit	143	0,182
Device holders	1	--	--	182	55	--	▶	8US10 60-5AM00		1	1 unit	143	0,197
Connecting wedges (2 units needed for attachment)	--	--	--	--	--	--	▶	8US19 98-1AA00		100	100 units	143	0,100
Side modules for extending busbar device adapters and device holders of the same length													
Side modules	--	--	--	139	13.5	--	A	8US19 98-2BK00		1	4 units	143	0.023
Side modules	--	--	--	182	13.5	--	A	8US19 98-2BM00		1	4 units	143	0.036

1) ≤ 400 V max. 50 kA, 400 V ... 460 V max. 25 kA.

2) Up to 525 V max. 30 kA, 525 V ... 690 V max. 12 kA.

3) Observe the short-circuit strength of the busbar system. Short-circuit strength > 50 kA on request.

4) Usable only for 3VL circuit breakers with line-side box terminal.

5) Can be used simultaneously as feeder unit and tap-off unit.

SENTRON 8US Busbar Systems

40 mm busbar system

Busbar adapters and device holders

For 3NP1 fuse switch disconnectors for snapping onto 40 mm busbar systems

Rated current I_U	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg

For cover level 32 / 70 mm,
with reach-around protection for 8US busbar system

Basic units

Flat connectors

160 00 / 000

A **3NP1 133-1BB10**

1 1 unit 143 0.980

Box terminals

160 000

A **3NP1 123-1BB20**

1 1 unit 143 0.820

160 00 / 000

A **3NP1 133-1BB20**

1 1 unit 143 0.980



3NP1 133-1BB20

With MFM electromechanical fuse monitoring

Flat connectors

160 00 / 000

A **3NP1 133-1BB11**

1 1 unit 143 1.420

Box terminals

160 00/000

A **3NP1 133-1BB21**

1 1 unit 143 1.420



3NP1 133-1BB21

With electronic EFM 10 fuse monitoring

Flat connectors

160 00 / 000

A **3NP1 133-1BB12**

1 1 unit 143 1,120

Box terminals

160 000

A **3NP1 123-1BB22**

1 1 unit 143 0.940

160 00 / 000

A **3NP1 133-1BB22**

1 1 unit 143 1,120



3NP1 133-1BB22

With electronic EFM 20 fuse monitoring and line monitoring

Flat connectors

160 00 / 000

C **3NP1 133-1BB13**

1 1 unit 143 1,120

Box terminals

160 000

C **3NP1 123-1BB23**

1 1 unit 143 0.940

160 00 / 000

C **3NP1 133-1BB23**

1 1 unit 143 1,120



3NP1 133-1BB23

Note:

Delivered from factory with cable feeder at bottom and convertible by the customer.

For accessories for 3NP1 fuse switch disconnectors see page 17/107.

SENTRON 8US Busbar Systems

40 mm busbar system

Accessories

Selection and ordering data

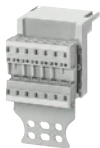
Description	Busbar length	Busbar width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm	mm							kg
Busbar connection pieces for bars									
12 mm x 5 mm, 12 mm x 10 mm, 15 mm x 5 mm, 15 mm x 10 mm, 20 mm x 5 mm, 20 mm x 10 mm	55		A	8US19 21-2BF00		1	12 units	143	0.070
Mounting rails (35 mm) – plastic									
Complete with fixing screws	45		A	8US19 98-7CA15		1	10 units	143	0.009
	55		A	8US19 98-7CA16		1	10 units	143	0,100
	72		A	8US19 98-4AA00		1	10 units	143	0,143
	90		A	8US19 98-7CA08		1	10 units	143	0,187
	110		A	8US19 98-7CA10		1	10 units	143	0.219
Connection holders									
Fixes the circuit breaker to the mounting rail ¹⁾ (for SIRIUS size S00/S0)			A	8US19 98-1DA00		100	20 units	143	0,100
Screw holders									
For supplementary screw mounting of the feeder (for SIRIUS size S00/S0)			B	8US19 98-1CA00		100	20 units	143	0,100
Spacers									
Fixes the feeder to the busbar adapter (for SIRIUS size S00/S0)			▶	8US19 98-1BA00		100	100 units	143	0,100
Connecting wedges									
For mechanical linking of adapters and device holders (2 units per combination)			▶	8US19 98-1AA00		100	100 units	143	0,100
Load-side terminal strips for busbar adapters									
Complete with supporting element for attachment to busbar adapter and device holder									
3 × 2.5 mm ² (400 V) and 4 × 1.5 mm ² (250 V)	91	45	A	8US19 98-8AM07		1	1 unit	143	0.061
7 × 2.5 mm ² (400 V)	91	54	D	8US19 98-8AA10		1	1 unit	143	0.072



