

Switch Disconnectors

**NEW**

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7/2	Introduction		
	3LD main control and EMERGENCY-STOP switches up to 250 A		
7/3	Introduction		
7/6	Front mounting		
7/11	Floor mounting		
7/17	Distribution board mounting		
7/19	Molded-plastic enclosures		
7/21	DC applications		
7/22	Accessories		
	5TE1 switch disconnectors up to 200 A		
7/27	Introduction		
7/28	General data		
	3KD switch disconnectors up to 1600 A		
7/32	Introduction		
7/33	General data		
7/40	Technical features		
7/53	Complete assemblies		
7/54	Basic units		
7/58	Accessories and spare parts		
	3KA/3KE switch disconnectors up to 1000 A		
7/68	Introduction		
7/71	Floor mounting		
7/76	Accessories		
Chap.2	3VA switch disconnectors up to 250 A		
	3VT switch disconnectors up to 1600 A		
7/79	Introduction		
7/81	3VT1 switch disconnectors up to 160 A		
7/86	3VT2 switch disconnectors up to 250 A		
7/92	3VT3 switch disconnectors up to 630 A		
7/98	3VT4 switch disconnectors up to 1000 A		
7/99	3VT5 switch disconnectors up to 1600 A		
	3KL switch disconnectors with fuses up to 800 A		
7/103	Introduction		
7/105	Floor mounting		
7/107	Front mounting		
7/108	Accessories		
7/111	Fuses		
	3KM switch disconnectors with fuses and isolating plug connector up to 400 A		
7/113	Introduction		
7/115	For snapping onto busbar system		
7/116	Accessories		
7/118	Fuses		
	8UD1 door-coupling rotary operating mechanisms		
7/120	For 3KD switch disconnectors NEW		
	8UC7 door-coupling rotary operating mechanisms		
7/124	For 3KA/3KE, 3KL/3KM switch disconnectors		
7/128	Individual parts		
7/129	Operating mechanisms for fixed mounting		
	3NJ62 in-line switch disconnectors with fuses up to 630 A		
7/130	Introduction		
7/135	For LV HRC fuse links		
7/137	For BS fuse links		
7/139	For LV HRC and BS fuse links		
7/148	Accessories		
	3NP1 fuse switch disconnectors up to 630 A		
7/155	Introduction		
7/158	Floor mounting		
7/160	For 40 mm busbar system		
7/162	For 60 mm busbar system		
7/164	Accessories		
7/172	Fuses		
	3NP5 fuse switch disconnectors up to 630 A		
7/175	Introduction		
7/177	Floor mounting		
7/178	For 40 mm busbar system		
7/179	For 60 mm busbar system		
7/180	With fuse monitoring		
7/183	Accessories		
7/185	Fuses		
	3NJ4, 3NJ5 in-line fuse switch disconnectors up to 2000 A		
7/188	Introduction		
7/191	1-pole switchable		
7/192	3-pole switchable		
7/193	Accessories		
	For further technical product information:		
	Configuration Manual		
	Switch disconnectors		
	Article No.: 3ZW1012-3NP11-0AC1		
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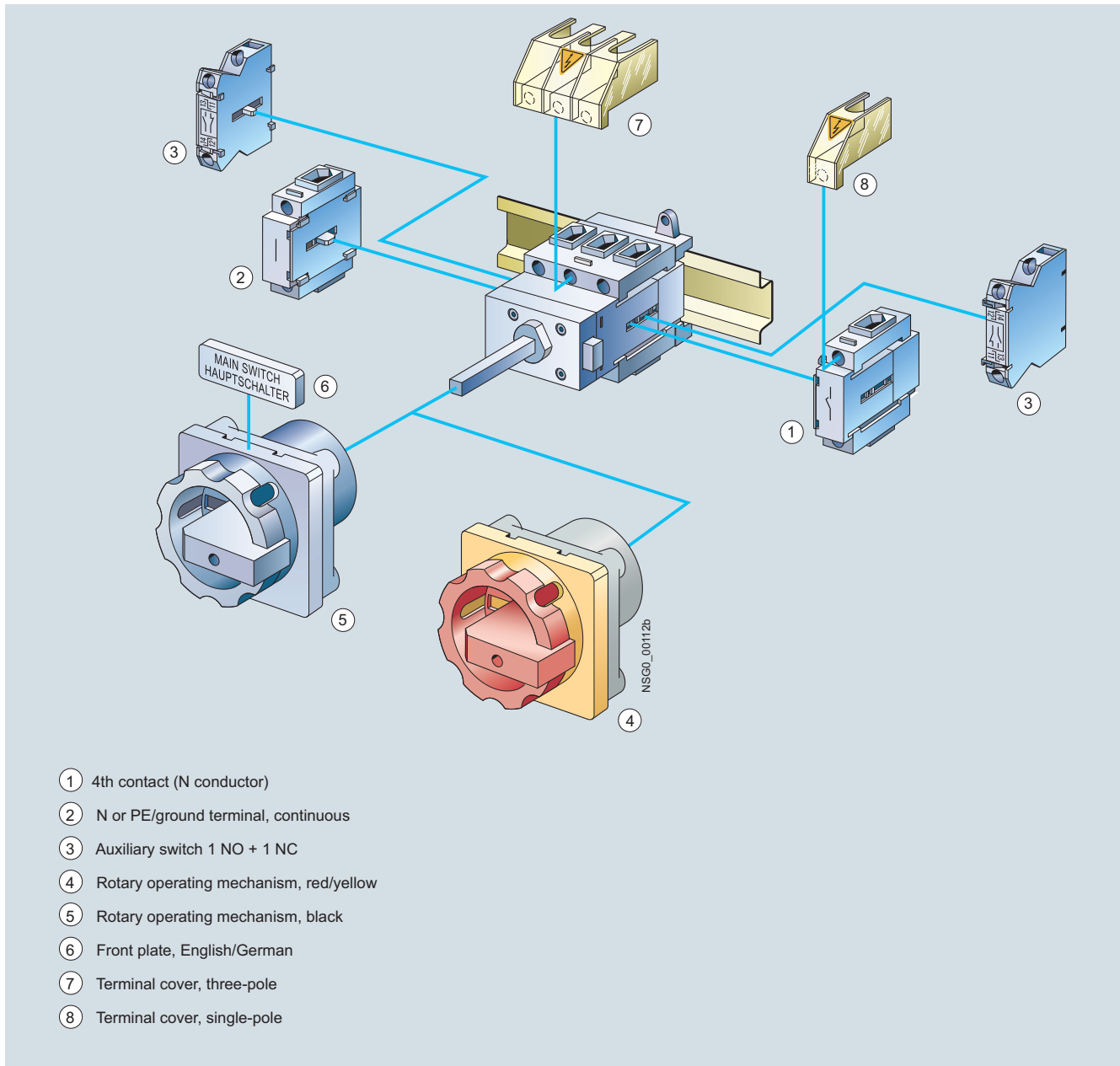
Switch Disconnectors

Introduction

Overview

		Article No.	Page
Switch disconnectors			
	Main control and EMERGENCY-STOP switches from 16 A to 250 A	3LD	7/3
	<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 • DC isolators 800 V DC 		
	Switch disconnectors from 100 A to 200 A	5TE1	7/27
	<ul style="list-style-type: none"> • For floor and distribution board mounting • 2, 3 and 4-pole versions 		
	Switch disconnectors up to 1600 A	3KD	7/33
	<ul style="list-style-type: none"> • Compact design allowing it to be used where space is limited. • Complete assemblies: 3- and 4-pole switch disconnectors with front operating mechanisms, connections in form of box terminal or flat terminal including direct operating mechanism with gray handle • Basic units for individual configuration, with front operating mechanism without handle, 3 and 4-pole variants, connection by box terminal or flat terminal, operating mechanism module in center or on left-hand side of switch disconnector 		
	Switch disconnectors from 63 A to 1000 A	3KA, 3KE	7/68
	<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 		
	Switch disconnectors from 160 A to 1600 A	3VT	7/79
	<ul style="list-style-type: none"> • Compact design allowing it to be used where space is limited. • 3 and 4-pole versions • Coordinated, comprehensive range of accessories for greater functionality, e.g. <ul style="list-style-type: none"> - Motorized operating mechanisms - Shunt and undervoltage releases for remote control - Switching state interrogation by means of auxiliary and alarm switches 		
Switch disconnectors with fuses			
	Switch disconnectors with fuses up to 800 A	3KL, 3KM	7/103
	<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 		
	In-line switch disconnectors with fuses, plug-in type, up to 630 A	3NJ62	7/130
	<ul style="list-style-type: none"> • 2, 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 		
Fuse switch disconnectors			
	3NP fuse switch disconnectors	3NP1, 3NP5	7/155
	<ul style="list-style-type: none"> • Rated current up to 630 A • Connection components are available for flat connection, saddle terminal connection, prism terminal connection and box terminal connection • Electromechanical and electronic fuse monitoring with/without network monitoring function • Mounting versions for floor mounting and 40/60 mm busbar system 		
	In-line fuse switch disconnectors up to 2000 A	3NJ4, 3NJ5	7/188
	<ul style="list-style-type: none"> • 1 and 3-pole switchable versions • Versions for secondary-side protection of transformers • In-line infeed block versions up to 2000 A with isolating blades • Connection components are available for flat connection, stud bolt connection, saddle terminal connection, prism terminal connection and box terminal connection • Versions with/without integratable current transformer • Versions with/without electronic fuse monitoring 		

Overview



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

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

The 3LD switches for 16 to 250 A are approved according to UL 508 and can be used as "manual motor controllers" and

"motor disconnects". In addition, the 3LD switch disconnectors have CCC certification.

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 three-phase 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

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

Introduction

Design

Design of the contacts

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

Design of rotary operating mechanisms

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

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

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



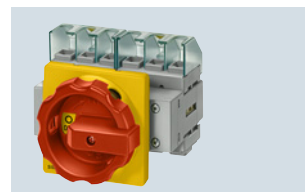
3LD2704-0TK53 switch for front mounting with rotary operating mechanism



3LD2222-0TK1 switch for front mounting with knob



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



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



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



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



3LD2264-0TB5 switch in molded-plastic enclosure



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



3LD2265-8VQ51-0AF6 DC isolator



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

Switch Disconnectors

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

Introduction

Technical specifications

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

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

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

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

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



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

Switch Disconnectors

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

Front mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.			
Main contact elements	Aux. cont. elements	P/AC-3	P/AC-23A	I _U /AC-21A							kg			
		kW	kW	A										
Main control and EMERGENCY-STOP switches with rotary operating mechanism/knob-operated mechanism <ul style="list-style-type: none"> • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • All versions with rotary operating mechanism Exception: 3LD23 and 3LD24 with knob-operated mechanism • Including terminal cover for the infeed side • Front plate: <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 67 mm × 67 mm - 3LD25 to 3LD28: 90 mm × 90 mm - 3LD23 to 3LD24: 96 mm × 96 mm 														
Four-hole mounting														
 3LD2203-0TK51	3	--	5.5	7.5	16	3LD2003-0TK5□		1	1 unit	1CL	0.208			
			7.5	9.5	25	3LD2103-0TK5□		1	1 unit	1CL	0.201			
			9.5	11.5	32	3LD2203-0TK5□		1	1 unit	1CL	0.200			
			18.5	22.0	63	3LD2504-0TK5□		1	1 unit	1CL	0.413			
			30	37.0	100	3LD2704-0TK5□		1	1 unit	1CL	0.497			
			37	45.0	125	3LD2804-0TK5□		1	1 unit	1CL	0.501			
			50	75.0	160	3LD2305-0TK1□		1	1 unit	1CL	2.089			
			110	132.0	250	3LD2405-0TK1□		1	1 unit	1CL	2.097			
			 3LD2704-0TK53	3 + N	--	5.5	7.5	16	3LD2003-1TL5□		1	1 unit	1CL	0.218
						7.5	9.5	25	3LD2103-1TL5□		1	1 unit	1CL	0.236
9.5	11.5	32				3LD2203-1TL5□		1	1 unit	1CL	0.235			
18.5	22.0	63				3LD2504-1TL5□		1	1 unit	1CL	0.485			
30.0	37.0	100				3LD2704-0TK5□ +1)		1	1 unit	1CL	0.497			
37.0	45.0	125				3LD2804-0TK5□ +1)		1	1 unit	1CL	0.501			
50	75.0	160				3LD2305-1TL1□		1	1 unit	1CL	2.609			
110	132.0	250				3LD2405-1TL1□		1	1 unit	1CL	2.611			
	3	1 NO + 1 NC				5.5	7.5	16	3LD2003-1TP5□		1	1 unit	1CL	0.228
						7.5	9.5	25	3LD2103-1TP5□		1	1 unit	1CL	0.224
			9.5	11.5	32	3LD2203-1TP5□		1	1 unit	1CL	0.220			
			18.5	22.0	63	3LD2504-1TP5□		1	1 unit	1CL	0.438			
			30.0	37.0	100	3LD2704-1TP5□		1	1 unit	1CL	0.508			
			37	45.0	125	3LD2804-1TP5□		1	1 unit	1CL	0.517			
			50.0	75.0	160	3LD2305-0TK1□ +2)		1	1 unit	1CL	2.089			
			110.0	132.0	250	3LD2405-0TK1□ +2)		1	1 unit	1CL	2.097			
				3 + N	1 NO + 1 NC	5.5	7.5	16	3LD2003-2EP5□		1	1 unit	1CL	0.237
						7.5	9.5	25	3LD2103-2EP5□		1	1 unit	1CL	0.253
9.5	11.5	32				3LD2203-1TL5□ +2)		1	1 unit	1CL	0.235			
18.5	22.0	63				3LD2504-1TP5□ +1)		1	1 unit	1CL	0.438			
30.0	37.0	100				3LD2704-0TK5□ +1)		1	1 unit	1CL	0.497			
37.0	45.0	125				3LD2804-0TK5□ +1)		1	1 unit	1CL	0.501			
50.0	75.0	160				3LD2305-1TL1□ +2)		1	1 unit	1CL	2.609			
110.0	132.0	250				3LD2405-1TL1□ +2)		1	1 unit	1CL	2.611			
						5.5	7.5	16	3LD2003-5B		1	1 unit	1CL	0.020
						7.5	9.5	25	3LD2103-5B		1	1 unit	1CL	0.020
			9.5	11.5	32	3LD2203-5B		1	1 unit	1CL	0.020			
			18.5	22.0	63	3LD2504-5B		1	1 unit	1CL	0.020			
			30.0	37.0	100	3LD2704-5B		1	1 unit	1CL	0.020			
			37.0	45.0	125	3LD2804-5B		1	1 unit	1CL	0.020			
			50.0	75.0	160	3LD2305-5B		1	1 unit	1CL	0.020			
			110.0	132.0	250	3LD2405-5B		1	1 unit	1CL	0.020			

Actuator color

Black

Red/yellow (EMERGENCY-STOP)




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

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

Switch Disconnectors

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

Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3 kW	P/AC-23A kW	I _u /AC-21A A						kg	
Main control and EMERGENCY-STOP switches with direct operating mechanism (rotary operating mechanism/knob-operated mechanism) <ul style="list-style-type: none"> • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • All versions with rotary operating mechanism Exception: 3LD23 and 3LD24 with knob-operated mechanism • Including terminal cover for the infeed side • Front plate <ul style="list-style-type: none"> - 3LD20, 3LD21, 3LD22: 67 mm × 67 mm - 3LD25 to 3LD28: 90 mm × 90 mm - 3LD23 to 3LD24: 96 mm × 96 mm 											
Center-hole mounting Ø 22.5 mm											
 3LD2254-0TK53	3	--	5.5	7.5	16	3LD2054-0TK5□		1	1 unit	1CL	0.208
			7.5	9.5	25	3LD2154-0TK5□		1	1 unit	1CL	0.203
			9.5	11.5	32	3LD2254-0TK5□		1	1 unit	1CL	0.203
			18.5	22	63	3LD2555-0TK5□		1	1 unit	1CL	0.419
	3 + N	--	5.5	7.5	16	3LD2054-1TL5□		1	1 unit	1CL	0.220
			7.5	9.5	25	3LD2154-1TL5□		1	1 unit	1CL	0.246
			9.5	11.5	32	3LD2254-1TL5□		1	1 unit	1CL	0.242
			18.5	22	63	3LD2555-0TK5□ + ¹⁾		1	1 unit	1CL	0.419
						3LD9250-0BA		1	1 unit	1CL	0.075
	3	1 NO + 1 NC	5.5	7.5	16	3LD2054-1TP5□		1	1 unit	1CL	0.231
			7.5	9.5	25	3LD2154-1TP5□		1	1 unit	1CL	0.229
			9.5	11.5	32	3LD2254-0TK5□ + ²⁾		1	1 unit	1CL	0.203
					3LD9200-5B		1	1 unit	1CL	0.020	
		18.5	22	63	3LD2555-0TK5□ + ²⁾		1	1 unit	1CL	0.419	
					3LD9200-5B		1	1 unit	1CL	0.020	
3 + N	1 NO + 1 NC	5.5	7.5	16	3LD2054-2EP5□		1	1 unit	1CL	0.242	
		7.5	9.5	25	3LD2154-2EP5□		1	1 unit	1CL	0.262	
		9.5	11.5	32	3LD2254-1TL5□ + ²⁾		1	1 unit	1CL	0.242	
					3LD9200-5B		1	1 unit	1CL	0.020	
		18.5	22	63	3LD2555-0TK5□ + ¹⁾		1	1 unit	1CL	0.419	
					3LD9250-0BA + ²⁾		1	1 unit	1CL	0.075	
					3LD9200-5B		1	1 unit	1CL	0.020	

Actuator color

Black

Red/yellow (EMERGENCY-STOP)




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

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

Switch Disconnectors

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

Front mounting

Number and version of the contacts		Rated data 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A kW	I_u A							kg
Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism) <ul style="list-style-type: none"> • Lockable in 0 position (can be modified to I position) with max. 2 padlocks • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate - 48 mm × 48 mm 										
Four-hole mounting										
 3LD2222-0TK11	3	--	7.5	16	3LD2022-0TK1□		1	1 unit	1CL	0.183
			9.5	25	3LD2122-0TK1□		1	1 unit	1CL	0.177
			11.5	32	3LD2222-0TK1□		1	1 unit	1CL	0.176
	3 + N	--	7.5	16	3LD2022-1TL1□		1	1 unit	1CL	0.196
			9.5	25	3LD2122-1TL1□		1	1 unit	1CL	0.214
			11.5	32	3LD2222-0TK1□ + ¹⁾		1	1 unit	1CL	0.176
					3LD9220-0B		1	1 unit	1CL	0.037
	3	1 NO + 1 NC	7.5	16	3LD2022-0TK1□ + ²⁾		1	1 unit	1CL	0.183
			9.5	25	3LD9200-5B		1	1 unit	1CL	0.020
					3LD2122-0TK1□ + ²⁾		1	1 unit	1CL	0.177
			11.5	32	3LD9200-5B		1	1 unit	1CL	0.020
					3LD2222-0TK1□ + ²⁾		1	1 unit	1CL	0.176
					3LD9200-5B		1	1 unit	1CL	0.020
	3 + N	1 NO + 1 NC	7.5	16	3LD2022-1TL1□ + ²⁾		1	1 unit	1CL	0.196
			9.5	25	3LD9200-5B		1	1 unit	1CL	0.020
					3LD2122-1TL1□ + ²⁾		1	1 unit	1CL	0.214
			11.5	32	3LD9200-5B		1	1 unit	1CL	0.020
					3LD2222-0TK1□ + ¹⁾		1	1 unit	1CL	0.176
				3LD9220-0B		1	1 unit	1CL	0.037	
				3LD9200-5B		1	1 unit	1CL	0.020	


Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

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

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

Number and version of the contacts	Rated data at 50 ... 60 Hz, 380 ... 440 V	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.								
									Main contact elements	Auxiliary contact elements	P/AC-23A	I_u	kg			
<p>Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism)</p> <ul style="list-style-type: none"> • Lockable in 0 position (can be modified to I position) with max. 2 padlocks • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate: 48 mm × 48 mm 																
Center-hole mounting Ø 22.5 mm																
 <p>3LD2150-0TK13</p>	3	--	7.5	16	3LD2050-0TK1□	1	1 unit	1CL	0.190							
			9.5	25	3LD2150-0TK1□	1	1 unit	1CL	0.182							
			11.5	32	3LD2250-0TK1□	1	1 unit	1CL	0.183							
	3 + N	--	7.5	16	3LD2050-1TL1□	1	1 unit	1CL	0.198							
			9.5	25	3LD2150-0TK1□ +2)	1	1 unit	1CL	0.182							
			11.5	32	3LD9200-5B	1	1 unit	1CL	0.020							
				32	3LD2250-0TK1□ +2)	1	1 unit	1CL	0.183							
	3	1 NO + 1 NC	7.5	16	3LD2050-0TK1□ +2)	1	1 unit	1CL	0.190							
			9.5	25	3LD9200-5B	1	1 unit	1CL	0.020							
				25	3LD2150-0TK1□ +2)	1	1 unit	1CL	0.182							
			11.5	32	3LD9200-5B	1	1 unit	1CL	0.020							
				32	3LD2250-0TK1□ +2)	1	1 unit	1CL	0.183							
			3 + N	1 NO + 1 NC	7.5	16	3LD2050-1TL1□ +2)	1	1 unit	1CL	0.198					
					9.5	25	3LD9200-5B	1	1 unit	1CL	0.020					
						25	3LD2150-0TK1□ +1)	1	1 unit	1CL	0.182					
	11.5	32			3LD9220-0B +2)	1	1 unit	1CL	0.037							
32		3LD9200-5B	1	1 unit	1CL	0.020										
										11.5	32	3LD2250-0TK1□ +1)	1	1 unit	1CL	0.183
											32	3LD9220-0B +2)	1	1 unit	1CL	0.037

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Front mounting

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

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

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

Four-hole mounting



3LD2103-3VK53

6	--	7.5	9.5	25	3LD2103-3VK5□	1	1 unit	1CL	0.380
		9.5	11.5	32	3LD2203-3VK5□	1	1 unit	1CL	0.380
		18.5	22.0	63	3LD2504-3VK5□	1	1 unit	1CL	0.744
		50	75	160	3LD2305-3VK1□	1	1 unit	1CL	3.972
		110	132	250	3LD2405-3VK1□	1	1 unit	1CL	3.925
6	1 NO + 1 NC	7.5	9.5	25	3LD2103-4VP5□	1	1 unit	1CL	0.420

Actuator color

- Black
- Red/yellow (EMERGENCY-STOP)

1
3

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

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

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

Four-hole mounting




3LD2123-7UK01

3	--	7.5	9.5	25	3LD2123-7UK01	1	1 unit	1CL	0.378
		9.5	11.5	32	3LD2223-7UK01	1	1 unit	1CL	0.374
		18.5	22.0	63	3LD2524-7UK01	1	1 unit	1CL	0.740
		30.0	37.0	100	3LD2724-7UK01	1	1 unit	1CL	0.956
		50	75	160	3LD2305-7UK01	1	1 unit	1CL	4.507
		110	132	250	3LD2405-7UK01	1	1 unit	1CL	4.512
3 + N		50	75	160	3LD2305-7UL01	1	1 unit	1CL	5.786
		110	132	250	3LD2405-7UL01	1	1 unit	1CL	5.865



3LD2405-7UL01

Selection and ordering data

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

Actuator color

Black

Red/yellow (EMERGENCY-STOP)


1
3

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

Switch Disconnectors

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

Floor mounting

	Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							
 3LD2213-0TK53	3	1 NO + 1 NC	7.5	16		3LD2013-0TK5□ + ²⁾		1	1 unit	1CL	0.413
			9.5	25		3LD2113-0TK5□ + ²⁾		1	1 unit	1CL	0.399
			11.5	32		3LD2213-0TK5□ + ²⁾		1	1 unit	1CL	0.409
			22	63		3LD2514-0TK5□ + ²⁾		1	1 unit	1CL	0.640
			37	100		3LD2714-0TK5□ + ²⁾		1	1 unit	1CL	0.756
			45	125		3LD2814-0TK5□ + ²⁾		1	1 unit	1CL	0.752
			75	160		3LD2318-0TK1□ + ²⁾		1	1 unit	1CL	2.750
			132	250		3LD2418-0TK1□ + ²⁾		1	1 unit	1CL	2.761
			7.5	16		3LD2013-1TL5□ + ²⁾		1	1 unit	1CL	0.420
			9.5	25		3LD2113-1TL5□ + ²⁾		1	1 unit	1CL	0.439
			11.5	32		3LD2213-1TL5□ + ²⁾		1	1 unit	1CL	0.443
			22	63		3LD2514-1TL5□ + ²⁾		1	1 unit	1CL	0.712
			37	100		3LD2714-0TK5□ + ¹⁾		1	1 unit	1CL	0.097
			45	125		3LD2814-0TK5□ + ¹⁾		1	1 unit	1CL	0.097
75	160		3LD2318-1TL1□ + ²⁾		1	1 unit	1CL	3.239			
132	250		3LD2418-1TL1□ + ²⁾		1	1 unit	1CL	3.264			
							1	1 unit	1CL	0.020	

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3


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

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

Switch Disconnectors

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

Floor mounting

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

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Floor mounting

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

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

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

Four-hole mounting



3LD2113-3VK51

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

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

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

Changeover switches with door-coupling rotary operating mechanism

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


Four-hole mounting

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

Switch Disconnectors

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

Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							
<p>Main control and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism</p> <p>The 3LD main control and EMERGENCY-STOP switch with defeatable door-coupling rotary operating mechanism enables you to conduct repairs, maintenance work or tests on electrical plants and machines without having to interrupt their operation. With the help of the defeatable door-coupling rotary operating mechanism, an electrician can bypass locking in the ON position and open the control cabinet door with the plant activated.</p> <p>3LD main control and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism are approved according to UL 508.</p> <ul style="list-style-type: none"> • With 300 mm switch shaft • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism with integrated tolerance compensation • Mounting using screws or snap-on mounting on 35 mm standard mounting rails • Including terminal cover for the infeed side • Front plate 65 mm × 65 mm 										
Four-hole mounting										
 <p>3LD2017-0TK..</p>	3	--	7.5	16	3LD2017-0TK1□		1	1 unit	1CL	0.419
			11.5	32	3LD2217-0TK1□		1	1 unit	1CL	0.415
			22	63	3LD2517-0TK1□		1	1 unit	1CL	0.573
	3 + N	--	7.5	16	3LD2017-1TL1□		1	1 unit	1CL	0.435
			11.5	32	3LD2217-1TL1□		1	1 unit	1CL	0.448
			22	63	3LD2517-1TL1□		1	1 unit	1CL	0.634

Actuator color
 Black
 Red/yellow (EMERGENCY-STOP)

1
3

Switch Disconnectors

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

Floor mounting


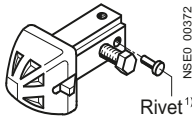

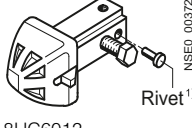
Accessories

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

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

The following components are to be used for this purpose:

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

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

¹⁾ Non-interchangeability features.



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

Switch Disconnectors

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

Distribution board mounting

Selection and ordering data

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

Actuator color

Black

Red/yellow (EMERGENCY-STOP)


1
3

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

Switch Disconnectors

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

Distribution board mounting

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

Actuator color

Black


Red/yellow (EMERGENCY-STOP)

1
3

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

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

Selection and ordering data

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

3LD2164-0TB53

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Molded-plastic enclosures

Number and version of the contacts	Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		P/AC-3 kW	P/AC-23A kW	I_u A							
Main control and EMERGENCY-STOP switches with rotary operating mechanism (6-pole) <ul style="list-style-type: none"> • With N and/or PE/ground base terminals • Degree of protection IP65 • Metric screw connection 											
6	--	PE + N	7.5	9.5	25	3LD2165-3VB5□		1	1 unit	1CL	0.868
		PE + N	9.5	11.5	32	3LD2265-3VB5□					
		PE + N	18.5	22.0	63	3LD2566-3VB5□					
	1 NO + 1 NC	N	7.5	9.5	25	3LD2165-4VD5□					
		N	9.5	11.5	32	3LD2265-4VD5□					
		PE + N	18.5	22.0	63	3LD2566-4VD5□					



3LD2165-3VB53

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Number and version of the contacts	Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		P/AC-3 kW	P/AC-23A kW	I_u A							
Changeover switches with direct operating mechanism (knob-operated mechanism) <ul style="list-style-type: none"> • With N and/or PE/ground base terminals • Black actuator • Lockable in 0 position with up to 3 padlocks (25 A and 32 A) • Metric screw connection • Degree of protection IP65 											
3	--	PE + N	7.5	9.5	25	3LD2165-7UB01		1	1 unit	1CL	0.894
		PE + N	9.5	11.5	32	3LD2265-7UB01					
		PE + N	18.5	22.0	63	3LD2566-7UB01					
		PE + N	30.0	37.0	100	3LD2766-7UB01					



3LD2165-7UB01

Selection and ordering data

Mains voltage	Rated current I_e at 800 V DC		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Max. V DC	DC-21A A	DC-22A A							kg
DC isolators in molded-plastic enclosure									
<ul style="list-style-type: none"> Molded-plastic enclosure IP65 Metric screw connection (W x H x D) 146 mm x 199 mm x 136 mm Conductor cross-sections: <ul style="list-style-type: none"> Solid and stranded 1.5 ... 16 mm² Finely stranded with end sleeve max. 10 mm² Lockable 									
800	32	16		3LD2265-8VQ5□-0AF6		1	1 unit	1CL	0.936



3LD2265-8VQ5-0AF6

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Mains voltage	Rated current I_e at 800 V DC		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Max. V DC	DC-21A A	DC-22A A							kg
DC isolators for distribution board mounting									
<ul style="list-style-type: none"> Conductor cross-sections: <ul style="list-style-type: none"> Solid and stranded 1.5 ... 16 mm² Finely stranded with end sleeve max. 10 mm² Actuator color: Black 									
800	32	16		3LD2230-8VQ11-0AF6		1	1 unit	1CL	0.419



3LD2230-8VQ11-0AF6

Switch Disconnectors

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

Accessories

Selection and ordering data










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

* You can order this quantity or a multiple thereof.

Switch Disconnectors

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

Accessories

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

* You can order this quantity or a multiple thereof.

Switch Disconnectors

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

Accessories



Version	DT	3LD25	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		Article No. www.siemens.com/ product?Article No.	Price per PU			
For front mounting						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9250-0BA	1	1 unit	1CL 0.075
		N or PE terminals Through-type	3LD9250-2BA	1	1 unit	1CL 0.067
		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC	3LD9200-5B	1	1 unit	1CL 0.020
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC	3LD9200-5BF	1	1 unit	1CL 0.020
For floor mounting, distribution board mounting or molded-plastic enclosures						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9250-0CA	1	1 unit	1CL 0.074
		N or PE terminals Through-type	3LD9250-2CA	1	1 unit	1CL 0.068
		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NC	3LD9200-5C 3LD9200-6C	1 1	1 unit 1 unit	1CL 0.020 1CL 0.021
		For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC	3LD9200-5CF	1	1 unit	1CL 0.020
For front and floor mounting						
		Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks • For four-hole mounting, including seal - Black - Red/Yellow	3LD9284-1B 3LD9284-3B	1 1	1 unit 1 unit	1CL 0.151 1CL 0.152
		• For center-hole mounting, including seal and nut - Black - Red/Yellow	3LD9284-1D 3LD9284-3D	1 1	1 unit 1 unit	1CL 0.150 1CL 0.150
		Mounting tools For center-hole mounting with nut	3LD9256-0A	1	5 units	1CL 0.018
		Switching shafts 6 x 6 mm Length 300 mm Length 600 mm	3LD9205-0C 3LD9205-2C	1 1	5 units 5 units	1CL 0.479 1CL 0.833
		Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER) Without inscription	3LD9286-1A 3LD9286-4A	1	10 units 10 units	1CL 0.005 1CL 0.053
		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole • 3-pole	3LD9251-2A 3LD9251-0A	100 1	4 units 4 units	1CL 0.480 1CL 0.010

* You can order this quantity or a multiple thereof.

Switch Disconnectors

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








Accessories

Version	DT	3LD27 and 3LD28	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		Article No. www.siemens.com/ product?ArticleNo.	Price per PU			
For front mounting						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9280-0B	1	1 unit	1CL 0.097
		N or PE terminals Through-type	3LD9280-2B	1	1 unit	1CL 0.087
3LD9280-0B (left) 3LD9280-2B (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off	3LD9200-5B	1	1 unit	1CL 0.020
		<ul style="list-style-type: none"> • 1 NO + 1 NC For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information	3LD9200-5BF	1	1 unit	1CL 0.020
3LD9200-5B		<ul style="list-style-type: none"> • 1 NO + 1 NC 				
For floor mounting, distribution board mounting or molded-plastic enclosures						
		4th contact (N conductor) Leading switch-on, lagging switch-off	3LD9280-0C	1	1 unit	1CL 0.097
		N or PE terminals Through-type	3LD9280-2C	1	1 unit	1CL 0.086
3LD9280-0C (left) 3LD9280-2C (right)		Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off	3LD9200-5C	1	1 unit	1CL 0.020
		<ul style="list-style-type: none"> • 1 NO + 1 NC • 2 NC For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information	3LD9200-6C	1	1 unit	1CL 0.021
3LD9200-5C (left) 3LD9200-6C (right)		<ul style="list-style-type: none"> • 1 NO + 1 NC 	3LD9200-5CF	1	1 unit	1CL 0.020
For front and floor mounting						
		Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks	3LD9284-1B	1	1 unit	1CL 0.151
		<ul style="list-style-type: none"> • For four-hole mounting, including seal <ul style="list-style-type: none"> - Black - Red/Yellow 	3LD9284-3B	1	1 unit	1CL 0.152
3LD9284-1B		<ul style="list-style-type: none"> • For center-hole mounting, including seal and nut <ul style="list-style-type: none"> - Black - Red/Yellow 	3LD9284-1D	1	1 unit	1CL 0.150
			3LD9284-3D	1	1 unit	1CL 0.150
3LD9284-3D						
		Switching shafts 6 x 6 mm				
		Length 300 mm	3LD9205-0C	1	5 units	1CL 0.479
		Length 600 mm	3LD9205-2C	1	5 units	1CL 0.833
		Inscription labels				
		With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	3LD9286-1A	1	10 units	1CL 0.005
3LD9286-1A		Without inscription	3LD9286-4A	1	10 units	1CL 0.053
		Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom	3LD9281-2A	1	4 units	1CL 0.006
3LD9281-2A		<ul style="list-style-type: none"> • 1-pole (1 pack = 4 units) 				

Switch Disconnectors

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

Accessories

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

Overview

The 5TE1 switch disconnectors are available from 100 A to 200 A in 3 and 4-pole versions and can be used as main control switches, repair switches, outgoing feeder switches and emergency mains switching off device.

The series corresponds to the requirements of IEC/EN 60947-3 and its key features are its compact and robust design, high short-circuit strength, high DC breaking capacity and comprehensive accessories.

Its small footprint means it is easy to install in all types of enclosures, distribution boards and control cabinets.

The devices are approved to UL 508 and KEMA certified.

Benefits

- Transparent enclosures ensure that the contact position is always visible
- Contacts with double breaks ensure reliable insulation characteristics
- Can be locked in the OFF position to allow for maintenance work
- With a red knob and yellow cap, it can also be used as an emergency switching off device

Technical specifications

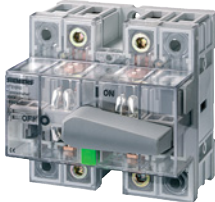
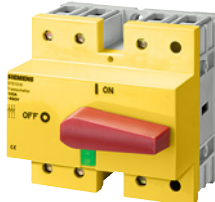
			5TE1.1	5TE1.2	5TE1.3	5TE1.4
Standards	IEC/EN 60947-3, UL 508					
Approvals	UL508 for the following types: 5TE1320, 5TE1330, 5TE1340, 5TE1420, 5TE1430 and 5TE1440. UL File No. E302554					
Rated operational current I_e With utilization category AC-21A	Per conduct. path At $U_e =$	400 V A 415 V A 500 V A 690 V A	100 100 100 100	125 125 125 125	160 160 160 160	200 200 200 200
Rated operational current I_e With utilization category AC-22A	Per conduct. path At $U_e =$	400 V A 415 V A 500 V A 690 V A	100 100 100 63	125 125 100 63	160 160 160 160	200 200 200 200
Rated operational current I_e With utilization category AC-23A	Per conduct. path At $U_e =$	400 V A 415 V A 500 V A 690 V A	80 80 50 40		125 125 125 63	160 160 125 80
Rated operational current I_e With utilization category DC-23A	2 poles in series 2 poles in series 4 poles in series	110 V A 220 V A 220 V A	100 -- 100		160 100 160	
Rated operational voltage U_e		V AC	According to UL: 480, acc. to IEC: 690			
Rated insulation voltage U_i		V AC	690			
Rated impulse withstand voltage U_{imp}	2000 m	kV	8			
Impulse test voltage	At sea level	kV	12.3			
Max. rated operational power With utilization category AC-23A	At $U_e =$	400 V kW 415 V kW 500 V kW 690 V kW	44 46 35 36		69 72 86 60	88 92 86 76
Rated thermal current I_{th}	At 40 °C, 50 °C and 60 °C	A	100	125	160	200
Rated making capacity	At 415 V AC-23A	A	1875		3200	4000
Rated breaking capacity	At 415 V AC-23A	A	1000		1920	2400
Rated ultimate short-circuit breaking capacity I_{cm}	Per conduct. path At $U_e =$	400 V kA 415 V kA 500 V kA 690 V kA	10 10 6.7 6.7			
Rated short-time withstand current I_{cw} (peak value)	Per conduct. path	0.25 s kA 1 s kA	5 2.5		6 3	
Rated conditional short-circuit current With back-up protection with back-up fuse With identical rated current	At $U_e =$	400 V kA 415 V kA 500 V kA 690 V kA	50 50 50 33	33	20	18
Capacitive load	At 400 V	kVar	50	60	77	97
Number of poles			2/3/4			
Rated power dissipation P_v	Per pole	VA	2.9	4.5	6.5	10
Frequency		Hz	50/60			
Conductor cross-sections • Solid and stranded • AWG cables • Copper busbars		mm ² AWG mm ²	6 ... 50 10 ... 1/0 --		-- 8 Max. 20 × 6	
Endurance	Electrical Mechanical	Switching cycles	1500 20000		1000 10000	
Acc. to UL 508	I_n	A	--	80	100	125
UL 508 General Use 480 V	FLA (Full load amperes)	A	--	28	34	40
UL 508 Manual motor controller 230 V	Power	hp	--	10	25	30
UL 508 Manual motor controller 480 V	Power	hp	--	20	15	15
UL 508 short-circuit at 480 V	With Class H or K5 fuses	kA	--	10		
	With J fuses	kA	--	50		

Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

Selection and ordering data

Version	I_e A AC	U_e V AC	Mount- ing width MW	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 <p>Switch disconnectors, lockable, with gray knob and transparent enclosure, mounting depth 92 mm</p>										
2 NO	100 125 160 200	690	5 8		5TE1210 5TE1220 5TE1230 5TE1240		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK	0.470 0.473 0.604 0.569
3 NO	100 125 160 200	690	5 8		5TE1310 5TE1320 5TE1330 5TE1340		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK	0.523 0.545 0.682 0.692
4 NO	100 125 160 200	690	5 8		5TE1410 5TE1420 5TE1430 5TE1440		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK	0.602 0.604 0.749 0.765
3 NO with N-conductor through-type terminal	100 125 160 200	690	5 8		5TE1610 5TE1620 5TE1630 5TE1640		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK	0.587 0.591 0.779 0.781
 <p>Switch disconnectors with red knob and yellow cap, can be used as emergency mains switching off device acc. to IEC 60204-1, EN 60204-1 (VDE 0113-1) if switch is easily accessible, mounting depth 92 mm</p>										
3 NO	100 125 160 200	690	5 8		5TE1315 5TE1325 5TE1335 5TE1345		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK	0.524 0.530 0.665 0.680
4 NO	100 125 160 200	690	5 8		5TE1415 5TE1425 5TE1435 5TE1445		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK	0.591 0.606 0.767 0.760

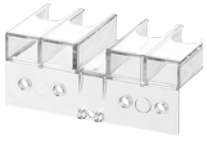






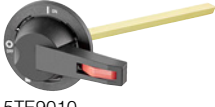

7

Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

Accessories

Version	I_e	U_e	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A AC	V AC							kg
 <p>Terminal covers Sealable For 100 A and 125 A switch disconnectors For 160 A and 200 A switch disconnectors</p>				5TE9000		1	1 unit	1BK	0.041
				5TE9001		1	1 unit	1BK	0.034
 <p>5TE9000</p>  <p>5TE9001</p>									
 <p>Cage terminals For 160 A and 200 A switch disconnectors, 14.5 mm terminal diameter for 35 mm² cables, hexagonal socket head screw 5 mm</p>				5TE9003		1	1 set	1BK	0.245
				5TE9004		1	1 set	1BK	0.323
 <p>Auxiliary switches Can be mounted optionally left or right or both sides (2 units); minimum contact load 24 V, 50 mA</p>				5TE9005		1	1 unit	1BK	0.041
				5TE9006		1	1 unit	1BK	0.047
 <p>Locking units For up to three padlocks with max. Ø 8 mm</p>				5TE9014		1	1 unit	1BK	0.018
 <p>Conversion kits, 4-pole, for 100 A and 125 A for the connection of busbars or cables with cable lugs For busbars max 15 mm wide including terminal cover</p>				5TE9015		1	1 set	1BK	0.078
 <p>Rotary actuators with extension shafts for mounting on hinged doors or enclosure lids, lockable, IP65</p>				5TE9010		1	1 unit	1BK	0.176
				5TE9011		1	1 unit	1BK	0.235
				5TE9012		1	1 unit	1BK	0.174
				5TE9013		1	1 unit	1BK	0.234
 <p>5TE9010</p>									

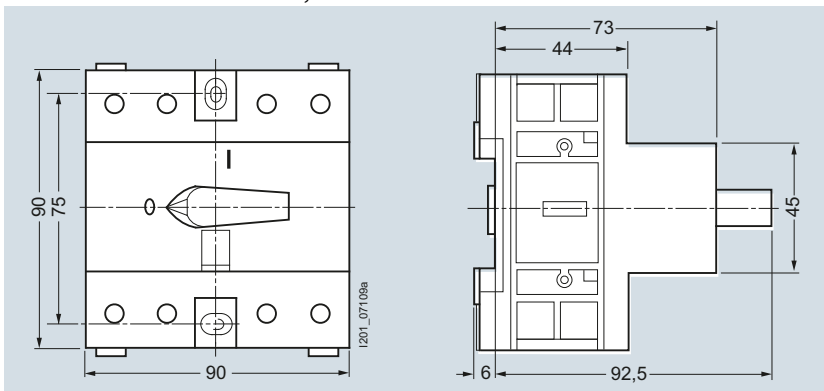
Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

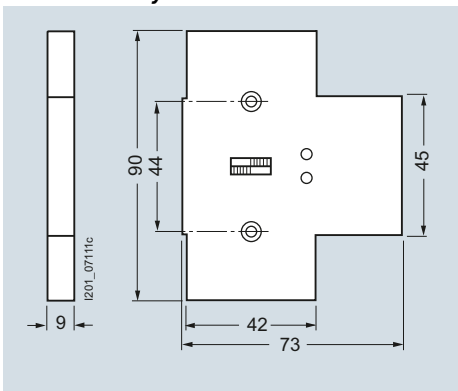
Dimensional drawings

5TE1 switch disconnectors, 100 A and 125 A



- | | | | |
|---------|---------|---------|---------|
| 5TE1210 | 5TE1310 | 5TE1410 | 5TE1610 |
| 5TE1220 | 5TE1315 | 5TE1415 | 5TE1620 |
| | 5TE1320 | 5TE1420 | |
| | 5TE1325 | 5TE1425 | |

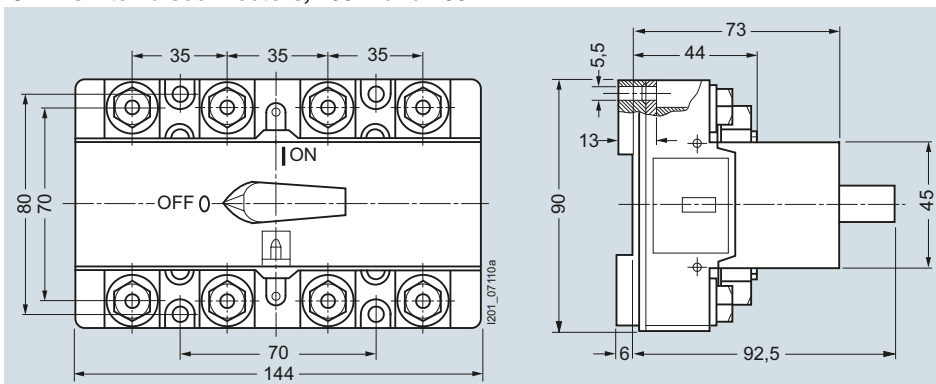
5TE9 auxiliary switches



- 5TE9005
5TE9006

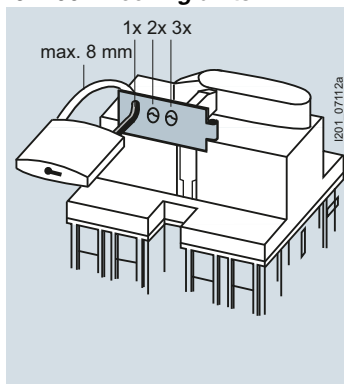
7

5TE1 switch disconnectors, 160 A and 200 A

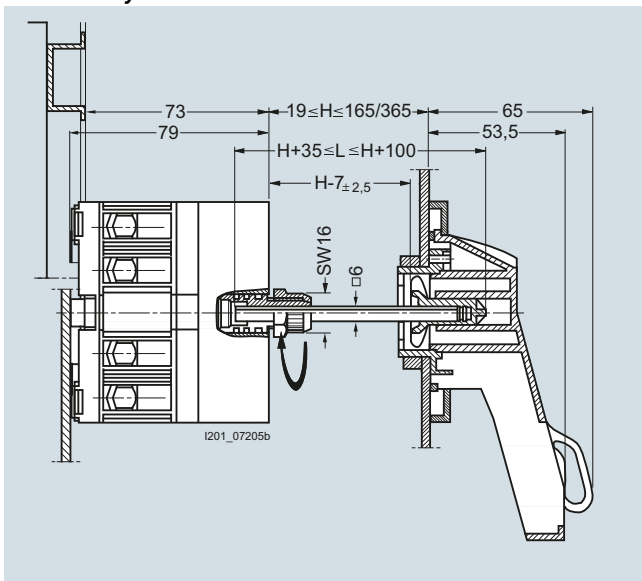


- | | | | |
|---------|---------|---------|---------|
| 5TE1230 | 5TE1330 | 5TE1430 | 5TE1630 |
| 5TE1240 | 5TE1335 | 5TE1435 | 5TE1640 |
| | 5TE1340 | 5TE1440 | |
| | 5TE1345 | 5TE1445 | |

5TE9014 locking units

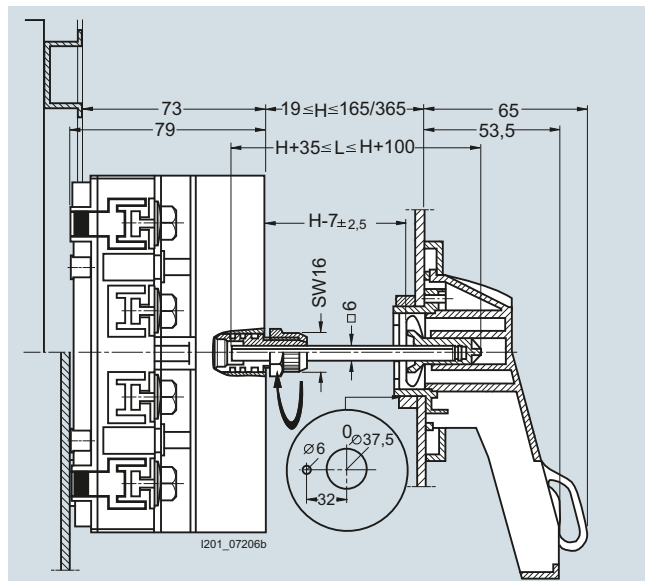


5TE9 rotary actuators with extension shaft



With switch disconnectors 100 A and 125 A
5TE9010, 5TE9011,
5TE9012, 5TE9013

It is possible to open the door in a disconnected state.