Mounting rail



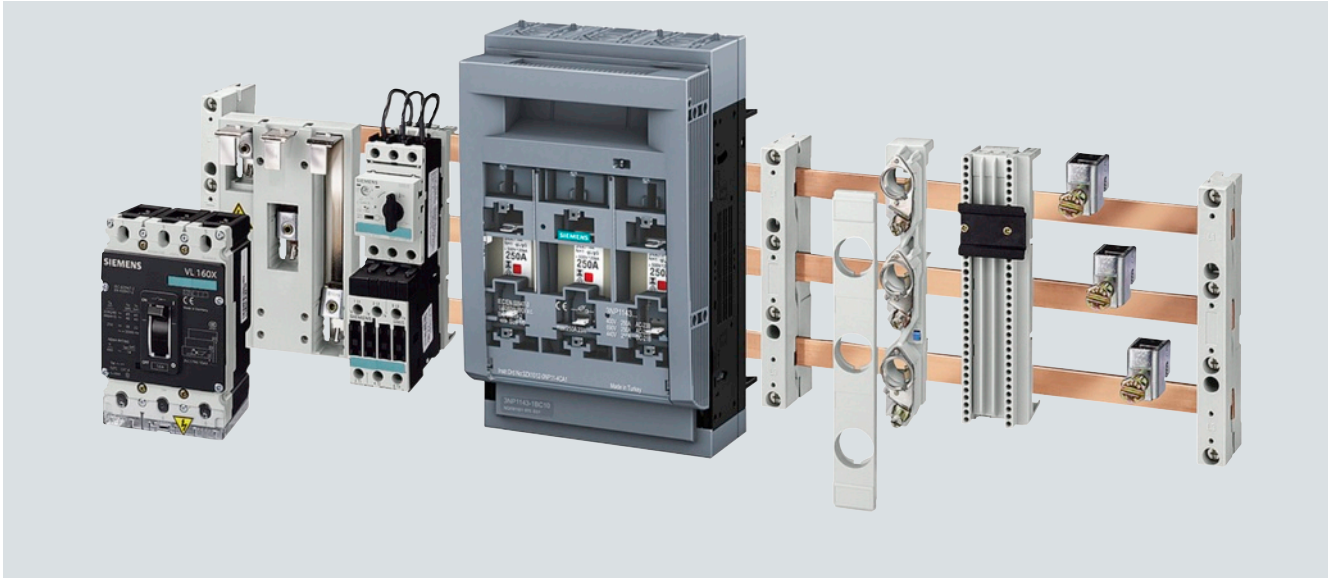
Connecting wedge



8US19 98-8AA10

¹⁾ For 45 mm and 55 mm mounting rail.

Overview



The 60 mm busbar system for the medium and top performance range up to 1600 A, here with for example the 3NP1 switch disconnecter, size 3

The 60 mm busbar system is used preferably in control cabinet installation, in motor control centers and in power distribution systems of the medium power range (630 A) and top performance range (1600 A, special profile).

The 60 mm busbar system can be used as a basic system without covers, as a partly compartmented system or as a fully compartmented system with base. The busbar cross-sections are available in the sizes 12 x 5 mm to 30 x 10 mm and as a special profile.

Busbar adapters for SIRIUS, 3VL circuit breakers, 3KA and 3KL switch disconnectors, and 3NP1 and 3NP5 fuse switch disconnectors offer numerous options for configuring this busbar system. Feeder units, terminals and other accessories open up a large range of application.

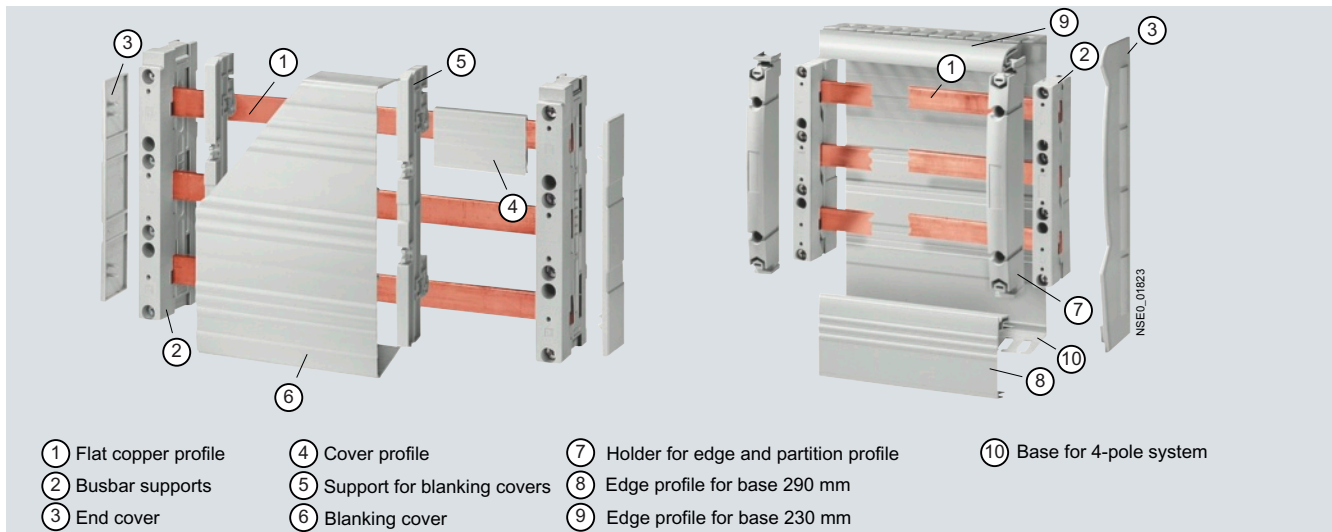
Busbars with a special profile are suitable for applications up to 1600 A. All components of the 60 mm busbar system can be fitted.

SENTRON 8US Busbar Systems

60 mm busbar system





Base assemblies up to 630 A

Overview



60 mm busbar system: Base assemblies up to 630 A

Selection and ordering data










Description	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
② Busbar supports							
End and intermediate holders for flat copper profiles 12 mm x 5 mm, 12 mm x 10 mm, 15 mm x 5 mm, 15 mm x 10 mm, 20 mm x 5 mm, 20 mm x 10 mm, 25 mm x 5 mm, 25 mm x 10 mm, 30 mm x 5 mm, 30 mm x 10 mm							
 8US19 23-1AA01	PE/N	A	8US19 23-1AA01	1	10 units	143	0.200
1-pole, in addition for copper profiles 6 x 6 mm, mounting on 8US1923-2AA01 3-pole busbar supports or free standing							
 8US19 23-2AA01	L1-L3	A	8US19 23-2AA01	1	10 units	143	0.200
3-pole, with outside fixing							
 8US19 23-3AA01	L1-L3	A	8US19 23-3AA01	1	10 units	143	0.200
3-pole, with inside fixing							
 8US19 23-4AA00	L1-L3 + PE/N	A	8US19 23-4AA00	1	10 units	143	0.269
4-pole, with inside fixing							
 8US19 23-5AA00	PE/N	A	8US19 23-5AA00	1	10 units	143	0.200
2-pole, with outside fixing							

* You can order this quantity or a multiple thereof.

SENTRON 8US Busbar Systems

60 mm busbar system

Base assemblies up to 630 A







Description	Length	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	mm	mm							kg	
③ End covers										
For covering unterminated busbar ends										
 8US19 22-1AC00	For 8US19 23-2AA01 or 8US19 23-3AA01	L1-L3	A	8US19 22-1AC00		1	10 units	143	0.020	
 5SH3 534	• 4-pole, for 8US19 23-4AA00 1 pack = 2 units (1x right, 1x left)	L1-L3 + PE/N	A	8US19 22-1AB00		1	1 unit	143	0.055	
For 5SH3 532 holder										
	• Height 230 mm (3-pole)		B	5SH3 533		1	4 units	016	0.038	
	• Height 290 mm (4-pole or 3-pole + cable duct), 1 pack = 2 units (1x right, 1x left)		C	5SH3 534		1	4 units	016	0.048	
④ Cover profiles for busbars										
 8US19 22-2CA00	12 mm × 5 mm	1000	A	8US19 22-2CA00		1	10 units	143	0.200	
 8US19 22-2AA00	15 mm × 5 mm, 20 mm × 5 mm, 25 mm × 5 mm, 30 mm × 5 mm	1000	A	8US19 22-2AA00		1	10 units	143	0,156	
 5SH3 532	12 mm × 10 mm, 15 mm × 10 mm, 20 mm × 10 mm, 25 mm × 10 mm, 30 mm × 10 mm	1000	A	8US19 22-2BA00		1	10 units	143	0,105	
⑦ Holders for edge profiles and partitions										
	For 5SH3 528 and 5SH3 530		B	5SH3 532		1	2 units	016	0,106	
Edge profiles¹⁾										
 5SH3 528	⑨ For base 230 mm 17 mm × 36 mm, for 3-pole version	1100	B	5SH3 528		1	2 units	016	0.311	
 5SH3 530	⑩ For base 290 mm 77 mm × 36 mm, for 4-pole version	1100	C	5SH3 530		1	2 units	016	0.583	
⑤ Supports (for blanking covers)										
 5SH3 536	Mounting on busbar (2 units per section of blanking cover)	1000	190	B	5SH3 536		1	4 units	016	0.040
⑥ Blanking covers										
 5SH3 537	Mounting on 5SH3 536 support for blanking covers	1000	202	A	5SH3 537		1	2 units	016	0.075

¹⁾ When configuring a 3-pole busbar system with the base 230 mm, only ⑨ 5SH3 528 is required.
When configuring a 4-pole busbar system (or a 3-pole with cable duct) with the 290 mm base, ⑨ 5SH3 528 and ⑩ 5SH3 530 are required.

SENTRON 8US Busbar Systems

60 mm busbar system

Base assemblies up to 630 A

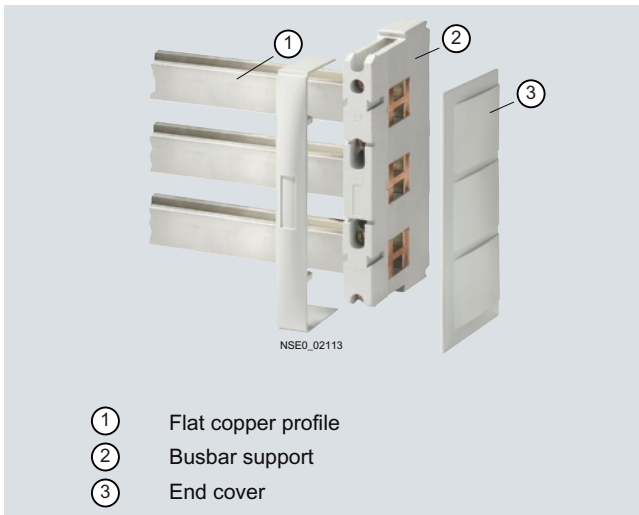
Description	Length	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	mm	mm							kg	
⑩ Bases										
	3-pole system	1100	230	B	5SH3 526	1	1 unit	016	1,100	
	4-pole system (or 3-pole system with cable duct)	1100	290	C	5SH3 527	1	2 units	016	1.300	
5SH3 527										
Partition profiles (for additional touch protection on systems without base)										
	Slotted 17 mm × 86 mm	1100		C	5SH3 531	1	2 units	016	0.365	
	Closed 17 mm × 86 mm	1100		A	8US19 22-1HA00	1	2 units	143	0.070	
5SH3 531										
① Flat copper profiles (flat profile, approx. 2.4 m long, bare, according to EN 12167)										
	12 mm × 5 mm			B	8WC5 123	1	1 unit	143	1,100	
	15 mm × 5 mm			B	8WC5 121	1	1 unit	143	1.550	
	20 mm × 5 mm			B	8WC5 126	1	1 unit	143	1.780	
	25 mm × 5 mm			B	8WC5 131	1	1 unit	143	2.240	
	30 mm × 5 mm			B	8WC5 133	1	1 unit	143	2.680	
	20 mm × 10 mm			B	8WC5 128	1	1 unit	143	3.200	
	30 mm × 10 mm			B	8WC5 134	1	1 unit	143	5.360	
8WC5										
① Flat copper profiles (flat profile, approx. 2 m long, tinned, according to EN 12167)										
	12 mm × 5 mm			B	8WC5 051	1	1 unit	143	1,100	
	15 mm × 5 mm			B	8WC5 052	1	1 unit	143	1.550	
	20 mm × 5 mm			B	8WC5 053	1	1 unit	143	1.780	
	25 mm × 5 mm			B	8WC5 054	1	1 unit	143	2.240	
	30 mm × 5 mm			B	8WC5 055	1	1 unit	143	2.680	
	20 mm × 10 mm			B	8WC5 063	1	1 unit	143	3.200	
	30 mm × 10 mm			B	8WC5 065	1	1 unit	143	5.360	
Busbar connection pieces for bars										
For flat profiles (max. 630 A)										
	20 mm × 5 mm, 20 mm × 10 mm, 25 mm × 5 mm, 25 mm × 10 mm, 30 mm × 5 mm, 30 mm × 10 mm	40		A	8US19 21-2BE00	1	6 units	143	0.070	
	For flat profiles (max. 630 A)									
		12 mm × 5 mm, 12 mm × 10 mm, 15 mm × 5 mm, 15 mm × 10 mm, 20 mm × 5 mm, 20 mm × 10 mm	55		A	8US19 21-2BF00	1	12 units	143	0.070
8US19 21-2BE00										
8US19 21-2BF00										