With switch disconnectors 160 A and 200 A
5TE9010, 5TE9011,
5TE9012, 5TE9013

It is possible to open the door in a disconnected state.

Circuit diagrams

Graphical symbols



5TE1210
5TE1220
5TE1230
5TE1240



5TE1310
5TE1320
5TE1330
5TE1340



5TE1410
5TE1420
5TE1430
5TE1440



5TE1610
5TE1620
5TE1630
5TE1640



5TE1315
5TE1325
5TE1335
5TE1345



5TE1415
5TE1425
5TE1435
5TE1445

5TE9 auxiliary switches



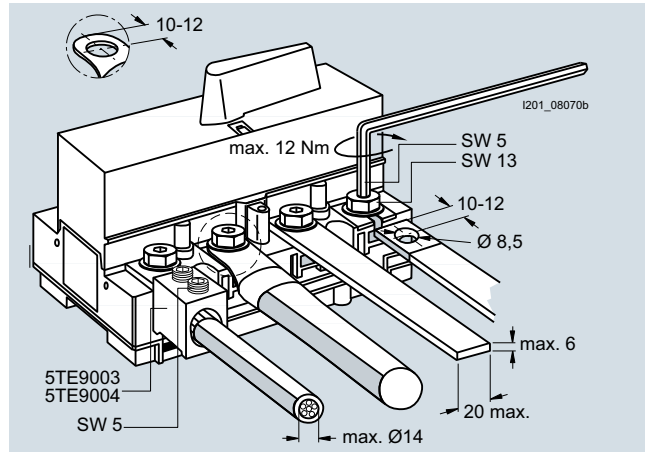
5TE9005



5TE9006

More information

Connection of 5TE1.3 and 5TE1.4 switches, 160 and 200 A



Design

- From 160 A: Supplied with one terminal cover
- 160 A and 200 A: Version for connection with cable lug
- Screw fixing on base plate
- Installation on standard mounting rail to EN 60715, which is raised at least 5 mm from the base plate.

Switch Disconnectors

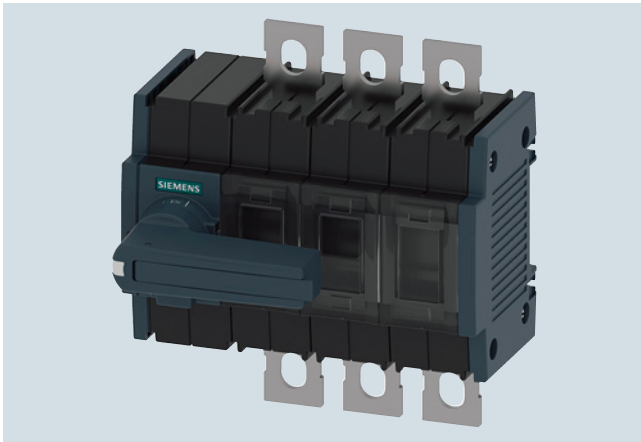
3KD Switch Disconnectors

Introduction

Overview

Devices	Description	Page	
Complete assemblies			
	Complete assemblies with direct operating mechanisms	Ready-to-install combinations comprising switch disconnectors and operating mechanisms <ul style="list-style-type: none"> • 3- and 4-pole switch disconnectors with front operating mechanisms • Connections in form of box terminal or flat terminal incl. direct operating mechanism with gray handle 	7/53
Basic units			
	Front operating mechanisms 6-pole up to 1200 V DC NEW	Switch disconnectors with front operating mechanisms without handle <ul style="list-style-type: none"> • 6-pole versions for DC applications • Connections in form of flat terminal (size 2 to 5) or box terminal (size 1 and 2) • Operating mechanism module in center of switch disconnector 	7/55 7/55
	3-/4-pole up to 690 V AC / 440 V DC	<ul style="list-style-type: none"> • 3- and 4-pole versions • Connections in form of flat terminal (size 2 to 5) or box terminal (size 1 and 2) • Operating mechanism module in center or on left-hand side of switch disconnector 	7/55
	Side operating mechanisms	Switch disconnectors with side operating mechanisms <ul style="list-style-type: none"> • 3- and 4-pole versions • Connections in form of flat terminal (size 2 to 5) or box terminal (size 1 and 2) • Operating mechanism module on right or left-hand NEW side of switch disconnector 	7/56
Accessories and spare parts			
 <p>Left: Box terminal Right: Flat terminal</p>	Additional poles	Additional poles for enhanced functionality <ul style="list-style-type: none"> • 4th contact element (switching pole) • N terminal (neutral conductor terminal with removable jumper) • N/PE terminal (with permanent jumper) 	7/58
	Direct operating mechanisms	Different handles for mounting on basic units <ul style="list-style-type: none"> • Direct operating mechanisms for direct mounting on switch disconnector • Handles available in colors gray or red/yellow 	7/59
	Door-coupling rotary operating mechanisms	Different handles for mounting on basic units <ul style="list-style-type: none"> • Door-coupling rotary operating mechanisms for operation of switch disconnector outside the control cabinet door • 8UD1 series NEW or 8UC/3KD series • Handles available in colors gray or red/yellow 	7/60
	Auxiliary switches	Auxiliary switches <ul style="list-style-type: none"> • For querying the switch position • Optionally available with leading NO contacts (auxiliary switch contacts open before the main contacts of the 3KD switch disconnector) • Optionally available with test function (switch can be tested without closure of main contacts) 	7/65
	Accessories for DC applications NEW	<ul style="list-style-type: none"> • Connecting bridge for series connection of two poles • Cable connection cover for connecting bridge 	7/66
	Other accessories	<ul style="list-style-type: none"> • Phase barriers • Cable connection cover As touch protection for termination area (for installation outside control cabinet) • Mounting bracket for wall mounting (spare part) 	7/66

Overview



3KD switch disconnector, complete assembly, 3-pole

Characteristics

- 3-pole, 4-pole, and 6-pole versions in 5 different sizes
- Supplied as a complete assembly including direct operating mechanism or as a basic unit without a handle
- Direct operating mechanism with handle on switch disconnector
- Door-coupling rotary operating mechanism for operation of switch disconnector outside the control cabinet door
- Versions with side operating mechanisms
- Connections in the form of box terminals or flat terminals
- Floor mounting or mounting on a standard mounting rail (sizes 1 and 2)
- Additional poles can be retrofitted: 4th contact element, N or N/PE terminals
- Auxiliary switches for querying the switch positions
- Suitable for AC applications up to 690 V + 10 % (wind power)
- Suitable for DC applications up to 1200 V

Benefits

- Enhanced touch protection
- Contact position is clearly visible
- Locking functions help to prevent unauthorized operation
- Enhanced protection against inter-phase arcing
- Safe use in wind farms
- Compact design saves space
- Wide variety of applications thanks to a range of different operating mechanism designs
- Supplementary functions can be retrofitted
- Various service positions are possible thanks to optimized heat dissipation
- Test function to ensure safe commissioning
- Comprehensive support through provision of CAx data

Application

3KD switch disconnectors are designed for applications with exacting requirements. They are deployed as main control switches, EMERGENCY-STOP switches and repair switches in industrial plants, infrastructure and buildings. 3KD switch disconnectors are designed to switch the specified rated current on and off under load. At the same time, they constitute a safety isolating function and isolating distance in all low-voltage circuits.

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

Switch Disconnectors

3KD Switch Disconnectors

General data

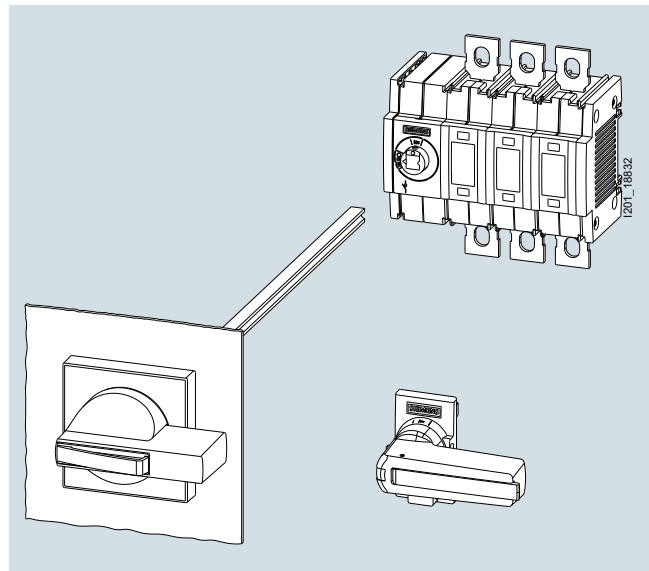
Design

A 3KD switch disconnector consists of an operating mechanism module, three, four or six switching poles and a handle to operate the switch disconnector.

Handles

The direct operating mechanism version of the handle is mounted directly on the switch disconnector. It can also be supplied in the form of a door-coupling rotary operating mechanism for actuation of the switch disconnector outside the control cabinet door. The handle is available in gray, or colored red/yellow for use as an EMERGENCY-STOP switch.

Commonly used switch disconnector variants comprising basic unit and handle are available as complete assemblies.



Handle either as direct operating mechanism or door-coupling rotary operating mechanism

Position of operating mechanism modules

To allow optimum utilization of the available installation space, units with front operating mechanisms can be supplied with the operating mechanism module in various positions – mounted on the left-hand side of the 3KD switch disconnector or in the center between the switching poles.

On units with side operating mechanisms, the operating mechanism module is positioned on the right or left-hand side of the 3KD switch disconnector.

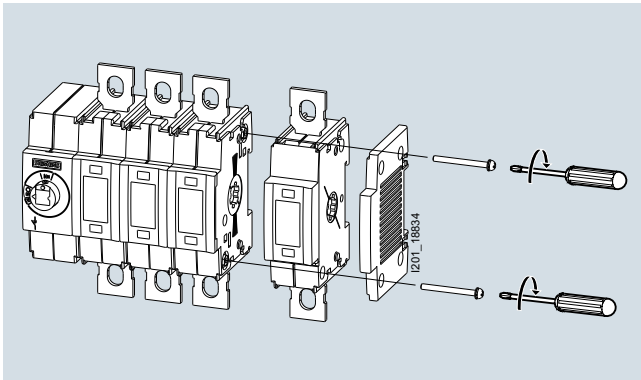
Number of poles/ application	Front operating mechanism on side	Front operating mechanism in center	Side operating mechanism, left	Side operating mechanism, right
3-pole				
4-pole				
For 1200 V DC	--		--	--

Additional poles

All sizes of the 3KD switch disconnectors can be retrofitted with additional poles on a modular basis.

When installing additional poles, it is important to note that only a 3-pole 3KD switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).

Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right. Accordingly, an auxiliary switch module must not be mounted between the basic unit and an additional pole on sizes 1 and 2.

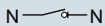


Installation of an additional pole

Available versions:

Fourth contact element:

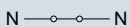
The 4th contact element includes a contact system and is identical to the poles installed at the factory. It can be installed to upgrade a 3-pole switch disconnector to a disconnector with 4 poles.



Fourth contact element as an additional pole

N terminal (neutral conductor terminal):

The N terminal does not include a contact system. A jumper can be removed in order to interrupt the electrical connection between the two terminals. An N terminal can be installed to add a non-switching N pole to a 3-pole disconnector.



N terminal as non-switching pole

N/PE terminal:

The N/PE terminal is identical to the neutral conductor terminal. However, the electrical connection between the two terminals is permanent and cannot be interrupted by removal of a jumper. The N/PE terminal is normally deployed for applications in which it is vital to ensure that this connection can never be interrupted.



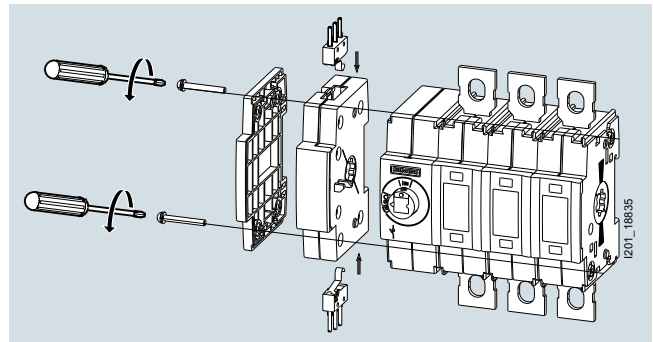
N/PE terminal with permanent connections

Auxiliary switches

Auxiliary switches allow remote interrogation of the contact position of the switch disconnector.

Installation of auxiliary switches for sizes 1 and 2

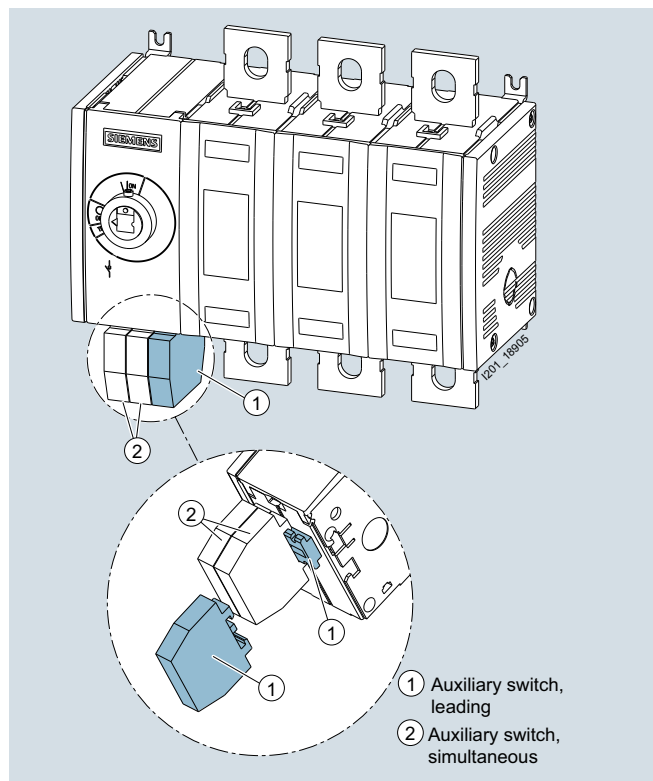
The auxiliary switches used for sizes 1 and 2 are microswitches (changeover contacts) which can be snapped into an auxiliary switch module. This auxiliary switch module is mounted on the side of the switch disconnector in the same way as an additional pole. A maximum of two microswitches can be installed in each auxiliary switch module.



Auxiliary switches with auxiliary switch module for sizes 1 and 2

Installation of auxiliary switches for sizes 3 to 5

With sizes 3 to 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts.



Auxiliary switches directly attached to the operating mechanism module with sizes 3 to 5. The leading auxiliary switch is highlighted in the drawing.

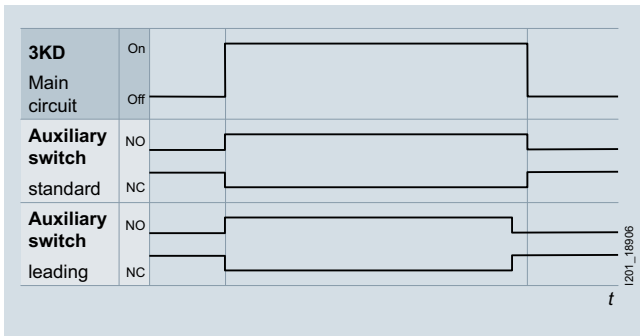
Switch Disconnectors

3KD Switch Disconnectors

General data

Switching instants of auxiliary switches

The auxiliary switches can operate either simultaneously with the main contacts or function as leading switches with all sizes.



One of the possible functions of leading auxiliary switches is to disconnect the circuit with the assistance of a higher-level switching device, such as a circuit breaker, before the main contacts of the 3KD switch disconnector open.

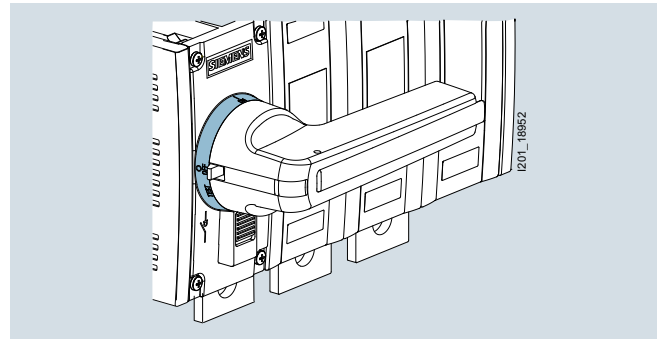
With sizes 1 and 2, the selection of the appropriate auxiliary switch module determines whether the switching instant will be leading or simultaneous.

With sizes 3, 4 and 5, the switching instant is determined by the selection of the mounting location for the auxiliary switch on the operating mechanism module. In this case, only 3SB3 auxiliary switches with NO contacts (1 NO or 1 NC) can be used as leading auxiliary switches.

Test function for auxiliary switches

The test function allows a wiring check to be performed on the auxiliary switches without necessitating closure of the main contacts of the 3KD switch disconnector. The test function can be used as part of the commissioning process.

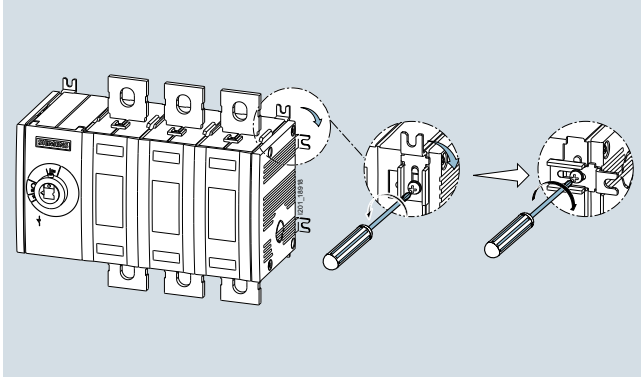
The test function is activated by turning the handle of a direct operating mechanism in the OFF position by 25° in the anti-clockwise direction. The handle must be turned 90° in the clockwise direction in order to switch the main contacts.



The auxiliary switch module including test function must be used for sizes 1 and 2. With sizes 3, 4 and 5, all installed auxiliary switches are switched when the test function is activated.

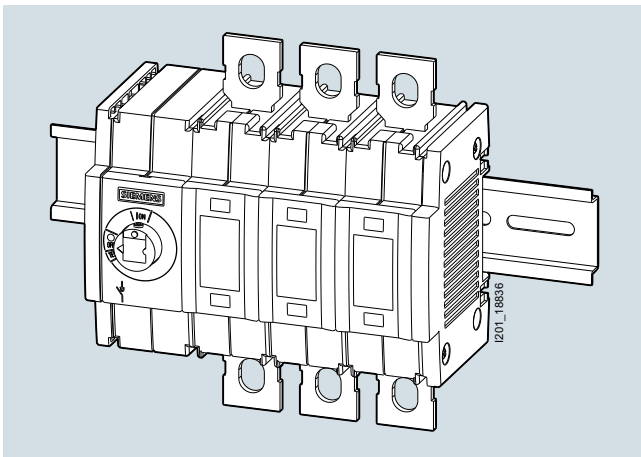
Types of mounting

All 3KD switch disconnectors are designed for floor mounting. To ensure that the switch can be flexibly adapted to the relevant installation conditions, the mounting bracket can be rotated through 90° with size 3 or larger.



Floor mounting method

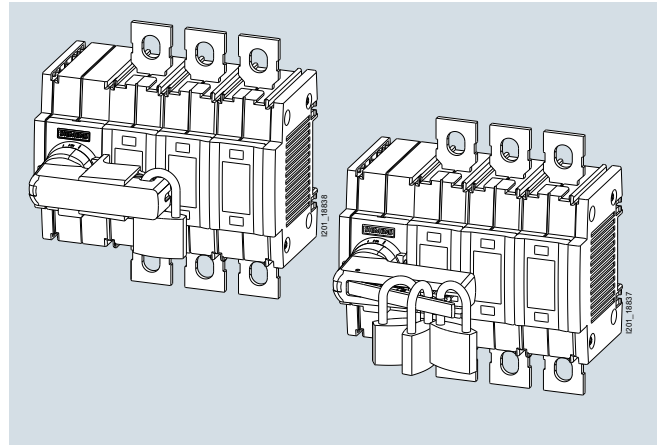
Sizes 1 and 2 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.



Mounting on a standard mounting rail

Locking functions

3KD switch disconnectors can be locked by up to three padlocks in order to prevent unauthorized switch operation. A flat version of the direct operating mechanisms is available for use in confined installation spaces. This can be secured with a lock without increasing the required mounting depth.



Locking functions involving one or more padlocks

Switch Disconnectors

3KD Switch Disconnectors

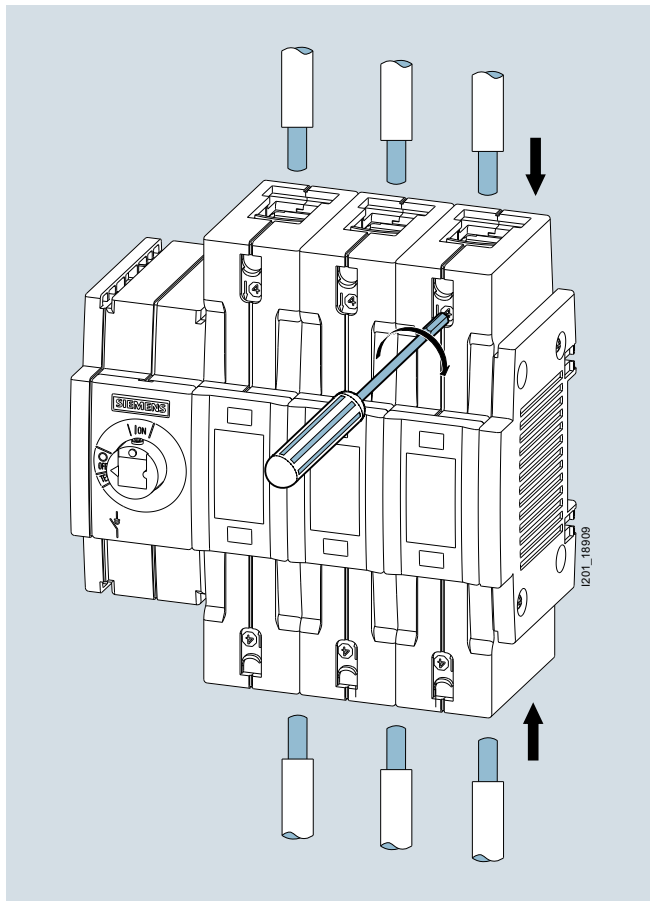
General data

Electrical connection

3KD switch disconnectors are available with a number of different terminal types.

Box terminals

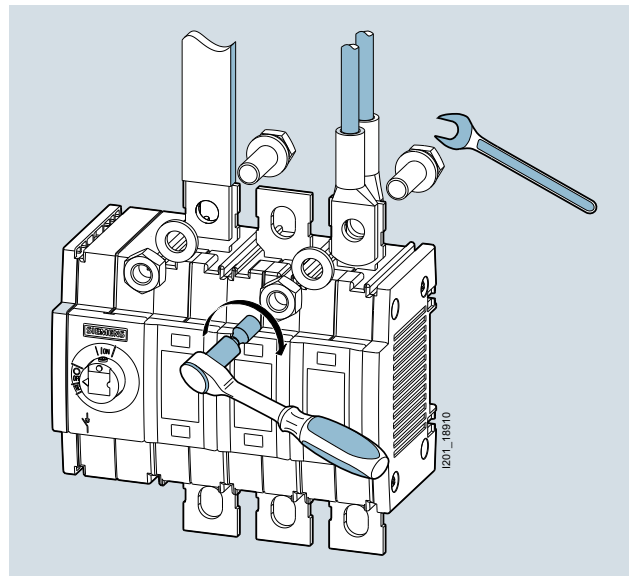
Box terminals for sizes 1 and 2 (rated currents 16 A to 160 A) are designed to allow the speedy connection of stripped conductors.



Connection via box terminals

Flat terminals

Sizes 2 to 5 (rated currents 80 A to 1600 A) are available with flat terminals – for the connection of cable lugs or busbar systems.

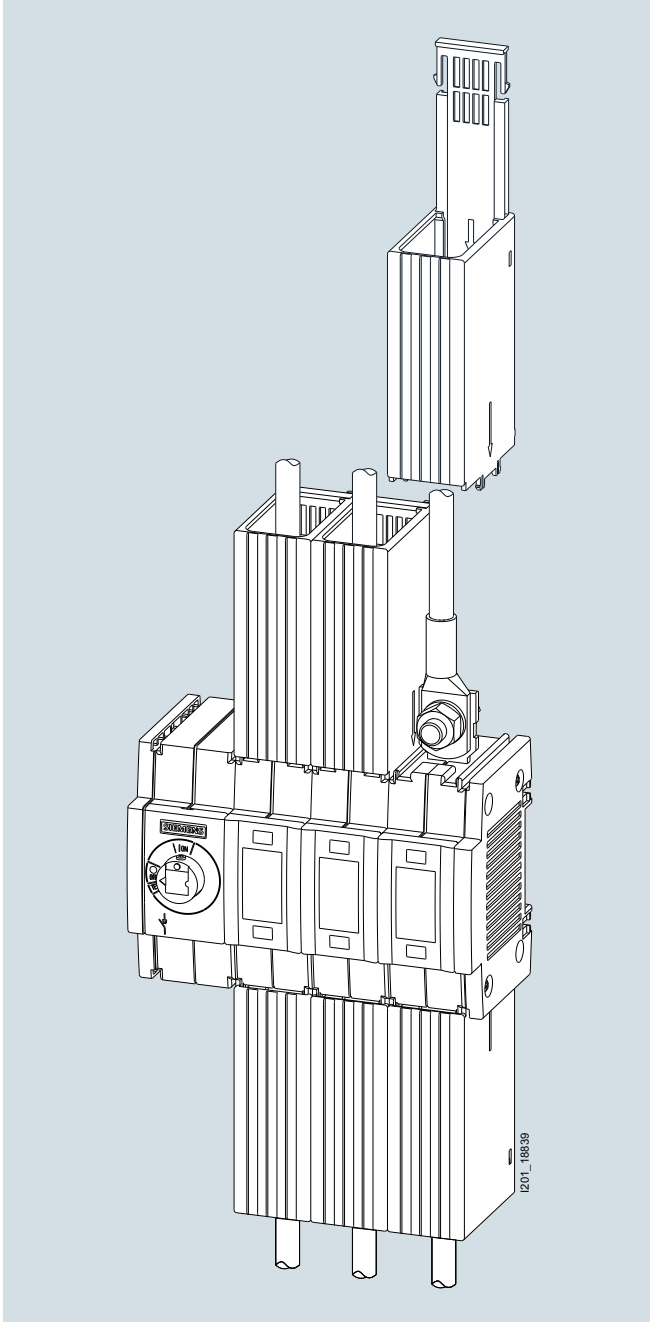


Connection via flat terminals

Terminal covers and phase barriers can be supplied for 3KD switch disconnectors with flat terminals.

Terminal covers

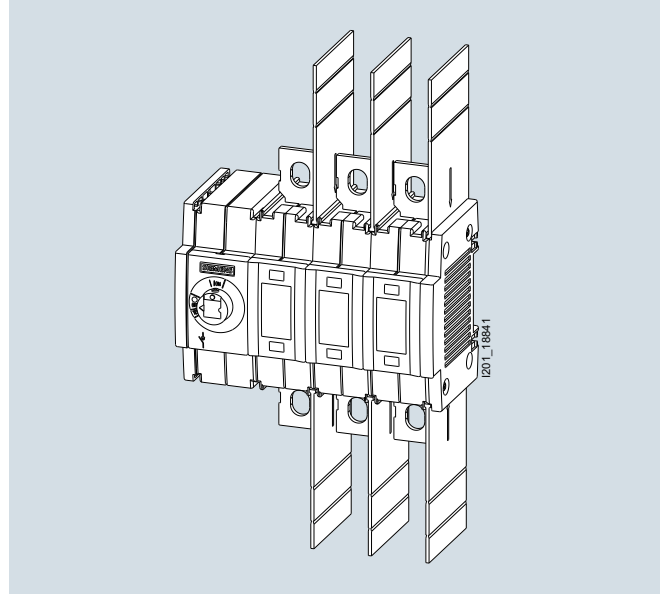
If the 3KD switch disconnector is erected outside a control cabinet, terminal covers can be installed to provide touch protection for all terminals.



Terminal covers

Phase barriers

When long, non-insulated cable lugs are used, phase barriers provide enhanced protection against arcing.



Phase barriers

Switch Disconnectors

3KD Switch Disconnectors

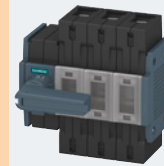
Technical features

Overview

3LD main control and EMERGENCY-STOP switches



3KD switch disconnectors: Box terminals



3KD switch disconnectors: Flat terminals



Size

Type

3LD20 3LD21 3LD22 3LD25

1

3KD...-M

3LD27 3LD28 3LD23

2

3KD...-N

		3LD main control and EMERGENCY-STOP switches				3KD switch disconnectors			3LD main control and EMERGENCY-STOP switches			3KD switch disconnectors				
Rated current I_n	A	16	25	32	63	16	32	63	100	125	160	80	100	125	160	200
Number of poles																
• 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connection																
• Flat terminals		--	--	--	--	--	--	--	--	--	--	✓	✓	✓	✓	✓
• Box terminals		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	--
Operating mechanisms																
• Front operating mechanism		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• Side operating mechanism		--	--	--	--	✓	✓	✓	--	--	--	✓	✓	✓	✓	✓
Operating and short-circuit behavior																
• Rated short-time withstand current I_{cw} (1 s current, rms value)	kA	0.34	0.64	0.64	1.26	3	3	3	2	2	4	4	4	4	4	4
• Rated conditional short-circuit current with upstream fuses at 690 V ¹⁾	kA _{rms}	50	50	50	50	100	100	100	50	20	50	65	65	65	65	50

¹⁾ Valid for the combination of 3KD switch disconnector and fuse type 3NA..., characteristic gG


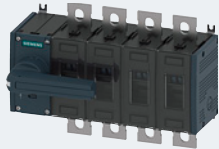
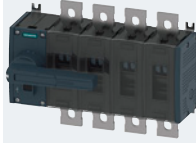
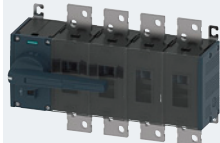
✓ Available

-- Not available

For further information about 3LD main control and EMERGENCY-STOP switches

- see page 7/3
- Industry Mall, section "Building Technologies and Electrical Distribution"
 - > "Low-Voltage Components"
 - > "SENTRON Protection, Switching, Measuring and Monitoring Devices"
 - > "Switching Devices"
 - > "Switch Disconnectors"
 - > "3LD Main Control and EMERGENCY-STOP Switches up to 250 A"

Overview (continued)

3LD main control and EMERGENCY-STOP switches												
3KD switch disconnectors: Box terminals												
3KD switch disconnectors: Flat terminals												
Size		3			4				5			
Type	3LD24	3KD...-P			3KD...-Q				3KD...-R			
		3LD main control and EMERGENCY-STOP switches										
		3KD switch disconnectors										
Rated current I_n	A	250	200	250	315	400	500	630	800	1000	1250	1600
Number of poles												
• 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connection												
• Flat terminals		--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• Box terminals		✓	--	--	--	--	--	--	--	--	--	--
Operating mechanisms												
• Front operating mechanism		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• Side operating mechanism		--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operating and short-circuit behavior												
• Rated short-time withstand current I_{cw} (1 s current, rms value)	kA	4	13	13	13	13	30	30	30	50	50	50
• Rated conditional short-circuit current with upstream fuses at 690 V ¹⁾	kA _{rms}	50	65	65	35	35	65	65	50	--	--	--

1) Valid for the combination of 3KD switch disconnector and fuse type 3NA..., characteristic gG

- ✓ Available
- Not available

For further information about 3LD main control and EMERGENCY-STOP switches

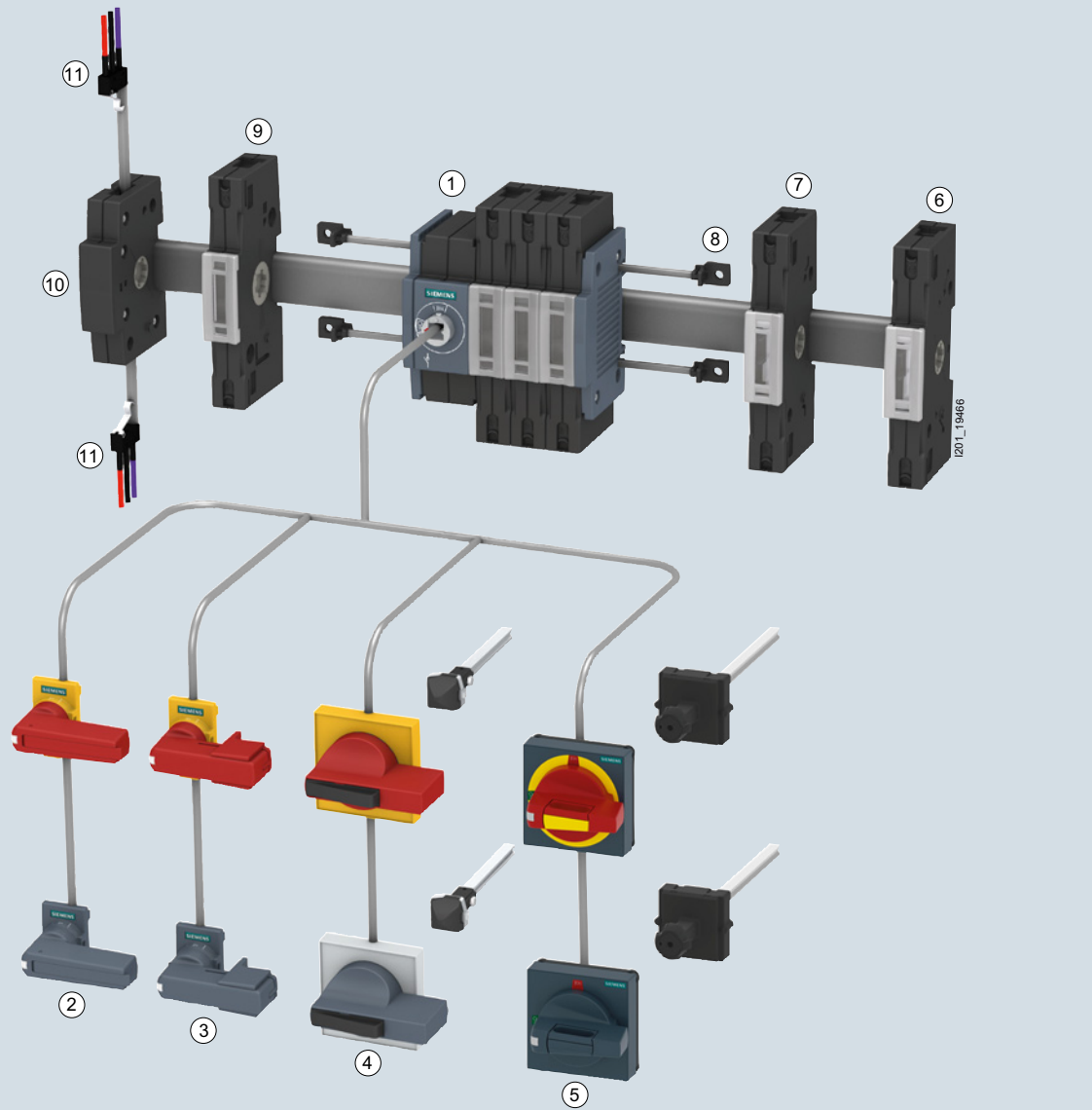
- see page 7/3
- see the Industry Mall, section "Building Technologies and Electrical Distribution"
 - > "Low-Voltage Components"
 - > "SENTRON Protection, Switching, Measuring and Monitoring Devices"
 - > "Switching Devices"
 - > "Switch Disconnectors"
 - > "3LD Main Control and EMERGENCY-STOP Switches up to 250 A"

Switch Disconnectors

3KD Switch Disconnectors

Technical features

Overview of components and accessories: 3KD switch disconnectors, 3/4-pole, sizes 1 and 2, box terminal