SENTRON 8US Busbar Systems

60 mm busbar system

Base assemblies up to 1600 A






Overview



- ① Flat copper profile
- ② Busbar support
- ③ End cover

60 mm busbar system: Base assembly up to 1600 A

Selection and ordering data

Description	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
 Busbar supports 3-pole, end and intermediate holder with finger-safe busbar cover (1 pack = 2 busbar supports + finger-safe end covers)	L1-L3	A	8US19 43-3AA00	1	1 unit	143	1.310
 Flat copper profiles (approx. 2.4 m long, tinned) Special profile up to 1600 A	720 mm ²	A	8US19 48-2AA00	1	1 unit	143	15.360
Cover profile For flat copper profile	1000 mm long	A	8US19 22-2DA00	1	5 units	143	0.200
 Busbar connection pieces For special profiles/TT profiles up to 1600 A		A	8US19 41-2BF00	1	3 units	143	1,134
Partitions, closed 76 mm wide, 2400 mm long For additional touch protection at the top/bottom		C	8US1922-1JA00	1	1 unit	143	0.700
 Support (for blanking covers) Mounting on busbar (2 units per section of blanking cover)	1000	B	5SH3 536	1	4 units	016	0.040
 Blanking cover Mounting on 5SH3 536 support for blanking covers	1000	A	5SH3 537	1	2 units	016	0.075

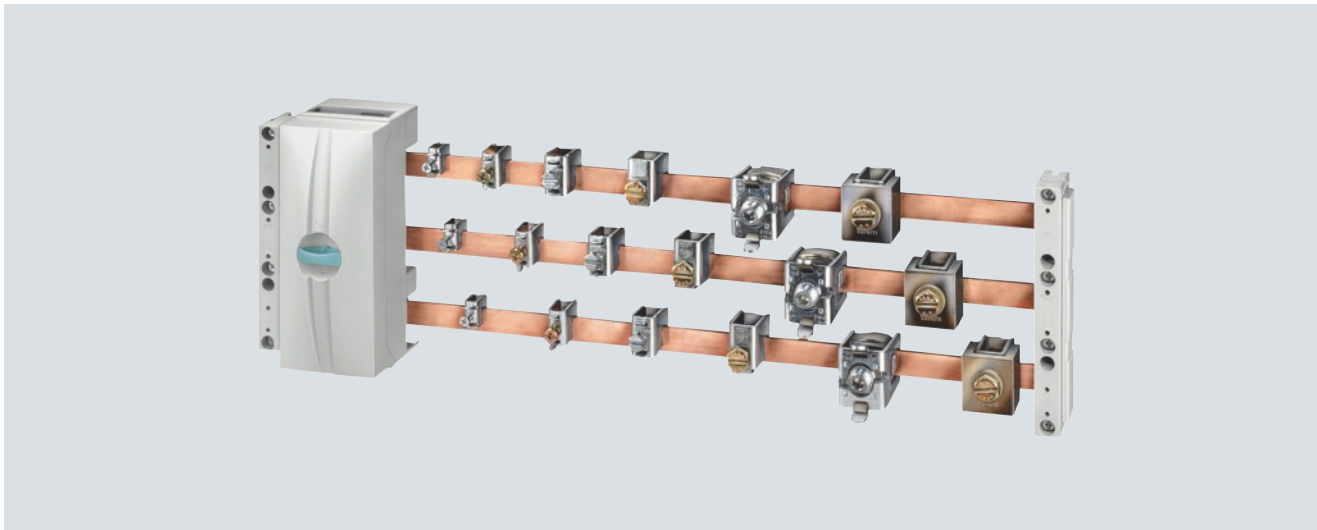
* You can order this quantity or a multiple thereof.

SENTRON 8US Busbar Systems

60 mm busbar system

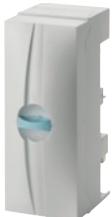



Infeed and connection components

Overview



60 mm busbar system: Terminals and covers for infeed and connection components

Selection and ordering data

Description	Conductor cross-section mm ²	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Infeeds								
 Connecting terminal plate with cover 3-pole, 200 mm length, 54 mm width	6 ... 50	A	8US19 21-1BA00		1	1 unit	143	0.397
3-pole, 200 mm length, 81 mm width	35 ... 120	A	8US19 21-1AA00		1	1 unit	143	0.607
Outgoing modules for PE/N								
 Connection module for 4-pole (PE/N) up to 16 mm long, 18 mm wide must be attached to an adapter/device holder	242 mm long, 18 mm wide	A	8US12 00-0AA00		1	1 unit	143	0,142
SR60 connecting terminal plates								
 3-pole (shown without cover)	150 ... 300	C	5SH3 535		1	1 unit	016	1.657
Terminal sets								
 3-pole without cover for round cables	120 ... 300	A	8US19 41-2AA03		1	1 unit	143	0,160

8US19 21-1AA00

5SH3 535



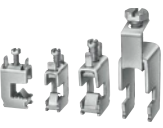
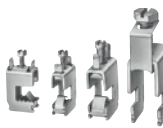


8US19 41-2AA03

* You can order this quantity or a multiple thereof.