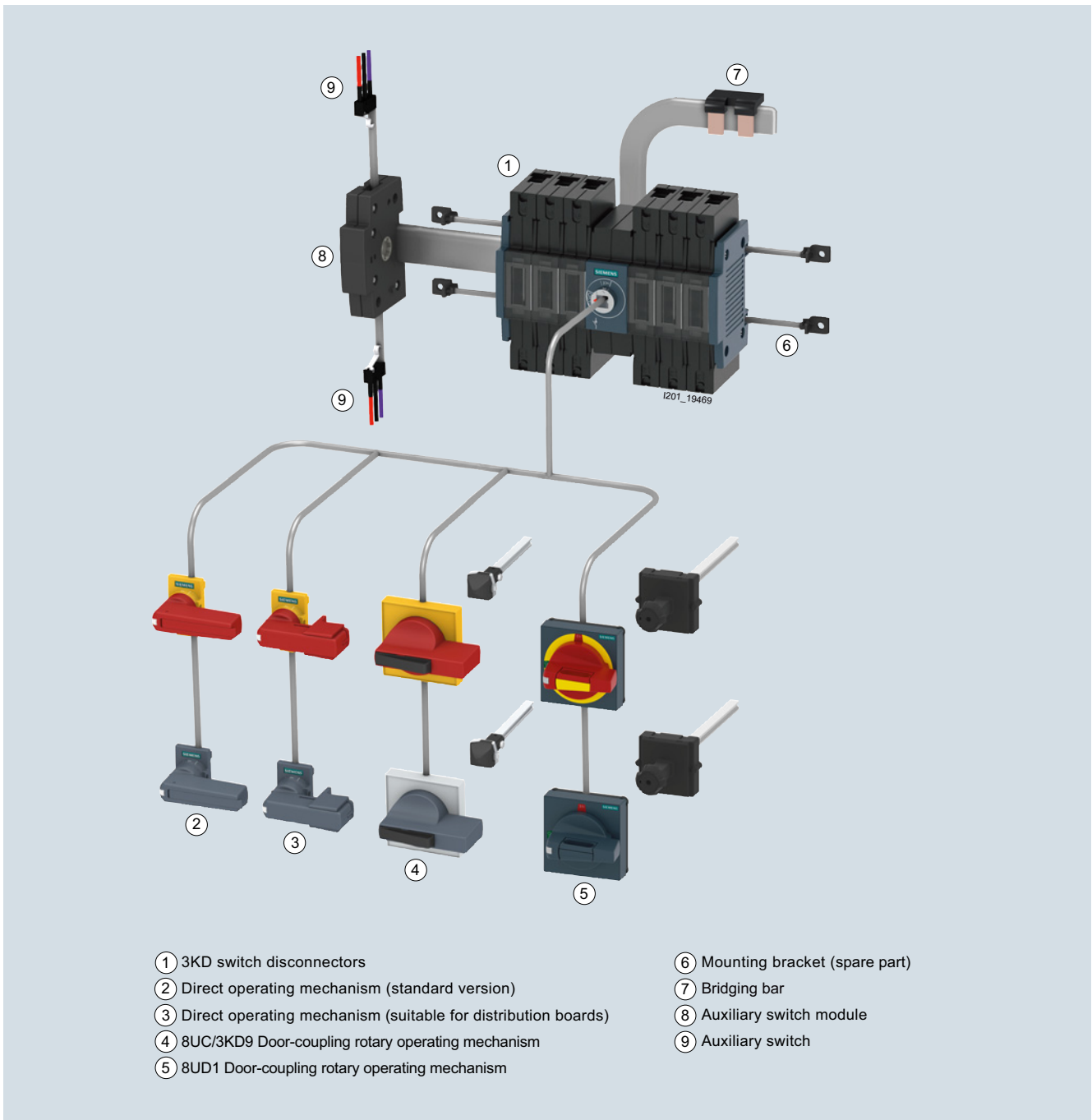
- | | |
|---|--|
| ① 3KD switch disconnectors | ⑦ Neutral conductor terminal (with removable jumper) |
| ② Direct operating mechanism (standard version) | ⑧ Mounting bracket (spare part) |
| ③ Direct operating mechanism (suitable for distribution boards) | ⑨ 4th contact element |
| ④ 8UC/3KD9 Door-coupling rotary operating mechanism | ⑩ Auxiliary switch module |
| ⑤ 8UD1 Door-coupling rotary operating mechanism | ⑪ Auxiliary switch |
| ⑥ N/PE terminal (with permanent jumper) | |

Switch Disconnectors

3KD Switch Disconnectors

Technical features

Overview of components and accessories: 3KD switch disconnectors, 6-pole for DC applications, sizes 1 and 2, box terminal

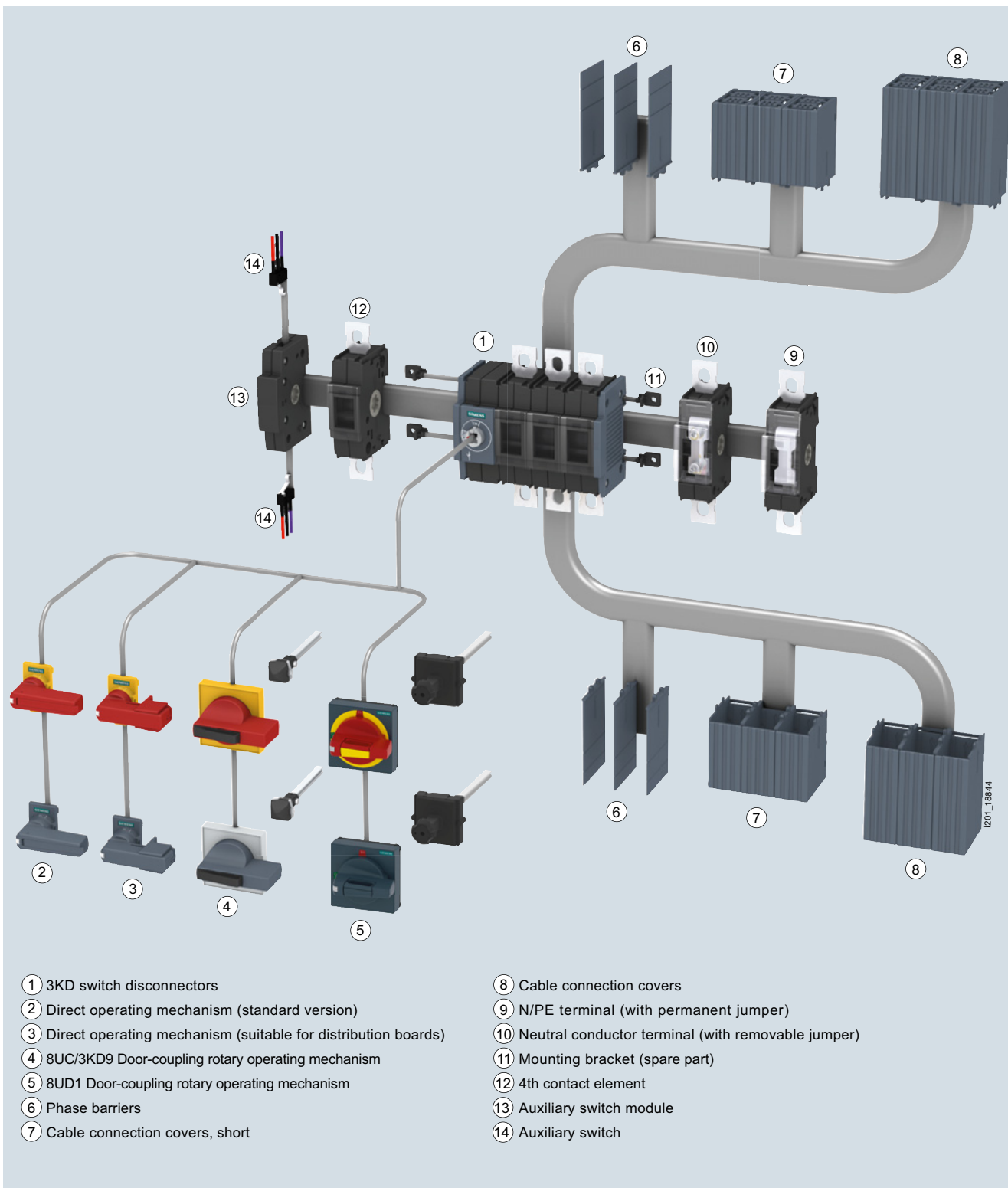


Switch Disconnectors

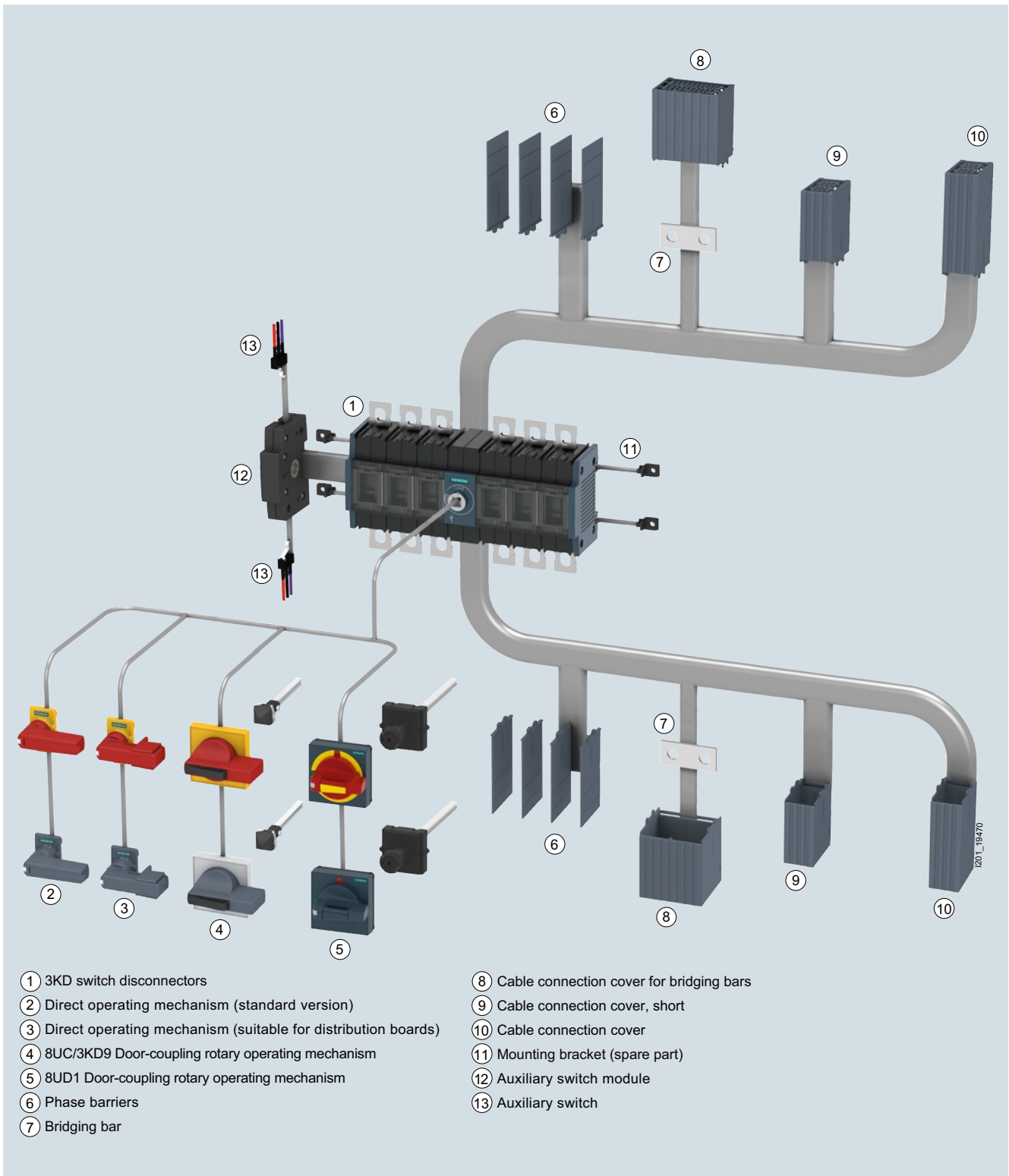
3KD Switch Disconnectors

Technical features

Overview of components and accessories: 3KD switch disconnectors, 3/4-pole, size 2, flat terminal



Overview of components and accessories: 3KD switch disconnectors, 6-pole, size 2, flat terminal

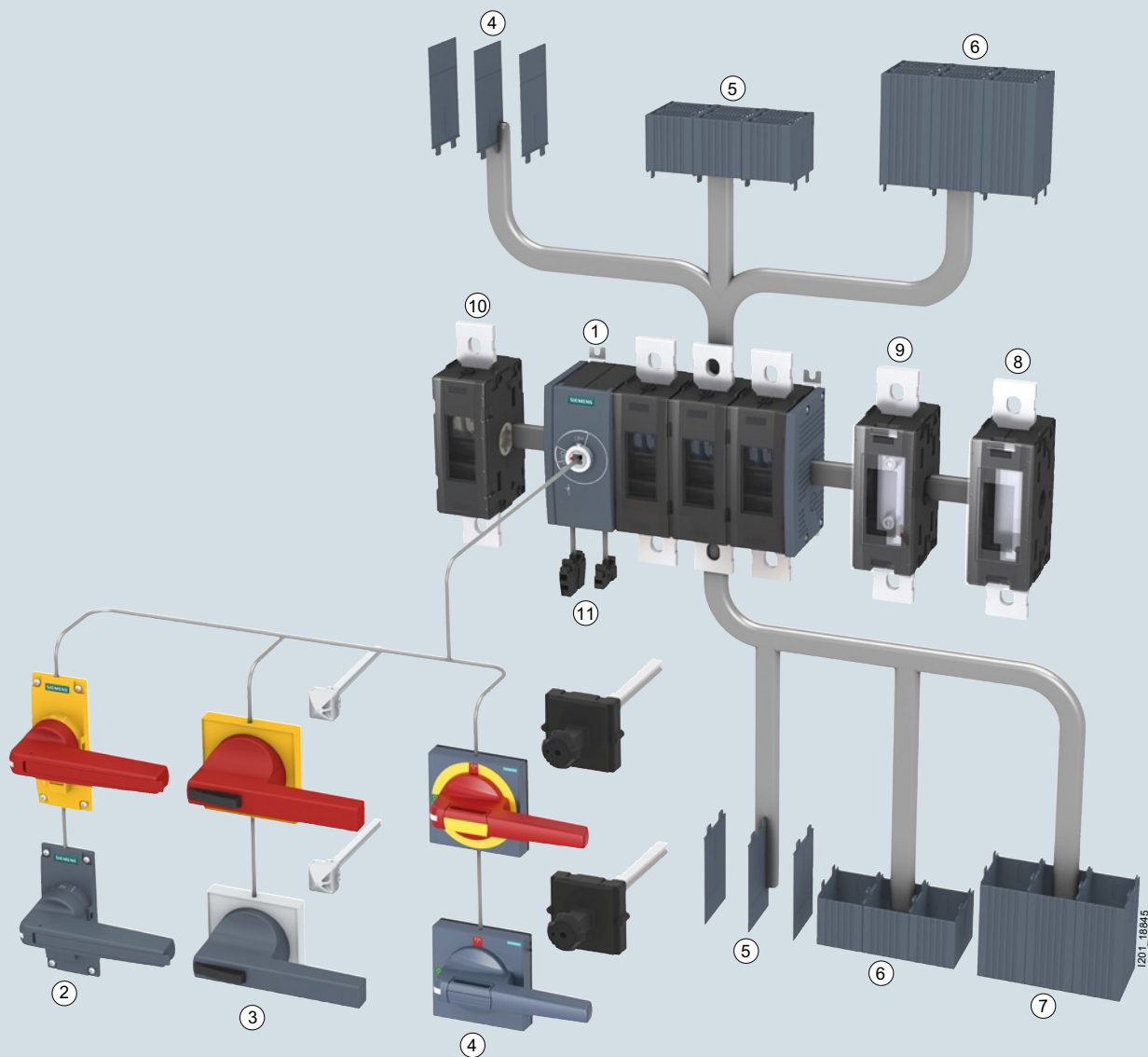


Switch Disconnectors

3KD Switch Disconnectors

Technical features

Overview of components and accessories: 3KD switch disconnectors, 3/4-pole, sizes 3 to 5, flat terminal



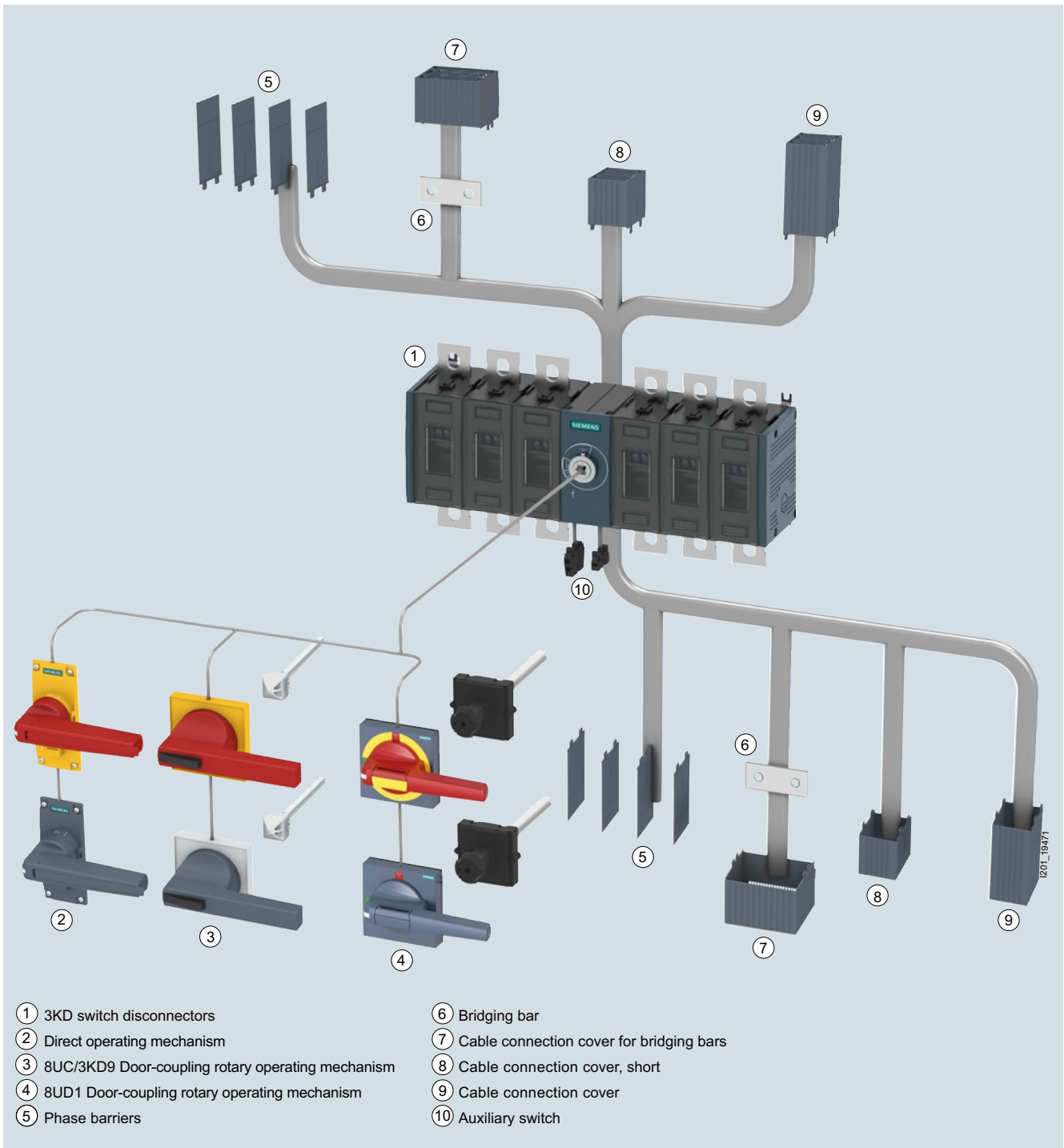
- | | |
|---|---|
| ① 3KD switch disconnectors | ⑦ Cable connection covers |
| ② Direct operating mechanism | ⑧ N/PE terminal (with permanent jumper) |
| ③ 8UC/3KD9 Door-coupling rotary operating mechanism | ⑨ Neutral conductor (with removable jumper) |
| ④ 8UD1 Door-coupling rotary operating mechanism | ⑩ 4th contact element |
| ⑤ Phase barriers | ⑪ Auxiliary switch |
| ⑥ Cable connection covers, short | |

Switch Disconnectors

3KD Switch Disconnectors

Technical features

Overview of components and accessories: 3KD switch disconnectors, 6-pole for DC applications, sizes 3 to 5, flat terminal



Switch Disconnectors

3KD Switch Disconnectors

Technical features

Technical specifications

3KD switch disconnectors, 3/4-pole, sizes 1 and 2

Standards	IEC 60947-1, IEC 60947-3								
Type	3KD16	3KD22	3KD26	3KD28	3KD30	3KD32	3KD34	3KD36...N	
Size	1	1	1	2	2	2	2	2	
General technical details									
Rated uninterrupted current I_U	A	16	32	63	80	100	125	160	200
Conventional free-air thermal current $I_{th}^{(1)}$	A	16	32	63	80	100	125	160	200
Rated operational voltage U_e	V	690							
• At 50/60 Hz AC (tolerance up to + 10 % permissible)	V	220							
• At DC - 2 conducting paths series-connected	V	440							
• At DC - 3 conducting paths series-connected	V	1000							
Rated insulation voltage U_i	V	1000							
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8	8	8	8	8
Overvoltage category		III	III	III	III	III	III	III	III
Pollution degree		3	3	3	3	3	3	3	3
Operating and short-circuit behavior									
Rated operational current I_e	A	16	32	63	80	100	125	160	200
• At AC-21A, AC-22A, 400 to 690 V	A	16	32	63	80	100	125	160	160
• At AC-23, 400 V	A	16	32	63	80	100	125	160	160
• At AC-23, 500 V	A	16	32	63	80	100	125	125	125
• At AC-23, 690 V	A	16	32	63	80	100	125	160	160
• At DC-21A, 220/440 V	A	16	32	63	80	100	125	160	160
• At DC-22A, 220/440 V	A	16	32	63	80	100	125	160	160
• At DC-23A, 220/440 V	A	16	32	63	80	100	125	160	160
Motor switching capacity AC-23A ²⁾	kW	7.5	15	30	37	55	55	90	90
• At 400 V	kW	7.5	15	30	37	55	55	90	90
• At 500 V	kW	11	30	55	75	90	110	110	110
• At 690 V	kW	11	30	55	75	90	110	110	110
Rated short-time withstand current I_{cw} (with $t = 1$ s, rms value, 690 V AC/440 V DC)	kA	3	3	3	4	4	4	4	4
Rated short-circuit making capacity I_{cm} (at 690 V AC/440 V DC)	kA	7	7	7	12	12	12	12	12
Rated current of upstream fuse ³⁾	A	63	63	63	160	160	160	160	200
Rated conditional short-circuit current with upstream fuse ³⁾	kA	100	100	100	100	100	100	100	50
• At 400/500 V AC	kA	100	100	100	65	65	65	65	50
• At 690 V AC	kA	100	100	100	65	65	65	65	50
Let-through current combined with upstream fuse ³⁾	kA	7	7	7	17.9	17.9	17.9	17.9	18
• At 400/500 V AC	kA	7.5	7.5	7.5	18.7	18.7	18.7	18.7	19
• At 690 V AC	kA	7.5	7.5	7.5	18.7	18.7	18.7	18.7	19
Let-through I^2t value combined with upstream fuse ³⁾	kA ² s	13.3	13.3	13.3	135.6	135.6	135.6	135.6	211
• At 400/500 V	kA ² s	13.7	13.7	13.7	178.3	178.3	178.3	178.3	226
• At 690 V	kA ² s	13.7	13.7	13.7	178.3	178.3	178.3	178.3	226
Power loss per pole with thermal current I_{th}	W	0.2	0.6	2	2	3	4.5	7	10
Service life, operating cycles		15000							
• Mechanical		6000							
• Electrical, at AC-23A, 690 V/50...60 Hz		1500							
• Electrical, at DC-23A, 220/440 V		1500							
Degree of protection		IP20							
• With masking plate or cable connection cover		IP20							
• Without masking plate or terminal cover		IP00							
Ambient conditions		-25 ... +70 (no derating of I_{th} at -5 to +55 °C)							
• Ambient temperature during operation	°C	-50 ... +80							
• Ambient temperature during storage	°C	Any							
• Mounting position ⁵⁾		Any							
Main conductor connections									
Conductor cross-section, max.	mm ²	35	35	35	70 (95) ⁶⁾	70 (95) ⁶⁾	70 (95) ⁶⁾	70 (95) ⁶⁾	95
Busbar systems, max. dimensions (number x width x thickness)		1 x 20 x 3 ⁷⁾							
• Flat terminals	mm	1 x 9 x 2							
• Box terminals	mm	1 x 14 x 3							
Tightening torque	Nm	15 ... 22							
• Flat terminals	Nm	5 ... 6.5							
• Box terminals	Nm	6.5 ... 8							

1) Configuring note: Max. permissible operating temperature at connections 125 °C

2) Values are provided as a guide only and may vary depending on the make of motor

3) Valid for the combination of 3KD and fuse type 3NA38 for $I_U = 16 \dots 160$ A; 3NA31 for $I_U = 200$ A, characteristic gG

4) Relevant only for devices with flat terminals

5) With mounting positions other than the vertical, please contact Technical Support.

6) 95 mm² valid for variants with flat terminals.

7) When using busbars that are 20 mm wide, these must be insulated.

Technical specifications (continued)

3KD switch disconnectors, 3/4-pole, sizes 3 to 5

Standards	IEC 60947-1, IEC 60947-3											
Type	3KD36...P	3KD38	3KD40	3KD42	3KD44	3KD46	3KD48	3KD50	3KD52	3KD54		
Size	3	3	3	3	4	4	4	5	5	5		
General technical details												
Rated uninterrupted current I_U	A	200	250	315	400	500	630	800	1000	1250	1600	
Conventional free-air thermal current $I_{th}^{(1)}$	A	200	250	315	400	500	630	800	1000	1250	1600	
Rated operational voltage U_e	V	690										
• At 50/60 Hz AC (tolerance up to + 10 % permissible)	V	220										
• At DC - 2 conducting paths series-connected	V	440										
• At DC - 3 conducting paths series-connected	V	1000										
Rated insulation voltage U_i	kV	12	12	12	12	12	12	12	12	12	12	
Rated impulse withstand voltage U_{imp}	kV	12	12	12	12	12	12	12	12	12	12	
Overvoltage category	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	
Pollution degree	3	3	3	3	3	3	3	3	3	3	3	
Operating and short-circuit behavior												
Rated operational current $I_a^{(2) (3)}$	A	200	250	315	400	500	630	800	1000	1250	1600	
• At AC-21A, AC-22A, 400 to 690 V	A	200	250	315	400	500	630	670	800	800	800	
• At AC-23, 400 V	A	200	250	315	350	500	630	630	800	800	800	
• At AC-23, 500 V	A	200	250	315	315	500	500	500	800	800	800	
• At AC-23, 690 V	A	200	250	315	400	500	630	800	1000	1250	1600	
• At DC-21A, 220/440 V	A	200	250	315	400	500	630	800	--	--	--	
• At DC-22A, 220/440 V	A	200	250	315	400	500	630	800	--	--	--	
• At DC-23A, 220/440 V	A	200	250	315	400	500	630	800	--	--	--	
Motor switching capacity AC-23A ⁽⁴⁾	kW	110	132	160	220	280	355	355	400	400	400	
• At 400 V	kW	132	160	220	250	355	400	400	560	560	560	
• At 500 V	kW	185	220	280	315	500	500	500	800	800	800	
• At 690 V	kW	185	220	280	315	500	500	500	800	800	800	
Rated short-time withstand current I_{cw} (with $t = 1$ s, rms value, 690 V AC/440 V DC)	kA	13	13	13	13	30	30	30	50	50	50	
Rated short-circuit making capacity I_{cm} (at 690 V AC/440 V DC)	kA	26	26	26	26	63	63	63	105	105	105	
Rated current of upstream fuse ⁽⁵⁾	A	250	250	400	400	630	630	800	1000	1250	1600	
Rated conditional short-circuit current with upstream fuse ⁽⁵⁾	kA	100	100	65	65	100	100	100	100	80	80	
• At 400/500 V AC	kA	65	65	35	35	65	65	50	--	--	--	
• At 690 V AC	kA	65	65	35	35	65	65	50	--	--	--	
Let-through current combined with upstream fuse ⁽⁵⁾	kA	25.1	25.1	35.2	35.2	61.6	61.6	63.7	95.9	103.4	110	
• At 400/500 V AC	kA	22.7	22.7	27.96	27.96	54.5	54.5	70.4	--	--	--	
• At 690 V AC	kA	22.7	22.7	27.96	27.96	54.5	54.5	70.4	--	--	--	
Let-through I^2t value combined with upstream fuse ⁽⁵⁾	kA ² s	427	427	1165	1165	3687	3687	7471	15400	25960	30900	
• At 400/500 V	kA ² s	348	348	1157	1157	4450	4450	10300	--	--	--	
• At 690 V	kA ² s	348	348	1157	1157	4450	4450	10300	--	--	--	
Power loss per pole with thermal current I_{th}	W	4	7	10	17	15	22	35	47	70	120	
Service life, operating cycles		10000	10000	10000	10000	8000	8000	8000	6000	6000	6000	
• Mechanical		1000	1000	1000	1000	1000	1000	1000	500	500	500	
• Electrical, at AC-23A, 690 V/50...60 Hz		1000	1000	1000	1000	1000	1000	500	500	500	500	
• Electrical, at DC-23A, 220/440 V		1000	1000	1000	1000	1000	1000	500	500	500	500	
Degree of protection		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
• With masking plate or cable connection cover		IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	
• Without masking plate or terminal cover		IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	
Ambient conditions		-25 ... +70 (no derating of I_{th} at -5 ... +55 °C)										
• Ambient temperature during operation	°C	-50 ... +80										
• Ambient temperature during storage	°C	Any										
• Mounting position ⁽⁶⁾		Any										
Main conductor connections												
Conductor cross-section, max.	mm ²	240				2 x 240			2 x 240			
Busbar systems, max. dimensions (number x width x thickness)		2 x 40 x 5										
• Flat terminals	mm	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10			
• Box terminals	mm	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10			
Tightening torque	Nm	30 ... 44				50 ... 75			50 ... 75			
• Flat terminals	Nm	30 ... 44				50 ... 75			50 ... 75			
• Box terminals	Nm	30 ... 44				50 ... 75			50 ... 75			

¹⁾ Max. permissible operating temperature at connections 125 °C

²⁾ With size 3 switch disconnectors, phase barriers or terminal covers (accessories) are required for:
- Busbar systems at AC-21A, AC-22A and $U_e > 400$ V, AC-23A and
- When cable lugs are connected

³⁾ With size 4 at AC-23A, phase barriers or terminal covers must be installed (accessories).

⁴⁾ Values are provided as a guide only and may vary depending on the make of motor

⁵⁾ Valid for the combination of 3KD and fuse type 3NA..., characteristic gG.

⁶⁾ Contact Technical Support for other mounting positions.

Switch Disconnectors

3KD Switch Disconnectors

Technical features

Technical specifications (continued)

3KD switch disconnectors, 6-pole for DC applications up to 1200 V, sizes 1 and 2

Standards	IEC 60947-1, IEC 60947-3							
	Type	3KD16	3KD22	3KD26	3KD28	3KD30	3KD32	3KD34
Size		1	1	1	2	2	2	2
General technical details								
Rated uninterrupted current I_u	A	16	32	63	80	100	125	160
Conventional free-air thermal current $I_{th}^{1)}$	A	16	32	63	80	100	125	160
Rated operational voltage U_e								
• At DC - with pollution degree 2	V	1200	1200	1200	1200	1200	1200	1200
• At DC - with pollution degree 3	V	1000	1000	1000	1000 ²⁾	1000 ²⁾	1000 ²⁾	1000 ²⁾
Rated insulation voltage U_i								
• At DC - with pollution degree 2	V	1250	1250	1250	1250	1250	1250	1250
• At DC - with pollution degree 3	V	1000	1000	1000	1000 ³⁾	1000 ³⁾	1000 ³⁾	1000 ³⁾
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8	8	8	8
Overvoltage category		III	III	III	III	III	III	III
Operating and short-circuit behavior								
Rated operational current I_e								
• At DC-21A, 1200 V	A	16	32	63	80	100	125	160
• At DC-21B, 1200 V	A	--	--	--	--	--	--	--
Rated short-time withstand current I_{cw}								
• with $t = 1$ s, rms value, 1200 V DC	kA	3	3	3	4	4	4	4
Rated short-circuit making capacity I_{cm}								
• At 1200 V DC	kA	4.3	4.3	4.3	5.7	5.7	5.7	5.7
Power loss per pole with thermal current I_{th}	W	0.2	0.6	2	2	3	4.5	7
Service life, operating cycles								
• Mechanical		15000	15000	15000	15000	15000	15000	15000
• Electrical, at DC-21, 1200 V		1500	1500	1500	1500	1500	1500	1500
Degree of protection								
• With masking plate or cable connection cover		IP20	IP20	IP20	IP20	IP20	IP20	IP20
• Without masking plate or terminal cover		IP20	IP20	IP20	IP00 ⁴⁾ /IP20			
Ambient conditions								
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +40 °C)						
• Ambient temperature during storage	°C	-50 ... +80						
• Mounting position		Any						
Main conductor connections								
Conductor cross-section, max.	mm ²	35	35	35	70	70	70	70
Busbar systems, max. dimensions (number x width x thickness)								
• Flat terminals	mm	--			1 x 20 x 3 ⁵⁾			
• Box terminals	mm	1 x 9 x 2			1 x 14 x 3			
Tightening torque								
• Flat terminals	Nm	--			15 ... 22			
• Box terminals	Nm	5 ... 6.5			6.5 ... 8			

1) Configuring note: Max. permissible operating temperature at connections 110 °C

2) Valid for version with box terminal, version with flat terminal max. 1200 V

3) Valid for version with box terminal, version with flat terminal max. 1250 V

4) Relevant only for devices with flat terminals

5) When using busbars that are 20 mm wide, these must be insulated.

Technical specifications (continued)

3KD switch disconnectors, 6-pole for DC applications up to 1200 V, sizes 3 to 5

Standards	IEC 60947-1, IEC 60947-3										
	3KD36	3KD38	3KD40	3KD42	3KD44	3KD46	3KD48	3KD50	3KD52	3KD54	
Type	3	3	3	3	4	4	4	5	5	5	
Size	3	3	3	3	4	4	4	5	5	5	
General technical details											
Rated uninterrupted current I_u	A	200	250	315	400	500	630	800	1000	1250	1600
Conventional free-air thermal current $I_{th}^{1)}$	A	200	250	315	400	500	630	800	1000	1250	1600
Rated operational voltage U_e											
• At DC - with pollution degree 2	V	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
• At DC - with pollution degree 3	V	1200	1200	1200	1200	1000	1000	1000	1200	1200	1200
Rated insulation voltage U_i											
• At DC - with pollution degree 2	V	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
• At DC - with pollution degree 3	V	1250	1250	1250	1250	1000	1000	1000	1250	1250	1250
Rated impulse withstand voltage U_{imp}	kV	12	12	12	12	12	12	12	12	12	12
Overvoltage category		IV	IV	IV	IV	IV	IV	IV	IV	IV	IV
Operating and short-circuit behavior											
Rated operational current $I_e^{2)}$											
• At DC-21A, 1200 V	A	--	--	--	--	--	--	--	--	--	--
• At DC-21B, 1200 V	A	200	250	315	400	500	630	800	1000	1250	1600
Rated short-time withstand current I_{cw}											
• with $t = 1$ s, rms value, 1200 V DC	kA	10	10	10	10	20	20	20	20	20	20
Rated short-circuit making capacity I_{cm}											
• At 1200 V DC	kA	14.2	14.2	14.2	14.2	28.4	28.4	28.4	28.4	28.4	28.4
Power loss per pole with thermal current I_{th}	W	4	7	10	17	15	22	35	47	70	120
Service life, operating cycles											
• Mechanical		10000	10000	10000	10000	8000	8000	8000	6000	6000	6000
• Electrical, at DC-21, 1200 V		200	200	200	200	100	100	100	100	100	100
Degree of protection											
• With masking plate or cable connection cover		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
• Without masking plate or terminal cover		IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00
Ambient conditions											
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +40 °C)									
• Ambient temperature during storage	°C	-50 ... +80									
• Mounting position		Any									
Main conductor connections											
Conductor cross-section, max.	mm ²	240			2 x 240			2 x 240			
Busbar systems, max. dimensions (number x width x thickness)											
• Flat terminals	mm	1 x 30 x 10			2 x 40 x 5			2 x 60 x 10			
• Box terminals	mm	--			--			--			
Tightening torque											
• Flat terminals	Nm	30 ... 44			50 ... 75			50 ... 75			
• Box terminals	Nm	--			--			--			

¹⁾ Configuring note: Max. permissible operating temperature at connections 110 °C

²⁾ For switch disconnectors size 3 and 4, phase barriers or contact connection covers (accessories) are required when connecting cable lugs

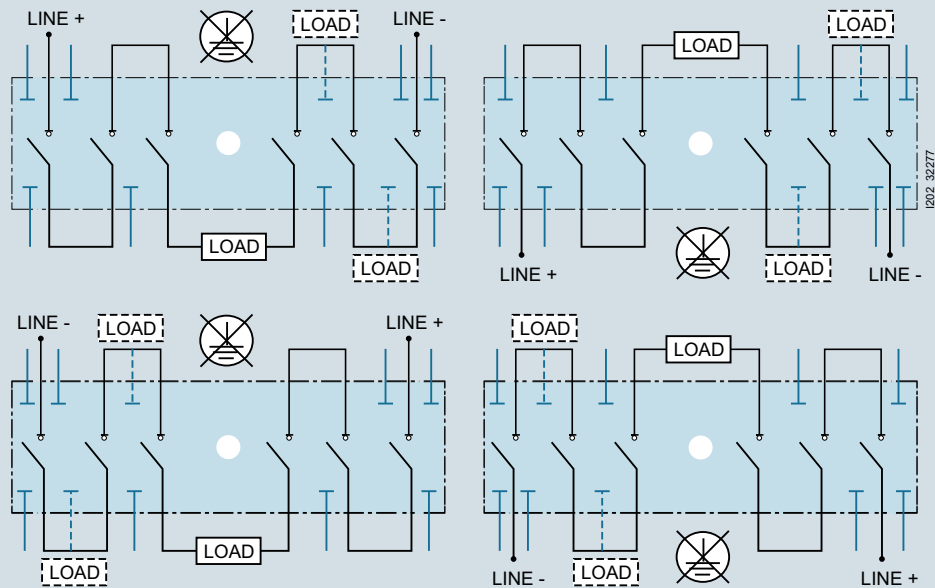
Switch Disconnectors

3KD Switch Disconnectors

Technical features


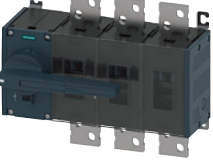

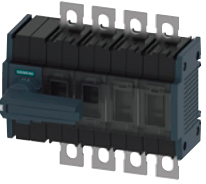


Circuit diagrams

3KD switch disconnectors, 6-pole for DC applications up to 1200 V, all sizes



Typical circuit diagrams for 3KD 6-pole for DC applications up to 1200 V, all sizes in which 3 of the 6 poles in each case are to be connected in series using the connecting bridges, [see page 7/66](#)

Selection and ordering data

	Rated uninterrupted current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
	A								kg	
Complete assemblies with direct operating mechanism gray, front operating mechanism										
The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails										
3-pole										
	Flat terminals¹⁾									
	80	2		3KD2832-0NE10-0		1	1 unit	1CL	1.092	
	100			3KD3032-0NE10-0		1	1 unit	1CL	1.088	
	125			3KD3232-0NE10-0		1	1 unit	1CL	1.086	
	160			3KD3432-0NE10-0		1	1 unit	1CL	1.086	
	200			3KD3632-0NE10-0		1	1 unit	1CL	1.086	
	3-pole, flat terminal, size 2	200	3		3KD3632-0PE10-0		1	1 unit	1CL	3.000
		250			3KD3832-0PE10-0		1	1 unit	1CL	2.980
		315			3KD4032-0PE10-0		1	1 unit	1CL	3.000
		400			3KD4232-0PE10-0		1	1 unit	1CL	3.000
	500	4		3KD4432-0QE10-0		1	1 unit	1CL	7.520	
	630			3KD4632-0QE10-0		1	1 unit	1CL	7.500	
	800			3KD4832-0QE10-0		1	1 unit	1CL	7.540	
	3-pole, flat terminal, size 5	1000	5		3KD5032-0RE10-0		1	1 unit	1CL	17.440
		1250			3KD5232-0RE10-0		1	1 unit	1CL	17.420
		1600			3KD5432-0RE10-0		1	1 unit	1CL	17.340
	Box terminals									
	16	1		3KD1632-2ME10-0		1	1 unit	1CL	0.831	
	32			3KD2232-2ME10-0		1	1 unit	1CL	0.830	
	63			3KD2632-2ME10-0		1	1 unit	1CL	0.839	
	80	2		3KD2832-2NE10-0		1	1 unit	1CL	1.206	
	100			3KD3032-2NE10-0		1	1 unit	1CL	1.205	
	125			3KD3232-2NE10-0		1	1 unit	1CL	1.208	
	3-pole, box terminal, size 2	160			3KD3432-2NE10-0		1	1 unit	1CL	1.200
	4-pole									
		Flat terminals¹⁾								
80		2		3KD2842-0NE10-0		1	1 unit	1CL	1.344	
100				3KD3042-0NE10-0		1	1 unit	1CL	1.345	
125				3KD3242-0NE10-0		1	1 unit	1CL	1.346	
160				3KD3442-0NE10-0		1	1 unit	1CL	1.348	
200				3KD3642-0NE10-0		1	1 unit	1CL	1.346	
4-pole, flat terminal, size 2		200	3		3KD3642-0PE10-0		1	1 unit	1CL	3.700
		250			3KD3842-0PE10-0		1	1 unit	1CL	3.700
		315			3KD4042-0PE10-0		1	1 unit	1CL	3.700
		400			3KD4242-0PE10-0		1	1 unit	1CL	3.700
	500	4		3KD4442-0QE10-0		1	1 unit	1CL	9.320	
	630			3KD4642-0QE10-0		1	1 unit	1CL	9.200	
	800			3KD4842-0QE10-0		1	1 unit	1CL	9.340	
	4-pole, flat terminal, size 5	1000	5		3KD5042-0RE10-0		1	1 unit	1CL	21.560
		1250			3KD5242-0RE10-0		1	1 unit	1CL	21.600
		1600			3KD5442-0RE10-0		1	1 unit	1CL	21.580
	Box terminals									
	16	1		3KD1642-2ME10-0		1	1 unit	1CL	1.001	
	32			3KD2242-2ME10-0		1	1 unit	1CL	1.005	
	63			3KD2642-2ME10-0		1	1 unit	1CL	0.999	
	80	2		3KD2842-2NE10-0		1	1 unit	1CL	1.498	
	100			3KD3042-2NE10-0		1	1 unit	1CL	1.493	
	125			3KD3242-2NE10-0		1	1 unit	1CL	1.494	
	4-pole, box terminal, size 2	160			3KD3442-2NE10-0		1	1 unit	1CL	1.498

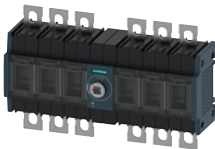

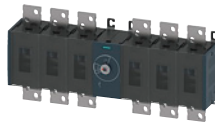

¹⁾ Cable connection covers must be provided for switch disconnectors with flat terminals and direct operating mechanisms.