SENTRON 8US Busbar Systems

60 mm busbar system

Infeed and connection components

Description	Conductor cross-section mm ²	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
Terminal sets									
 8US19 41-2AA04	3-pole without cover for flat bars up to 32 x 20 mm	A	8US19 41-2AA04		1	1 unit	143	0,140	
 8US19 22-1GC00	Covers for 8US19 41-2AA03/04 terminal set	A	8US19 22-1GC00		1	1 unit	143	0,150	
Terminals for circular conductors									
5 mm busbar thickness¹⁾									
 Terminals	12 mm × 5 mm,	1,5 ... 16 ▶	8US19 21-2AA00		100	100 units	143	0,100	
	15 mm × 5 mm,	4 ... 35 ▶	8US19 21-2AB00		100	50 units	143	4,600	
	20 mm × 5 mm,	16 ... 70 ▶	8US19 21-2AD00		1	50 units	143	0,072	
	25 mm × 5 mm,	16 ... 120 ▶	8US19 21-2AC00		1	50 units	143	0,107	
	30 mm × 5 mm	1,5 ... 16 ▶	8US19 21-2AA01		1	15 units	143	0,020	
		4 ... 35 ▶	8US19 21-2AB01		1	15 units	143	0,020	
		16 ... 70 ▶	8US19 21-2AD01		1	15 units	143	0,020	
		16 ... 120 ▶	8US19 21-2AC01		1	15 units	143	0,020	
	20 mm × 5 mm, 25 mm × 5 mm, 30 mm × 5 mm	95 ... 185 ▶	8US19 41-2AA01		1	6 units	143	0,315	
		150 ... 300 ▶	8US19 41-2AA02		1	3 units	143	0,425	
10 mm busbar thickness									
 Terminals	12 mm × 10 mm, 15 mm × 10 mm, 20 mm × 10 mm, 25 mm × 10 mm, 30 mm × 10 mm	1,5 ... 16 ▶	8US19 21-2BA00		1	100 units	143	0,020	
		4 ... 35 ▶	8US19 21-2BB00		1	50 units	143	0,040	
		16 ... 70 ▶	8US19 21-2BD00		1	50 units	143	0,070	
		16 ... 120 ▶	8US19 21-2BC00		1	50 units	143	0,100	
		1,5 ... 16 ▶	8US19 21-2BA01		1	15 units	143	0,020	
		4 ... 35 ▶	8US19 21-2BB01		1	15 units	143	0,040	
		16 ... 70 ▶	8US19 21-2BD01		1	15 units	143	0,070	
		16 ... 120 ▶	8US19 21-2BC01		1	15 units	143	0,100	
	20 mm × 10 mm, 25 mm × 10 mm, 30 mm × 10 mm	95 ... 185 ▶	8US19 41-2AA01		1	6 units	143	0,315	
		150 ... 300 ▶	8US19 41-2AA02		1	3 units	143	0,425	
Covers for terminals for circular conductors (attachment to busbar)									
 8US19 22-1GA00	For terminals up to 120 mm ²	200 mm long, 84 mm wide ▶	8US19 22-1GA00		1	10 units	143	0,126	
	For terminals up to 300 mm ²	200 mm long, 270 mm wide ▶	8US19 22-1GA02		1	1 unit	143	0,696	
Terminals									
 8US19 41-2BB00	For cable lugs up to 240 mm ² , 10 mm bar thickness	(threaded bolts M10)	A	8US19 41-2AC00		1	6 units	143	0,368
	For copper bars or laminated conductors 20 mm × 5 mm, 20 mm × 10 mm, 25 mm × 5 mm, 25 mm × 10 mm, 30 mm × 5 mm, 30 mm × 10 mm		A	8US19 41-2BB00		1	6 units	143	0,307
	For 2 × 40 mm × 10 mm		A	8US19 41-2BA00		1	3 units	143	0,824

¹⁾ Cannot be used on a special profile up to 1600 A.