Switch Disconnectors

3KD Switch Disconnectors

Basic units

Selection and ordering data


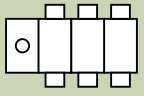
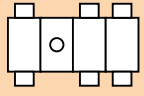

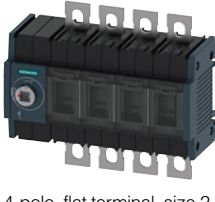
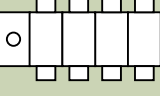
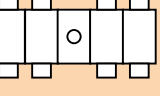

	Rated uninterrupted current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Basic units without handle, front operating mechanisms NEW									
The switch disconnectors are designed for floor mounting. Sizes 1 and 2 can optionally also be mounted on standard mounting rails.									
Up to 1200 V DC									
Flat terminals									
	80	2		3KD2860-0NE20-0		1	1 unit	1CL	1.783
	100	2		3KD3060-0NE20-0		1	1 unit	1CL	1.774
	125	2		3KD3260-0NE20-0		1	1 unit	1CL	1.777
	160	2		3KD3460-0NE20-0		1	1 unit	1CL	1.778
3KD2860-0NE20-0									
	200	3		3KD3660-0PE20-0		1	1 unit	1CL	4.839
	250	3		3KD3860-0PE20-0		1	1 unit	1CL	4.830
	315	3		3KD4060-0PE20-0		1	1 unit	1CL	4.840
	400	3		3KD4260-0PE20-0		1	1 unit	1CL	4.831
3KD3660-0PE20-0									
	500	4		3KD4460-0QE20-0		1	1 unit	1CL	12.641
	630	4		3KD4660-0QE20-0		1	1 unit	1CL	12.340
	800	4		3KD4860-0QE20-0		1	1 unit	1CL	12.540
3KD4460-0QE20-0									
	1000	5		3KD5060-0RE20-0		1	1 unit	1CL	29.700
	1250	5		3KD5260-0RE20-0		1	1 unit	1CL	29.520
	1600	5		3KD5460-0RE20-0		1	1 unit	1CL	29.560
3KD5060-0RE20-0									
Box terminals									
	16	1		3KD1660-2ME20-0		1	1 unit	1CL	1.328
	32	1		3KD2260-2ME20-0		1	1 unit	1CL	1.326
	63	1		3KD2660-2ME20-0		1	1 unit	1CL	1.332
3KD1660-2ME20-0									
	80	2		3KD2860-2NE20-0		1	1 unit	1CL	1.984
	100	2		3KD3060-2NE20-0		1	1 unit	1CL	1.982
	125	2		3KD3260-2NE20-0		1	1 unit	1CL	1.978
	160	2		3KD3460-2NE20-0		1	1 unit	1CL	1.982
3KD2860-2NE20-0									

7

Switch Disconnectors

3KD Switch Disconnectors

Basic units

Rated uninterrupted current I_u A	Size	Operating mechanism on left			Operating mechanism in center			PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
		DT	Article No. www.siemens.com/product?Article No.	Price per PU	DT	Article No. www.siemens.com/product?Article No.	Price per PU				
Basic units without handle, front operating mechanisms											
The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails											
3-pole											
Flat terminals¹⁾											
	80	2									
	100			3KD2830-0NE10-0		3KD2830-0NE20-0		1	1 unit	1CL	1.051
	125			3KD3030-0NE10-0		3KD3030-0NE20-0		1	1 unit	1CL	1.049
	160			3KD3230-0NE10-0		3KD3230-0NE20-0		1	1 unit	1CL	1.050
	200			3KD3430-0NE10-0		3KD3430-0NE20-0		1	1 unit	1CL	1.049
	200	3		3KD3630-0NE10-0		3KD3630-0NE20-0		1	1 unit	1CL	1.052
3-pole, flat terminal, size 2, operating mechan. on left	250			3KD3630-0PE10-0		3KD3630-0PE20-0		1	1 unit	1CL	2.750
	315			3KD3830-0PE10-0		3KD3830-0PE20-0		1	1 unit	1CL	2.891
	400			3KD4030-0PE10-0		3KD4030-0PE20-0		1	1 unit	1CL	2.894
	500	4		3KD4230-0PE10-0		3KD4230-0PE20-0		1	1 unit	1CL	2.894
	630			3KD4430-0QE10-0		3KD4430-0QE20-0		1	1 unit	1CL	7.360
	800			3KD4630-0QE10-0		3KD4630-0QE20-0		1	1 unit	1CL	7.422
	1000	5		3KD4830-0QE10-0		3KD4830-0QE20-0		1	1 unit	1CL	7.440
	1250			3KD5030-0RE10-0		3KD5030-0RE20-0		1	1 unit	1CL	17.120
3-pole, flat terminal, size 5, operat. mechan. in center	1600			3KD5230-0RE10-0		3KD5230-0RE20-0		1	1 unit	1CL	17.160
				3KD5430-0RE10-0		3KD5430-0RE20-0		1	1 unit	1CL	17.080
Box terminals											
	16	1		3KD1630-2ME10-0		3KD1630-2ME20-0		1	1 unit	1CL	0.783
	32			3KD2230-2ME10-0		3KD2230-2ME20-0		1	1 unit	1CL	0.782
	63			3KD2630-2ME10-0		3KD2630-2ME20-0		1	1 unit	1CL	0.778
	80	2		3KD2830-2NE10-0		3KD2830-2NE20-0		1	1 unit	1CL	1.145
	100			3KD3030-2NE10-0		3KD3030-2NE20-0		1	1 unit	1CL	1.143
	125			3KD3230-2NE10-0		3KD3230-2NE20-0		1	1 unit	1CL	1.143
3-pole, box terminal, size 2, operating mechan. on left	160			3KD3430-2NE10-0		3KD3430-2NE20-0		1	1 unit	1CL	1.128
4-pole											
Flat terminals¹⁾											
	80	2									
	100			3KD2840-0NE10-0		3KD2840-0NE20-0		1	1 unit	1CL	1.312
	125			3KD3040-0NE10-0		3KD3040-0NE20-0		1	1 unit	1CL	1.311
	160			3KD3240-0NE10-0		3KD3240-0NE20-0		1	1 unit	1CL	1.315
	200			3KD3440-0NE10-0		3KD3440-0NE20-0		1	1 unit	1CL	1.313
	200	3		3KD3640-0NE10-0		3KD3640-0NE20-0		1	1 unit	1CL	1.314
4-pole, flat terminal, size 2, operating mechan. on left	250			3KD3640-0PE10-0		3KD3640-0PE20-0		1	1 unit	1CL	3.550
	315			3KD3840-0PE10-0		3KD3840-0PE20-0		1	1 unit	1CL	3.540
	400			3KD4040-0PE10-0		3KD4040-0PE20-0		1	1 unit	1CL	3.540
	500	4		3KD4240-0PE10-0		3KD4240-0PE20-0		1	1 unit	1CL	3.548
	630			3KD4440-0QE10-0		3KD4440-0QE20-0		1	1 unit	1CL	9.162
	800			3KD4640-0QE10-0		3KD4640-0QE20-0		1	1 unit	1CL	9.220
	1000	5		3KD4840-0QE10-0		3KD4840-0QE20-0		1	1 unit	1CL	9.201
4-pole, flat terminal, size 5, operat. mechan. in center	1250			3KD5040-0RE10-0		3KD5040-0RE20-0		1	1 unit	1CL	21.300
	1600			3KD5240-0RE10-0		3KD5240-0RE20-0		1	1 unit	1CL	21.400
				3KD5440-0RE10-0		3KD5440-0RE20-0		1	1 unit	1CL	21.340
Box terminals											
	16	1		3KD1640-2ME10-0		3KD1640-2ME20-0		1	1 unit	1CL	0.981
	32			3KD2240-2ME10-0		3KD2240-2ME20-0		1	1 unit	1CL	0.954
	63			3KD2640-2ME10-0		3KD2640-2ME20-0		1	1 unit	1CL	0.954
	80	2		3KD2840-2NE10-0		3KD2840-2NE20-0		1	1 unit	1CL	1.430
	100			3KD3040-2NE10-0		3KD3040-2NE20-0		1	1 unit	1CL	1.434
	125			3KD3240-2NE10-0		3KD3240-2NE20-0		1	1 unit	1CL	1.434
4-pole, box terminal, size 2, operating mechan. on left	160			3KD3440-2NE10-0		3KD3440-2NE20-0		1	1 unit	1CL	1.431

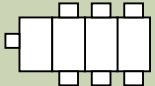
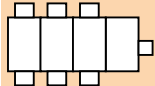

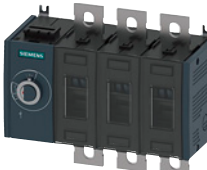

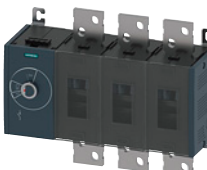


1) Phase barriers for size 2 included in scope of supply

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3KD Switch Disconnectors

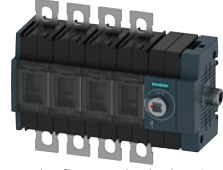
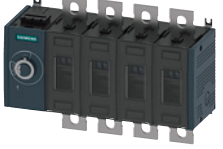

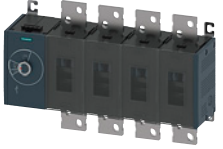


Basic units

		Operating mechanism on left NEW			Operating mechanism on right							
Rated un- interrupted current I_u A	Size	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
Basic units without handle, side operating mechanisms												
The switch disconnectors with side operating mechanism are suitable for door-coupling rotary operating mechanisms.												
3-pole												
Flat terminals												
												
	80	2	3KD2834-0NE10-0		3KD2834-0NE40-0			1	1 unit	1CL	1.139	
	100	2	3KD3034-0NE10-0		3KD3034-0NE40-0			1	1 unit	1CL	1.136	
	125	2	3KD3234-0NE10-0		3KD3234-0NE40-0			1	1 unit	1CL	1.138	
	160	2	3KD3434-0NE10-0		3KD3434-0NE40-0			1	1 unit	1CL	1.137	
	200	2	3KD3634-0NE10-0		3KD3634-0NE40-0			1	1 unit	1CL	1.135	
	200	3	3KD3634-0PE10-0		3KD3634-0PE40-0			1	1 unit	1CL	2.964	
	250	3	3KD3834-0PE10-0		3KD3834-0PE40-0			1	1 unit	1CL	2.968	
	315	3	3KD4034-0PE10-0		3KD4034-0PE40-0			1	1 unit	1CL	2.977	
	400	3	3KD4234-0PE10-0		3KD4234-0PE40-0			1	1 unit	1CL	2.958	
	500	4	3KD4434-0QE10-0		3KD4434-0QE40-0			1	1 unit	1CL	7.516	
	630	4	3KD4634-0QE10-0		3KD4634-0QE40-0			1	1 unit	1CL	7.620	
	800	4	3KD4834-0QE10-0		3KD4834-0QE40-0			1	1 unit	1CL	6.500	
	1000	5	3KD5034-0RE10-0		3KD5034-0RE40-0			1	1 unit	1CL	17.240	
	1250	5	3KD5234-0RE10-0		3KD5234-0RE40-0			1	1 unit	1CL	17.500	
	1600	5	3KD5434-0RE10-0		3KD5434-0RE40-0			1	1 unit	1CL	17.300	
	16	1	3KD1634-2ME10-0		3KD1634-2ME40-0			1	1 unit	1CL	0.897	
	32	1	3KD2234-2ME10-0		3KD2234-2ME40-0			1	1 unit	1CL	0.897	
	63	1	3KD2634-2ME10-0		3KD2634-2ME40-0			1	1 unit	1CL	0.897	
	80	2	3KD2834-2NE10-0		3KD2834-2NE40-0			1	1 unit	1CL	1.242	
	100	2	3KD3034-2NE10-0		3KD3034-2NE40-0			1	1 unit	1CL	1.243	
	125	2	3KD3234-2NE10-0		3KD3234-2NE40-0			1	1 unit	1CL	1.243	
	160	2	3KD3434-2NE10-0		3KD3434-2NE40-0			1	1 unit	1CL	1.238	

Switch Disconnectors

3KD Switch Disconnectors

Basic units

Rated un- interrupted current I_u A	Size	Operating mechanism on left NEW		Operating mechanism on right		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	DT				
Basic units without handle, side operating mechanism (continued)									
The switch disconnectors with side operating mechanism are suitable for door-coupling rotary operating mechanisms.									
4-pole									
Flat terminals									
	80	2	3KD2844-0NE10-0		3KD2844-0NE40-0	1	1 unit	1CL	1.349
	100	2	3KD3044-0NE10-0		3KD3044-0NE40-0	1	1 unit	1CL	1.354
	125	2	3KD3244-0NE10-0		3KD3244-0NE40-0	1	1 unit	1CL	1.350
	160	2	3KD3444-0NE10-0		3KD3444-0NE40-0	1	1 unit	1CL	1.353
	200	2	3KD3644-0NE10-0		3KD3644-0NE40-0	1	1 unit	1CL	1.353
4-pole, flat terminal, size 2, operating mechan. on right									
	200	3	3KD3644-0PE10-0		3KD3644-0PE40-0	1	1 unit	1CL	3.616
	250	3	3KD3844-0PE10-0		3KD3844-0PE40-0	1	1 unit	1CL	3.623
	315	3	3KD4044-0PE10-0		3KD4044-0PE40-0	1	1 unit	1CL	3.639
	400	3	3KD4244-0PE10-0		3KD4244-0PE40-0	1	1 unit	1CL	3.602
4-pole, flat terminal, size 3, operating mechanism on left									
	500	4	3KD4444-0QE10-0		3KD4444-0QE40-0	1	1 unit	1CL	9.283
	630	4	3KD4644-0QE10-0		3KD4644-0QE40-0	1	1 unit	1CL	9.260
	800	4	3KD4844-0QE10-0		3KD4844-0QE40-0	1	1 unit	1CL	7.240
4-pole, flat terminal, size 4, operating mechan. on right									
	1000	5	3KD5044-0RE10-0		3KD5044-0RE40-0	1	1 unit	1CL	21.560
	1250	5	3KD5244-0RE10-0		3KD5244-0RE40-0	1	1 unit	1CL	21.500
	1600	5	3KD5444-0RE10-0		3KD5444-0RE40-0	1	1 unit	1CL	21.320
4-pole, flat terminal, size 5, operating mechanism on left									
Box terminals									
	16	1	3KD1644-2ME10-0		3KD1644-2ME40-0	1	1 unit	1CL	1.046
	32	1	3KD2244-2ME10-0		3KD2244-2ME40-0	1	1 unit	1CL	1.047
	63	1	3KD2644-2ME10-0		3KD2644-2ME40-0	1	1 unit	1CL	1.047
4-pole, box terminal, size 1, operating mechan. on right									
	80	2	3KD2844-2NE10-0		3KD2844-2NE40-0	1	1 unit	1CL	1.503
	100	2	3KD3044-2NE10-0		3KD3044-2NE40-0	1	1 unit	1CL	1.504
	125	2	3KD3244-2NE10-0		3KD3244-2NE40-0	1	1 unit	1CL	1.501
	160	2	3KD3444-2NE10-0		3KD3444-2NE40-0	1	1 unit	1CL	1.501
4-pole, box terminal, size 2, operating mechanism on left									

Switch Disconnectors

3KD Switch Disconnectors

Accessories and spare parts

Selection and ordering data

Additional poles

	Version	Circuit symbol	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		mm							
	4th contact element (switching pole)								
	Flat terminals For size 2; 3KD...-.N For size 3; 3KD...-.P For size 4; 3KD...-.Q For size 5; 3KD...-.R	--		3KD9205-0 3KD9305-0 3KD9405-0 3KD9505-0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL	0.338 0.914 1.949 5.130
4th contact element, flat terminal, for size 2									
	Box terminals For size 1; 3KD...-.M For size 2; 3KD...-.N			3KD9105-2 3KD9205-2		1 1	1 unit 1 unit	1CL 1CL	0.269 0.380
4th contact element, box terminal, for size 2									
	Neutral conductor terminals with removable jumper								
	Flat terminals For size 2; 3KD...-.N For size 3; 3KD...-.P For size 4; 3KD...-.Q For size 5; 3KD...-.R			3KD9206-0 3KD9306-0 3KD9406-0 3KD9506-0		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL	0.298 0.800 1.564 4.526
Neutral conductor terminal, flat terminal, for size 2									
	Box terminals For size 1; 3KD...-.M For size 2; 3KD...-.N			3KD9106-2 3KD9206-2		1 1	1 unit 1 unit	1CL 1CL	0.255 0.348
Neutral conductor terminal, box terminal, for size 2									
	N/PE terminals with permanent jumper								
	Flat terminals For size 2; 3KD...-.N For size 3; 3KD...-.P For size 4; 3KD...-.Q For size 5; 3KD...-.R			3KD9206-7 3KD9306-7 3KD9406-7 3KD9506-7		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL	0.299 0.731 1.456 4.143
N/PE terminal, flat terminal, for size 2									
	Box terminals For size 1; 3KD...-.M For size 2; 3KD...-.N			3KD9106-8 3KD9206-8		1 1	1 unit 1 unit	1CL 1CL	0.249 0.330
N/PE terminal, box terminal, for size 2									

Direct operating mechanisms

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
kg							
Direct operating mechanisms in standard version and flat version							
Standard version							
Can be locked with up to max. 3 padlocks, requires additional mounting depth in locked state							
Gray							
 <p>Direct operating mechanism, gray, for size 2</p>		For size 1; 3KD...-M	3KD9101-1	1	1 unit	1CL	0.129
		For size 2; 3KD...-N	3KD9201-1	1	1 unit	1CL	0.141
		For size 3; 3KD...-P	3KD9301-1	1	1 unit	1CL	0.220
		For size 4; 3KD...-Q	3KD9401-1	1	1 unit	1CL	0.565
		For size 5; 3KD...-R	3KD9501-1	1	1 unit	1CL	0.842
Red/Yellow							
 <p>Direct operating mechanism, red/yellow, for size 2</p>		For size 1; 3KD...-M	3KD9101-2	1	1 unit	1CL	0.140
		For size 2; 3KD...-N	3KD9201-2	1	1 unit	1CL	0.155
		For size 3; 3KD...-P	3KD9301-2	1	1 unit	1CL	0.230
		For size 4; 3KD...-Q	3KD9401-2	1	1 unit	1CL	0.574
		For size 5; 3KD...-R	3KD9501-2	1	1 unit	1CL	0.820
Flat version (suitable for distribution boards)							
Can be locked with one padlock, requires no additional mounting depth in locked state							
Gray							
 <p>Direct operating mechanism, flat version, gray, for size 2</p>		For size 1; 3KD...-M	3KD9101-0	1	1 unit	1CL	0.129
		For size 2; 3KD...-N	3KD9201-0	1	1 unit	1CL	0.140
Red/Yellow							
 <p>Direct operating mechanism, flat version, red/yellow, for size 2</p>		For size 1; 3KD...-M	3KD9101-8	1	1 unit	1CL	0.130
		For size 2; 3KD...-N	3KD9201-8	1	1 unit	1CL	0.154

Switch Disconnectors

3KD Switch Disconnectors


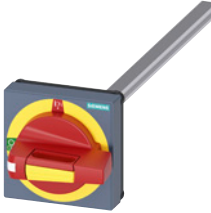

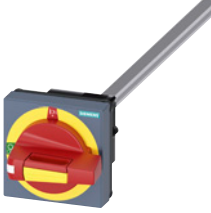
Accessories and spare parts

Door-coupling rotary operating mechanisms

Note

For 3KD switch disconnectors with side operating mechanism (left or right), only door-coupling rotary operating mechanisms without "Test" can be used.





If door-coupling rotary operating mechanisms without "Test" are used on 3KD, the test function must be mechanically blocked on the switch. The blocking pin required for this is included in the scope of supply of the 3KD.

Version	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg
Door-coupling rotary operating mechanisms, complete, 8UD1 series NEW									
Door-coupling rotary operating mechanism, complete, labeling 0 - I									
<ul style="list-style-type: none"> • Handle with masking plate • Coupling driver without tolerance compensation • Shaft 300 mm • Labeling 0 - I 									
Gray									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AD11		1	1 unit	1CL	0.458
Red/Yellow									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AD15		1	1 unit	1CL	0.456
Door-coupling rotary operating mechanism, complete, labeling Test - 0 - I									
<ul style="list-style-type: none"> • Handle with masking plate • Mounting tolerance compensation • Shaft 300 mm • Labeling Test - 0 - I 									
Gray									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AF21		1	1 unit	1CL	0.510
	For size 3; 3KD....-P	100	8 x 8	8UD1141-2AF21		1	1 unit	1CL	0.852
	For size 4; 3KD....-Q	140	10 x 10	8UD1151-3AF21		1	1 unit	1CL	0.956
	For size 5; 3KD....-R	200	12 x 12	8UD1161-4AF21		1	1 unit	1CL	1.100
Red/Yellow									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AF25		1	1 unit	1CL	0.511
	For size 3; 3KD....-P	100	8 x 8	8UD1141-2AF25		1	1 unit	1CL	0.853
	For size 4; 3KD....-Q	140	10 x 10	8UD1151-3AF25		1	1 unit	1CL	0.958
	For size 5; 3KD....-R	200	12 x 12	8UD1161-4AF25		1	1 unit	1CL	1.101

Switch Disconnectors

3KD Switch Disconnectors




Accessories and spare parts

Version	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg
Handles for door-coupling rotary operating mechanisms, 8UD1 series NEW									
Handles without extension shaft and coupling driver, labeling 0 - I									
<ul style="list-style-type: none"> • With masking plate • Labeling 0 - I 									
Gray									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AD01		1	1 unit	1CL	0.165
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2AD01		1	1 unit	1CL	0.637
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3AD01		1	1 unit	1CL	0.654
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4AD01		1	1 unit	1CL	0.690
Red/Yellow									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AD05		1	1 unit	1CL	0.165
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2AD05		1	1 unit	1CL	0.640
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3AD05		1	1 unit	1CL	0.657
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4AD05		1	1 unit	1CL	0.693
Handles without extension shaft and coupling driver, labeling Test - 0 - I									
<ul style="list-style-type: none"> • With masking plate • Labeling Test - 0 - I 									
Gray									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AF01		1	1 unit	1CL	0.165
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2AF01		1	1 unit	1CL	0.637
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3AF01		1	1 unit	1CL	0.654
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4AF01		1	1 unit	1CL	0.690
Red/Yellow									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AF05		1	1 unit	1CL	0.165
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2AF05		1	1 unit	1CL	0.636
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3AF05		1	1 unit	1CL	0.654
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4AF05		1	1 unit	1CL	0.692

Switch Disconnectors

3KD Switch Disconnectors

Accessories and spare parts

Version	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg
Handles, illuminated, without extension shaft and coupling driver, labeling 0 - I <ul style="list-style-type: none"> • With masking plate • Illuminated • Labeling 0 - I 									
Gray									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2CD01		1	1 unit	1CL	0.131
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2CD01		1	1 unit	1CL	0.645
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3CD01		1	1 unit	1CL	0.664
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4CD01		1	1 unit	1CL	0.697
Red/Yellow									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2CD05		1	1 unit	1CL	0.131
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2CD05		1	1 unit	1CL	0.642
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3CD05		1	1 unit	1CL	0.665
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4CD05		1	1 unit	1CL	0.704
Handles, illuminated, without extension shaft and coupling driver, labeling Test - 0 - I <ul style="list-style-type: none"> • With masking plate • Illuminated • Labeling Test - 0 - I 									
Gray									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2CF01		1	1 unit	1CL	0.131
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2CF01		1	1 unit	1CL	0.645
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3CF01		1	1 unit	1CL	0.662
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4CF01		1	1 unit	1CL	0.698
Red/Yellow									
	For size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2CF05		1	1 unit	1CL	0.131
	For size 3; 3KD....-P	100	8 x 8	8UD1841-2CF05		1	1 unit	1CL	0.644
	For size 4; 3KD....-Q	140	10 x 10	8UD1851-3CF05		1	1 unit	1CL	0.659
	For size 5; 3KD....-R	200	12 x 12	8UD1861-4CF05		1	1 unit	1CL	0.699

Handle without extension shaft, gray, for sizes 1/2

Handle without extension shaft, red/yellow, for sizes 1/2



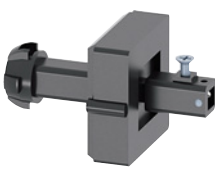
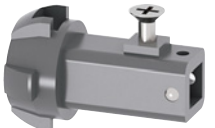
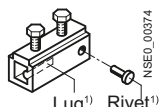
Handle without extension shaft, gray, for sizes 1/2

Handle without extension shaft, red/yellow, for sizes 1/2

Switch Disconnectors

3KD Switch Disconnectors





Accessories and spare parts

Version	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg
Other accessories for door-coupling rotary operating mechanisms, 8UD1 series									
Extension shafts									
300 mm long									
	For size 1/2/3, 3KD....-M/N/P	--	8 x 8	8UC6032		1	1 unit	1CL	0.135
	For size 4; 3KD....-Q	--	10 x 10	8UC6033		1	1 unit	1CL	0.215
	For size 5; 3KD....-R	--	12 x 12	8UC6034		1	1 unit	1CL	0.316
8UC6032									
600 mm long									
	For size 1/2/3, 3KD....-M/N/P	--	8 x 8	8UC6082		1	1 unit	1CL	0.265
	For size 4; 3KD....-Q	--	10 x 10	8UC6083		1	1 unit	1CL	0.424
	For size 5; 3KD....-R	--	12 x 12	8UC6084		1	1 unit	1CL	0.628
8UC6082									
Coupling drivers with tolerance compensation NEW									
	For size 1/2, 3KD....-M/N	--	8 x 8	8UD1900-2GA00		1	1 unit	1CB	0.061
	For size 3; 3KD....-P	--	8 x 8	8UD1900-6GA00		1	1 unit	1CL	0.329
	For size 4; 3KD....-Q	--	10 x 10	8UD1900-3GA00		1	1 unit	1CL	0.334
	For size 5; 3KD....-R	--	12 x 12	8UD1900-4GA00		1	1 unit	1CL	0.341
8UD1900-2GA00									
Coupling drivers without tolerance compensation NEW									
	For size 1/2, 3KD....-M/N	--	8 x 8	8UD1900-2HA00		1	1 unit	1CB	0.015
	For size 3; 3KD....-P	--	8 x 8	8UD1900-6HA00		1	1 unit	1CL	0.083
	For size 4; 3KD....-Q	--	10 x 10	8UD1900-3HA00		1	1 unit	1CL	0.090
	For size 5; 3KD....-R	--	12 x 12	8UD1900-4HA00		1	1 unit	1CL	0.097
8UD1900-2HA00									
Shaft couplings									
	For size 1/2/3, 3KD....-M/N/P	--	8 x 8	8UC6022		1	1 unit	1CL	0.022
	For size 4; 3KD....-Q	--	10 x 10	8UC6023		1	1 unit	1CL	0.084
	For size 5; 3KD....-R	--	12 x 12	8UC6024		1	1 unit	1CL	0.078
8UC6021 to 8UC6024									
	1) Non-interchangeability features								

Switch Disconnectors

3KD Switch Disconnectors

Accessories and spare parts

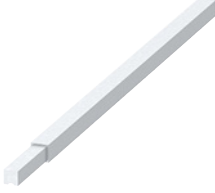

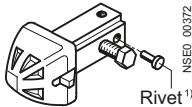
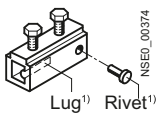
	Version	Shaft size handle end ¹⁾	Shaft size switch end ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Door-coupling rotary operating mechanisms, 8UC/3KD9 series										
Door-coupling rotary operating mechanisms including 300 mm extension shaft and coupling driver										
Lockable with up to 5 padlocks. Degree of protection when installed is IP65.										
Gray										
	For size 1; 3KD...-M	8 x 8	8 x 8		3KD9115-1		1	1 unit	1CL	0.393
	For size 2; 3KD...-N	8 x 8	8 x 8		3KD9215-1		1	1 unit	1CL	0.402
	For size 3; 3KD...-P	10 x 10	8 x 8		3KD9315-1		1	1 unit	1CL	1.000
	For size 4; 3KD...-Q	10 x 10	10 x 10		3KD9415-1		1	1 unit	1CL	1.021
	For size 5; 3KD...-R	12 x 12	12 x 12		3KD9515-1		1	1 unit	1CL	1.128
Red/Yellow										
	For size 1; 3KD...-M	8 x 8	8 x 8		3KD9115-2		1	1 unit	1CL	0.373
	For size 2; 3KD...-N	8 x 8	8 x 8		3KD9215-2		1	1 unit	1CL	0.380
	For size 3; 3KD...-P	10 x 10	8 x 8		3KD9315-2		1	1 unit	1CL	0.997
	For size 4; 3KD...-Q	10 x 10	10 x 10		3KD9415-2		1	1 unit	1CL	0.999
	For size 5; 3KD...-R	12 x 12	12 x 12		3KD9515-2		1	1 unit	1CL	1.138
Handles for door-coupling rotary operating mechanisms, 8UC/3KD9 series										
Handles without extension shaft and coupling driver										
Gray										
	For size 1; 3KD...-M	8 x 8	--		3KD9115-3		1	1 unit	1CL	0.183
	For size 2; 3KD...-N	8 x 8	--		3KD9215-3		1	1 unit	1CL	0.191
	For size 3; 3KD...-P	10 x 10	--		3KD9315-3		1	1 unit	1CL	0.472
	For size 4; 3KD...-Q	10 x 10	--		3KD9415-3		1	1 unit	1CL	0.490
	For size 5; 3KD...-R	12 x 12	--		3KD9515-3		1	1 unit	1CL	0.529
Red/Yellow										
	For size 1; 3KD...-M	8 x 8	--		3KD9115-4		1	1 unit	1CL	0.182
	For size 2; 3KD...-N	8 x 8	--		3KD9215-4		1	1 unit	1CL	0.191
	For size 3; 3KD...-P	10 x 10	--		3KD9315-4		1	1 unit	1CL	0.495
	For size 4; 3KD...-Q	10 x 10	--		3KD9415-4		1	1 unit	1CL	0.485
	For size 5; 3KD...-R	12 x 12	--		3KD9515-4		1	1 unit	1CL	0.522

¹⁾ With different shaft sizes – at the handle/at the switch – the shaft cross-section changes over the length of the shaft (does not apply to sizes 1 and 2)



Switch Disconnectors

3KD Switch Disconnectors

Accessories and spare parts

Version	Shaft size handle end ²⁾	Shaft size switch end ²⁾	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm x mm	mm x mm							kg
Other accessories for door-coupling rotary operating mechanisms, 8UC/3KD9 series									
Extension shafts									
300 mm long									
	For sizes 1/2	8 x 8	8 x 8	8UC6032		1	1 unit	1CL	0.135
	For size 3; 3KD....-P	10 x 10	8 x 8	3KD9302-0		1	1 unit	1CL	0.206
	For size 4; 3KD....-Q	10 x 10	10 x 10	8UC6033		1	1 unit	1CL	0.215
	For size 5; 3KD....-R	12 x 12	12 x 12	8UC6034		1	1 unit	1CL	0.316
600 mm long									
	For sizes 1/2	8 x 8	8 x 8	8UC6082		1	1 unit	1CL	0.265
	For size 3; 3KD....-P	10 x 10	8 x 8	3KD9302-1		1	1 unit	1CL	0.420
	For size 4; 3KD....-Q	10 x 10	10 x 10	8UC6083		1	1 unit	1CL	0.424
	For size 5; 3KD....-R	12 x 12	12 x 12	8UC6084		1	1 unit	1CL	0.628
Coupling drivers									
	For 8 x 8 mm shafts			8UC6017-2AA		1	1 unit	1CL	0.047
	For 10 x 10 mm shafts			8UC6013		1	1 unit	1CL	0.236
	For 12 x 12 mm shafts			8UC6014		1	1 unit	1CL	0.234
Shaft couplings									
	For 8 x 8 mm shafts			8UC6022		1	1 unit	1CL	0.022
	For 10 x 10 mm shafts			8UC6023		1	1 unit	1CL	0.084
	For 12 x 12 mm shafts			8UC6024		1	1 unit	1CL	0.078
Adapter ¹⁾ Non-interchangeability features ²⁾ With different shaft sizes – at the handle/at the switch – the shaft cross-section changes over the length of the shaft (does not apply to sizes 1 and 2)									

Auxiliary switches

Version	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							kg
Auxiliary switch modules for sizes 1 and 2							
Unit is supplied without auxiliary switches, a maximum of 2 auxiliary switches can be installed.							
		3KD9103-5		1	1 unit	1CL	0.154
		3KD9103-6		1	1 unit	1CL	0.158
		3KD9103-7		1	1 unit	1CL	0.160
Auxiliary switches for sizes 1 and 2							
With soldered-on 50 cm connecting cables							
		3KD9103-1		1	1 unit	1CL	0.112
		3KD9103-3		1	1 unit	1CL	0.110
¹⁾ Has to be mounted directly at the operating mechanism							


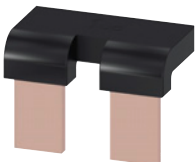

Switch Disconnectors

3KD Switch Disconnectors


Accessories and spare parts

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary switches for sizes 3 to 5							
Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal 3SB3403-.. from the 3SB3 program can also be used							
 3SB3400-0B auxiliary switch	▶	• 1 NO	▶	3SB3400-0B	1	1 unit	41J 0.012
		• 1 NO with gold-plated contacts	▶	3SB3400-0BA	1	1 unit	41J 0.011
 3SB3400-0A auxiliary switch	▶	• 1 NC	▶	3SB3400-0C	1	1 unit	41J 0.012
		• 1 NC with gold-plated contacts	▶	3SB3400-0CA	1	1 unit	41J 0.011
		• 1 NO + 1 NC	▶	3SB3400-0A	1	1 unit	41J 0.016
		• 1 NO + 1 NC with gold-plated contacts	▶	3SB3400-0AA	1	1 unit	41J 0.016
		• 2 NO	▶	3SB3400-0D	1	1 unit	41J 0.017
		• 2 NO with gold-plated contacts	▶	3SB3400-0DA	1	1 unit	41J 0.017
		• 2 NC		3SB3400-0E	1	1 unit	41J 0.017
		• 2 NC with gold-plated contacts		3SB3400-0EA	1	1 unit	41J 0.017

Accessories for DC applications **NEW**

Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connecting bridges								
For connecting two poles								
 Flat terminals	Flat terminals							
	2; 3KD....-N		3KD9218-0	1	1 unit	1CL	0.108	
	For 400 A two units are required	3; 3KD....-P	3KD9318-0	1	1 unit	1CL	0.159	
	For 800 A two units are required	4; 3KD....-Q	3KD9418-0	1	1 unit	1CL	0.780	
 Box terminals	Box terminals							
	For 1250 A and 1600 A two units are required	5; 3KD....-R	3KD9518-0	1	1 unit	1CL	1.897	
	1; 3KD....-M		3KD9118-1	1	1 unit	1CL	0.102	
	2; 3KD....-N		3KD9218-1	1	1 unit	1CL	0.128	
Cable connection covers for connecting bridges								
As touch protection for flat terminals								
 Cable connection covers	2; 3KD....-N		3KD9204-0	1	1 unit	1CL	0.108	
	3; 3KD....-P		3KD9304-0	1	1 unit	1CL	0.304	
	4; 3KD....-Q		3KD9404-0	1	1 unit	1CL	0.122	
	5; 3KD....-R		3KD9504-0	1	1 unit	1CL	1.022	





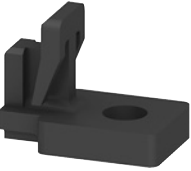
Other accessories

Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Phase barriers								
For 3KD with flat terminals								
 Phase barrier for size 2 devices with 3 or 4 poles	For 3-pole devices (6 units)							
	2; 3KD....-N		3KD9108-6	1	1 unit	1CL	0.126	
	3; 3KD....-P		3KD9308-6	1	1 unit	1CL	0.169	
	4; 3KD....-Q		3KD9408-6	1	1 unit	1CL	0.203	
	5; 3KD....-R		3KD9508-6	1	1 unit	1CL	0.480	
For 4-pole devices (8 units)								
2; 3KD....-N		3KD9108-8	1	1 unit	1CL	0.151		
3; 3KD....-P		3KD9308-8	1	1 unit	1CL	0.194		
4; 3KD....-Q		3KD9408-8	1	1 unit	1CL	0.244		
5; 3KD....-R		3KD9508-8	1	1 unit	1CL	0.540		

Switch Disconnectors

3KD Switch Disconnectors

Accessories and spare parts

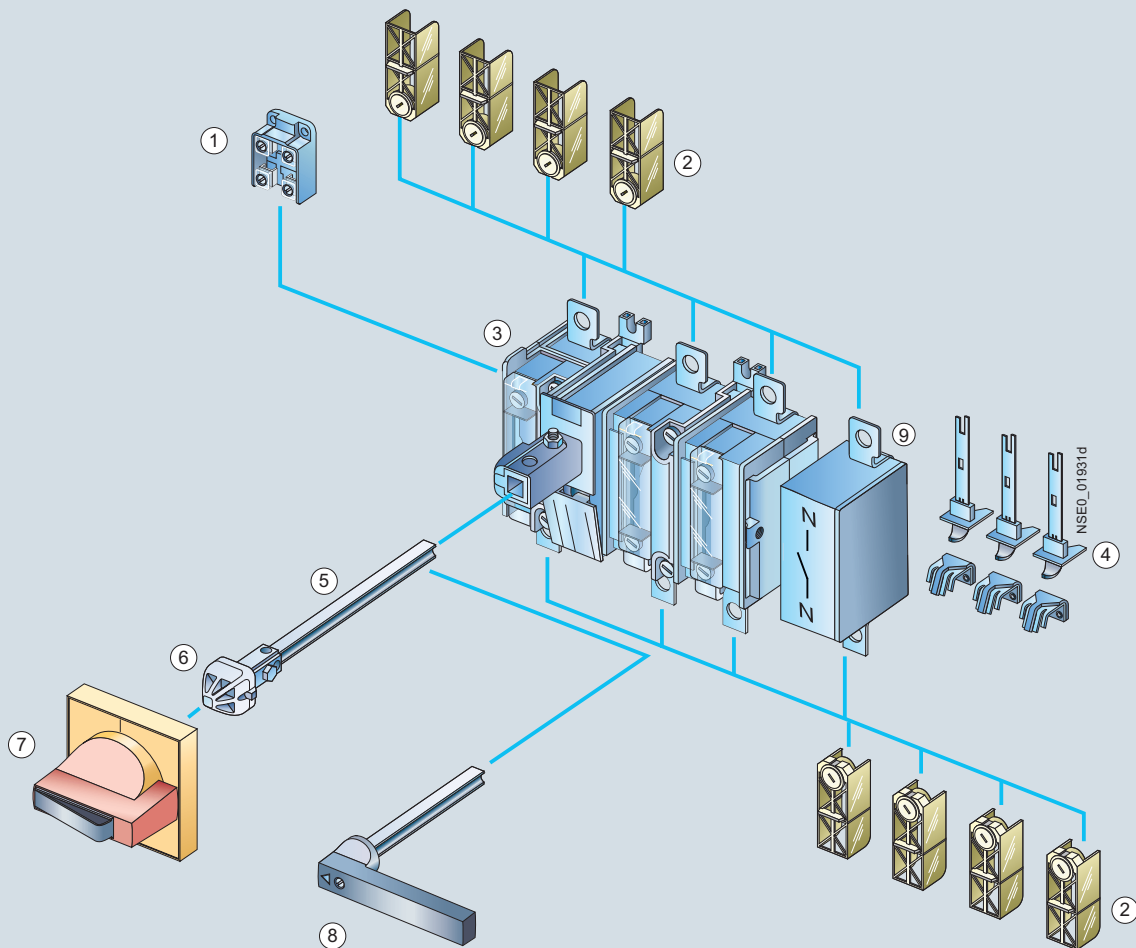
Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Cable connection covers								
For 3KD with flat terminals								
For 3-pole devices (6 units)								
Standard length								
	2; 3KD...-N		3KD9204-6		1	1 unit	1CL	0.396
	3; 3KD...-P		3KD9304-6		1	1 unit	1CL	0.560
	4; 3KD...-Q		3KD9404-6		1	1 unit	1CL	1.355
	5; 3KD...-R		3KD9504-6		1	1 unit	1CL	1.746
Short version								
	2; 3KD...-N		3KD9204-7		1	1 unit	1CL	0.347
	3; 3KD...-P		3KD9304-7		1	1 unit	1CL	0.404
	4; 3KD...-Q		3KD9404-7		1	1 unit	1CL	0.600
For 4-pole devices (8 units)								
Standard length								
	2; 3KD...-N		3KD9204-8		1	1 unit	1CL	0.473
	3; 3KD...-P		3KD9304-8		1	1 unit	1CL	0.616
	4; 3KD...-Q		3KD9404-8		1	1 unit	1CL	1.664
	5; 3KD...-R		3KD9504-8		1	1 unit	1CL	2.088
Short version								
	2; 3KD...-N		3KD9204-5		1	1 unit	1CL	0.378
	3; 3KD...-P		3KD9304-5		1	1 unit	1CL	0.502
	4; 3KD...-Q		3KD9404-5		1	1 unit	1CL	0.846
Spare cable connection cover (1 unit)								
Standard length								
	5; 3KD...-R		3KD9504-1		1	1 unit	1CL	0.434
Short version								
	2; 3KD...-N		3KD9204-1		1	1 unit	1CL	0.105
	3; 3KD...-P		3KD9304-1		1	1 unit	1CL	0.110
	4; 3KD...-Q		3KD9404-1		1	1 unit	1CL	0.126
Mounting brackets (4 units)								
Spare part, is included in the scope of supply of the 3KD.								
Mounting brackets								
	1 and 2		3KD9120-1		1	1 unit	1CL	0.091

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Introduction

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 Coupling driver
- ⑦ 8UC7 door-coupling rotary operating mechanism in standard version (ti-grey) or EMERGENCY-STOP version (red/yellow).
- ⑧ 8UC9 handle for fixed mounting in standard version (black) or EMERGENCY-STOP version (red).
- ⑨ 4th pole (optional, only for 3KA)

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 two switch disconnectors of the 3KE series as load changeover switches.

A switch coupling 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 control, 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 making and breaking 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.

Technical specifications

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 withstand voltage U_{imp}	kV	6	6	8	8	8	8	8
Rated operational voltage U_e								
50/60 Hz AC	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 50/60 Hz 690 V AC, peak value								
Rated conditional short-circuit current with upstream fuses⁴⁾	kA	100	100	100	100	80	80	50
At 50/60 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 50/60 Hz 690 V AC, peak value								
Rated short-circuit making capacity without fuses	kA	7	7	7	9	20	25	35
At AC 50 Hz/60 Hz 690 V, peak value								
Breaking capacity (inferred 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_o 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_o 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_o 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 ⁸⁾	1600	1600
• Rated operational current I_o for 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		15 000	15 000	15 000	15 000	12 000	12 000	12 000
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	M	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 available with fuses 3NA38, 3NA32 or 3ND18, 3ND12 (otherwise only 105 kA/50 kA).