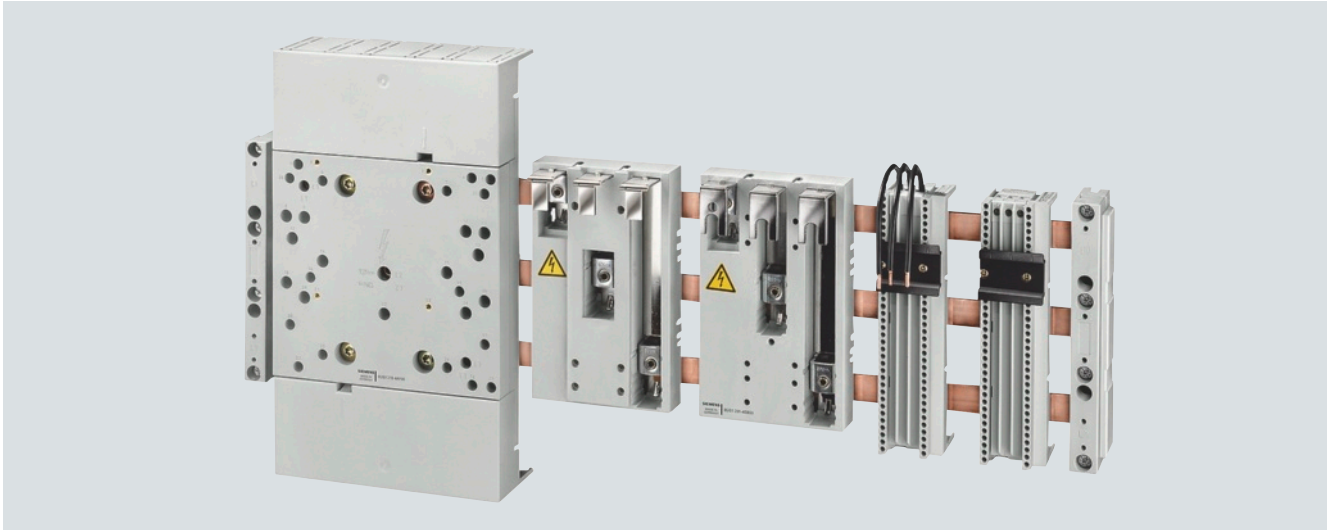
²⁾ Only for 20 mm × 5 mm, 20 mm × 10 mm, 25 mm × 5 mm, 25 mm × 10 mm, 30 mm × 5 mm and 30 mm × 10 mm.

SENTRON 8US Busbar Systems

60 mm busbar system

Busbar adapters and device holders



Overview



60 mm busbar system: Busbar adapters and device holders

Selection and ordering data

For flat copper profiles according to DIN 46433. Width 12 mm to 30 mm, thickness 5 mm and 10 mm, and special profiles up to 1600 A




	Busbar device adapters	Number of mounting rails (35 mm)	Rated current A	Con- nection lead AWG	Adapters		Rated volt- age V	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
					Length mm	Width mm								
For SIRIUS														
Size S00/S0														
	MSPs/circuit breakers	1	25	12	182	45	690	▶	8US12 51-5DM07		1	1 unit	143	0,183
	Contactors + overload relay	1	25	12	182	45	690	▶	8US12 51-5DM07		1	1 unit	143	0,183
	Direct start load feeders	1	25	12	182	45	690	▶	8US12 51-5DM07		1	1 unit	143	0,183
	Reversing feeder adapters	1	25	12	182	45	690	▶	8US12 51-5DM07		1	1 unit	143	0,183
Direct start load feeder	+ Device holders ¹⁾	1	--	--	182	45	--	▶	+ 8US12 50-5AM00		1	1 unit	143	0,158
	+ Connecting wedges (2 units needed for attachment)	--	--	--	--	--	--	▶	+ 8US19 98-1AA00		100	100 units	143	0,100
Size S00 – spring-type														
	Direct start load feeders	1	12.5	14	182	45	690	▶	8US12 51-5CM47		1	1 unit	143	0,190

¹⁾ Only for size "S00"; the 55 mm wide 8US1260-5AM00 device holder must be used for size "S0"

SENTRON 8US Busbar Systems

60 mm busbar system

Busbar adapters and device holders

Busbar device adapters	Number of mounting rails (35 mm)	Rated current	Con-nection lead	Adapters		Rated voltage	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
				Length	Width								
		A	AWG	mm	mm	V							kg
Size S2													
	MSPs/circuit breakers	1	56	8	182	55	690	▶	8US12 61-5FM08	1	1 unit	143	0.263
	Contactors + overload relay	1	56	8	182	55	690	▶	8US12 61-5FM08	1	1 unit	143	0.263
	Direct start load feeders	1	56	8	242	55	690	▶	8US12 61-5FP08	1	1 unit	143	0.292
	Reversing feeder adapters	1	56	8	242	55	690	▶	8US12 61-5FP08	1	1 unit	143	0.292
	+ Device holders ¹⁾	--	--	--	242	54	--	▶	8US12 60-5AP00	1	1 unit	143	0.243
Reversing feeders	+ Connecting wedges (2 units needed for attachment)	--	--	--	--	--	--	▶	8US19 98-1AA00	100	100 units	143	0,100
	Connecting wedge												
Size S3													
	MSPs/circuit breakers	--	100	Busbars	182	70	Up to 460 ³⁾	▶	8US11 11-4SM00	1	1 unit	143	0.541
	MSPs/circuit breakers ²⁾	1	100	4	182	72	Up to 690 ⁴⁾	A	8US12 11-4TM00	1	1 unit	143	0.498
For 3VL circuit breakers⁶⁾													
	3VL1 ⁷⁾	--	160	Busbars	175	108	690	A	8US12 11-4SL01	1	1 unit	143	0.597
	3VL2 ⁷⁾	--	160	Busbars	175	108	690	A	8US12 11-4SL01	1	1 unit	143	0.597
	3VL3 ⁷⁾	--	250	Busbars	175	108	690	A	8US12 11-4SL00	1	1 unit	143	0.662
	3VL1 to 3VL4 and also with RCD module ⁷⁾	--	400	M10 stud terminal	320	184	690	A	8US12 10-4AF00	1	1 unit	143	2.769
								A	8US19 27-4AF01	1	1 unit	143	0.575
	3VL5	--	580	M8 stud terminal	325	184	690	A	8US12 13-4AF00	1	1 unit	143	2.880
8US10 11-4SL01													
for switch disconnectors													
	3KA52 ⁵⁾	--	630	M10 stud terminal	320	184	690	A	8US12 10-4AF00	1	1 unit	143	2.769
	3KA53 ⁵⁾												
	3KL52 ⁵⁾												
	3KL53 ⁵⁾												
	3KA55 ⁵⁾	--	630	M10 stud terminal	320	250	690	A	8US12 10-4AG00	1	1 unit	143	3.060
	3KA57 ⁵⁾												
	3KA58 ⁵⁾												
	3KL55 ⁵⁾												
	3KL57 ⁵⁾												

¹⁾ Spacer and fixing screw for reversing contactor are included in the scope of supply.