5) 3ND1 switching device 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

3KA, 3KE Switch Disconnectors up to 1000 A

Introduction

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	1000 AC, 1200 DC			
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8
Rated operational voltage U_e					
50/60 Hz AC	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 50/60 Hz 690 V AC, peak value	kA	35	35	60	60
Rated short-circuit making capacity with upstream fuses At 50/60 Hz 690 V AC, peak value	kA	105	105	105	84
Rated conditional short-circuit current with upstream fuses Rms value at 50/60 Hz 690 V AC	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 50/60 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
Breaking 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_o 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_o 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_o 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_o 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		10 000			
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

Application




3KA switch disconnectors are implemented as main control 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 three-phase motors and other loads in the event of maintenance and repair.

Main control 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

The conductor connecting screws are included in the scope of supply

	Rated uninterrupted current I_U A	DT	Article No. www.siemens.com/ product?Article 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		3KA5030-1GE01		1	1 unit	1CL	1.372
	80		3KA5130-1GE01		1	1 unit	1CL	1.365
	125		3KA5230-1GE01		1	1 unit	1CL	2.217
	160		3KA5330-1GE01		1	1 unit	1CL	2.398
	250		3KA5530-1GE01		1	1 unit	1CL	5.387
	400		3KA5730-1GE01		1	1 unit	1CL	10.284
	630		3KA5830-1GE01		1	1 unit	1CL	6.065
4-pole¹⁾ for power distribution								
	63		3KA5040-1GE01		1	1 unit	1CL	2.449
	80		3KA5140-1GE01		1	1 unit	1CL	2.474
	125		3KA5240-1GE01		1	1 unit	1CL	2.455
	160		3KA5340-1GE01		1	1 unit	1CL	2.601
	250		3KA5540-1GE01		1	1 unit	1CL	5.979
	400		3KA5740-1GE01		1	1 unit	1CL	6.070
	630		3KA5840-1GE01		1	1 unit	1CL	6.570
Basic switch versions without handle								
3-pole for motor loads and for power distribution								
 3KA5330-1AE01	63		3KA5030-1AE01		1	1 unit	1CL	0.905
	80		3KA5130-1AE01		1	1 unit	1CL	0.880
	125		3KA5230-1AE01		1	1 unit	1CL	1.874
	160		3KA5330-1AE01		1	1 unit	1CL	1.997
	250		3KA5530-1AE01		1	1 unit	1CL	4.450
	400		3KA5730-1AE01		1	1 unit	1CL	4.582
630		3KA5830-1AE01		1	1 unit	1CL	5.096	
4-pole¹⁾ for power distribution								
 3KA5340-1AE01	63		3KA5040-1AE01		1	1 unit	1CL	2.080
	80		3KA5140-1AE01		1	1 unit	1CL	2.053
	125		3KA5240-1AE01		1	1 unit	1CL	2.080
	160		3KA5340-1AE01		1	1 unit	1CL	2.340
	250		3KA5540-1AE01		1	1 unit	1CL	5.700
	400		3KA5740-1AE01		1	1 unit	1CL	5.120
	630		3KA5840-1AE01		1	1 unit	1CL	5.040
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								
 8UC7121-3BB10	63		8UC7121-3BB10		1	1 unit	1CL	0.355
	80		8UC7121-3BB10		1	1 unit	1CL	0.355
	125		8UC7222-3BB20		1	1 unit	1CL	0.426
	160		8UC7222-3BB20		1	1 unit	1CL	0.426
	250		8UC7323-3BB30		1	1 unit	1CL	1.000
	400		8UC7323-3BB30		1	1 unit	1CL	1.000
	630		8UC7323-3BB30		1	1 unit	1CL	1.000
4-pole¹⁾ for power distribution								
	63		8UC7222-3BB20		1	1 unit	1CL	0.426
	80		8UC7222-3BB20		1	1 unit	1CL	0.426
	125		8UC7222-3BB20		1	1 unit	1CL	0.426
	160		8UC7222-3BB20		1	1 unit	1CL	0.426
	250		8UC7323-3BB30		1	1 unit	1CL	1.000
	400		8UC7323-3BB30		1	1 unit	1CL	1.000
	630		8UC7323-3BB30		1	1 unit	1CL	1.000


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

8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate), [see page 7/76](#)

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	DT	3-pole, assembly kits for mounting in control cabinet side panels Assembly kits (front IP40) Comprising: Lockable handle and three terminal covers for the infeed side	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
A		Article No. www.siemens.com/ product?Article No.	Price per PU			kg	
Black handle							
 <p>3KA5330-1AE01 with 3KX3536-2AA</p>	63	3KX3516-2AA	1	1 unit	1CL	0.620	
	80	3KX3516-2AA	1	1 unit	1CL	0.620	
	125	3KX3536-2AA	1	1 unit	1CL	0.900	
	160	3KX3536-2AA	1	1 unit	1CL	0.900	
	250	3KX3556-2AA	1	1 unit	1CL	1.487	
	400	3KX3556-2AA	1	1 unit	1CL	1.487	
	630	3KX3556-2AA	1	1 unit	1CL	1.487	
	EMERGENCY-STOP red handle						
	63	3KX3516-2BA	1	1 unit	1CL	0.587	
	80	3KX3516-2BA	1	1 unit	1CL	0.587	
125	3KX3536-2BA	1	1 unit	1CL	0.840		
160	3KX3536-2BA	1	1 unit	1CL	0.840		
250	3KX3556-2BA	1	1 unit	1CL	1.605		
400	3KX3556-2BA	1	1 unit	1CL	1.605		
630	3KX3556-2BA	1	1 unit	1CL	1.605		

7

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

All switch disconnectors with degree of protection IP00
With high speed closing and opening
The conductor connecting screws are 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*/ P. unit	PG	Weight per PU approx.
A		Article No. www.siemens.com/ product?Article No.	Price per PU			kg
Complete versions with black handle						
250		3KE4230-0BA		1	1 unit	1CL 4.620
400		3KE4330-0BA		1	1 unit	1CL 4.660
630		3KE4430-0BA		1	1 unit	1CL 7.252
1000		3KE4530-0BA		1	1 unit	1CL 7.764
Basic switch versions without handle						
250		3KE4230-0AA		1	1 unit	1CL 3.886
400		3KE4330-0AA		1	1 unit	1CL 4.320
630		3KE4430-0AA		1	1 unit	1CL 6.876
1000		3KE4530-0AA		1	1 unit	1CL 7.430
EMERGENCY-STOP red handles + coupling sockets for basic switch versions without handle						
250		8UC9371 + 3KX2210-0H		1	1 unit	1CL 0.140
400		8UC9371 + 3KX2210-0H		1	1 unit	1CL 0.230
630		8UC9375 + 3KX2210-0H		1	1 unit	1CL 0.160
1000		8UC9375 + 3KX2210-0H		1	1 unit	1CL 0.230
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)						
250		3KE4230-0GA		1	1 unit	1CL 4.983
400		3KE4330-0GA		1	1 unit	1CL 5.046
630		3KE4430-0GA		1	1 unit	1CL 7.740
1000		3KE4530-0GA		1	1 unit	1CL 8.267
Basic switch versions without handle						
250		3KE4230-0AA		1	1 unit	1CL 3.886
400		3KE4330-0AA		1	1 unit	1CL 4.320
630		3KE4430-0AA		1	1 unit	1CL 6.876
1000		3KE4530-0AA		1	1 unit	1CL 7.430
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle						
250, 400, 630, 1000		8UC7324-3BB44		1	1 unit	1CL 1.116

Switch Disconnectors

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*/P. unit	PG	Weight per PU approx.
A		Article No. www.siemens.com/product?Article No.	Price per PU			kg
Basic switch versions without handle						
Direct operating mechanisms						
250		3KE4230-0CA	1	1 unit	1CL	5.248
400		3KE4330-0CA	1	1 unit	1CL	5.300
630		3KE4430-0CA	1	1 unit	1CL	7.739
1000		3KE4530-0CA	1	1 unit	1CL	7.907
Direct operating mechanisms (lockable)						
250		3KE4230-0CA	1	1 unit	1CL	5.248
400		3KE4330-0CA	1	1 unit	1CL	5.300
630		3KE4430-0CA	1	1 unit	1CL	7.739
1000		3KE4530-0CA	1	1 unit	1CL	7.907
Handles (black) + masking plates + display plates (silver) for basic switch versions without handle						
Direct operating mechanisms						
250		8UC9370	1	1 unit	1CL	0.130
		+ 8UB9530	1	1 unit	1CL	0.026
		+ 8UC9631-0B	1	1 unit	1CL	0.010
400		8UC9370	1	1 unit	1CL	0.130
		+ 8UB9530	1	1 unit	1CL	0.026
		+ 8UC9631-0B	1	1 unit	1CL	0.010
630		8UC9374	1	1 unit	1CL	0.160
		+ 8UB9530	1	1 unit	1CL	0.026
		+ 8UC9631-0B	1	1 unit	1CL	0.010
1000		8UC9374	1	1 unit	1CL	0.160
		+ 8UB9530	1	1 unit	1CL	0.026
		+ 8UC9631-0B	1	1 unit	1CL	0.010
Direct operating mechanisms (lockable)						
250		8UC9370	1	1 unit	1CL	0.130
		+ 8UC9563	1	1 unit	1CL	0.270
		+ 8UC9631-0B	1	1 unit	1CL	0.010
400		8UC9370	1	1 unit	1CL	0.130
		+ 8UC9563	1	1 unit	1CL	0.270
		+ 8UC9631-0B	1	1 unit	1CL	0.010
630		8UC9374	1	1 unit	1CL	0.160
		+ 8UC9563	1	1 unit	1CL	0.270
		+ 8UC9631-0B	1	1 unit	1CL	0.010
1000		8UC9374	1	1 unit	1CL	0.160
		+ 8UC9563	1	1 unit	1CL	0.270
		+ 8UC9631-0B	1	1 unit	1CL	0.010

7

Switch Disconnectors

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*/P. unit	PG	Weight per PU approx.
A		Article No. www.siemens.com/ product?Article No.	Price per PU			kg
EMERGENCY-STOP red handles + masking plates + display plates (yellow) for basic switch versions without handle						
Direct operating mechanisms						
250		8UC9371 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL	0.140
			1	1 unit	1CL	0.026
			1	1 unit	1CL	0.010
400		8UC9371 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL	0.140
			1	1 unit	1CL	0.026
			1	1 unit	1CL	0.010
630		8UC9375 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL	0.160
			1	1 unit	1CL	0.026
			1	1 unit	1CL	0.010
1000		8UC9375 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL	0.160
			1	1 unit	1CL	0.026
			1	1 unit	1CL	0.010
Direct operating mechanisms (lockable)						
250		8UC9371 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL	0.140
			1	1 unit	1CL	0.270
			1	1 unit	1CL	0.010
400		8UC9371 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL	0.140
			1	1 unit	1CL	0.270
			1	1 unit	1CL	0.010
630		8UC9375 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL	0.160
			1	1 unit	1CL	0.270
			1	1 unit	1CL	0.010
1000		8UC9375 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL	0.160
			1	1 unit	1CL	0.270
			1	1 unit	1CL	0.010
Basic switch versions without handle						
250		3KE4230-0CA	1	1 unit	1CL	5.248
400		3KE4330-0CA	1	1 unit	1CL	5.300
630		3KE4430-0CA	1	1 unit	1CL	7.739
1000		3KE4530-0CA	1	1 unit	1CL	7.907
8UC7 door-coupling rotary operating mechanisms (black handle) for basic switch versions without handle						
250, 400, 630, 1000		8UC7314-1BB44	1	1 unit	1CL	1.170
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle						
250, 400, 630, 1000		8UC7324-3BB44	1	1 unit	1CL	1.116


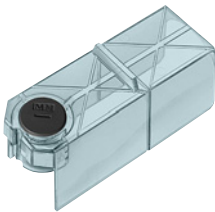


Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Selection and ordering data

	Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KA50 30/3KA51 30								
	Terminal covers							
	For 3-pole devices (1 set = 6 units)	▶	3KX3552-3DA01		1	1 unit	1CL	0.080
	For 4-pole devices (1 set = 8 units)		3KX3552-3DB01		1	1 unit	1CL	0.100
	Door-coupling rotary operating mechanisms IP65							
	Black handle, shaft 300 mm		8UC7111-1BB10		1	1 unit	1CL	0.354
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7121-3BB10		1	1 unit	1CL	0.355
	Operating mechanisms for fixed mounting	▶	3KX3516-1AA		1	1 unit	1CL	0.088
	Black handle, shaft 250 mm							
	Extension shaft 300 mm long		8UC6031		1	1 unit	1CL	0.068
	Extension shaft 600 mm long		8UC6081		1	1 unit	1CL	0.136
	Shaft connecting pieces		8UC6021		1	1 unit	1CL	0.027
	Auxiliary switches							
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J	0.019
	2 NO		3SB1400-0G		1	1 unit	41J	0.019
	2 NC		3SB1400-0H		1	1 unit	41J	0.020
3KA50 40/3KA51 40/3KA52/3KA53								
	Terminal covers							
	For 3-pole 3KA52 devices (1 set = 6 units)	▶	3KX3552-3DA01		1	1 unit	1CL	0.080
	For 3KA53	▶	3KX3553-3DA01		1	1 unit	1CL	0.150
	For 4-pole 3KA52 devices (1 set = 8 units)		3KX3552-3DB01		1	1 unit	1CL	0.100
	For 3KA53		3KX3553-3DB01		1	1 unit	1CL	0.175
	Door-coupling rotary operating mechanisms IP65							
	Black handle, shaft 300 mm		8UC7212-1BB20		1	1 unit	1CL	0.424
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7222-3BB20		1	1 unit	1CL	0.426
	Operating mechanisms for fixed mounting	▶	3KX3536-1AA		1	1 unit	1CL	0.144
	Black handle, shaft 250 mm							
	Extension shaft 300 mm long		8UC6032		1	1 unit	1CL	0.135
	Extension shaft 600 mm long		8UC6082		1	1 unit	1CL	0.265
	Shaft connecting pieces		8UC6022		1	1 unit	1CL	0.022
	Auxiliary switches							
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J	0.019
	2 NO		3SB1400-0G		1	1 unit	41J	0.019
	2 NC		3SB1400-0H		1	1 unit	41J	0.020
	1 NO + 1 NC, 20 ms leading		3KX3552-3EA01		1	1 unit	1CL	0.022
3KA55/3KA57/3KA58								
	Terminal covers							
	For 3-pole devices (1 set = 6 units)	▶	3KX3557-3DA01		1	1 unit	1CL	0.293
	For 4-pole devices (1 set = 8 units)		3KX3557-3DB01		1	1 unit	1CL	0.431
	Door-coupling rotary operating mechanisms IP65							
	Black handle, shaft 300 mm		8UC7313-1BB30		1	1 unit	1CL	1.001
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7323-3BB30		1	1 unit	1CL	1.000
	Operating mechanisms for fixed mounting	▶	3KX3176-1E		1	1 unit	1CL	0.287
	Black handle, shaft 250 mm							
	Extension shaft 300 mm long		8UC6033		1	1 unit	1CL	0.215
	Extension shaft 600 mm long		8UC6083		1	1 unit	1CL	0.424
	Shaft connecting pieces		8UC6023		1	1 unit	1CL	0.084
	Auxiliary switches							
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J	0.019
	2 NO		3SB1400-0G		1	1 unit	41J	0.019
	2 NC		3SB1400-0H		1	1 unit	41J	0.020
	1 NO + 1 NC, 20 ms leading		3KX3552-3EA01		1	1 unit	1CL	0.022




Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
3KE42/3KE43								
 <p>3KX2210-0D</p>	Changeover switches							
	Changeover switches with break-before-make feature							
	Switch I ON – Switch II OFF		3KX2210-0D		1	1 unit	1CL	2.450
	Switch I OFF – Switch II OFF							
	Switch I OFF – Switch II ON							
	Door-coupling rotary operating mechanisms IP65		8UC7414-1BF44		1	1 unit	1CL	1.196
	Black handle for changeover switch with break-before-make feature, shaft 300 mm							
	Direct operating mechanisms		8UC9381		1	1 unit	1CL	0.270
	Handle (black) for fixed mounting							
	Changeover switches without break-before-make feature							
	Switch I ON – Switch II OFF		3KX2210-0E		1	1 unit	1CL	2.451
	Switch I ON – Switch II ON							
	Switch I OFF – Switch II ON							
	 <p>3KX3557-3DA01</p>	Door-coupling rotary operat. mechan. IP65		8UC7414-1FG44		1	1 unit	1CL
Black handle for changeover switch without break-before-make feature, shaft 300 mm								
Direct operating mechanisms		8UC9381		1	1 unit	1CL	0.270	
Handle (black) for fixed mounting								
Parallel switches		3KX2250-1A		1	1 unit	1CL	0.760	
Switch I ON – Switch II ON								
Switch I OFF – Switch II OFF								
Door-coupling rotary operating mechanisms IP65		8UC7414-1BB44		1	1 unit	1CL	1.204	
Handle (black), shaft 300 mm								
EMERGENCY-STOP door-coupling rotary operating mechanisms IP65		8UC7424-3BB44		1	1 unit	1CL	1.134	
Handle (red), shaft 300 mm								
 <p>3KX2231-1A</p>	Direct operating mechanisms		8UC9381		1	1 unit	1CL	0.270
	Handle (black) for fixed mounting							
	Further accessories							
	Terminal covers		▶ 3KX3557-3DA01		1	1 unit	1CL	0.293
	(1 set = 6 units)							
	Door-coupling rotary operat. mechan. IP65		8UC7314-1BB44		1	1 unit	1CL	1.170
	Black handle, shaft 300 mm		8UC7324-3BB44		1	1 unit	1CL	1.116
EMERGENCY-STOP (yellow/red), shaft 300 mm								
 <p>3KY2204-0A</p>	Extension shaft 300 mm long		8UC6034		1	1 unit	1CL	0.316
	Extension shaft 600 mm long		8UC6084		1	1 unit	1CL	0.628
	Auxiliary switches with switching cam		3KX2231-1A		1	1 unit	1CL	0.055
	1 NO + 1 NC (complete mounting kit)							
	Grounding brackets		3KX2252-1A		1	1 unit	1CL	0.049
Arc chutes		3KY2202-0B		1	1 unit	1CL	0.640	
(spare part with 3 arc-splitter assemblies)								
Arcing contacts		3KY2204-0A		1	1 unit	1CL	0.201	
(spare part with 3 fixed and 3 movable contacts)								

* You can order this quantity or a multiple thereof.

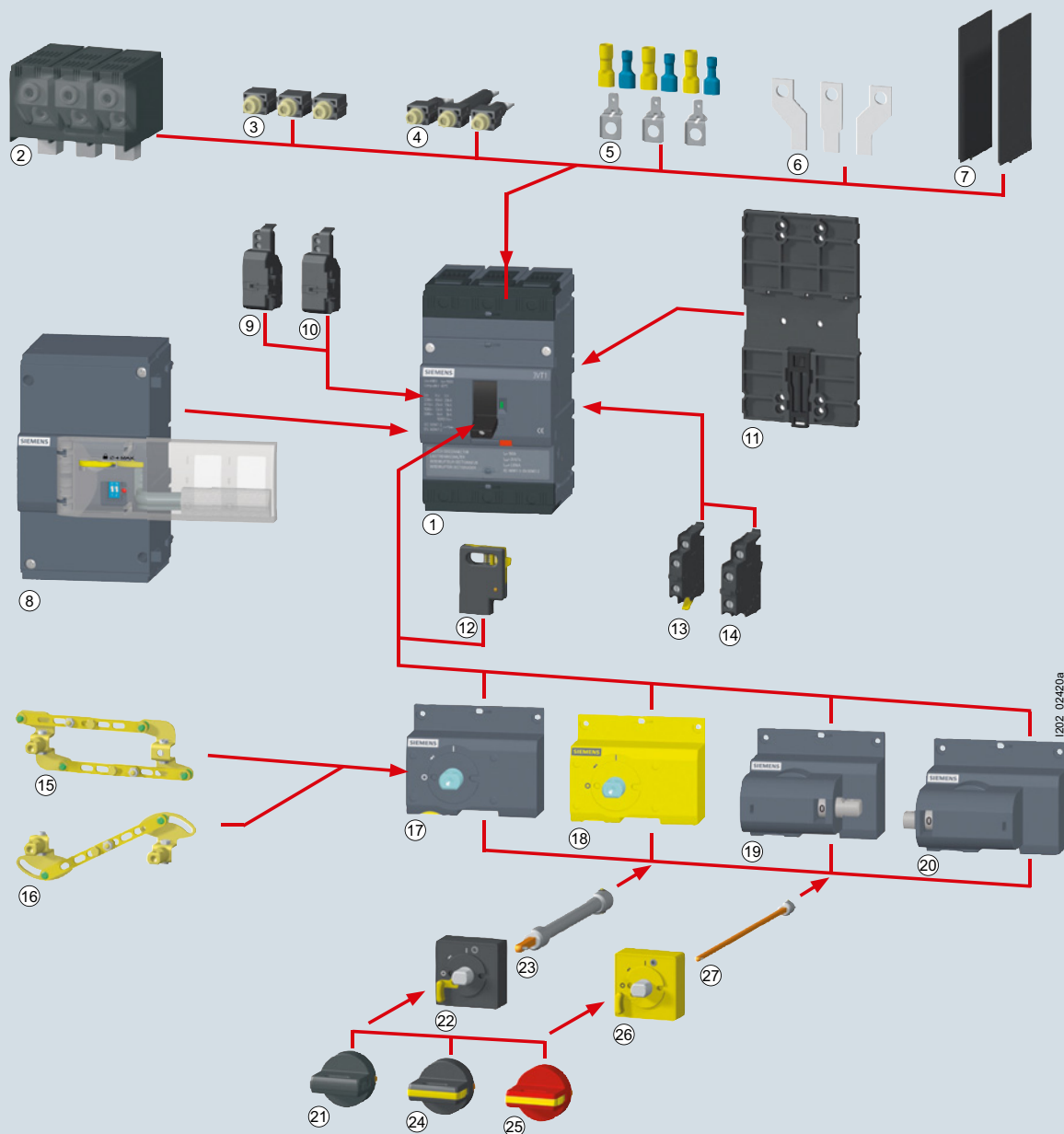
Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
3KE44/3KE45								
 <p>3KX2210-0D</p>	Changeover switches							
	Changeover switches with break-before-make feature Switch I ON – Switch II OFF Switch I OFF – Switch II OFF Switch I OFF – Switch II ON		3KX2210-0D		1	1 unit	1CL	2.450
	Door-coupling rotary operating mechanisms IP65 Black handle for changeover switch with break-before-make feature, shaft 300 mm		8UC7414-1BF44		1	1 unit	1CL	1.196
	Direct operating mechanisms Handle (black) for fixed mounting		8UC9381		1	1 unit	1CL	0.270
	Changeover switches without break-before-make feature Switch I ON – Switch II OFF Switch I ON – Switch II ON Switch I OFF – Switch II ON		3KX2210-0E		1	1 unit	1CL	2.451
	Door-coupling rotary operating mechanisms IP65 Black handle for changeover switch without break-before-make feature, shaft 300 mm		8UC7414-1FG44		1	1 unit	1CL	1.113
	Direct operating mechanisms Handle (black) for fixed mounting		8UC9381		1	1 unit	1CL	0.270
	Parallel switches Switch I ON – Switch II ON Switch I OFF – Switch II OFF		3KX2250-1A		1	1 unit	1CL	0.760
	Door-coupling rotary operating mechanisms IP65 Handle (black), shaft 300 mm		8UC7414-1BB44		1	1 unit	1CL	1.204
	EMERGENCY-STOP door-coupling rotary operating mechanisms IP65 Handle (red), shaft 300 mm		8UC7424-3BB44		1	1 unit	1CL	1.134
	Direct operating mechanisms Handle (black) for fixed mounting		8UC9381		1	1 unit	1CL	0.270
	Further accessories							
	Terminal covers (top and bottom)		3KX2252-0C		1	1 unit	1CL	0.418
	 <p>3KX2231-1A</p>	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7314-1BB44	1	1 unit	1CL	1.170
		8UC7324-3BB44	1	1 unit	1CL	1.116		
Extension shaft 300 mm long		8UC6034		1	1 unit	1CL	0.316	
Extension shaft 600 mm long		8UC6084		1	1 unit	1CL	0.628	
Auxiliary switches 1 NO + 1 NC (complete mounting kit)		3KX2231-1A		1	1 unit	1CL	0.055	
Grounding brackets		3KX2252-1A		1	1 unit	1CL	0.049	
Arc chutes (spare part with 3 arc-splitter assemblies)		3KY2232-0A		1	1 unit	1CL	1.031	
 <p>3KY2232-0A</p>	Arcing contacts Spare part with 3 fixed and 3 movable contacts		3KY2234-0A		1	1 unit	1CL	0.110

Overview



- | | | |
|--|--|--|
| ① Switch disconnector | ⑩ Undervoltage release | ⑲ Lateral rotary operating mechanism (right) |
| ② Circular conductor terminal | ⑪ Adapter to install on 35 mm DIN rail | ⑳ Lateral rotary operating mechanism (left) |
| ③ Front connection | ⑫ Locking device type lever | ㉑ Non lockable knob |
| ④ Rear connection | ⑬ Signal switch | ㉒ Coupling driver |
| ⑤ Auxiliary conductor terminal | ⑭ Auxiliary switch | ㉓ Telescopic extension shaft |
| ⑥ Front connecting bus with increased pole spacing | ⑮ Mechanical parallel switching | ㉔ Lockable knob |
| ⑦ Insulating barriers | ⑯ Mechanical interlocking | ㉕ Lockable knob |
| ⑧ Lateral rotary operating mechanism | ⑰ Front rotary operating mechanism | ㉖ Coupling driver |
| ⑨ Shunt release | ⑱ Front rotary operating mechanism | ㉗ Extension shaft |

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

Introduction

Application


3VT switch disconnectors can be used as main control switches for sub-distribution boards, repair and transfer switches for cables, busbars or unit combinations.

As three and four-pole versions, they ensure making and breaking 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.

The position of the operating toggle lever always matches that of the contacts (positive operation).

All 3VT switch disconnectors meet the requirements of IEC 60947-1 and IEC 60947-3.

Technical specifications



Standards	A	IEC 60947-1, IEC 60947-3				
						
Rated uninterrupted current I_u	A	160	250	630	1000	1600
Number of poles		3 and 4	3 and 4	3 and 4	3	3
Rated insulation voltage U_i	V	690				
Utilization category		AC-23A DC-22A	AC-23B DC-23B			
Rated operational voltage U_e	V	690 440 (3 conducting paths series-connected)				
Rated short-time withstand current I_{cw}	kA_{rms}	2/1s	3/5s	7.5/5s	15/1s	20/1s
Rated impulse withstand voltage U_{imp}	kV	8				
Rated short-circuit making capacity I_{cm}						
• At 415 V AC	kA	2.8	4	14	30	40
• At 440 V DC	kA	2.8	4	14	30	40
Endurance						
• Mechanical	Operating cycles	20000	30000	20000	10000	10000
• Electrical at 415 V AC	Operating cycles	6000	3000	5000	4000	4000
Switching frequency	Operating cycles/h	120	120	120	120	120
Power loss per pole	W	15	18	75	100	120

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A





3VT1 switch disconnectors up to 160 A

Selection and ordering data

	Version	Rated uninterrupted current I_u	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		A							
3VT1 switch disconnectors									
	3-pole	160		3VT1716-2DE36-0AA0		1	1 unit	1CC	0.997
	4-pole	160		3VT1716-2EE46-0AA0		1	1 unit	1CC	1.313

Accessories

Auxiliary switches and auxiliary releases

	Rated operational voltage U_s	Frequency	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		V	Hz						
Auxiliary switches									
	Changeover contact (1 CO)								
	• 60 ... 250 AC/DC	50/60		3VT9100-2AB10		1	1 unit	1CC	0.020
	• 5 ... 60 AC/DC	50/60		3VT9100-2AB20		1	1 unit	1CC	0.020
Alarm switches									
	Changeover contact (1 CO)								
	• 60 ... 250 AC/DC	50/60		3VT9100-2AH10		1	1 unit	1CC	0.020
	• 5 ... 60 AC/DC	50/60		3VT9100-2AH20		1	1 unit	1CC	0.021
Shunt releases									
	• 12 DC	--		3VT9100-1SB00		1	1 unit	1CC	0.050
	• 24, 48 AC/DC	50/60		3VT9100-1SC00		1	1 unit	1CC	0.094
	• 110, 230 AC 110, 220 DC	50/60		3VT9100-1SD00		1	1 unit	1CC	0.094
	• 230, 400 AC 220 DC	50/60		3VT9100-1SE00		1	1 unit	1CC	0.095
Undervoltage releases									
	• 24, 48 AC	50/60		3VT9100-1UC00		1	1 unit	1CC	0.091
	• 110, 230 AC	50/60		3VT9100-1UD00		1	1 unit	1CC	0.093
	• 230, 400 AC	50/60		3VT9100-1UE00		1	1 unit	1CC	0.096
	• 24, 48 DC	--		3VT9100-1UU00		1	1 unit	1CC	0.094
	• 110, 220 DC	--		3VT9100-1UV00		1	1 unit	1CC	0.091

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A



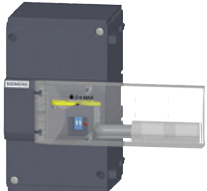
Manual operating mechanisms

Version	Color	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms								
Manual rotary operating mechanisms								
 <ul style="list-style-type: none"> • Not lockable • Lockable with padlock 	Gray		3VT9100-3HA10		1	1 unit	1CC	0.109
	Gray		3VT9100-3HA20		1	1 unit	1CC	0.123
 <ul style="list-style-type: none"> • Lockable with padlock 	Yellow		3VT9100-3HB20		1	1 unit	1CC	0.120
 <ul style="list-style-type: none"> • For lateral operation, mounted on left side, not lockable • For lateral operation, mounted on right side, not lockable 	Gray		3VT9100-3HC10		1	1 unit	1CC	0.179
	Gray		3VT9100-3HD10		1	1 unit	1CC	0.179
Handle for manual rotary operating mechanisms								
 <ul style="list-style-type: none"> • Not lockable 	Black		3VT9100-3HE10		1	1 unit	1CC	0.022
	Black		3VT9100-3HE20		1	1 unit	1CC	0.022
 <ul style="list-style-type: none"> • Lockable with padlock 	Red		3VT9100-3HF20		1	1 unit	1CC	0.020
Coupling drivers for door-coupling operating mechanism, can be defeated								
 <p>For use with black handle 3VT9100-3HE..</p> <ul style="list-style-type: none"> • Degree of protection IP40 • Degree of protection IP66 	Black		3VT9100-3HG10		1	1 unit	1CC	0.095
	Black		3VT9100-3HG20		1	1 unit	1CC	0.097
 <p>For use with red handle 3VT9100-3HF20</p> <ul style="list-style-type: none"> • Degree of protection IP40 • Degree of protection IP66 	Yellow		3VT9100-3HH10		1	1 unit	1CC	0.096
	Yellow		3VT9100-3HH20		1	1 unit	1CC	0.093

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Version	Color	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Extension shafts								
			3VT9100-3HJ10		1	1 unit	1CC	0.134
			3VT9100-3HJ20		1	1 unit	1CC	0.113
Mechanical interlocks								
			3VT9100-8LA00		1	1 unit	1CC	0.116
Mechanical parallel switching								
			3VT9100-8LB00		1	1 unit	1CC	0.126
Motorized operating mechanisms								
Rated operational voltage U_s	Frequency	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
V	Hz							
Motorized operating mechanisms, lateral mounting								
With locking mechanism for 3 padlocks								
	24 AC/DC	50/60	3VT9100-3MA00		1	1 unit	1CC	0.903
	48 AC/DC	50/60	3VT9100-3MB00		1	1 unit	1CC	0.900
	110 AC/DC	50/60	3VT9100-3MD00		1	1 unit	1CC	0.911
	230 AC/220 DC	50/60	3VT9100-3ME00		1	1 unit	1CC	0.903
Accessories for motorized operating mechanisms								
	Extension cables for motorized operating mechanism 12 cables, length 60 cm		3VT9100-3MF00		1	1 unit	1CC	0.059

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Connection accessories

	Version	Conductor cross-sections mm ²	Connection type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Connection methods										
	3-pole Front connecting bars For increased pole spacing (1 set = 3 units)		--	Al/Cu busbars, cable lugs	3VT9100-4ED30		1	1 unit	1CC	0.109
		Front terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs	3VT9100-4TA30		1	1 unit	1CC	0.055
		Rear terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs	3VT9100-4RC30		1	1 unit	1CC	0.178
	Multiple feed-in terminals Terminal covers, degree of protection IP20 (Included in scope of supply) (1 set = 3 units)	2 x 25 ... 120	Cu/Al cables	3VT9100-4TF30		1	1 unit	1CC	0.260	
	Auxiliary conductor terminals (1 set = 3 units)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors	3VT9100-4TN30		1	1 unit	1CC	0.026	
	4-pole Front terminals For 4th pole (for use with 3VT9100-4TA30 connection method) (1 set = 1 unit)		--	Al/Cu busbars, cable lugs	3VT9100-4TA00		1	1 unit	1CC	0.025
		Rear terminals For 4th pole (for use with 3VT9100-4RC30 connection method) (1 set = 1 unit)	--	Al/Cu busbars, cable lugs	3VT9100-4RC00		1	1 unit	1CC	0.091
		Multiple feed-in terminals Terminal covers, degree of protection IP20 (included in scope of supply) (1 set = 1 unit)	2 x 25 ... 120	Cu/Al cables	3VT9100-4TF40		1	1 unit	1CC	0.333
	Auxiliary conductor terminals For 4th pole (for use with 3VT9100-4TN30 connection method) (1 set = 1 unit)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors	3VT9100-4TN00		1	1 unit	1CC	0.016	


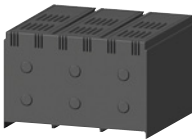


7

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Further accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Phase barriers, covers, locking devices							
	Phase barriers Included in scope of supply of switch disconnector. If infeed is from below, the switch disconnectors must also be fitted on the sides of terminals 2, 4 and 6 with these phase barriers.						
	<ul style="list-style-type: none"> • For 3-pole version, 2 units • For 4-pole version, 1 unit (for use with 3VT9100-8CE30) 						
	Terminal covers, degree of protection IP20 Increases degree of protection of connection point to IP20, e.g. when used with cable lugs.						
	<ul style="list-style-type: none"> • 3-pole version • 4-pole version 						
	Locking devices for toggle levers						
	<ul style="list-style-type: none"> • Allows the switch disconnector to be locked in the "manual off" position. • Locking is by means of a padlock with a diameter of 3 ... 4 mm. 						
Mounting adapters							
	3/4-pole version Mounting adapters for mounting on a 35 mm standard mounting rail						
	3VT9100-4PP30						

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A







3VT2 switch disconnectors up to 250 A

Selection and ordering data

Version	Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3VT2 switch disconnectors								
	3-pole	250	3VT2725-2DE36-0AA0		1	1 unit	1CC	2.913
	4-pole	250	3VT2725-2EE46-0AA0		1	1 unit	1CC	3.771

Accessories



Auxiliary switches and auxiliary releases

Rated operational voltage U_s V	Frequency Hz	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary switches and alarm switches								
With NO contact (1 NO)								
	60 ... 500 AC/DC	50/60	3VT9300-2AC10		1	1 unit	1CC	0.035
	5 ... 60 AC/DC	50/60	3VT9300-2AC20		1	1 unit	1CC	0.034
With NC contact (1 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AD10		1	1 unit	1CC	0.036
	5 ... 60 AC/DC	50/60	3VT9300-2AD20		1	1 unit	1CC	0.036
With double contact (2 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AE10		1	1 unit	1CC	0.050
	5 ... 60 AC/DC	50/60	3VT9300-2AE20		1	1 unit	1CC	0.050
With double contacts (1 NO and 1 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AF10		1	1 unit	1CC	0.049
	5 ... 60 AC/DC	50/60	3VT9300-2AF20		1	1 unit	1CC	0.048
With double contact (2 NO)								
	60 ... 500 AC/DC	50/60	3VT9300-2AG10		1	1 unit	1CC	0.048
	5 ... 60 AC/DC	50/60	3VT9300-2AG20		1	1 unit	1CC	0.048
Changeover contact (1 CO)								
	60 ... 250 AC/DC	50/60	3VT9300-2AH10		1	1 unit	1CC	0.036
	5 ... 60 AC/DC	50/60	3VT9300-2AH20		1	1 unit	1CC	0.036
Leading contacts								
250 AC	50/60		3VT9300-2AJ00		1	1 unit	1CC	0.086

Switch Disconnectors



3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

	Rated operational voltage U_s	Frequency	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	V	Hz							
Shunt releases									
	24, 40, 48 AC/DC	50/60		3VT9300-1SC00		1	1 unit	1CC	0.149
	110 AC/DC	50/60		3VT9300-1SD00		1	1 unit	1CC	0.145
	230, 400, 500 AC/220 DC	50/60		3VT9300-1SE00		1	1 unit	1CC	0.152
Undervoltage releases									
	24, 40, 48 AC/DC	50/60		3VT9300-1UC00		1	1 unit	1CC	0.146
	110 AC/DC	50/60		3VT9300-1UD00		1	1 unit	1CC	0.145
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE00		1	1 unit	1CC	0.146
	With leading contact¹⁾								
	24, 40, 48 AC/DC	50/60		3VT9300-1UC10		1	1 unit	1CC	0.155
	110 AC/DC	50/60		3VT9300-1UD10		1	1 unit	1CC	0.159
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE10		1	1 unit	1CC	0.151

¹⁾ Not suitable for 3VT9200-3M..0 motorized operating mechanism.

Manual operating mechanisms

	Version	Color	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms									
Manual rotary operating mechanisms									
	• Not lockable	Gray		3VT9200-3HA10		1	1 unit	1CC	0.253
	• Lockable with padlock	Gray		3VT9200-3HA20		1	1 unit	1CC	0.262
	• Lockable with padlock	Yellow label		3VT9200-3HB20		1	1 unit	1CC	0.260
	• For lateral operation, mounted on left side, not lockable	Gray		3VT9200-3HC10		1	1 unit	1CC	0.424
	• For lateral operation, mounted on right side, not lockable	Gray		3VT9200-3HD10		1	1 unit	1CC	0.424
	Handle for manual rotary operating mechanisms								
	• Not lockable	Black		3VT9300-3HE10		1	1 unit	1CC	0.080
	• Lockable with padlock	Black		3VT9300-3HE20		1	1 unit	1CC	0.080
	• Lockable with padlock	Red		3VT9300-3HF20		1	1 unit	1CC	0.080

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Version	Color	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Coupling drivers for door-coupling operating mechanism								
 <p>For use with black handle 3VT9300-3HE..</p> <ul style="list-style-type: none"> Degree of protection IP40 Degree of protection IP66 	Black		3VT9300-3HG10		1	1 unit	1CC	0.210
	Black		3VT9300-3HG20		1	1 unit	1CC	0.212
 <p>For use with red handle 3VT9300-3HF20</p> <ul style="list-style-type: none"> Degree of protection IP40 Degree of protection IP66 	Yellow		3VT9300-3HH10		1	1 unit	1CC	0.210
	Yellow		3VT9300-3HH20		1	1 unit	1CC	0.211
Coupling drivers for door-coupling operating mechanism, can be defeated								
 <p>For use with black handle 3VT9300-3HE..</p> <ul style="list-style-type: none"> Degree of protection IP40 	Black		3VT9300-3HG30		1	1 unit	1CC	0.223
	Black							
 <p>For use with red handle 3VT9300-3HF20</p> <ul style="list-style-type: none"> Degree of protection IP40 	Yellow		3VT9300-3HH30		1	1 unit	1CC	0.204
	Yellow							
Extension shafts								
 <ul style="list-style-type: none"> Length 365 mm, can be shortened 			3VT9300-3HJ10		1	1 unit	1CC	0.211
 <ul style="list-style-type: none"> Length 245 ... 410 mm, extendable 			3VT9300-3HJ20		1	1 unit	1CC	0.259





7

Switch Disconnectors


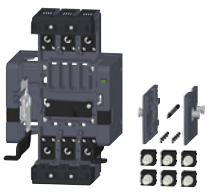
3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Motorized operating mechanisms

	Rated operational voltage U_s	Frequency	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	V	Hz							
Motorized operating mechanisms with stored-energy mechanism									
	With locking mechanism for 3 padlocks, degree of protection IP00								
	24 AC/DC	50/60		3VT9200-3MJ00		1	1 unit	1CC	1.550
	48 AC/DC	50/60		3VT9200-3ML00		1	1 unit	1CC	1.553
	110 AC/DC	50/60		3VT9200-3MN00		1	1 unit	1CC	1.542
	230 AC/220 DC	50/60		3VT9200-3MQ00		1	1 unit	1CC	1.552
	Motorized operating mechanism with operating cycle counter								
	24 AC/DC	50/60		3VT9200-3MJ10		1	1 unit	1CC	1.560
	48 AC/DC	50/60		3VT9200-3ML10		1	1 unit	1CC	1.570
	110 AC/DC	50/60		3VT9200-3MN10		1	1 unit	1CC	1.574
	230 AC/220 DC	50/60		3VT9200-3MQ10		1	1 unit	1CC	1.572
Accessories for motorized operating mechanisms									
	Operating cycle counter with cable Length 110 cm			3VT9300-3MF10		1	1 unit	1CC	0.003
		Extension cables for motorized operating mechanism 12 cables, length 60 cm			3VT9300-3MF00		1	1 unit	1CC

Mounting accessories

	Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Plug-in base assembly kits								
	3-pole		3VT9200-4PA30		1	1 unit	1CC	1.764
	4-pole		3VT9200-4PA40		1	1 unit	1CC	2.289
Withdrawable unit kit								
	3-pole		3VT9200-4WA30		1	1 unit	1CC	3.462
	4-pole		3VT9200-4WA40		1	1 unit	1CC	3.922

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Connection accessories


Version	Conductor cross-sections mm ²	Connection type	DT	Article No. www.siemens.com/ product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection methods									
3-pole									
Front connecting bars									
	For increased pole spacing, short (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars	3VT9200-4ED30		1	1 unit	1CC	0.298
	For increased pole spacing, long (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars	3VT9200-4EE30		1	1 unit	1CC	0.469
	Front terminals Included in scope of supply of all switch disconnectors (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars	3VT9200-4TA30		1	1 unit	1CC	0.119
	Rear terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs	3VT9200-4RC30		1	1 unit	1CC	0.254
Multiple feed-in terminals¹⁾									
	For 1 cable (1 set = 3 units)	1 x 25 ... 150	Cu/Al cables	3VT9215-4TD30		1	1 unit	1CC	0.202
		1 x 150 ... 240	Cu/Al cables	3VT9224-4TD30		1	1 unit	1CC	0.339
	For 2 cables (1 set = 3 units)	2 x 25 ... 150	Cu/Al cables	3VT9215-4TF30		1	1 unit	1CC	0.485
		2 x 150 ... 240	Cu/Al cables	3VT9224-4TF30		1	1 unit	1CC	0.618
	For 6 cables (1 set = 3 units)	6 x 6 ... 35	Cu/Al cables	3VT9203-4TF30		1	1 unit	1CC	0.298
	Auxiliary conductor terminals (1 set = 3 units)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors	3VT9200-4TN30		1	1 unit	1CC	0.029
	Box terminals (1 set = 3 units)	16 ... 150	Cu cables, flexibars	3VT9200-4TC30		1	1 unit	1CC	0.251
4-pole									
Rear connections for the 4th pole									
	Use with 3VT9200-4RC30 connection method (1 set = 1 unit)	--	Al/Cu busbars/ cable lugs	3VT9200-4RC00		1	1 unit	1CC	0.091
Multiple feed-in terminals for the 4th pole									
	Use with 3VT9215-4TD30 or 3VT9224-4TD30 connection method, for 1 cable (1 set = 1 unit)	1 x 25 ... 150	Cu/Al cables	3VT9215-4TD00		1	1 unit	1CC	0.074
		1 x 150 ... 240	Cu/Al cables	3VT9224-4TD00		1	1 unit	1CC	0.124
	Use with 3VT9215-4TF30 or 3VT9224-4TF30 connection method, for 2 cables (1 set = 1 unit)	2 x 25 ... 150	Cu/Al cables	3VT9215-4TF00		1	1 unit	1CC	0.169
		2 x 150 ... 240	Cu/Al cables	3VT9224-4TF00		1	1 unit	1CC	0.207
	Use with 3VT9203-4TF30 connection method, for 6 cables (1 set = 1 unit)	6 x 6 ... 35	Cu/Al cables	3VT9203-4TF00		1	1 unit	1CC	0.114

¹⁾ Use terminal cover 3VT9200-8CB30 to increase termination point protection to IP20.

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A


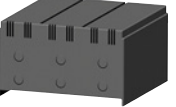



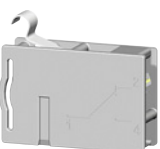


3VT2 switch disconnectors up to 250 A

Version	Conductor cross-sections mm ²	Connection type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
									
Box terminals for the 4th pole									
Use with 3VT9200-4TC30 connection method (1 set = 1 unit)	16 ... 150	Cu cables, flexibars		3VT9200-4TC00		1	1 unit	1CC	0.089

Further accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
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Phase barriers, covers, locking devices

	Phase barriers Included in scope of supply of switch disconnector If infeed is from below, the switch disconnectors must also be fitted on the sides of terminals 2, 4 and 6 with these phase barriers. • For 3-pole version, 2 units • For 4-pole version, 1 unit for use with 3VT9300-8CE30			3VT9300-8CE30 3VT9300-8CE00		1 1	1 unit 1 unit	1CC 1CC	0.096 0.044
	Terminal covers, degree of protection IP20 Increases degree of protection of termination point to IP20, e.g. when used with circular conductor terminals, intended for fixed mounting, plug-in and withdrawable versions • 3-pole version • 4-pole version			3VT9200-8CB30 3VT9200-8CB40		1 1	1 unit 1 unit	1CC 1CC	0.138 0.195
	Locking devices for toggle levers • Allows the switch disconnector to be locked in the "manual off" position. • Locking is by means of up to 3 padlocks with a diameter of 4 ... 6 mm.			3VT9200-3HL00		1	1 unit	1CC	0.022
	Sealing devices Sealing for: • Overcurrent releases • Accessory compartment covers • Terminal covers • Manual operating mechanisms • Motorized operating mechanisms			3VT9200-8BN00		1	2 units	1CC	0.005
	Connecting cables For connecting switch disconnector accessories for withdrawable versions (can also be used for plug-in and fixed-mounted versions)			3VT9300-4PL00		1	1 unit	1CC	0.166
	Position signaling switches For indicating the position of the switch disconnector in plug-in or withdrawable devices			3VT9300-4WL00		1	1 unit	1CC	0.405
	Coding sets Prevents use of the wrong switching unit in plug-in or withdrawable devices			3VT9200-4WN00		1	1 unit	1CC	0.014
	Covers for pushbuttons For motorized operating mechanisms; the cover may be equipped with a sealing device.			3VT9300-3MF20		1	1 unit	1CC	0.015

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A





3VT3 switch disconnectors up to 630 A

Selection and ordering data

Version	Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3VT3 switch disconnectors								
	3-pole	630	3VT3763-2DE36-0AA0		1	1 unit	1CC	5.412
	4-pole	630	3VT3763-2EE46-0AA0		1	1 unit	1CC	6.967

Accessories



Auxiliary switches and auxiliary releases

Rated operational voltage U_s V	Frequency Hz	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary switches and alarm switches								
With NO contact (1 NO)								
	60 ... 500 AC/DC	50/60	3VT9300-2AC10		1	1 unit	1CC	0.035
	5 ... 60 AC/DC	50/60	3VT9300-2AC20		1	1 unit	1CC	0.034
With NC contact (1 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AD10		1	1 unit	1CC	0.036
	5 ... 60 AC/DC	50/60	3VT9300-2AD20		1	1 unit	1CC	0.036
With double contact (2 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AE10		1	1 unit	1CC	0.050
	5 ... 60 AC/DC	50/60	3VT9300-2AE20		1	1 unit	1CC	0.050
With double contact (1 NO + 1 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AF10		1	1 unit	1CC	0.049
	5 ... 60 AC/DC	50/60	3VT9300-2AF20		1	1 unit	1CC	0.048
With double contact (2 NC)								
	60 ... 500 AC/DC	50/60	3VT9300-2AG10		1	1 unit	1CC	0.048
	5 ... 60 AC/DC	50/60	3VT9300-2AG20		1	1 unit	1CC	0.048
Changeover contact (1 CO)								
	60 ... 250 AC/DC	50/60	3VT9300-2AH10		1	1 unit	1CC	0.036
	5 ... 60 AC/DC	50/60	3VT9300-2AH20		1	1 unit	1CC	0.036
Leading contacts								
	250 AC	50/60	3VT9300-2AJ00		1	1 unit	1CC	0.086

Switch Disconnectors

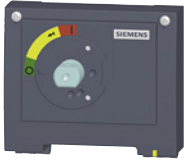




3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

	Rated operational voltage U_s	Frequency	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	V	Hz							
Shunt releases									
	12 DC	--		3VT9300-1SB00		1	1 unit	1CC	0.149
	24, 40, 48 AC/DC	50/60		3VT9300-1SC00		1	1 unit	1CC	0.149
	110 AC/DC	50/60		3VT9300-1SD00		1	1 unit	1CC	0.145
	230, 400, 500 AC/220 DC	50/60		3VT9300-1SE00		1	1 unit	1CC	0.152
Undervoltage releases									
	24, 40, 48 AC/DC	50/60		3VT9300-1UC00		1	1 unit	1CC	0.146
	110 AC/DC	50/60		3VT9300-1UD00		1	1 unit	1CC	0.145
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE00		1	1 unit	1CC	0.146
	With leading contact ¹⁾								
	24, 40, 48 AC/DC	50/60		3VT9300-1UC10		1	1 unit	1CC	0.155
110 AC/DC	50/60		3VT9300-1UD10		1	1 unit	1CC	0.159	
230, 400, 500 AC/220 DC	50/60		3VT9300-1UE10		1	1 unit	1CC	0.151	

¹⁾ Not suitable for 3VT9300-3M..0 motorized operating mechanism.

Manual operating mechanisms

	Version	Color	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms									
Manual rotary operating mechanisms									
	• Not lockable	Gray		3VT9300-3HA10		1	1 unit	1CC	0.308
	• Lockable with padlock	Gray		3VT9300-3HA20		1	1 unit	1CC	0.316
	• Lockable with padlock	Yellow label		3VT9300-3HB20		1	1 unit	1CC	0.316
	• For lateral operation, mounted on left side, not lockable	Gray		3VT9300-3HC10		1	1 unit	1CC	0.464
	• For lateral operation, mounted on right side, not lockable	Gray		3VT9300-3HD10		1	1 unit	1CC	0.466
	Handle for manual rotary operating mechanisms								
	• Not lockable	Black		3VT9300-3HE10		1	1 unit	1CC	0.080
	• Lockable with padlock	Black		3VT9300-3HE20		1	1 unit	1CC	0.080
	• Lockable with padlock	Red		3VT9300-3HF20		1	1 unit	1CC	0.080

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Version	Color	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Coupling drivers for door-coupling operating mechanism								
 <p>For use with black handle 3VT9300-3HE...</p> <ul style="list-style-type: none"> Degree of protection IP40 Degree of protection IP66 	Black		3VT9300-3HG10		1	1 unit	1CC	0.210
	Black		3VT9300-3HG20		1	1 unit	1CC	0.212
 <p>For use with red handle 3VT9300-3HF20</p> <ul style="list-style-type: none"> Degree of protection IP40 Degree of protection IP66 	Yellow		3VT9300-3HH10		1	1 unit	1CC	0.210
	Yellow		3VT9300-3HH20		1	1 unit	1CC	0.211
Coupling drivers for door-coupling operating mechanism, can be defeated								
 <p>For use with black handle 3VT9300-3HE..</p> <ul style="list-style-type: none"> Degree of protection IP40 	Black		3VT9300-3HG30		1	1 unit	1CC	0.223
	Black							
 <p>For use with red handle 3VT9300-3HF20</p> <ul style="list-style-type: none"> Degree of protection IP40 	Yellow		3VT9300-3HH30		1	1 unit	1CC	0.204
	Yellow							
Extension shafts								
 <ul style="list-style-type: none"> Length 365 mm, can be shortened 			3VT9300-3HJ10		1	1 unit	1CC	0.211
 <ul style="list-style-type: none"> Length 245 ... 410 mm, extendable 			3VT9300-3HJ20		1	1 unit	1CC	0.259





7

Switch Disconnectors


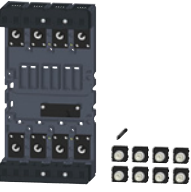
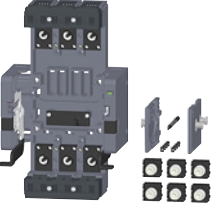
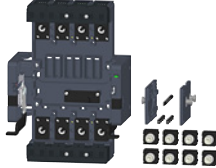
3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Motorized operating mechanisms

	Rated operational voltage U_s	Frequency (with AC)	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	V	Hz							
Motorized operating mechanism with stored energy mechanism									
	With locking mechanism for 3 padlocks, degree of protection IP00								
	24 V AC/DC	50/60		3VT9300-3MJ00		1	1 unit	1CC	1.695
	48 V AC/DC	50/60		3VT9300-3ML00		1	1 unit	1CC	1.725
	110 V AC/DC	50/60		3VT9300-3MN00		1	1 unit	1CC	1.718
	230 V AC/220 V DC	50/60		3VT9300-3MQ00		1	1 unit	1CC	1.711
	Motorized operat. mech. with operat. cycle counter								
	24 V AC/DC	50/60		3VT9300-3MJ10		1	1 unit	1CC	1.750
	48 V AC/DC	50/60		3VT9300-3ML10		1	1 unit	1CC	1.762
	110 V AC/DC	50/60		3VT9300-3MN10		1	1 unit	1CC	1.745
	230 V AC/220 V DC	50/60		3VT9300-3MQ10		1	1 unit	1CC	1.750
Accessories for motorized operating mechanisms									
	Operating cycle counter with cable Length 110 cm			3VT9300-3MF10		1	1 unit	1CC	0.003
		Extension cables for motorized operating mechanism 12 cables, length 60 cm			3VT9300-3MF00		1	1 unit	1CC

Mounting accessories




	Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Plug-in base assembly kits								
	3-pole		3VT9300-4PA30		1	1 unit	1CC	3.262
		4-pole		3VT9300-4PA40		1	1 unit	1CC
Withdrawable unit kit								
	3-pole		3VT9300-4WA30		1	1 unit	1CC	4.984
		4-pole		3VT9300-4WA40		1	1 unit	1CC

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Connection accessories


	Version	Conductor cross-sections mm ²	Connection type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Connection methods										
3-pole										
Front connecting bars										
	For increased pole spacing, short (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars		3VT9300-4ED30		1	1 unit	1CC	0.494
	For increased pole spacing, long (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars		3VT9300-4EE30		1	1 unit	1CC	0.651
	Front terminals Included in scope of supply of all switch disconnectors (1 set = 3 units)		Al/Cu busbars, cable lugs, flexibars		3VT9300-4TA30		1	1 unit	1CC	0.200
	Rear terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs		3VT9300-4RC30		1	1 unit	1CC	0.556
Multiple feed-in terminals¹⁾										
	For 1 cable (1 set = 3 units)	1 x 25 ... 150	Cu/Al cables		3VT9315-4TD30		1	1 unit	1CC	0.336
		1 x 150 ... 240	Cu/Al cables		3VT9324-4TD30		1	1 unit	1CC	0.306
	For 2 cables (1 set = 3 units)	2 x 25 ... 150	Cu/Al cables		3VT9315-4TF30		1	1 unit	1CC	0.906
		2 x 150 ... 240	Cu/Al cables		3VT9324-4TF30		1	1 unit	1CC	0.823
	For 6 cables (1 set = 3 units)	6 x 6 ... 35	Cu/Al cables		3VT9303-4TF30		1	1 unit	1CC	0.294
	Auxiliary conductor terminals (1 set = 3 units)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors		3VT9300-4TN30		1	1 unit	1CC	0.033
	Box terminals (1 set = 3 units)	35 ... 240	Cu cables, flexibars		3VT9300-4TC30		1	1 unit	1CC	0.444
4-pole										
Rear connections for the 4th pole										
	Use with 3VT9300-4RC30 connection method (1 set = 1 unit)	--	Al/Cu busbars, cable lugs		3VT9300-4RC00		1	1 unit	1CC	0.198
Multiple feed-in terminals for the 4th pole										
	Use with 3VT9315-4TD30 or 3VT9324-4TD30 connection method, for 1 cable (1 set = 1 unit)	1 x 25 ... 150	Cu/Al cables		3VT9315-4TD00		1	1 unit	1CC	0.117
		1 x 150 ... 240	Cu/Al cables		3VT9324-4TD00		1	1 unit	1CC	0.112
	Use with 3VT9315-4TF30 or 3VT9324-4TF30 connection method, for 2 cables (1 set = 1 unit)	2 x 25 ... 150	Cu/Al cables		3VT9315-4TF00		1	1 unit	1CC	0.306
		2 x 150 ... 240	Cu/Al cables		3VT9324-4TF00		1	1 unit	1CC	0.285
	Use with 3VT9303-4TF30 connection method, for 6 cables (1 set = 1 unit)	6 x 6 ... 35	Cu/Al cables		3VT9303-4TF00		1	1 unit	1CC	0.111

¹⁾ Use terminal cover 3VT9300-8CB30 to increase termination point protection to IP20.

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A


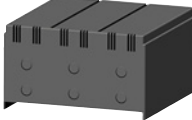


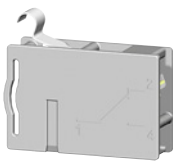

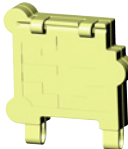
3VT3 switch disconnectors up to 630 A

Version	Conductor cross-sections mm ²	Connection type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	35 ... 240	Cu cables, flexibars		3VT9300-4TC00		1	1 unit	1CC	0.159

Box terminals for the 4th pole

Use with 3VT9300-4TC30 connection method (1 set = 1 unit)

Further accessories


Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
Phase barriers, covers, locking devices								
		Phase barriers Included in scope of supply of switch disconnector. If infixed is from below, the switch disconnectors must also be fitted on the sides of terminals 2, 4 and 6 with these phase barriers. • For 3-pole version, 2 units • For 4-pole version, 1 unit for use with 3VT9300-8CE30		3VT9300-8CE30 3VT9300-8CE00		1 1	1 unit 1 unit 1CC 1CC	0.096 0.044
		Terminal covers, degree of protection IP20 Increases degree of protection of termination point to IP20, e.g. when used with circular conductor terminals. Intended for fixed mounting, plug-in and draw-out versions. • 3-pole version • 4-pole version		3VT9300-8CB30 3VT9300-8CB40		1 1	1 unit 1 unit 1CC 1CC	0.216 0.279
		Locking devices for toggle levers • Allows the switch disconnector to be locked in the "manual off" position. • Locking is by means of up to 3 padlocks with a diameter of 4 ...6 mm.		3VT9300-3HL00		1	1 unit 1CC	0.026
		Sealing devices Sealing for: • Overcurrent releases • Accessory compartment covers • Terminal covers • Manual operating mechanisms • Motorized operating mechanisms		3VT9300-8BN00		1	2 units 1CC	0.008
		Connecting cables For connecting switch disconnector accessories for withdrawable versions (can also be used for plug-in and fixed-mounted versions)		3VT9300-4PL00		1	1 unit 1CC	0.166
		Position signaling switches For indicating the position of the switch disconnector in plug-in or withdrawable versions		3VT9300-4WL00		1	1 unit 1CC	0.405
		Coding sets Prevents use of the wrong switching unit in plug-in or withdrawable devices		3VT9300-4WN00		1	1 unit 1CC	0.015
		Covers for pushbuttons For motorized operating mechanisms; the cover may be equipped with a sealing device		3VT9300-3MF20		1	1 unit 1CC	0.015

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT4 switch disconnectors up to 1000 A

Selection and ordering data

Version	Rated uninterrupted current I_u	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		A						kg
3VT4 switch disconnectors								
	3-pole	1000	3VT4710-2DE36-0AA0		1	1 unit	1CC	20.546

For accessories, see "3VT5 Switch Disconnectors up to 1600 A" next page.

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A




3VT5 switch disconnectors up to 1600 A

Selection and ordering data

Version	Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3VT5 switch disconnectors								
 3-pole	1600		3VT5716-2DE36-0AA0		1	1 unit	1CC	23.751

Accessories

Auxiliary switches and auxiliary releases







Rated operational voltage U_e V	Frequency Hz	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary switches and alarm switches								
	2 x NC, 2 x NO							
	60 ... 500 AC / 60 ... 240 DC	50/60	3VT9500-2AF10		1	1 unit	1CC	0.065
	5 ... 60 AC/DC	50/60	3VT9500-2AF20		1	1 unit	1CC	0.065
Shunt releases								
	24 AC/DC	50/60	3VT9500-1SF00		1	1 unit	1CC	0.232
	48 AC/DC	50/60	3VT9500-1SG00		1	1 unit	1CC	0.228
	110 AC/DC	50/60	3VT9500-1SH00		1	1 unit	1CC	0.227
	230 AC/220 DC	50/60	3VT9500-1SJ00		1	1 unit	1CC	0.234
	400 AC	50/60	3VT9500-1SK00		1	1 unit	1CC	0.234
	500 AC	50/60	3VT9500-1SL00		1	1 unit	1CC	0.232
Undervoltage releases								
	24 AC/DC	50/60	3VT9500-1UF00		1	1 unit	1CC	0.242
	48 AC/DC	50/60	3VT9500-1UG00		1	1 unit	1CC	0.242
	110 AC/DC	50/60	3VT9500-1UH00		1	1 unit	1CC	0.243
	230 AC/220 DC	50/60	3VT9500-1UJ00		1	1 unit	1CC	0.243
	400 AC	50/60	3VT9500-1UK00		1	1 unit	1CC	0.245
	500 AC	50/60	3VT9500-1UL00		1	1 unit	1CC	0.242

Switch Disconnectors

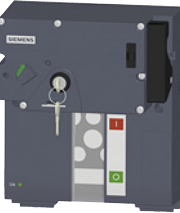
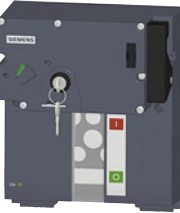
3VT Switch Disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Manual operating mechanisms

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms							
Manual rotary operating mechanisms							
 <ul style="list-style-type: none"> Lockable with padlock 	Gray	3VT9500-3HA10		1	1 unit	1CC	1.116
	Handle for manual rotary operating mechanisms						
 <ul style="list-style-type: none"> Lockable with padlock 	Black	3VT9500-3HE10		1	1 unit	1CC	0.289
	Red	3VT9500-3HF10		1	1 unit	1CC	0.294
Coupling drivers for door-coupling operating mechanism							
 <ul style="list-style-type: none"> Degree of protection IP44 		3VT9500-3HG10		1	1 unit	1CC	0.272
	<ul style="list-style-type: none"> Degree of protection IP66 		3VT9500-3HG20		1	1 unit	1CC
Extension shafts							
 <ul style="list-style-type: none"> Length 365 mm, can be shortened 		3VT9500-3HJ10		1	1 unit	1CC	0.361
Mechanical interlocks							
Mechanical interlocks							
 <ul style="list-style-type: none"> For manual operating mechanisms For switch disconnectors, fixed-mounted versions Both switch disconnectors must be equipped with at least one rotary operating mechanism and one handle. 		3VT9500-8LA00		1	1 unit	1CC	0.904
	Mechanical interlock by means of Bowden wire						
 <ul style="list-style-type: none"> For switch disconnectors, fixed-mounted versions 		3VT9500-8LC10		1	1 unit	1CC	2.843

Motorized operating mechanisms










Rated operational voltage U_s	Frequency	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
V	Hz							
Motorized operating mechanisms								
Motorized operating mechanisms								
	110 AC/DC	50/60	3VT9500-3MN00		1	1 unit	1CC	4.448
	230 V AC/220 DC	50/60	3VT9500-3MQ00		1	1 unit	1CC	4.454
Motorized operating mechanism with operating cycle counter								
	110 AC/DC	50/60	3VT9500-3MN10		1	1 unit	1CC	4.498
	230 V AC/220 DC	50/60	3VT9500-3MQ10		1	1 unit	1CC	4.462

Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Connection accessories

Version	Max. permissible cross-section S mm ²	Cable type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection methods									
	3-pole Box terminals, double	2 x 70 ... 240	Cu/Al cables	3VT9524-4TG30		1	1 unit	1CC	1.472
To connect 4 x 70 ... 240 mm ² cables, two 3VT9524-4TG30 can be used for each pole. 1 set = 3 units									
	Box terminals	70 ... 240 mm	Cu/Al cables	3VT9524-4TF30		1	1 unit	1CC	0.773
To connect 3 x 70 ... 240 mm ² cables per pole, it is possible to combine connection methods 3VT9524-4TG30 and 3VT9524-4TF30 with one another. 1 set = 3 units									
	Rear terminals		Busbars	3VT9400-4RC30		1	1 unit	1CC	1.441
• Up to 1000 A (1 set = 3 units)									
	Rear terminals		Busbars	3VT9500-4RC30		1	1 unit	1CC	2.690
• Up to 1600 A (1 set = 3 units)									
	Front terminals		Busbars	3VT9500-4EF30		1	1 unit	1CC	2.591
For withdrawable version (1 set = 3 units)									
	Rear terminals		Busbars	3VT9500-4RD30		1	1 unit	1CC	3.202
For withdrawable version (1 set = 3 units)									
Multiple feed-in terminals ^{1) 2)}									
	For 2 cables	150 ... 300	Cu/Al cables	3VT9532-4TF30		1	1 unit	1CC	1.048
(1 set = 3 units)									
	For 3 cables	150 ... 300	Cu/Al cables	3VT9533-4TF30		1	1 unit	1CC	1.936
(1 set = 3 units)									
	For 4 cables	150 ... 300	Cu/Al cables	3VT9534-4TF30		1	1 unit	1CC	1.830
(1 set = 3 units)									

¹⁾ It is necessary to use phase barriers or terminal covers (not included in the scope of supply).


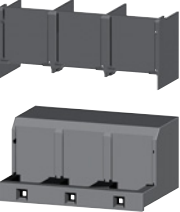





²⁾ Has auxiliary conductor terminals, 1.5 ... 6 mm².

Switch Disconnectors

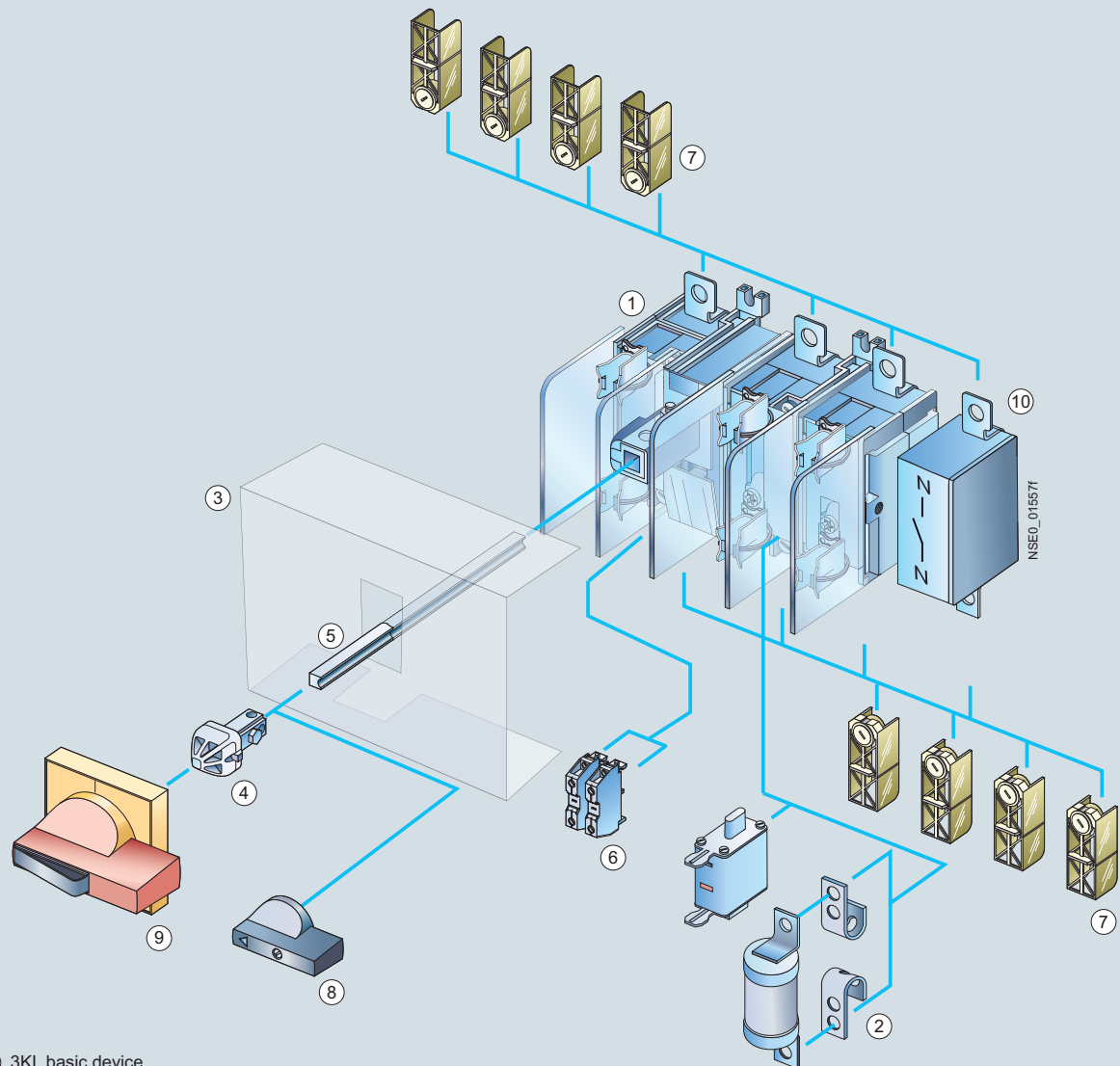
3VT Switch Disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Further accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Phase barriers, covers, locking devices							
 <p>Phase barriers If infeed is from below, the switch disconnectors must also be fitted on the sides of terminals 2, 4 and 6 with these phase barriers. Not included in scope of supply of switch disconnector.</p> <ul style="list-style-type: none"> • For fixed-mounted versions • For withdrawable versions 		3VT9500-8CE30 3VT9500-8CF30		1 1	1 unit 1 unit	1CC 1CC	0.260 0.242
 <p>Terminal covers Increases the degree of protection to IP20. To improve safety during maintenance of the switch disconnector, we recommend installation of a terminal cover on both sides of the withdrawable device.</p> <ul style="list-style-type: none"> • For fixed-mounted versions with rear terminals • For withdrawable versions with front terminals • For fixed-mounting versions with multiple feed-in terminal 		3VT9500-8CD30 3VT9500-8CC30 3VT9500-8CH30		1 1	1 unit 1 unit	1CC 1CC	0.369 0.220 0.730
 <p>Insulation seals Designed for fixed-mounted and withdrawable versions of switch disconnectors with rear terminals. The insulation seals are used to insulate the connection methods for rear connection of the switch-board. Use of the insulation seals is recommended for all connection methods with rear terminals.</p> <ul style="list-style-type: none"> • For rear terminals 		3VT9500-8CG30 3VT9500-3HL00		1 1	1 unit 1 unit	1CC 1CC	0.151 0.052
 <p>Locking devices for toggle levers</p> <ul style="list-style-type: none"> • Allows the switch disconnector to be locked in the "manual off" position. • Locking is by means of up to 3 padlocks with a diameter of 4 ... 6 mm. 							
 <p>Sealing devices Sealing for:</p> <ul style="list-style-type: none"> • Overcurrent releases • Accessory compartment covers 		3VT9500-8BN00		1	2 units	1CC	0.008
 <p>Fixing screws</p> <ul style="list-style-type: none"> • For withdrawable versions 		3VT9500-4SA40		1	1 unit	1CC	0.109
 <p>Covers for pushbuttons</p> <ul style="list-style-type: none"> • For motorized operating mechanism • The cover may be equipped with a sealing device 		3VT9500-3MF20		1	1 unit	1CC	0.030

Overview



- ① 3KL basic device
- ② Fuses, optionally BS 88 or LV HRC fuses
- ③ Terminal cover, IP20 (vertical to operator side)
- ④ Coupling driver
- ⑤ Extension shaft
- ⑥ Standard products from the Siemens 3SB1 range are used as auxiliary switches.

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

Optional

- ⑦ Single-pole terminal cover from 63 A to 630 A, IP20 (vertical to operator side)
- 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)
- ⑩ 4th pole (optional)

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 to the shaft with padlock against unauthorized reclosing.

Identical accessories for 3KA switch disconnectors and 3KL and 3KM switch disconnectors with fuses simplify stock keeping. Please inquire about a special version 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 control and EMERGENCY-STOP switches of switchboard assemblies, 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

3KL Switch Disconnectors with Fuses up to 800 A

Introduction

Technical specifications

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 according to DIN 43620, (when SITOR semiconductor fuses are used, a reduction of rated current is necessary, see reference to technical information at start of chapter)	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 withstand voltage U_{imp}	kV	6	8	8	8	8	8	8
Rated operational voltage U_e 50/60 Hz AC 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 50/60 Hz 690 V AC	kA	220	220	220	176	176	105	105
Rated conditional short-circuit current with fuses Rms value at 50/60 Hz 690 V AC	kA	100	100	100	80	80	50	50
Max. rated current I_n of the fuses	A	80	160	160	400	400	630 ⁴⁾	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
Max. permissible let-through I^2t value	kA ² s	55	223	223	1000	1000	5400	10500
Breaking capacity (inferred 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_o 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_o 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_o with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400	630 ⁶⁾	800 ⁶⁾
• 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_o for 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 Terminal screws	Nm	6 ... 7.5 M6	7 ... 10 M6	18 ... 22 M8	35 ... 45 M10	35 ... 45 M10	56 M12	56 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 switchboard 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




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	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
Size		Operational class						kg	
A									
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)									
3-pole for NH fuse systems									
63	00 and 000	gG, aM	3KL5030-1GB01		1	1 unit	1CL	1.469	
125	00 and 000	gG, aM	3KL5230-1GB01		1	1 unit	1CL	2.369	
160	00 and 000	gG, aM	3KL5330-1GB01		1	1 unit	1CL	2.500	
250	1 and 2	gG, aM	3KL5530-1GB01		1	1 unit	1CL	6.043	
400	2 and 1	gG, aM	3KL5730-1GB01		1	1 unit	1CL	6.248	
630	3 and 2	gG, aM	3KL6130-1GB00		1	1 unit	1CL	18.680	
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6130-1GB02		1	1 unit	1CL	16.207	
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6230-1GB02		1	1 unit	1CL	17.271	
4-pole for NH fuse systems									
63	00 and 000	gG, aM	3KL5040-1GB01		1	1 unit	1CL	2.578	
125	00 and 000	gG, aM	3KL5240-1GB01		1	1 unit	1CL	2.592	
160	00 and 000	gG, aM	3KL5340-1GB01		1	1 unit	1CL	2.733	
250	1 and 2	gG, aM	3KL5540-1GB01		1	1 unit	1CL	6.618	
400	2 and 1	gG, aM	3KL5740-1GB01		1	1 unit	1CL	6.836	
630	3 and 2	gG, aM	3KL6140-1GB00		1	1 unit	1CL	17.340	
3-pole for fuses acc. to BS 88									
63	Form A2/A3		3KL5030-1GG01		1	1 unit	1CL	1.391	
125	Form A2/A3		3KL5230-1GG01		1	1 unit	1CL	2.325	
125	Form A4		3KL5230-1GJ01		1	1 unit	1CL	2.351	
160	Form A4		3KL5330-1GJ01		1	1 unit	1CL	2.130	
250	Form B1-B3		3KL5530-1GG01		1	1 unit	1CL	4.500	
400	Form B1-B3		3KL5730-1GG01		1	1 unit	1CL	6.538	
630	Form C1-C3		3KL6130-1GG00		1	1 unit	1CL	17.880	
4-pole for fuses acc. to BS 88									
63	Form A2/A3		3KL5040-1GG01		1	1 unit	1CL	2.529	
125	Form A2/A3		3KL5240-1GG01		1	1 unit	1CL	2.522	
125	Form A4		3KL5240-1GJ01		1	1 unit	1CL	2.603	
160	Form A4		3KL5340-1GJ01		1	1 unit	1CL	2.749	
250	Form B1-B3		3KL5540-1GG01		1	1 unit	1CL	5.620	
400	Form B1-B3		3KL5740-1GG01		1	1 unit	1CL	7.090	
630	Form C1-C3		3KL6140-1GG00		1	1 unit	1CL	17.740	
Basic switch versions without handle									
3-pole for NH fuse systems									
	63	00 and 000	gG, aM	▶ 3KL5030-1AB01		1	1 unit	1CL	1.014
	125	00 and 000	gG, aM	▶ 3KL5230-1AB01		1	1 unit	1CL	1.965
	160	00 and 000	gG, aM	▶ 3KL5330-1AB01		1	1 unit	1CL	2.140
	250	1 and 2	gG, aM	▶ 3KL5530-1AB01		1	1 unit	1CL	5.344
	400	2 and 1	gG, aM	▶ 3KL5730-1AB01		1	1 unit	1CL	5.390
	630	3 and 2	gG, aM	3KL6130-1AB0		1	1 unit	1CL	17.640
	630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6130-1AB02		1	1 unit	1CL	14.720
	800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6230-1AB02		1	1 unit	1CL	16.120
3KL5230-1AB01									
4-pole for NH fuse systems									
	63	00 and 000	gG, aM	3KL5040-1AB01		1	1 unit	1CL	2.169
	125	00 and 000	gG, aM	3KL5240-1AB01		1	1 unit	1CL	2.187
	160	00 and 000	gG, aM	3KL5340-1AB01		1	1 unit	1CL	2.334
	250	1 and 2	gG, aM	3KL5540-1AB01		1	1 unit	1CL	5.577
	400	2 and 1	gG, aM	3KL5740-1AB01		1	1 unit	1CL	5.880
	630	3 and 2	gG, aM	3KL6140-1AB00		1	1 unit	1CL	16.520
3KL5240-1AB01									
3-pole for fuses acc. to BS 88									
	63	Form A2/A3		3KL5030-1AG01		1	1 unit	1CL	0.975
	125	Form A2/A3		3KL5230-1AG01		1	1 unit	1CL	1.939
	125	Form A4		3KL5230-1AJ01		1	1 unit	1CL	1.975
	160	Form A4		3KL5330-1AJ01		1	1 unit	1CL	2.170
	250	Form B1-B3		3KL5530-1AG01		1	1 unit	1CL	5.051
	400	Form B1-B3		3KL5730-1AG01		1	1 unit	1CL	5.666
	630	Form C1-C3		3KL6130-1AG00		1	1 unit	1CL	15.075
3KL5230-1AJ01									



Fuse monitoring through 5TT3170 safety monitor with a floating signaling contact 1 NO, see chapter "Fuse Systems"

Footnotes, see page 7/106.

Switch Disconnectors


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	Article No. www.siemens.com/product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Size	Operational class							
A									
4-pole for fuses acc. to BS 88									
 3KL5240-1AJ01 with fuses	63	Form A2/A3		3KL5040-1AG01		1	1 unit	1CL	2.075
	125	Form A2/A3		3KL5240-1AG01		1	1 unit	1CL	2.161
	125	Form A4		3KL5240-1AJ01		1	1 unit	1CL	2.230
	160	Form A4		3KL5340-1AJ01		1	1 unit	1CL	2.390
	250	Form B1-B3		3KL5540-1AG01		1	1 unit	1CL	5.624
	400	Form B1-B3		3KL5740-1AG01		1	1 unit	1CL	6.134
630	Form C1-C3		3KL6140-1AG00		1	1 unit	1CL	17.020	
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle									
3-pole for NH fuse systems									
 8UC7121-3BB10	63	00 and 000	gG, aM	8UC7121-3BB10		1	1 unit	1CL	0.355
	125	00 and 000	gG, aM	8UC7222-3BB20		1	1 unit	1CL	0.426
	160	00 and 000	gG, aM	8UC7222-3BB20		1	1 unit	1CL	0.426
	250	1 and 2	gG, aM	8UC7323-3BB30		1	1 unit	1CL	1.000
	400	2 and 1	gG, aM	8UC7323-3BB30		1	1 unit	1CL	1.000
	630	3 and 2	gG, aM	8UC7424-3BB44 +		1	1 unit	1CL	1.134
				8UC9253		1	1 unit	1CL	0.113
	800	3 and 2	gG, aM	8UC7424-3BB44 +		1	1 unit	1CL	1.134
				8UC9253		1	1 unit	1CL	0.113
	4-pole for NH fuse systems								
63	00 and 000	gG, aM	8UC7222-3BB20		1	1 unit	1CL	0.426	
125	00 and 000	gG, aM	8UC7222-3BB20		1	1 unit	1CL	0.426	
160	00 and 000	gG, aM	8UC7222-3BB20		1	1 unit	1CL	0.426	
250	1 and 2	gG, aM	8UC7323-3BB30		1	1 unit	1CL	1.000	
400	2 and 1	gG, aM	8UC7323-3BB30		1	1 unit	1CL	1.000	
630	3 and 2	gG, aM	8UC7424-3BB44 +		1	1 unit	1CL	1.134	
			8UC9253		1	1 unit	1CL	0.113	
3-pole for fuses acc. to BS 88									
63	Form A2/A3		8UC7121-3BB10		1	1 unit	1CL	0.355	
125	Form A2/A3		8UC7222-3BB20		1	1 unit	1CL	0.426	
125	Form A4		8UC7222-3BB20		1	1 unit	1CL	0.426	
160	Form A4		8UC7222-3BB20		1	1 unit	1CL	0.426	
250	Form B1-B3		8UC7323-3BB30		1	1 unit	1CL	1.000	
400	Form B1-B3		8UC7323-3BB30		1	1 unit	1CL	1.000	
630	Form C1-C3		8UC7424-3BB44 +		1	1 unit	1CL	1.134	
			8UC9253		1	1 unit	1CL	0.113	
800	Form C1-C3		8UC7424-3BB44 +		1	1 unit	1CL	1.134	
			8UC9253		1	1 unit	1CL	0.113	
4-pole for fuses acc. to BS 88									
63	Form A2/A3		8UC7222-3BB20		1	1 unit	1CL	0.426	
125	Form A2/A3		8UC7222-3BB20		1	1 unit	1CL	0.426	
125	Form A4		8UC7222-3BB20		1	1 unit	1CL	0.426	
160	Form A4		8UC7222-3BB20		1	1 unit	1CL	0.426	
250	Form B1-B3		8UC7323-3BB30		1	1 unit	1CL	1.000	
400	Form B1-B3		8UC7323-3BB30		1	1 unit	1CL	1.000	
630	Form C1-C3		8UC7424-3BB44 +		1	1 unit	1CL	1.134	
			8UC9253		1	1 unit	1CL	0.113	

Fuse monitoring through 5TT3170 safety monitor with a floating signaling contact 1 NO, [see chapter "Fuse Systems"](#).

Footnotes for page 7/105 and page 7/106:

- 1) Silver-plated fuse blades. Silver-plated isolating blades can be used if desired.
- 2) For the assignment of semiconductor fuses, [see page 7/111](#)
- 3) With SITOR 3NE fuse links us-approved.