²⁾ According to UL 508 rated current 80A.

³⁾ ≤ 400 V max. 50 kA, 400 V ... 460 V max. 25 kA.

⁴⁾ Up to 525 V max. 30 kA, 525 V ... 690 V max. 12 kA.

⁵⁾ Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e. g. H07V-R with cable lug, or as a flat conductor for a M10 bolt terminal.




⁶⁾ Observe the short-circuit strength of the busbar system. Short-circuit strength > 50 kA on request.

⁷⁾ Usable only for 3VL circuit breakers with line-side box terminal.

SENTRON 8US Busbar Systems

60 mm busbar system

Busbar adapters and device holders

Busbar device adapters	Number of mounting rails (35 mm)	Rated current	Con-nection lead	Adapters		Rated voltage	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
				Length	Width								
		A	AWG	mm	mm	V							
For 3NP5 fuse switch disconnectors													
3NP50 60 (NH00)	--	160	Busbars	175	108	690	A	8US12 91-4SB00		1	1 unit	143	0.551
3NP52 ¹⁾ , 3NP53 ¹⁾ , 3NP54 ²⁾	--	630	M10 stud terminal	320	250	690	A	8US12 10-4AG00		1	1 unit	143	3.060
Busbar device adapters with terminals (at top) for any arrangement of components													
1.5 mm ² ... 4 mm ²	1	25	--	182	45	690	A	8US12 50-5RM07		1	1 unit	143	0,174
	8US12 50-5RM07												
Device holders for lateral attachment to busbar device adapters of the same length													
Device holders	1	--	--	182	45	--	▶	8US12 50-5AM00		1	1 unit	143	0,158
Device holders	1	--	--	182	55	--	▶	8US12 60-5AM00		1	1 unit	143	0.202
Device holders	--	--	--	242	54	--	▶	8US12 60-5AP00		1	1 unit	143	0.243
Connecting wedges (2 units needed for attachment)	--	--	--	--	--	--	▶	8US19 98-1AA00		100	100 units	143	0,100
	Connecting wedge												
Side modules for extending busbar device adapters and device holders of the same length													
Side modules	--	--	--	182	13.5	--	A	8US19 98-2BM00		1	4 units	143	0.036
Side modules	--	--	--	200	9	--	A	8US19 98-2BJ10		1	1 unit	143	0.023
	8US19 98-2BM00												

¹⁾ Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e. g. H07V-R with cable lug, or as a flat conductor for a M10 bolt terminal.

²⁾ Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e. g. H07V-R, bared at both ends for tunnel terminals.

SENTRON 8US Busbar Systems

60 mm busbar system

Busbar adapters and device holders

For 3NP1 fuse switch disconnectors for snapping onto 60 mm busbar systems

Rated current I_U	LV HRC fuse links acc. to IEC 60269-1	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Size							kg

For cover level 32 / 70 mm, with reach-around protection for 8US busbar system

Basic units

Flat connectors

160	00 / 000	A	3NP1 133-1BC10		1	1 unit	143	0.980
250	1 and 0	A	3NP1 143-1BC10		1	1 unit	143	2.850
400	2 and 1	A	3NP1 153-1BC10		1	1 unit	143	4.760
630	3 and 2	A	3NP1 163-1BC10		1	1 unit	143	6.840

Box terminals

160	000	A	3NP1 123-1BC20		1	1 unit	143	0.820
160	00 / 000	A	3NP1 133-1BC20		1	1 unit	143	0.980
250	1 and 0	A	3NP1 143-1BC20		1	1 unit	143	2.850
400	2 and 1	A	3NP1 153-1BC20		1	1 unit	143	4.990
630	3 and 2	A	3NP1 163-1BC20		1	1 unit	143	7.040



3NP1 133-1BC20

With MFM electromechanical fuse monitoring

Flat connectors

160	00 / 000	A	3NP1 133-1BC11		1	1 unit	143	1.420
250	1 and 0	A	3NP1 143-1BC11		1	1 unit	143	3.290
400	2 and 1	A	3NP1 153-1BC11		1	1 unit	143	5.200
630	3 and 2	A	3NP1 163-1BC11		1	1 unit	143	7.280

Box terminals

160	00 / 000	A	3NP1 133-1BC21		1	1 unit	143	1.420
250	1 and 0	A	3NP1 143-1BC21		1	1 unit	143	3.290
400	2 and 1	A	3NP1 153-1BC21		1	1 unit	143	5.430
630	3 and 2	A	3NP1 163-1BC21		1	1 unit	143	7.480



3NP1 133-1BC21

With electronic EFM 10 fuse monitoring

Flat connectors

160	00 / 000	A	3NP1 133-1BC12		1	1 unit	143	1,120
250	1 and 0	A	3NP1 143-1BC12		1	1 unit	143	2,990
400	2 and 1	A	3NP1 153-1BC12		1	1 unit	143	4,900
630	3 and 2	A	3NP1 163-1BC12		1	1 unit	143	6,980

Box terminals

160	000	A	3NP1 123-1BC22		1	1 unit	143	0.940
160	00 / 000	A	3NP1 133-1BC22		1	1 unit	143	1,120
250	1 and 0	A	3NP1 143-1BC22		1	1 unit	143	2,990
400	2 and 1	A	3NP1 153-1BC22		1	1 unit	143	5,130
630	3 and 2	A	3NP1 163-1BC22		1	1 unit	143	7,180



3NP1 133-1BC22

With electronic EFM 20 fuse monitoring and line monitoring

Flat connectors

160	00 / 000	C	3NP1 133-1BC13		1	1 unit	143	1,120
250	1 and 0	C	3NP1 143-1BC13		1	1 unit	143	2,990
400	2 and 1	C	3NP1 153-1BC13		1	1 unit	143	4,900
630	3 and 2	C	3NP1 163-1BC13		1	1 unit	143	6,980

Box terminals

160	000	C	3NP1 123-1BC23		1	1 unit	143	0.940
160	00 / 000	C	3NP1 133-1BC23		1	1 unit	143	1,120
250	1 and 0	C	3NP1 143-1BC23		1	1 unit	143	2,990
400	2 and 1	C	3NP1 153-1BC23		1	1 unit	143	5,130
630	3 and 2	C	3NP1 163-1BC23		1	1 unit	143	7,180



3NP1 133-1BC23

Note:

Delivered from factory with cable feeder at bottom and convertible by the customer.