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	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	Size	Operational class						kg
A								
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	3KX3516-3AA		1	1 unit	1CL	0.667
125	00	gG, aM	3KX3526-3AA		1	1 unit	1CL	0.840
160	00	gG, aM	3KX3536-3AA		1	1 unit	1CL	0.850
250	1 and 2	gG, aM	3KX3556-3AA		1	1 unit	1CL	1.700
400	2 and 1	gG, aM	3KX3556-3AA		1	1 unit	1CL	1.700
• EMERGENCY-STOP red handle								
63	00	gG, aM	3KX3516-3BA		1	1 unit	1CL	0.620
125	00	gG, aM	3KX3526-3BA		1	1 unit	1CL	0.800
160	00	gG, aM	3KX3536-3BA		1	1 unit	1CL	0.870
250	1 and 2	gG, aM	3KX3556-3BA		1	1 unit	1CL	1.690
400	2 and 1	gG, aM	3KX3556-3BA		1	1 unit	1CL	1.690

Fuse monitoring through 5TT3170 safety monitor with a floating signaling contact 1 NO, [see chapter "Fuse Systems"](#)

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





²⁾ For the assignment of semiconductor fuses, [see page 7/111](#)

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Selection and ordering data









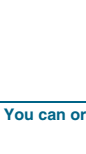
Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KL50 30							
 3KX3552-3DA01		Terminal covers For 3-pole devices (1 set = 6 units)	▶	3KX3552-3DA01	1	1 unit	1CL 0.080
 3KX35.7-3AA		Fuse covers (interlock only detachable in the OFF position)	▶	3KX3517-3AA	1	1 unit	1CL 0.045
		Cover IP20 For 3-pole devices	▶	3KX3507-0CA02	1	1 unit	1CL 0.504
		Fuse partitions (1 set = 5 units)	▶	3KX3507-0AA01	1	1 unit	1CL 0.045
 3KX3507-0BA01		Lyre-shaped fuse covers (1 set = 6 units)		3KX3507-0BA01	1	1 unit	1CL 0.040
		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC7111-1BB10	1	1 unit	1CL 0.354
		EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7121-3BB10	1	1 unit	1CL 0.355
		Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3516-1AA	1	1 unit	1CL 0.088
		Extension shaft 300 mm long		8UC6031	1	1 unit	1CL 0.068
		Extension shaft 600 mm long		8UC6081	1	1 unit	1CL 0.136
		Shaft connecting pieces		8UC6021	1	1 unit	1CL 0.027
		Auxiliary switches					
		1 NO + 1 NC		3SB1400-0A	1	1 unit	41J 0.019
		2 NO		3SB1400-0G	1	1 unit	41J 0.019
		2 NC		3SB1400-0H	1	1 unit	41J 0.020
 3SB1400-0A		Fuse monitor connections (1 set = 6 units)		3KX3505-0AA	1	1 unit	1CL 0.017

7

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Accessories





Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KL5040/3KL52/3KL53							
 3KL52 3KL3552-3DA01	▶	Terminal covers For 3-pole devices (1 set = 6 units)					
		• 3KL52	▶ 3KX3552-3DA01		1	1 unit	1CL
 3KL53 3KL3553-3DA01	▶	• 3KL53	▶ 3KX3553-3DA01		1	1 unit	0.150
		For 4-pole devices (1 set = 8 units)					
 3KL5040, 3KL52 3KL3552-3DB01	▶	• 3KL5040, 3KL52	▶ 3KX3552-3DB01		1	1 unit	0.100
		• 3KL53	▶ 3KX3553-3DB01		1	1 unit	1CL
 3KL52 3KL3527-3AA	▶	Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶ 3KX3527-3AA		1	1 unit	0.074
 3KL52 3-pole devices 3KX3527-0CA02	▶	Cover IP20	▶ 3KX3527-0CA02		1	1 unit	0.725
 3KL53 3-pole devices 3KX3537-0CA02	▶	Cover IP20	▶ 3KX3537-0CA02		1	1 unit	0.755
 3KL507-0AA01	▶	Fuse partitions (1 set = 5 units)	▶ 3KX3507-0AA01		1	1 unit	0.045
 3KL507-0BA01	▶	Lyre-shaped fuse covers (1 set = 6 units)	▶ 3KX3507-0BA01		1	1 unit	0.040
 3KL507-0BB20	▶	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	▶ 8UC7212-1BB20		1	1 unit	0.424
		EMERGENCY-STOP (yellow/red), shaft 300 mm	▶ 8UC7222-3BB20		1	1 unit	1CL
 3KL507-1AA	▶	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶ 3KX3536-1AA		1	1 unit	0.144
 3KL507-0BB20	▶	Extension shaft 300 mm long	▶ 8UC6032		1	1 unit	0.135
 3KL507-0BB20	▶	Extension shaft 600 mm long	▶ 8UC6082		1	1 unit	0.265
 3KL507-0BB20	▶	Shaft connecting pieces	▶ 8UC6022		1	1 unit	0.022
 3SB1400-0A	▶	Auxiliary switches					
		1 NO + 1 NC	▶ 3SB1400-0A		1	1 unit	41J
 3SB1400-0A	▶	2 NO	▶ 3SB1400-0G		1	1 unit	0.019
		2 NC	▶ 3SB1400-0H		1	1 unit	41J
 3KL507-0BB20	▶	1 NO + 1 NC, 20 ms leading	▶ 3KX3552-3EA01		1	1 unit	0.022
 3KL507-0BB20	▶	Fuse monitor connections (1 set = 6 units)	▶ 3KX3505-0AA		1	1 unit	0.017

¹⁾ For 3KX3527-3AA: Not suitable for use with type A4 BS fuses.

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
3KL55/3KL57								
 <p>3KX35.7-3AA</p>  <p>3KX3176-1E</p>  <p>3SB1400-0A</p>	Terminal covers For 3-pole devices (1 set = 6 units) ▶ For 4-pole devices (1 set = 8 units) ▶	3KX3557-3DA01 3KX3557-3DB01		1 1	1 unit 1 unit	1CL 1CL	0.293 0.431	
	Fuse covers (interlock only detachable in the OFF position) ▶	3KX3557-3AA		1	1 unit	1CL	0.220	
	Cover IP20 For 3-pole devices ▶	3KX3557-0CA02		1	1 unit	1CL	0.850	
	Fuse partitions (1 set = 5 units) ▶	3KX3557-0AA01		1	1 unit	1CL	0.163	
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC7313-1BB30 8UC7323-3BB30		1 1	1 unit 1 unit	1CL 1CL	1.001 1.000	
	Operating mechanisms for fixed mounting, size 3 ▶ Black handle, shaft 250 mm	3KX3176-1E		1	1 unit	1CL	0.287	
	Extension shaft 300 mm long	8UC6033		1	1 unit	1CL	0.215	
	Extension shaft 600 mm long	8UC6083		1	1 unit	1CL	0.424	
	Shaft connecting pieces	8UC6023		1	1 unit	1CL	0.084	
	Auxiliary switches 1 NO + 1 NC 2 NO 2 NC 1 NO + 1 NC, 20 ms leading	3SB1400-0A 3SB1400-0G 3SB1400-0H 3KX3552-3EA01		1 1 1 1	1 unit 1 unit 1 unit 1 unit	41J 41J 41J 1CL	0.019 0.019 0.020 0.022	
	Fuse monitor connections (1 set = 6 units)	3KX3505-0AA		1	1 unit	1CL	0.017	
	3KL61/3KL62							
	 <p>8UC9253</p>	Terminal covers For 3-pole devices (1 set = 6 units) ▶ For 4-pole devices (1 set = 8 units) ▶	3KX3561-3DA01 3KX3561-3DB01		1 1	1 unit 1 unit	1CL 1CL	0.290 0.380
		Fuse covers Cover plate Complete covers ¹⁾	3KX3561-0AA00 3KX3561-1AA00		1 1	1 unit 1 unit	1CL 1CL	0.387 0.385
Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7414-1BB44 + 8UC9253 8UC7424-3BB44 + 8UC9253		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL	1.204 0.113 1.134 0.113	
Operating mechanisms for fixed mounting, size 5 ▶ Black handle, shaft 250 mm		3KX3616-1A		1	1 unit	1CL	0.500	
Extension shaft 300 mm long		8UC6034		1	1 unit	1CL	0.316	
Extension shaft 600 mm long		8UC6084		1	1 unit	1CL	0.628	
Shaft connecting pieces		8UC6024		1	1 unit	1CL	0.078	
Auxiliary switches ²⁾ 1 NO + 1 NC		3KX3612-1B		1	1 unit	1CL	0.134	

¹⁾ Only for NH fuse systems.

²⁾ For more 3SB3400-0 contact blocks with other contact types, see Catalog IC 10, chapter "Commanding and Signaling Devices".

Overview

The 3KL switch disconnectors with fuses are suitable for all fuses in LV HRC design, see chapter "Fuse Systems". SITOR semiconductor fuses in LV HRC design can also be used, although it must be noted that, compared to cable and line protection fuses, these get much hotter during operation. For this reason,

the fuse must be operated below the rated current I_n of the device (derating) when installed in a closed switching device.

The following table shows the permissible load currents of the SITOR semiconductor fuses for installation in 3KL. The values were determined using the conductor cross-sections specified in the table.

SITOR semiconductor fuses for 3KL fuse switch disconnectors: Assignment table

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in 3KL for floor mounting					
Type ^{1) 2)}	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KL			Alternative type – 3KL		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ⁴⁾
	A	V AC						A			A
3NC423..	150	500	gR	3	70	3KL61	3	145	3KL62	3	150
3NC425..	200	500	gR	3	95	3KL61	3	180	3KL62	3	190
3NC427..	250	500	gR	3	120	3KL61	3	225	3KL62	3	240
3NC428..	300	500	gR	3	185	3KL61	3	255	3KL62	3	270
3NC431..	350	500	gR	3	240	3KL61	3	330	3KL62	3	345
3NC432..	400	500	aR	3	240	3KL61	3	400	3KL62	3	400
3NC3336-1	630	1000	aR	3	2x (40x5)	3KL62	3	500	3KL61	3	480
3NC3337-1	710	1000	aR	3	2x (50x5)	3KL62	3	540	--	--	--
3NC3338-1	800	1000	aR	3	2x (40x8)	3KL62	3	600	--	--	--
3NC3340-1	900	1000	aR	3	2x (40x8)	3KL62	3	650	--	--	--
3NC3341-1	1000	1000	aR	3	2x (50x8)	3KL62	3	720	--	--	--
3NC3342-1	1100	800	aR	3	2x (50x8)	3KL62	3	800	--	--	--
3NC3343-1	1250	800	aR	3	2x (50x8)	3KL62	3	800	--	--	--
3NC3430-1	315	1250	aR	3	2x95	3KL61	3	285	3KL62	3	300
3NC3432-1	400	1250	aR	3	2x120	3KL61	3	365	3KL62	3	380
3NC3434-1	500	1250	aR	3	2x150	3KL61	3	425	3KL62	3	450
3NC3436-1	630	1250	aR	3	2x (40x5)	3KL61	3	500	3KL62	3	540
3NC3438-1	800	1100	aR	3	2x (40x8)	3KL62	3	650	--	--	--
3NC8423..	150	660	gR	3	70	3KL61	3	135	3KL62	3	140
3NC8425..	200	660	gR	3	95	3KL61	3	180	3KL62	3	190
3NC8427..	250	660	gR	3	120	3KL61	3	225	3KL62	3	240
3NC8431..	350	660	gR	3	240	3KL61	3	300	3KL62	3	315
3NC8434..	500	660	gR	3	2x 150	3KL61	3	425	3KL62	3	450
3NC8444..	1000	600	aR	3	2x (60x6)	3KL62	3	800	3KL61	3	630
3NE1020-2	80	690	gR	00	25	3KL52	00	80	3KL53	00	80
3NE1021-0	100	690	gS	00	35	3KL52	00	100	3KL53	00	100
3NE1021-2	100	690	gR	00	35	3KL52	00	100	3KL53	00	100
3NE1022-0	125	690	gS	00	50	3KL52	00	125	3KL53	00	125
3NE1022-2	125	690	gR	00	50	3KL52	00	125	3KL53	00	125
3NE1224-0	160	690	gS	1	70	3KL55	1	160	3KL57	2	160
3NE1224-2/-3	160	690	gR	1	70	3KL55	1	160	3KL57	2	160
3NE1225-0	200	690	gS	1	95	3KL55	1	200	3KL57	2	200
3NE1225-2/-3	200	690	gR	1	95	3KL55	1	200	3KL57	2	200
3NE1227-0	250	690	gS	1	120	3KL55	1	250	3KL57	2	250
3NE1227-2/-3	250	690	gR	1	120	3KL55	1	245	3KL57	2	250
3NE1230-0	315	690	gS	1	2x 70	3KL57	2	315	--	--	--
3NE1230-2/-3	315	690	gR	1	2x 70	3KL57	2	280	--	--	--
3NE1331-0	350	690	gS	2	2x 95	3KL57	2	330	3KL61	3	350
3NE1331-2/-3	350	690	gR	2	2x 95	3KL57	2	300	3KL61	3	350
3NE1332-0	400	690	gS	2	2x 95	3KL57	2	375	3KL61	3	400
3NE1332-2/-3	400	690	gR	2	2x 95	3KL57	2	340	3KL61	3	400
3NE1333-0	450	690	gS	2	2x 120	3KL61	3	450	3KL62	3	450
3NE1333-2/-3	450	690	gR	2	2x 120	3KL61	3	450	3KL62	3	450
3NE1334-0	500	690	gS	2	2x 120	3KL61	3	500	3KL62	3	500
3NE1334-2/-3	500	690	gR	2	2x 120	3KL61	3	500	3KL62	3	500
3NE1435-0	560	690	gS	3	2x 150	3KL61	3	560	3KL62	3	560
3NE1435-2/-3	560	690	gR	3	2x 150	3KL61	3	560	3KL62	3	560
3NE1436-0	630	690	gS	3	2x 185	3KL61	3	630	3KL62	3	630

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Fuses

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in 3KL for floor mounting					
Type ^{1) 2)}	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KL			Alternative type – 3KL		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ⁴⁾ A
	A	V AC									
3NE1436-2/-3	630	690	gR	3	2x 185	3KL61	3	615	3KL62	3	630
3NE1437-0	710	690	gS	3	2x (40x5)	3KL61	3	630	3KL62	3	710
3NE1437-1	710	600	gR	3	2x (40x5)	3KL61	3	630	3KL62	3	710
3NE1437-2/-3	710	690	gR	3	2x (40x5)	3KL61	3	630	3KL62	3	700
3NE1438-0	800	690	gS	3	2x (50x5)	3KL61	3	630	3KL62	3	800
3NE1438-1	800	600	gR	3	2x (50x5)	3KL61	3	630	3KL62	3	800
3NE1438-2/-3	800	690	gR	3	2x (50x5)	3KL61	3	630	3KL62	3	760
3NE1447-2/-3	670	690	gR	3	2x (40x5)	3KL61	3	630	3KL62	3	670
3NE1448-2/-3	850	690	gR	3	2x (40x8)	3KL61	3	630	3KL62	3	790
3NE1802-0	40	690	gS	000	10	3KL50	00	40	3KL52	00	40
3NE1803-0	35	690	gS	000	6	3KL50	00	35	3KL52	00	35
3NE1813-0	16	690	gS	000	1.5	3KL50	00	16	3KL52	00	16
3NE1814-0	20	690	gS	000	2.5	3KL50	00	20	3KL52	00	20
3NE1815-0	25	690	gS	000	4	3KL50	00	25	3KL52	00	25
3NE1817-0	50	690	gS	000	10	3KL50	00	50	3KL52	00	50
3NE1818-0	63	690	gS	000	16	3KL50	00	63	3KL52	00	63
3NE1820-0	80	690	gS	000	25	3KL52	00	80	--	--	--
3NE3221	100	1000	aR	1	35	3KL55	1	90	3KL57	2	95
3NE3222	125	1000	aR	1	50	3KL55	1	110	3KL57	2	115
3NE3224	160	1000	aR	1	70	3KL55	1	140	3KL57	2	150
3NE3225	200	1000	aR	1	95	3KL55	1	175	3KL57	2	180
3NE3227	250	1000	aR	1	120	3KL55	1	210	3KL57	2	220
3NE3230-0B	315	1000	aR	1	185	3KL57	2	240	--	--	--
3NE3231	350	1000	aR	1	240	3KL57	2	265	--	--	--
3NE3232-0B	400	1000	aR	1	240	3KL57	2	290	--	--	--
3NE3233	450	1000	aR	1	2x 150	3KL57	2	320	--	--	--
3NE3332-0B	400	1000	aR	2	240	3KL61	3	340	3KL62	3	360
3NE3333	450	1000	aR	2	2x 150	3KL61	3	380	3KL62	3	400
3NE3334-0B	500	1000	aR	2	2x 150	3KL61	3	440	3KL62	3	470
3NE3335	560	1000	aR	2	2x 185	3KL61	3	500	3KL62	3	530
3NE3336	630	1000	aR	2	2x 185	3KL61	3	540	3KL62	3	580
3NE3337-8	710	900	aR	2	2x (40x5)	3KL61	3	600	3KL62	3	640
3NE3338-8	800	800	aR	2	2x 240	3KL61	3	630	3KL62	3	720
3NE3340-8	900	690	aR	2	2x (40x8)	3KL61	3	630	3KL62	3	800
3NE4101	32	1000	gR	0	6	3KL55	1	32	--	--	--
3NE4102	40	1000	gR	0	10	3KL55	1	40	--	--	--
3NE4117	50	1000	gR	0	10	3KL55	1	50	--	--	--
3NE4118	63	1000	aR	0	16	3KL55	1	63	--	--	--
3NE4120	80	1000	aR	0	25	3KL55	1	80	--	--	--
3NE4121	100	1000	aR	0	35	3KL55	1	95	--	--	--
3NE4122	125	1000	aR	0	50	3KL55	1	120	--	--	--
3NE4124	160	1000	aR	0	70	3KL55	1	150	--	--	--
3NE4327-0B	250	800	aR	2	150	3KL57	2	175	3KL61	3	200
3NE4330-0B	315	800	aR	2	240	3KL57	2	230	3KL61	3	260
3NE4333-0B	450	800	aR	2	2x (30x5)	3KL57	2	340	3KL61	3	370
3NE4334-0B	500	800	aR	2	2x (30x5)	3KL61	3	425	3KL62	3	450
3NE4337	710	800	aR	2	2x (50x5)	3KL61	3	600	3KL62	3	630
3NE8015-1	25	690	gR	00	4	3KL50	00	25	3KL52	00	25
3NE8003-1	35	690	gR	00	6	3KL50	00	33	3KL52	00	35
3NE8017-1	50	690	gR	00	10	3KL50	00	45	3KL52	00	50
3NE8018-1	63	690	gR	00	16	3KL50	00	54	3KL52	00	60
3NE8020-1	80	690	aR	00	25	3KL52	00	68	--	--	--
3NE8021-1	100	690	aR	00	35	3KL52	00	89	--	--	--
3NE8022-1	125	690	aR	00	50	3KL52	00	106	--	--	--
3NE8024-1	160	690	aR	00	70	3KL52	00	130 ⁵⁾	--	--	--

¹⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE41 semiconductor fuses should only be switched occasionally and only at zero current.

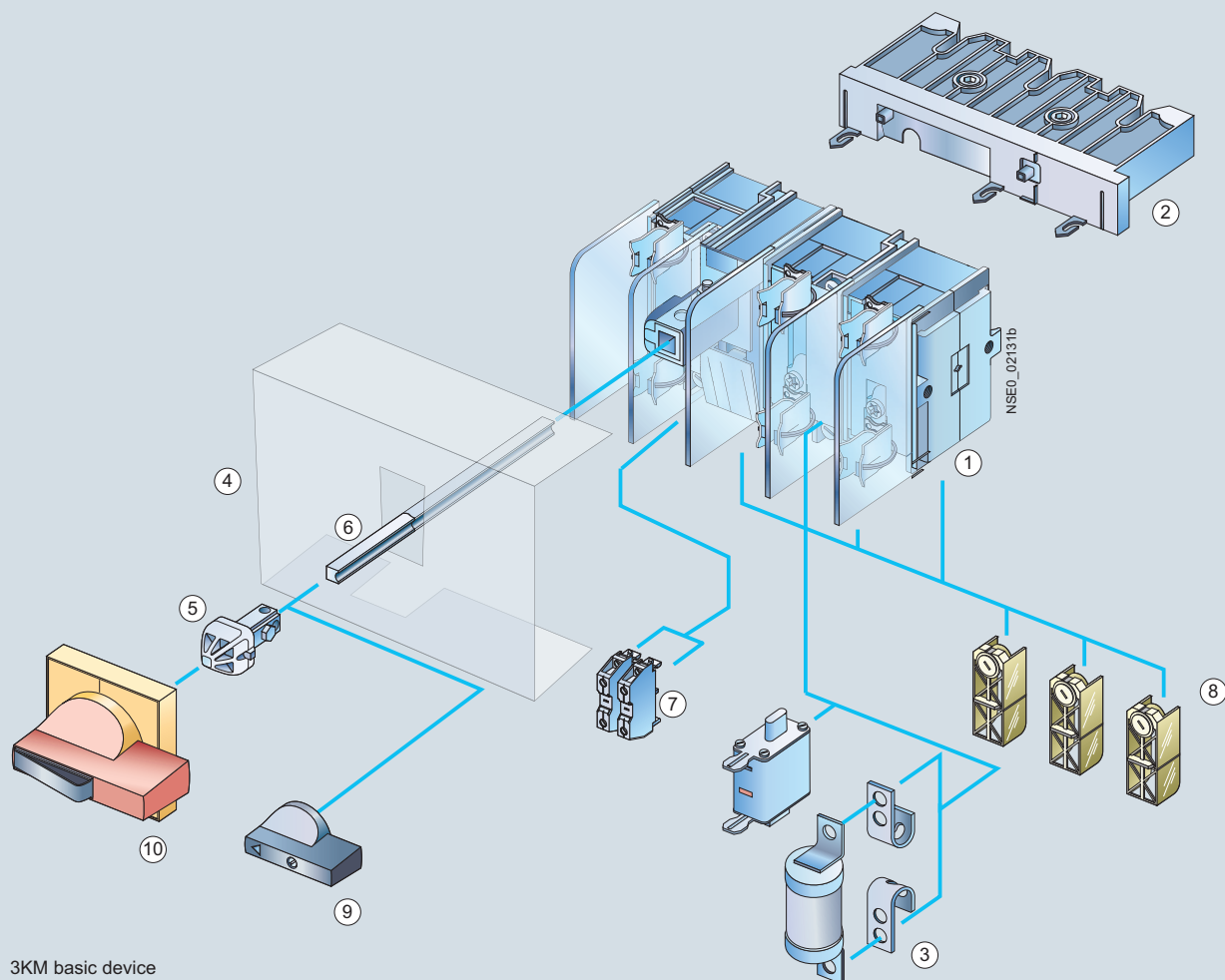
²⁾ Permissible load currents for 3NE8...-0MK
see Configuration Manual "Fuse Systems", or on request

³⁾ Fuses with a rated voltage of > 690 V may only be operated at max. 690 V (rated voltage of the 3KL) when installed in 3KL.

⁴⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

⁵⁾ The fuse can also be operated at a higher rated uninterrupted current than the 125 A current of the 3KL52. However, in this case, the 3KL52 must not be switched under load (utilization category AC-20)

Overview



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

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

Optional

- ⑧ Single-pole terminal cover from 63 A to 630 A, IP20 (vertical to operator side)
- ⑨ 8UC9 knob for fixed mounting in standard version (black) or EMERGENCY-STOP version (red), or
- ⑩ 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 to the shaft with padlock against 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

3KM switch disconnectors with fuses protect against overload and short-circuits as main control and EMERGENCY-STOP switches of switchboard assemblies, distribution boards, power supply and motor outgoing feeders. In conjunction with 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

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

Introduction

Technical specifications

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 according to DIN 43620, (when SITOR semiconductor fuses are used, a reduction of rated current is necessary, see reference to technical information at start of chapter)	A	63	125	160	250	400
	Size	00 and 000	00 and 000	00 and 000	1 and 2	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 withstand voltage U_{imp}	kV	6	8	8	8	8
Rated operational voltage U_e 50/60 Hz AC DC	V	690				
	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 50/60 Hz 690 V AC)	kA	220	220	220	176	176
Rated conditional short-circuit current with fuses At 50/60 Hz 690 V AC (rms value)	kA	100	100	100	80	80
	Max. rated current I_n of the fuses	A	80	160	160	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
Breaking capacity (inferred 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 for 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						
Busbar systems, 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
Busbar systems, 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	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 $L/R = 1$ ms.

⁵⁾ At 440 V DC-22A, at 220 V DC-23A.

⁶⁾ 3ND1 switching device protection fuse.

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	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Size	Operational class							
A									kg
Complete versions with 8UC7 door-coupling rotary operating mechanisms									
3-pole for NH fuse systems									
• (black handle)									
63	00 and 000	gG, aM		3KM5030-1GB01		1	1 unit	1CL	1.855
125	00 and 000	gG, aM		3KM5230-1GB01		1	1 unit	1CL	2.796
160	00 and 000	gG, aM		3KM5330-1GB01		1	1 unit	1CL	2.857
250	1 and 2	gG, aM		3KM5530-1GB01		1	1 unit	1CL	6.528
400	2 and 1	gG, aM		3KM5730-1GB01		1	1 unit	1CL	5.921
3-pole for fuses acc. to BS 88									
• Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)									
125	Form A2/A3			3KM5230-1GG01		1	1 unit	1CL	2.747
125	Form A4			3KM5230-1GJ01		1	1 unit	1CL	2.821
160	Form A4			3KM5330-1GJ01		1	1 unit	1CL	2.933
250	Form B1-B3			3KM5530-1GG01		1	1 unit	1CL	6.571
400	Form B1-B3			3KM5730-1GG01		1	1 unit	1CL	7.110
Basic switch versions without handle									
3-pole for NH fuse systems									
63	00 and 000	gG, aM		3KM5030-1AB01		1	1 unit	1CL	1.507
125	00 and 000	gG, aM		3KM5230-1AB01		1	1 unit	1CL	2.415
160	00 and 000	gG, aM		3KM5330-1AB01		1	1 unit	1CL	2.600
250	1 and 2	gG, aM		3KM5530-1AB01		1	1 unit	1CL	5.598
400	2 and 1	gG, aM		3KM5730-1AB01		1	1 unit	1CL	5.894
3-pole for fuses acc. to BS 88									
63	Form A2/A3			3KM5030-1AG01		1	1 unit	1CL	1.450
125	Form A2/A3			3KM5230-1AG01		1	1 unit	1CL	2.340
125	Form A4			3KM5230-1AJ01		1	1 unit	1CL	2.400
160	Form A4			3KM5330-1AJ01		1	1 unit	1CL	2.507
250	Form B1-B3			3KM5530-1AG01		1	1 unit	1CL	5.689
400	Form B1-B3			3KM5730-1AG01		1	1 unit	1CL	6.250
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		8UC7121-3BB10		1	1 unit	1CL	0.355
125	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL	0.426
160	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL	0.426
250	1 and 2	gG, aM		8UC7323-3BB30		1	1 unit	1CL	1.000
400	2 and 1	gG, aM		8UC7323-3BB30		1	1 unit	1CL	1.000
• 8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate)									
63	Form A2/A3			8UC7121-3BB10		1	1 unit	1CL	0.355
125	Form A2/A3			8UC7222-3BB20		1	1 unit	1CL	0.426
125	Form A4			8UC7222-3BB20		1	1 unit	1CL	0.426
160	Form A4			8UC7222-3BB20		1	1 unit	1CL	0.426
250	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL	1.000
400	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL	1.000



3KM5330-1AB01 with fuses



3KM5530-1AG01 with fuses



8UC7121-3BB10

Fuse monitoring through 5TT3 170 safety monitor with a floating signaling contact 1 NO, see chapter "Fuse Systems"

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






²⁾ For assignment of semiconductor fuses, see page 7/118

Switch Disconnectors




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

Accessories

Selection and ordering data

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KM50							
 3KX35.7-3AA		Terminal covers For 3-pole devices (1 set = 6 units)	▶	3KX3552-3DA01	1	1 unit	1CL 0.080
		Fuse covers (interlock only detachable in the OFF position)	▶	3KX3517-3AA	1	1 unit	1CL 0.045
 3KX3507-0BA01		Fuse partitions (1 set = 5 units)	▶	3KX3507-0AA01	1	1 unit	1CL 0.045
		Lyre-shaped fuse covers (1 set = 6 units)	▶	3KX3507-0BA01	1	1 unit	1CL 0.040
 3SB1400-0A		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC7111-1BB10	1	1 unit	1CL 0.354
		EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7121-3BB10	1	1 unit	1CL 0.355
		Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3516-1AA	1	1 unit	1CL 0.088
		Extension shaft 300 mm long		8UC6031	1	1 unit	1CL 0.068
		Extension shaft 600 mm long		8UC6081	1	1 unit	1CL 0.136
		Shaft connecting pieces		8UC6021	1	1 unit	1CL 0.027
		Auxiliary switches 1 NO + 1 NC		3SB1400-0A	1	1 unit	41J 0.019
		2 NO		3SB1400-0G	1	1 unit	41J 0.019
		2 NC		3SB1400-0H	1	1 unit	41J 0.020
		Fuse monitor connections (1 set = 6 units)		3KX3505-0AA	1	1 unit	1CL 0.017
3KM52/3KM53							
 3KX35.7-3AA		Terminal covers For 3-pole devices (1 set = 6 units)	3KM52 ▶ 3KM53 ▶	3KX3552-3DA01 3KX3553-3DA01	1 1	1 unit 1 unit	1CL 0.080 1CL 0.150
		Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶	3KX3527-3AA	1	1 unit	1CL 0.074
 3KX3507-0BA01		Fuse partitions (1 set = 5 units)	▶	3KX3507-0AA01	1	1 unit	1CL 0.045
		Lyre-shaped fuse covers (1 set = 6 units)	▶	3KX3507-0BA01	1	1 unit	1CL 0.040
		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC7212-1BB20	1	1 unit	1CL 0.424
		EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7222-3BB20	1	1 unit	1CL 0.426
		Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3536-1AA	1	1 unit	1CL 0.144

¹⁾ For 3KX3527-3AA: Not suitable for use with type A4 BS fuses.

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 3SB1400-0A		Extension shaft 300 mm long			1	1 unit	1CL 0.135
		Extension shaft 600 mm long			1	1 unit	1CL 0.265
		Shaft connecting pieces			1	1 unit	1CL 0.022
		Auxiliary switches					
		1 NO + 1 NC			1	1 unit	41J 0.019
		2 NO			1	1 unit	41J 0.019
		2 NC			1	1 unit	41J 0.020
		20 ms leading, 1 NO + 1 NC			1	1 unit	1CL 0.022
		Fuse monitor connections (1 set = 6 units)			1	1 unit	1CL 0.017
3KM55/3KM57							
 3KX35.7-3AA		Terminal covers For 3-pole devices (1 set = 6 units) For 4-pole devices (1 set = 8 units)			1	1 unit	1CL 0.293
					1	1 unit	1CL 0.431
		Fuse covers (interlock only detachable in the OFF position)			1	1 unit	1CL 0.220
 3KX3557-0AA01		Fuse partitions (1 set = 5 units)			1	1 unit	1CL 0.163
		Door-coupling rotary operating mechanisms IP65					
		Black handle, shaft 300 mm			1	1 unit	1CL 1.001
		EMERGENCY-STOP (yellow/red), shaft 300 mm			1	1 unit	1CL 1.000
 3KX3176-1E		Operating mechanisms for fixed mounting, size 3 Black handle, shaft 250 mm			1	1 unit	1CL 0.287
		Extension shaft 300 mm long			1	1 unit	1CL 0.215
		Extension shaft 600 mm long			1	1 unit	1CL 0.424
		Shaft connecting pieces			1	1 unit	1CL 0.084
		Auxiliary switches					
		1 NO + 1 NC			1	1 unit	41J 0.019
		2 NO			1	1 unit	41J 0.019
		2 NC			1	1 unit	41J 0.020
		20 ms leading, 1 NO + 2 NC			1	1 unit	1CL 0.022
 3SB1400-0A		Fuse monitor connections (1 set = 6 units)			1	1 unit	1CL 0.017

Switch Disconnectors

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

Fuses

Overview

The 3KM switch disconnectors with fuses are suitable for all fuses in LV HRC design, see chapter "Fuse Systems".

SITOR semiconductor fuses in LV HRC design can also be used, although it must be noted that, compared to cable and line protection fuses, these get much hotter during operation. For this reason, the fuse must be operated below the rated current I_n of the device (derating) when installed in a closed switching device.

The following table shows the permissible load currents of the SITOR semiconductor fuses for installation in 3KM. The values were determined using the conductor cross-sections specified in the table.

Note

If using smaller cross-sections, a considerably higher derating is required due to the lower heat dissipation.

SITOR semiconductor fuses for 3KM fuse switch disconnectors: Assignment table

SITOR semiconductor fuse data						Permissible rated currents of fuse when installed in 3KM for busbar mounting					
Type ¹⁾²⁾	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm^2	Type 3KM			Alternative type 3KM		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ⁴⁾
	A	V AC					A			A	
3NE1020-2	80	690	gR	00	25	3KM52	00	80	3KM53	00	80
3NE1021-0	100	690	gS	00	35	3KM52	00	100	3KM53	00	100
3NE1021-2	100	690	gR	00	35	3KM52	00	100	3KM53	00	100
3NE1022-0	125	690	gS	00	50	3KM52	00	125	3KM53	00	125
3NE1022-2	125	690	gR	00	50	3KM52	00	125	3KM53	00	125
3NE1224-0	160	690	gS	1	70	3KM55	1	160	3KM57	2	160
3NE1224-2/-3	160	690	gR	1	70	3KM55	1	160	3KM57	2	160
3NE1225-0	200	690	gS	1	95	3KM55	1	200	3KM57	2	200
3NE1225-2/-3	200	690	gR	1	95	3KM55	1	200	3KM57	2	200
3NE1227-0	250	690	gS	1	120	3KM55	1	250	3KM57	2	250
3NE1227-2/-3	250	690	gR	1	120	3KM55	1	245	3KM57	2	250
3NE1230-0	315	690	gS	1	2x 70	3KM57	2	315	--	--	--
3NE1230-2/-3	315	690	gR	1	2x 70	3KM57	2	280	--	--	--
3NE1331-0	350	690	gS	2	2x 95	3KM57	2	330	--	--	--
3NE1331-2/-3	350	690	gR	2	2x 95	3KM57	2	300	--	--	--
3NE1332-0	400	690	gS	2	2x 95	3KM57	2	375	--	--	--
3NE1332-2/-3	400	690	gR	2	2x 95	3KM57	2	315	--	--	--
3NE1333-0	450	690	gS	2	2x 120	3KM57	2	400	--	--	--
3NE1333-2/-3	450	690	gR	2	2x 120	3KM57	2	325	--	--	--
3NE1334-0	500	690	gS	2	2x 120	3KM57	2	400	--	--	--
3NE1334-2/-3	500	690	gR	2	2x 120	3KM57	2	350	--	--	--
3NE1802-0	40	690	gS	000	10	3KM50	00	40	3KM52	00	40
3NE1803-0	35	690	gS	000	6	3KM50	00	35	3KM52	00	35
3NE1813-0	16	690	gS	000	1.5	3KM50	00	16	3KM52	00	16
3NE1814-0	20	690	gS	000	2.5	3KM50	00	20	3KM52	00	20
3NE1815-0	25	690	gS	000	4	3KM50	00	25	3KM52	00	25
3NE1817-0	50	690	gS	000	10	3KM50	00	50	3KM52	00	50
3NE1818-0	63	690	gS	000	16	3KM50	00	63	3KM52	00	63
3NE1820-0	80	690	gS	000	25	3KM52	00	80	--	--	--
3NE3221	100	1000	aR	1	35	3KM55	1	90	3KM57	2	95
3NE3222	125	1000	aR	1	50	3KM55	1	110	3KM57	2	115
3NE3224	160	1000	aR	1	70	3KM55	1	140	3KM57	2	150
3NE3225	200	1000	aR	1	95	3KM55	1	175	3KM57	2	180
3NE3227	250	1000	aR	1	120	3KM55	1	210	3KM57	2	220
3NE3230-0B	315	1000	aR	1	185	3KM57	2	240	--	--	--
3NE3231	350	1000	aR	1	240	3KM57	2	265	--	--	--
3NE3232-0B	400	1000	aR	1	240	3KM57	2	290	--	--	--
3NE3233	450	1000	aR	1	2x 150	3KM57	2	320	--	--	--
3NE3332-0B	400	1000	aR	2	240	3KM57	2	290	--	--	--
3NE3333	450	1000	aR	2	2x 150	3KM57	2	320	--	--	--
3NE3334-0B	500	1000	aR	2	2x 150	3KM57	2	360	--	--	--
3NE3335	560	1000	aR	2	2x 185	3KM57	2	400	--	--	--

SITOR semiconductor fuse data						Permissible rated currents of fuse when installed in 3KM for busbar mounting					
Type ¹⁾²⁾	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KM			Alternative type 3KM		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ⁴⁾
	A	V AC						A			A
3NE3336	630	1000	aR	2	2x 185	3KM57	2	400	--	--	--
3NE3337-8	710	900	aR	2	2x (40x5)	3KM57	2	400	--	--	--
3NE3338-8	800	800	aR	2	2x 240	3KM57	2	400	--	--	--
3NE3340-8	900	690	aR	2	2x (40x8)	3KM57	2	400	--	--	--
3NE4101	32	1000	gR	0	6	3KM55	1	32	--	--	--
3NE4102	40	1000	gR	0	10	3KM55	1	40	--	--	--
3NE4117	50	1000	gR	0	10	3KM55	1	50	--	--	--
3NE4118	63	1000	aR	0	16	3KM55	1	63	--	--	--
3NE4120	80	1000	aR	0	25	3KM55	1	80	--	--	--
3NE4121	100	1000	aR	0	35	3KM55	1	95	--	--	--
3NE4122	125	1000	aR	0	50	3KM55	1	120	--	--	--
3NE4124	160	1000	aR	0	70	3KM55	1	150	--	--	--
3NE4327-0B	250	800	aR	2	150	3KM57	2	175	--	--	--
3NE4330-0B	315	800	aR	2	240	3KM57	2	230	--	--	--
3NE4333-0B	450	800	aR	2	2x (30x5)	3KM57	2	340	--	--	--
3NE4334-0B	500	800	aR	2	2x (30x5)	3KM57	2	380	--	--	--
3NE4337	710	800	aR	2	2x (50x5)	3KM57	2	400	--	--	--
3NE8015-1	25	690	gR	00	4	3KM50	00	25	3KM52	00	25
3NE8003-1	35	690	gR	00	6	3KM50	00	33	3KM52	00	35
3NE8017-1	50	690	gR	00	10	3KM50	00	45	3KM52	00	50
3NE8018-1	63	690	gR	00	16	3KM50	00	54	3KM52	00	60
3NE8020-1	80	690	aR	00	25	3KM52	00	68	--	--	--
3NE8021-1	100	690	aR	00	35	3KM52	00	89	--	--	--
3NE8022-1	125	690	aR	00	50	3KM52	00	106	--	--	--
3NE8024-1	160	690	aR	00	70	3KM52	00	130 ⁵⁾	--	--	--

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

2) Permissible load currents for 3NE8...-0MK, see Configuration Manual "Fuse Systems", or on request

3) Fuses with a rated voltage > 690 V may only be operated at max. 690 V when installed in 3KM (rated voltage of the 3KM).

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

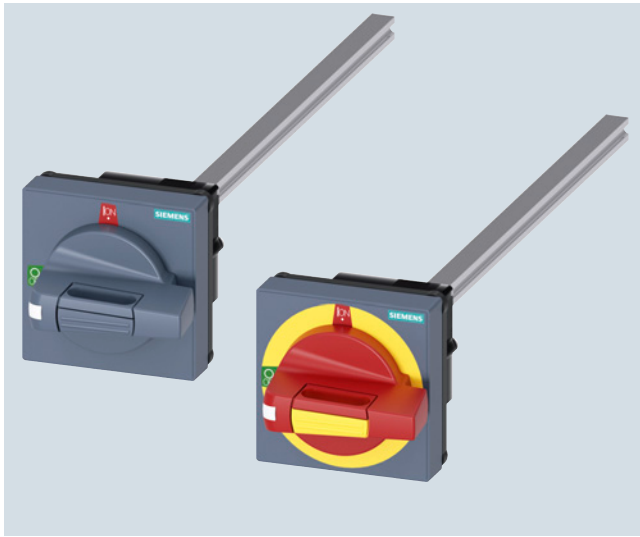
5) The fuse can also be operated at a higher rated uninterrupted current than the 125 A current of the 3KM52. However, in this case, the 3KM52 must not be switched under load (utilization category AC-20).

Switch Disconnectors

8UD1 Door-Coupling Rotary Operating Mechanisms **NEW**

For 3KD switch disconnectors

Overview



8UD1 rotary operating mechanisms in STANDARD version in gray (ti-gray, left) and EMERGENCY-STOP version in red/yellow (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

Degree of protection

Degree of protection when installed is IP65.

Standards

8UD1 door-coupling rotary operating mechanisms are in line with the following standards, for example:

Standard	Title
IEC 60204-1, EN 60204-1 (VDE 0113 Part 1)	Safety of machinery; 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; Switches, disconnectors, switch disconnectors and fuse-combination units

Benefits

Can be locked

The retractable locking device integrated in the handles is suitable for padlocks with shackle diameters of 4.5 mm to 9.5 mm (locks according to DIN 7465).

Up to three padlocks with a shackle diameter of 9.5 mm can be fitted simultaneously.

Non-interchangeability

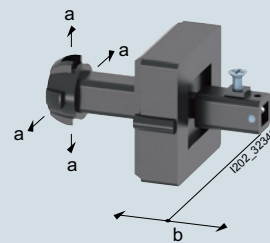
In order to ensure that, when installing switches and door-coupling operating mechanisms, all components are assembled in the correct position with respect to one another, the components are provided with non-interchangeability features (rivet and lug).

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/circuit breakers).

Tolerance compensation

8UD1 rotary operating mechanisms are capable of taking up a radial eccentricity of max. 8 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.



Coupling drivers	a	b	Shaft length
With tolerance compensation	± 8	± 5	x
Without tolerance compensation	+ 1,5	± 2,5	x + 23,5

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 the direction of the shaft.

Application

8UD1 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 lock 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 desired, it can be deactivated.

Operating conditions and ambient conditions

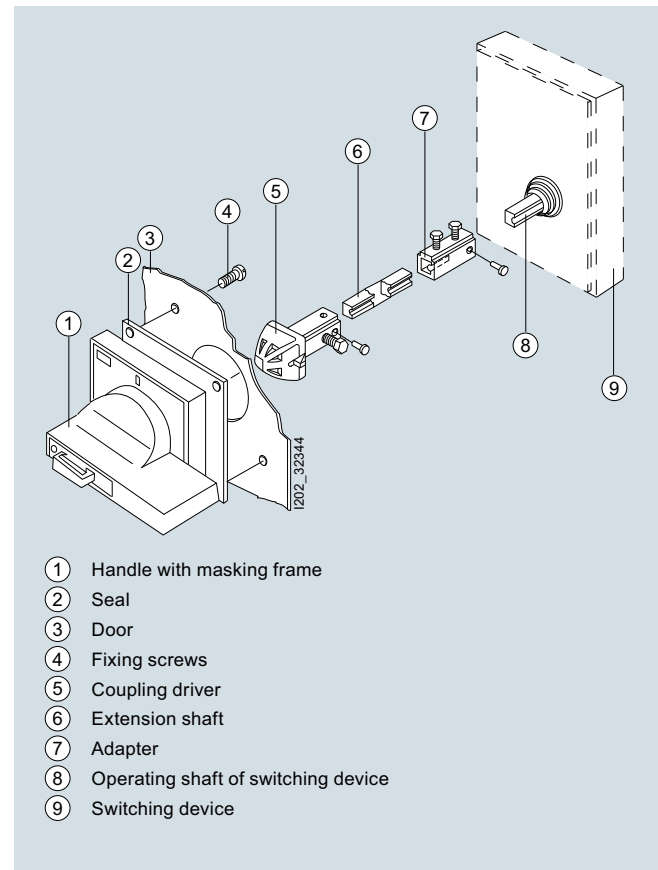
The temperature range for operation of the rotary operating mechanisms is between -25 °C and +60 °C.

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.

Design**Components**

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 3KD 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.