For accessories for 3NP1 fuse switch disconnectors see page 17/88.

SENTRON 8US Busbar Systems






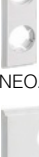


60 mm busbar system

Bus-mounting fuse bases

Selection and ordering data

- According to DIN VDE 0636
- With open captive ± screws
- For attachment to industry-standard, unprocessed copper busbars with 12 mm to 30 mm bar width.

For flat copper profiles according to DIN 46433. Width 12 mm to 30 mm, thickness 5 mm and 10 mm, and special profiles up to 1600 A

Size	Rated current	Rated voltage	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	V							kg
Mounting components									
NEOZED SR60 bus-mounting bases									
	For 5 mm bar thickness, for NEOZED adapter sleeves, 3-pole D02			5SG6 202		1	4 units	016	0,141
	Excess width with clearance for wiring D02			5SG6 204		1	4 units	016	0,154
	For bar thickness 10 mm for NEOZED adapter sleeves 3-pole D02			5SG6 203		1	4 units	016	0,138
	Excess width with clearance for wiring D02			5SG6 205		1	4 units	016	0,149
DIAZED SR60 bus-mounting bases									
	For bar thickness 5 mm, for use of DIAZED SR60 adapter rings, 3-pole DII			5SF6 014		1	2 units	016	0.230
	DIII			5SF6 214		1	2 units	016	0.318
	For use of DIAZED screw adapters 3-pole DII			5SF6 015		1	2 units	016	0.222
	DIII			5SF6 215		1	2 units	016	0.310
	For bar thickness 10 mm For use of DIAZED SR60 adapter rings 3-pole DII			5SF6 016		1	2 units	016	0.233
	DIII			5SF6 216		1	2 units	016	0.316
	For use of DIAZED screw adapters 3-pole DII			5SF6 017		1	2 units	016	0.220
	DIII			5SF6 217		1	2 units	016	0.328
Mounting components									
NEOZED SR60 covers									
	D02			5SH5 241		1	4 units	016	0.026
	Excess width with clearance for wiring D02			5SH5 242		1	4 units	016	0.031
	With double width for more free space for wiring D02			5SH5 243		1	4 units	016	0.040
DIAZED SR60 covers									
	DII			5SH2 042		1	2 units	016	0.050
	DIII			5SH2 242		1	2 units	016	0.061
	With double width for more free space for wiring DII			5SH2 043		1	2 units	016	0.084
	DIII			5SH2 243		1	2 units	016	0,106

* You can order this quantity or a multiple thereof.




SENTRON 8US Busbar Systems

60 mm busbar system

Accessories

Selection and ordering data

For flat copper profiles according to DIN 46433. Width 12 mm to 30 mm, thickness 5 mm and 10 mm, and special profiles up to 1600 A

Description	Length	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	mm	mm							kg
Busbar connection pieces for bars									
 8US19 21-2BF00	20 mm × 5 mm, 20 mm × 10 mm, 25 mm × 5 mm, 25 mm × 10 mm, 30 mm × 5 mm, 30 mm × 10 mm	40	A	8US19 21-2BE00		1	6 units	143	0.070
	12 mm × 5 mm, 12 mm × 10 mm, 15 mm × 5 mm, 15 mm × 10 mm, 20 mm × 5 mm, 20 mm × 10 mm	55	A	8US19 21-2BF00		1	12 units	143	0.070
Mounting rails (35 mm) – plastic									
  Mounting rail	Complete with fixing screws								
		45	A	8US19 98-7CA15		1	10 units	143	0.009
		55	A	8US19 98-7CA16		1	10 units	143	0,100
		72	A	8US19 98-4AA00		1	10 units	143	0,143
		90	A	8US19 98-7CA08		1	10 units	143	0,187
	110	A	8US19 98-7CA10		1	10 units	143	0,219	
Connection holders									
Fixes the circuit breaker to the mounting rail ¹⁾ (for SIRIUS size S00/S0)			A	8US19 98-1DA00		100	20 units	143	0,100
Screw holders									
For supplementary screw mounting of the feeder (for SIRIUS size S00/S0)			B	8US19 98-1CA00		100	20 units	143	0,100
Spacers									
Fixes the feeder to the busbar adapter (for SIRIUS size S00/S0)			▶	8US19 98-1BA00		100	100 units	143	0,100
Connecting wedges									
For mechanical linking of busbar adapter and device holder (2 units per combination)			▶	8US19 98-1AA00		100	100 units	143	0,100
Load-side terminal strips for busbar adapters									
Complete with supporting element for attachment to busbar adapter and device holder									
3 × 2.5 mm ² (400 V) and 4 × 1.5 mm ² (250 V)	91	45	A	8US19 98-8AM07		1	1 unit	143	0.061
7 × 2.5 mm ² (400 V)	91	54	D	8US19 98-8AA10		1	1 unit	143	0.072

¹⁾ For 45 mm and 55 mm mounting rail.

SENTRON 8US Busbar Systems

Notes