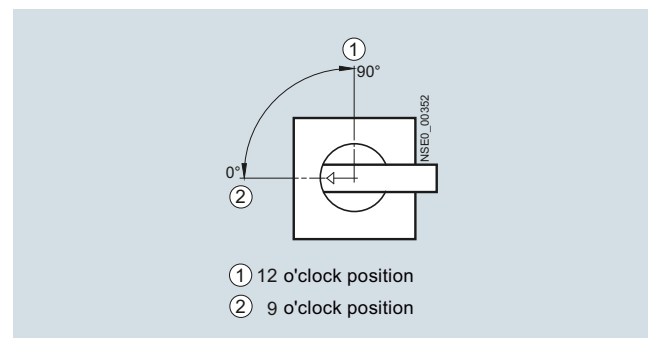


- ① Handle with masking frame
- ② Seal
- ③ Door
- ④ Fixing screws
- ⑤ Coupling driver
- ⑥ Extension shaft
- ⑦ Adapter
- ⑧ Operating shaft of switching device
- ⑨ Switching device

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

8UD1 Door-Coupling Rotary Operating Mechanisms **NEW**

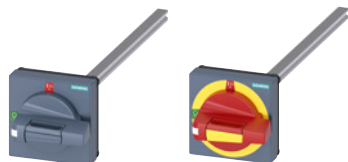
For 3KD switch disconnectors

Selection and ordering data

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

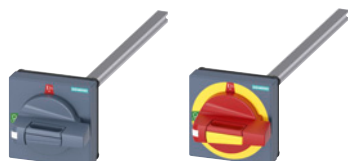
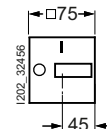
Switching device	Rated current	Cross-section of the actuating shaft	Torque	Illustrated: Handle, masking plate
Type	A	mm	Nm	

8UD1 for 3KD switch disconnectors sizes 1 and 2



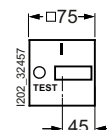
Labeling 0-1

3KD...-.M/N 16 ... 200 8 x 8 3

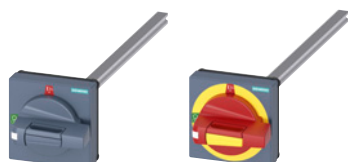


Labeling TEST-0-1

3KD...-.M/N 16 ... 200 8 x 8 3

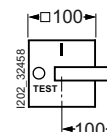


8UD1 for 3KD switch disconnectors sizes 3

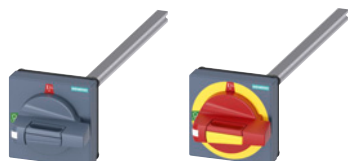


Labeling TEST-0-1

3KD...-.P 250 ... 400 8 x 8 7.5

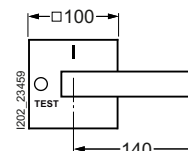


8UD1 for 3KD switch disconnectors size 4

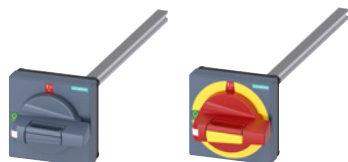


Labeling TEST-0-1

3KD...-.Q 400 ... 800 10 x 10 16

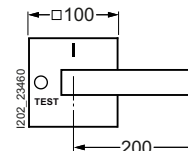


8UD1 for 3KD switch disconnectors size 5



Labeling TEST-0-1

3KD...-.R 800 ... 1600 12 x 12 30



Switch Disconnectors

NEW 8UD1 Door-Coupling Rotary Operating Mechanisms

For 3KD switch disconnectors

Version	DT	Rotary operating mechanisms, complete	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	Individual parts				
							Handles illuminated/ without illumination Other handles see page 7/61	Coupling drivers with tolerance compensation/ without tolerance compensation	Extension shaft length 300 mm/ length 600 mm	Adapter	
		Article No. www.siemens.com/product?Article No.	Price per PU			kg	Article No.	Article No.	Article No.	Article No.	
Standard		8UD1171-2AD11		1	1 unit	1CL	0.458	8UD1771-2CD01/ 8UD1771-2AD01	□ 8 mm 8UD1900-2GA00 8UD1900-2HA00	□ 8 mm 8UC6032/ 8UC6082	□ 8 mm by 8 mm 8UC6022
EMERGENCY-STOP		8UD1171-2AD15		1	1 unit	1CL	0.456	8UD1771-2CD05 8UD1771-2AD05	8UD1900-2GA00 8UD1900-2HA00	8UC6032/ 8UC6082	8UC6022
Standard		8UD1171-2AF21		1	1 unit	1CL	0.510	8UD1771-2CF01/ 8UD1771-2AF01	□ 8 mm 8UD1900-2GA00/ 8UD1900-2HA00	□ 8 mm 8UC6032/ 8UC6082	□ 8 mm by 8 mm 8UC6022
EMERGENCY-STOP		8UD1171-2AF25		1	1 unit	1CL	0.511	8UD1771-2CF05/ 8UD1771-2AF05	8UD1900-2GA00 8UD1900-2HA00	8UC6032/ 8UC6082	8UC6022
Standard		8UD1141-2AF21		1	1 unit	1CL	0.852	8UD1841-2CF01/ 8UD1841-2AF01	□ 8 mm 8UD1900-6GA00/ 8UD1900-6HA00	□ 8 mm 8UC6032/ 8UC6082	□ 8 mm by 8 mm 8UC6022
EMERGENCY-STOP		8UD1141-2AF25		1	1 unit	1CL	0.853	8UD1841-2CF05/ 8UD1841-2AF05	8UD1900-6GA00/ 8UD1900-6HA00	8UC6032/ 8UC6082	8UC6022
Standard		8UD1151-3AF21		1	1 unit	1CL	0.956	8UD1851-3CF01/ 8UD1851-3AF01	□ 10 mm 8UD1900-3GA00/ 8UD1900-3HA00	□ 10 mm 8UC6033/ 8UC6083	□ 10 mm by 10 mm 8UC6023
EMERGENCY-STOP		8UD1151-3AF25		1	1 unit	1CL	0.958	8UD1851-3CF05/ 8UD1851-3AF05	8UD1900-3GA00/ 8UD1900-3HA00	8UC6033/ 8UC6083	8UC6023
Standard		8UD1161-4AF21		1	1 unit	1CL	1.100	8UD1861-4CF01/ 8UD1861-4AF01	□ 12 mm 8UD1900-4GA00/ 8UD1900-4HA00	□ 12 mm 8UC6034/ 8UC6084	□ 12 mm by 12 mm 8UC6024
EMERGENCY-STOP		8UD1161-4AF25		1	1 unit	1CL	1.101	8UD1861-4CF05/ 8UD1861-4AF05	8UD1900-4GA00/ 8UD1900-4HA00	8UC6034/ 8UC6084	8UC6024

Switch Disconnectors

8UC7 Door-coupling Rotary Operating Mechanisms

For 3KA/3KE, 3KL/3KM 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 the following standards, for example:

Standard	Title
IEC 60204-1, EN 60204-1 (VDE 0113 Part 1)	Safety of machinery; 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; Switches, disconnectors, switch disconnectors and fuse-combination units

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

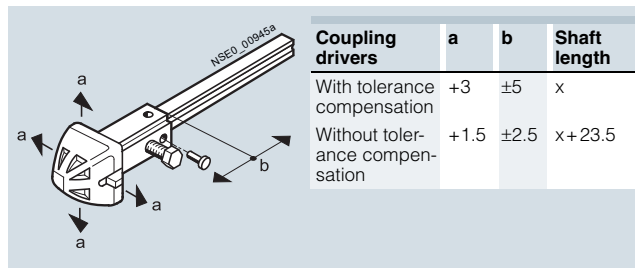
In order to ensure that, when installing switches and door-coupling operating mechanisms, all components are assembled in the correct position with respect to one another, the components are provided with non-interchangeability features (rivet and lug).

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/circuit breakers).

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 the direction of the shaft.

Switch Disconnectors

8UC7 Door-coupling Rotary Operating Mechanisms

For 3KA/3KE, 3KL/3KM switch disconnectors

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 lock 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 $+60\text{ °C}$.

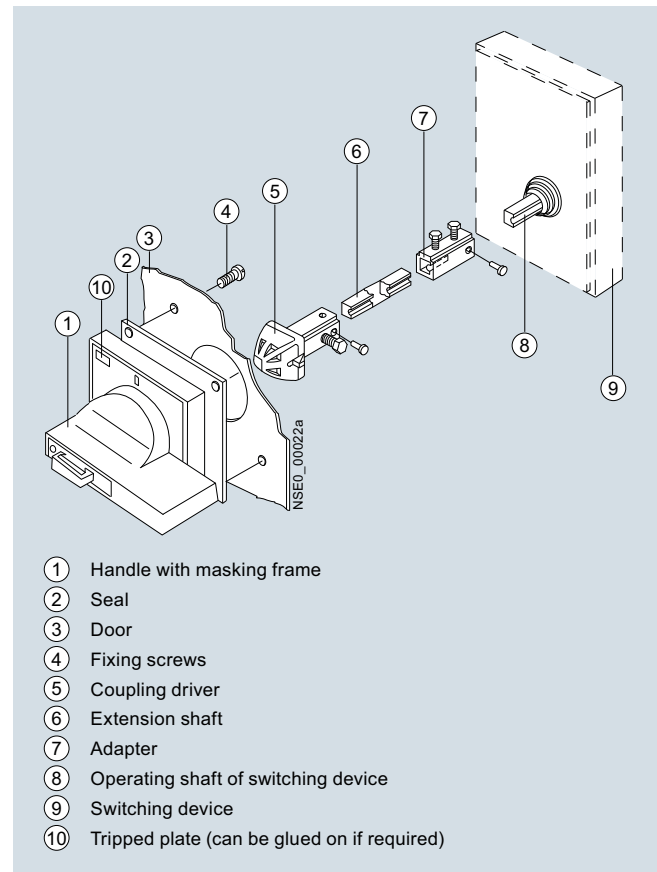
Thanks to the use of glass fiber-reinforced molded plastic for handles and masking plates as well as metal components with surface protection, the rotary operating mechanisms are suitable for rough conditions, high air humidity and aggressive atmospheres.

Design

Components

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.

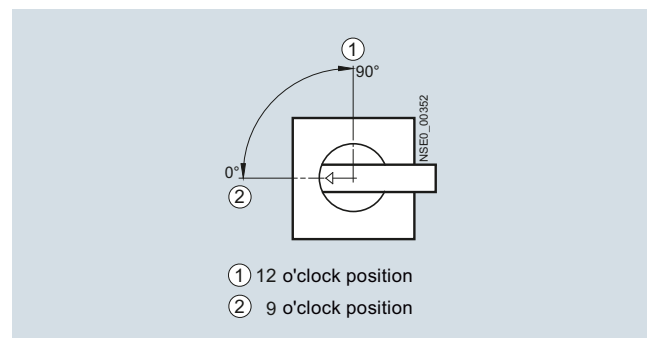


- ① Handle with masking frame
- ② Seal
- ③ Door
- ④ Fixing screws
- ⑤ Coupling driver
- ⑥ Extension shaft
- ⑦ Adapter
- ⑧ Operating shaft of switching device
- ⑨ Switching device
- ⑩ Tripped plate (can be glued on if required)

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

8UC7 Door-coupling Rotary Operating Mechanisms

For 3KA/3KE, 3KL/3KM 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
Type	A	mm	Nm	Size	

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 feature³⁾

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 parallel switches

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 row below for 3KA52, 3KL52 or 3KM52.

²⁾ Additionally required for 3KL61: 1 shaft coupling, Article No. 8UC9253, see page 7/128.

³⁾ The door interlocking plate must be removed.

⁴⁾ With shortened 8UC6016/8UC6017 coupling driver and reduced tolerance compensation

Switch Disconnectors

8UC7 Door-coupling Rotary Operating Mechanisms

For 3KA/3KE, 3KL/3KM switch disconnectors






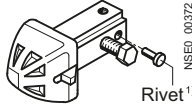
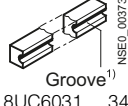
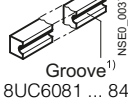

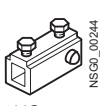
Version	DT	Rotary operating mechanisms, complete	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Individual parts			
							Handle with masking plate Article No.	Coupling drivers Article No.	Extension shaft length 300 mm Article No.	Adapter Article No.
Standard Standard ⁴⁾ EMER- GENCY- STOP		8UC7111-1BB10	1	1 unit	1CL	0.354	8UC7110-1BB	8UC6011	8UC6031	Not required
		8UC7161-1BB10	1	1 unit	1CL	0.339	8UC7110-1BB	8UC6016	8UC6031	Not required
		8UC7121-3BB10	1	1 unit	1CL	0.355	8UC7120-3BB	8UC6011	8UC6031	Not required
Standard Standard ⁴⁾ EMER- GENCY- STOP		8UC7212-1BB20	1	1 unit	1CL	0.424	8UC7210-1BB	8UC6012	8UC6032	Not required
		8UC7262-1BB20	1	1 unit	1CL	0.392	8UC7210-1BB	8UC6017	8UC6032	Not required
		8UC7222-3BB20	1	1 unit	1CL	0.426	8UC7220-3BB	8UC6012	8UC6032	Not required
Standard EMER- GENCY- STOP		8UC7313-1BB30	1	1 unit	1CL	1.001	8UC7310-1BB	8UC6013	8UC6033	Not required
		8UC7323-3BB30	1	1 unit	1CL	1.000	8UC7320-3BB	8UC6013	8UC6033	Not required
Standard EMER- GENCY- STOP		8UC7314-1BB44	1	1 unit	1CL	1.170	8UC7310-1BB	8UC6014	8UC6034	8UC6024
		8UC7324-3BB44	1	1 unit	1CL	1.116	8UC7320-3BB	8UC6014	8UC6034	8UC6024
Standard EMER- GENCY- STOP		8UC7414-1BB44	1	1 unit	1CL	1.204	8UC7410-1BB	8UC6014	8UC6034	8UC6024
		8UC7424-3BB44	1	1 unit	1CL	1.134	8UC7420-3BB	8UC6014	8UC6034	8UC6024
Standard		8UC7414-1BF44	1	1 unit	1CL	1.196	8UC7410-1BF	8UC6014	8UC6034	8UC6024
Standard		8UC7414-1FG44	1	1 unit	1CL	1.113	8UC7410-1FG	8UC6014	8UC6034	8UC6024
Standard		8UC7414-1BB44	1	1 unit	1CL	1.204	8UC7410-1BB	8UC6014	8UC6034	8UC6024

Switch Disconnectors

8UC7 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*/P. unit	PG	Weight per PU approx.
						Article No. www.siemens.com/product?Article No.	Price per PU				
Type	Type		mm x mm								kg
Handles with masking plate (including flat gasket and fixing screws)											
 8UC71	3KL50, 3KM50, 3KA50, 3KA51	8UC71	1	6 x 6	Standard	EMERGENCY-STOP	8UC7110-1BB	1	1 unit	1CL	0.175
							8UC7120-3BB	1	1 unit	1CL	0.178
 8UC74	3KL52, 3KM52, 3KL53, 3KM53, 3KA52, 3KA53	8UC72	2	8 x 8	Standard	EMERGENCY-STOP	8UC7210-1BB	1	1 unit	1CL	0.190
							8UC7220-3BB	1	1 unit	1CL	0.186
 8UC74	3KL55, 3KM55, 3KL57, 3KM57, 3KA55, 3KA57, 3KE42, 3KE43, 3KE44, 3KE45	8UC73	3	10 x 10 or 12 x 12	Standard	EMERGENCY-STOP	8UC7310-1BB	1	1 unit	1CL	0.493
							8UC7320-3BB	1	1 unit	1CL	0.472
 8UC74	3KL61, 3KL62	8UC74	4	12 x 12	Standard	EMERGENCY-STOP	8UC7410-1BB	1	1 unit	1CL	0.516
							8UC7420-3BB	1	1 unit	1CL	0.488
 8UC74	3KE42, 3KE43, 3KE44, 3KE45	8UC74 ³⁾	4	12 x 12	Standard	Standard	8UC7410-1BF	1	1 unit	1CL	0.496
							8UC7410-1FG	1	1 unit	1CL	0.435
							8UC7410-1BB	1	1 unit	1CL	0.516
Rotary operating mechanisms											
Type		Cross-section of the actuating shaft		DT		Individual parts for 8UC6 door-coupling rotary operating mechanisms		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		mm x mm				Article No. www.siemens.com/product?Article No.					kg
Coupling drivers, extension shafts, shaft couplings and reducers											
Coupling drivers for 3K											
 8UC6011	8UC71	6 x 6	8UC6011	1	1 unit	1CL	0.072				
	8UC71 ²⁾	6 x 6	8UC6016	1	1 unit	1CL	0.045				
	8UC72	8 x 8	8UC6012	1	1 unit	1CL	0.073				
	8UC72 ²⁾	8 x 8	8UC6017	1	1 unit	1CL	0.041				
	8UC73	10 x 10	8UC6013	1	1 unit	1CL	0.236				
	8UC73/74	12 x 12	8UC6014	1	1 unit	1CL	0.234				
	Extension shafts 300 mm long										
 8UC6031 ... 34	8UC71	6 x 6	8UC6031	1	1 unit	1CL	0.068				
	8UC72	8 x 8	8UC6032	1	1 unit	1CL	0.135				
	8UC73	10 x 10	8UC6033	1	1 unit	1CL	0.215				
	8UC73/74	12 x 12	8UC6034	1	1 unit	1CL	0.316				
	Extension shafts 600 mm long										
 8UC6081 ... 84	8UC71	6 x 6	8UC6081	1	1 unit	1CL	0.136				
	8UC72	8 x 8	8UC6082	1	1 unit	1CL	0.265				
	8UC73	10 x 10	8UC6083	1	1 unit	1CL	0.424				
	8UC73/74	12 x 12	8UC6084	1	1 unit	1CL	0.628				
	Shaft couplings										
 8UC6021 to 8UC6024	8UC71	6 x 6	8UC6021	1	1 unit	1CL	0.027				
	8UC72	8 x 8	8UC6022	1	1 unit	1CL	0.022				
	8UC73	10 x 10	8UC6023	1	1 unit	1CL	0.084				
	8UC73/74	12 x 12	8UC6024	1	1 unit	1CL	0.078				
	8UC74 (3KL61)	12 x 12	8UC9253	1	1 unit	1CL	0.113				
	Reducers										
 8UC7058	8UC71	8 x 8 to 6 x 6	8UC7058	1	1 unit	1CL	0.024				
	8UC72	12 x 12 to 8 x 8	8UC7050	1	1 unit	1CL	0.080				

¹⁾ Non-interchangeability features

²⁾ Shortened coupling driver with reduced tolerance compensation

³⁾ For switch disconnectors as changeover switches in various versions, see page 7/126







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

Switch Disconnectors

8UC7 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 mechanisms	Color of handle	DT	Operating mechanisms for fixed mounting	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	Type	mm × mm	Nm	Size			Article No. www.siemens.com/product?Article No.	Price per PU			kg	
 8UC9354	3KA50, 3KA51, 3KL50, 3KM50	6 × 6	4	1	Black ²⁾		8UC9354		1	1 unit	1CL	0.032
 8UC9360	3KA50, 3KA51, 3KL50, 3KM50	6 × 6	7.5	2	Black ²⁾		8UC9360		1	1 unit	1CL	0.046
 8UC9362	3KA52, 3KA53, 3KL52, 3KM52, 3KL53, 3KM53	8 × 8	7.5	2	Black Red		8UC9362 8UC9363		1 1	1 unit 1 unit	1CL 1CL	0.060 0.046
 8UC9365	3KA55, 3KA57, 3KA58, 3KL55, 3KM55, 3KL57, 3KM57	10 × 10	16	3	Black Red		8UC9365 8UC9366		1 1	1 unit 1 unit	1CL 1CL	0.140 0.120
 8UC9374	3KE42, 3KE43	12 × 12	16	3	Black ³⁾ Red ³⁾		8UC9370 8UC9371		1 1	1 unit 1 unit	1CL 1CL	0.130 0.140
 8UC9381	3KE44, 3KE45	12 × 12	30	4	Black ³⁾ Red ³⁾		8UC9374 8UC9375		1 1	1 unit 1 unit	1CL 1CL	0.160 0.160
	3KL61	12 × 12	55	5	Black Red		8UC9381 8UC9382		1 1	1 unit 1 unit	1CL 1CL	0.270 0.263

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: 3KX2210-0H coupling socket.

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Introduction

Overview

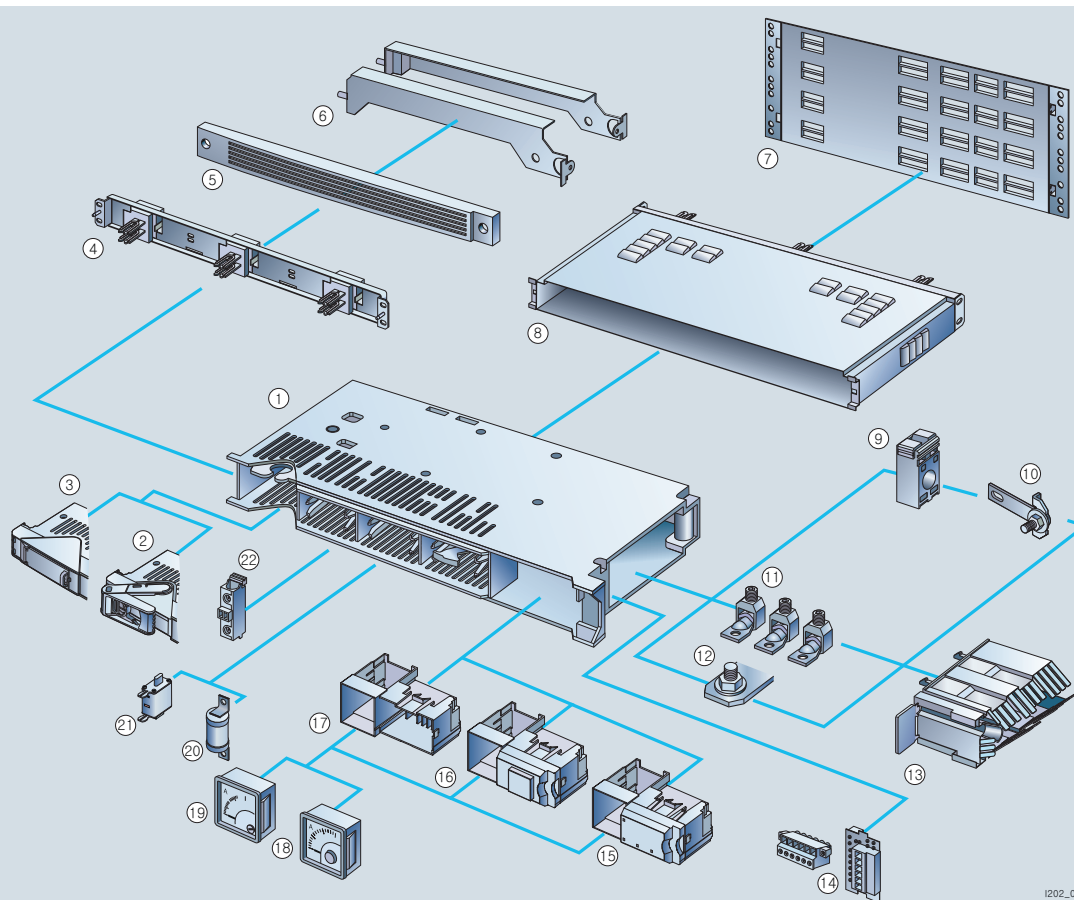


3NJ62 switch disconnectors with fuses

All key product features at a glance

- In-line design
- Type-tested according to IEC EN 60947-3
- Voltage levels up to 690 V AC/440 V DC
- 160 A to 630 A for LV HRC and BS 88 fuse links, according to IEC 60269-1/EN 60269-1
- 2-, 3- and 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 switchboard in plug-in design
- Horizontal or vertical mounting position
- Front panel locked in ON position
- Degree of protection IP41

Overview of all components and accessory parts



① 3NJ62 switch disconnector basic device here in size 00, open, without front cover

② Manual operating mechanism

③ Motorized operating mechanism

④ Connection module

⑤ Blanking cover

⑥ Guide rails

⑦ Busbar cover

⑧ Contact extension

⑨ Current transformer

⑩ Current transformer bar

⑪ Connection terminals

⑫ Stud terminal

⑬ Terminal cover

⑭ Multifunction plug

⑮ Holder for measuring device with electronic fuse monitoring (EFM 10)

⑯ Holder for measuring device with electronic fuse monitoring (EFM 20/25)

⑰ Holder for measuring device without EFM

⑱ Bimetal current measuring device

⑲ Moving-iron current measuring device

⑳ BS fuse

㉑ LV MRC fuse

㉒ Auxiliary switch

I202_02142

Benefits

Key advantages for switchboard 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 switchboard
- 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 3NJ62 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.

Function

Fuse monitoring

Fuse monitoring is used to detect, indicate and report faults. The electronic fuse monitoring devices are available in 2 versions.

EFM10 electronic fuse monitoring devices:

- For use up to 690 V AC
- Operational voltage < 20 V
- Display: Ready-to-run
- Individual fault display per phase
- 1 CO contact as centralized fault signaling unit

EFM20/25 electronic fuse monitoring and line monitoring devices:

- EFM20 for use up to 690 V AC, EFM25 for use up to 440 V DC
- Operational voltage < 13 V (EFM20) < 20 V (EFM25)
- Test function
- Closed-circuit principle or open-circuit principle
- 2 CO contacts as centralized fault signaling unit incl. line monitoring functions with phase failure detection (EFM20), under-voltage/overvoltage detection



EFM10 electronic fuse monitoring device



EFM20/25 electronic fuse monitoring device

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Introduction

Technical specifications

Main devices of sizes 00 and 1

Size	00						1						
	NH			...02-3 ...02-4	...03-1 ...04-1 ...04-2	...03-3 ...03-4	...12-3 ...12-4	...13-1 ...14-1 ...14-2	...13-3 ...13-4				
Switch disconnectors with fuses type 3NJ62...	BS	...43-3	...53-3	...62-3 ...62-4		...63-3 ...63-4	...72-3 ...72-4	...74-1 ...74-2	...73-3 ...73-4				
Breaking capacity		H	H	H		S	H	H	S	H			
Rated insulation voltage U_i	V	1000											
Rated impulse withstand voltage U_{imp}	V	8000											
Rated operational current I_e	A	63	100	160	-	160	125	160	125	250			
For LV HRC fuse links acc. to IEC 60269		-	-	for 00 and 000				1					
For BS fuse links acc. to BS 88		A3	A3	00T ¹⁾				B2					
Rated operational voltage U_e													
• At 50/60Hz rated frequency	V	690		--	--	500	690	500	690	690			
• At DC	V	--	--	230	440	--	--	--	--	230	440	-	-
Utilization category		AC23B		DC23B	DC21B	AC22B	AC23B		DC23B	DC21B	AC22B	AC23B	
Rated conditional short-circuit current													
• Short-circuit strength (rms value)	kA	100		60		100		100		60		100	
• Short-circuit making capacity (rms value)	kA	66		60		55		66		60		55	66
Rated making capacity													
• p.f. = 0.65	A	--	--	--	--	480	375	--	--	--	--	750	--
• p.f. = 0.45	A	630	1000	--	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	--	--	--	1600	1250	--	--	--	2500
Rated breaking capacity													
• p.f. = 0.65	A	--	--	--	--	480	375	--	--	--	--	750	--
• p.f. = 0.45	A	504	800	--	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	--	--	--	1280	1000	--	--	--	2000
Endurance													
Operating cycles total		2000		1600				1600					
• Electrical (690 V, p.f. = 0.65)		300		200				200					
Power loss (no fuse links)	W	7	17	43				78					
Permissible ambient temperature	°C	-5...+55											
Permissible mounting positions		Horizontal and vertical with bottom connection											
Degree of protection (in operating state)		IP41											
Connection type		Main conductor connections											
Cable lug connection													
• Conductor cross-section (Al/Cu, solid or stranded) according to DIN 46235 (Cu) and DIN 46239 (Al)	mm ²	1x 10-95 2x 16-70						1x 25-240 2x 25-70					
• Screw size		M8						M12					
• Torque	Nm	15						30					
Terminal connection													
• Conductor cross-section (Al/Cu), rm	mm ²	1x 10-50						1x 16-185					
• Conductor cross-section (Al/Cu), re	mm ²	1x 10-50						1x 16-150					
• Conductor cross-section (Al/Cu), sm	mm ²	1x 16-95						1x 35-240					
• Conductor cross-section (Al/Cu), se	mm ²	1x 16-95						1x 35-300					
• Required torque	Nm	15						25					

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

Main devices of sizes 2 and 3

Size	2				3					
Switch disconnectors with fuses type 3NJ62...	NH	...22-3	...23-1	...23-3	...32-3	...33-1	...33-3			
		...22-4	...24-1	...23-4	...32-4	...34-1	...33-4			
	BS	...82-3	...24-2	...83-3	...92-3	...94-1	...93-3			
		...82-4		...83-4	...92-4	...94-2	...93-4			
						...33-3	...33-4			
							...33-3			
							...33-4			
Breaking capacity		H	S	H	H	S	H			
Rated insulation voltage U_i	V	1000								
Rated impulse withstand voltage U_{imp}	V	8000								
Rated operational current I_e										
• For fuse links according to IEC 60269/ BS88	A	400				630		500	630	500
For fuse links according to IEC 60269		2 and 1				3 and 2				
For BS fuse links acc. to BS 88		B4				3T ¹⁾				
Rated operational voltage U_e										
• At 50/60Hz rated frequency	V	--	--	690	230	440	500	690	500	690
• At DC	V	230	440	--	--	--	--	--	--	--
Utilization category		DC23B	DC21B	AC22B	AC23B	DC23B	DC21B	AC22B	AC23B	
Rated conditional short-circuit current										
• Short-circuit strength (rms value)	kA	60		100	60		100			
• Short-circuit making capacity (rms value)	kA	60		55	66	60		55		66
Rated making capacity										
• p.f. = 0.65	A	--	--	1200	--	--	1890	1500	--	--
• p.f. = 0.45	A	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	4000	--	--	--	6300	5000
Rated breaking capacity										
• p.f. = 0.65	A	--	--	1200	--	--	1890	1500	--	--
• p.f. = 0.45	A	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	3200	--	--	--	5040	4000
Endurance										
Operating cycles total		1000				1000				
• Electrical (690 V, p.f. = 0.65)		200				200				
Power loss (no fuse links)	W	158				357				
Permissible ambient temperature	°C	-5...+55								
Permissible mounting positions		Horizontal and vertical with bottom connection								
Degree of protection (in operating state)		IP41								
Connection type		Main conductor connections								
Cable lug connection										
Conductor cross-section	mm ²	1x 25-300 2x 25-240				1x 25-300 2x 25-240				
• Conductor cross-section (Al/Cu, solid or stranded) according to DIN46235 (Cu) and DIN46239 (Al)										
• Screw size	Nm	2x M12				2x M12				
• Torque		30				30				
Terminal connection										
• Conductor cross-section (Al/Cu), rm	mm ²	2x 16-185				2x 16-185				
• Conductor cross-section (Al/Cu), re	mm ²	2x 16-150				2x 16-150				
• Conductor cross-section (Al/Cu), sm	mm ²	2x 35-240				2x 35-240				
• Conductor cross-section (Al/Cu), se	mm ²	2x 35-300				2x 35-300				
• Required torque	Nm	25				25				

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

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Introduction

Auxiliary switches

Acc. to IEC 60947-5-1			
Rated insulation voltage U_i	V	690	
Rated impulse 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	

Electronic fuse monitoring, AC version (EFM 10)

Size	00	1	2/3	
Apparent power consumption S	VA	Approx. 2.5		
Internal resist. of measurement circuit	MΩ	$R_{in} > 6$		
Storage temperature	°C	- 20 ... + 80		
Operating temperature	°C	- 5 ... + 55		
Operating temperature (500 V and/or 500 A)	°C	- 5 ... + 35		
Prot. rating in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V AC	230 ... 690		
	Hz	50/60		
Voltage limits	%	±15		
Signaling relay acc. to IEC 60947-5-1	A	$I_{th} = 1.5$		
	kV	$U_{imp} = 4$		
	V	$U_i = 250$		
Load capacity of the signaling relay				
• U_e	V	24	125	240
• DC - 13; I_e	A	1	0.2	0.1
• AC - 15; I_e	A	1.5		
Short-circuit protection		Max. fuse protection DIAZED 2 A gLgG		

Electronic fuse monitoring, AC version (EFM 20)

Size	00	1	2/3	
Apparent power consumption S	VA	Approx. 2.5		
Internal resist. of measurement circuit	MΩ	$R_{in} > 6$		
Storage temperature	°C	- 20 ... + 80		
Operating temperature	°C	- 5 ... + 55		
Operating temperature (500 V and/or 500 A)	°C	- 5 ... + 35		
Prot. rating in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V AC	230 ... 690		
	Hz	50/60		
Voltage limits	%	±15		
Undervoltage	V	375		
Overvoltage	V	425		
Voltage drop for faulty fuses	V	> 13		
Delay time	s	0.1		
Relay 2		As relay 1 (fuse monitoring)		
Storage function		Off		
Open/closed-circuit principle		Closed-circuit principle		
Mode		Run mode		
Menu option		Display of voltage values/ signals		
Signaling relay acc. to IEC 60947-5-1	A	$I_{th} = 1.5$		
	kV	$U_{imp} = 4$		
	V	$U_i = 250$		
Signaling relay 1		1 changeover contact for fuse monitoring only		
Signaling relay 2		1 changeover contact as output for central fault OR as signaling relay 1 (presetting)		
Load capacity of the signaling relay				
• U_e	V	24	125	240
• DC - 13; I_e	A	1	0.2	0.1
• AC - 15; I_e	A	1.5		
Short-circuit protection		Max. fuse protection DIAZED 2 A gLgG		

Electronic fuse monitoring, DC version (EFM 25)

Size	00	1	2/3	
Apparent power consumption S	VA	Approx. 2.5		
Internal resist. of measurement circuit	MΩ	$R_{in} > 6$		
Storage temperature	°C	- 20 ... + 80		
Operating temperature	°C	- 5 ... + 55		
Operating temperature (500 V and/or 500 A)	°C	- 5 ... + 35		
Prot. rating in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V DC	220 ... 440		
Voltage limits	%	±15		
Undervoltage	V	200		
Overvoltage	V	240		
Voltage drop for faulty fuses	V	> 20		
Delay time	s	0.1		
Relay 2		As relay 1 (fuse monitoring)		
Storage function		Off		
Open/closed-circuit principle		Closed-circuit principle		
Mode		Run mode		
Menu option		Display of voltage values/ signals		
Signaling relay acc. to IEC 60947-5-1	A	$I_{th} = 1.5$		
	kV	$U_{imp} = 4$		
	V	$U_i = 250$		
Signaling relay 1		1 changeover contact for fuse monitoring only		
Signaling relay 2		1 changeover contact as output for central fault OR as signaling relay 1 (presetting)		
Load capacity of the signaling relay				
• U_e	V	24	125	240
• DC - 13; I_e	A	1	0.2	0.1
• AC - 15; I_e	A	1.5		
Short-circuit protection		Max. fuse protection DIAZED 2 A gLgG		




Ammeters

Inputs		x/1 A or x/5 A		
Overload				
• Moving-iron measuring instruments		1.2 times		
• Bi-metal measuring instruments		Double		
Slave pointer				
• Moving-iron measuring instruments	min	--		
• Bi-metal measuring instruments	min	15		
Power consumption				
• Moving-iron measuring instruments	VA	0.6		
• Bi-metal measuring instruments	VA	1		

Motorized operating mechanism

Size	00	1	2/3	
Control supply voltage	V DC	24 ± 2		
Power consumption	A	1.1	1.3	2.8
Service life (no limitation of switch disconnector according to IEC 60947-3)				
Operating cycles total		1600		
Operating cycles under load		200		
Signal duration	s	Min. 0.5 or continuous signal		

Selection and ordering data

	Rated current I_n	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
2-pole, high breaking capacity H									
	Manually operated								
	160	00		3NJ6202-3AA0□-0AA0		1	1 unit	1DL	3.630
	250	1		3NJ6212-3AA0□-0AA0		1	1 unit	1DL	6.750
	400	2		3NJ6222-3AA0□-0AA0		1	1 unit	1DL	15.000
	630	3		3NJ6232-3AA0□-0AA0		1	1 unit	1DL	15.360
	Manually operated, EFM 25								
	160	00		3NJ6202-3AE0□-0AA0		1	1 unit	1DL	3.830
	250	1		3NJ6212-3AE0□-0AA0		1	1 unit	1DL	6.950
	400	2		3NJ6222-3AE0□-0AA0		1	1 unit	1DL	15.200
	630	3		3NJ6232-3AE0□-0AA0		1	1 unit	1DL	15.560
	Motorized operating mechanism								
	160	00		3NJ6202-4AA0□-0AA0		1	1 unit	1DL	3.630
250	1		3NJ6212-4AA0□-0AA0		1	1 unit	1DL	6.750	
400	2		3NJ6222-4AA0□-0AA0		1	1 unit	1DL	15.000	
630	3		3NJ6232-4AA0□-0AA0		1	1 unit	1DL	15.360	
Mot. operat. mechanism, EFM 25									
160	00		3NJ6202-4AE0□-0AA0		1	1 unit	1DL	4.330	
250	1		3NJ6212-4AE0□-0AA0		1	1 unit	1DL	7.450	
400	2		3NJ6222-4AE0□-0AA0		1	1 unit	1DL	15.700	
630	3		3NJ6232-4AE0□-0AA0		1	1 unit	1DL	16.060	
3-pole, standard breaking capacity S									
	Manually operated								
	160	00		3NJ6203-1AA0□-□□□□		1	1 unit	1DL	3.630
	250	1		3NJ6213-1AA0□-□□□□		1	1 unit	1DL	6.750
	400	2		3NJ6223-1AA0□-□□□□		1	1 unit	1DL	15.000
	630	3		3NJ6233-1AA0□-□□□□		1	1 unit	1DL	15.360
	Manually operated, EFM 10								
	160	00		3NJ6203-1AB0□-□□□□		1	1 unit	1DL	3.830
	250	1		3NJ6213-1AB0□-□□□□		1	1 unit	1DL	6.950
	400	2		3NJ6223-1AB0□-□□□□		1	1 unit	1DL	15.200
	630	3		3NJ6233-1AB0□-□□□□		1	1 unit	1DL	15.560
	Manually operated, EFM 20								
	160	00		3NJ6203-1AC0□-□□□□		1	1 unit	1DL	3.830
250	1		3NJ6213-1AC0□-□□□□		1	1 unit	1DL	6.950	
400	2		3NJ6223-1AC0□-□□□□		1	1 unit	1DL	15.200	
630	3		3NJ6233-1AC0□-□□□□		1	1 unit	1DL	15.560	
3-pole, high breaking capacity H									
	Manually operated								
	160	00		3NJ6203-3AA0□-□□□□		1	1 unit	1DL	3.630
	250	1		3NJ6213-3AA0□-□□□□		1	1 unit	1DL	6.750
	400	2		3NJ6223-3AA0□-□□□□		1	1 unit	1DL	15.000
	630	3		3NJ6233-3AA0□-□□□□		1	1 unit	1DL	15.360
	Manually operated, EFM 10								
	160	00		3NJ6203-3AB0□-□□□□		1	1 unit	1DL	3.830
	250	1		3NJ6213-3AB0□-□□□□		1	1 unit	1DL	6.950
	400	2		3NJ6223-3AB0□-□□□□		1	1 unit	1DL	15.200
	630	3		3NJ6233-3AB0□-□□□□		1	1 unit	1DL	15.560
	Manually operated, EFM 20								
	160	00		3NJ6203-3AC0□-□□□□		1	1 unit	1DL	3.830
250	1		3NJ6213-3AC0□-□□□□		1	1 unit	1DL	6.950	
400	2		3NJ6223-3AC0□-□□□□		1	1 unit	1DL	15.200	
630	3		3NJ6233-3AC0□-□□□□		1	1 unit	1DL	15.560	
Motorized operating mechanism									
160	00		3NJ6203-4AA0□-□□□□		1	1 unit	1DL	3.630	
250	1		3NJ6213-4AA0□-□□□□		1	1 unit	1DL	6.750	
400	2		3NJ6223-4AA0□-□□□□		1	1 unit	1DL	15.000	
630	3		3NJ6233-4AA0□-□□□□		1	1 unit	1DL	15.360	
Mot. operat. mechanism, EFM 10									
160	00		3NJ6203-4AB0□-□□□□		1	1 unit	1DL	4.330	
250	1		3NJ6213-4AB0□-□□□□		1	1 unit	1DL	7.450	
400	2		3NJ6223-4AB0□-□□□□		1	1 unit	1DL	15.700	
630	3		3NJ6233-4AB0□-□□□□		1	1 unit	1DL	16.060	
Mot. operat. mechanism, EFM 20									
160	00		3NJ6203-4AC0□-□□□□		1	1 unit	1DL	4.330	
250	1		3NJ6213-4AC0□-□□□□		1	1 unit	1DL	7.450	
400	2		3NJ6223-4AC0□-□□□□		1	1 unit	1DL	15.700	
630	3		3NJ6233-4AC0□-□□□□		1	1 unit	1DL	16.060	

Article No. supplement

Add. price

Standard Article No. supplement
(for more Article No. supplements, see page 7/139)

Without auxiliary switches, ammeters or current transformers



None

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC fuse links

Rated current I_n	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
4-pole, standard breaking capacity S								
Manually operated								
160	00		3NJ6204-1AA0□-□□□□		1	1 unit	1DL	6.160
250	1		3NJ6214-1AA0□-□□□□		1	1 unit	1DL	10.380
400	2		3NJ6224-1AA0□-□□□□		1	1 unit	1DL	18.900
630	3		3NJ6234-1AA0□-□□□□		1	1 unit	1DL	20.000
Manually operated, EFM 10								
160	00		3NJ6204-1AB0□-□□□□		1	1 unit	1DL	6.830
250	1		3NJ6214-1AB0□-□□□□		1	1 unit	1DL	9.950
400	2		3NJ6224-1AB0□-□□□□		1	1 unit	1DL	18.200
630	3		3NJ6234-1AB0□-□□□□		1	1 unit	1DL	18.560
Manually operated, EFM 20								
160	00		3NJ6204-1AC0□-□□□□		1	1 unit	1DL	6.830
250	1		3NJ6214-1AC0□-□□□□		1	1 unit	1DL	9.950
400	2		3NJ6224-1AC0□-□□□□		1	1 unit	1DL	18.200
630	3		3NJ6234-1AC0□-□□□□		1	1 unit	1DL	18.560
Motorized operating mechanism								
160	00		3NJ6204-2AA0□-□□□□		1	1 unit	1DL	6.160
250	1		3NJ6214-2AA0□-□□□□		1	1 unit	1DL	10.380
400	2		3NJ6224-2AA0□-□□□□		1	1 unit	1DL	18.900
630	3		3NJ6234-2AA0□-□□□□		1	1 unit	1DL	20.000
Mot. operat. mechanism, EFM 10								
160	00		3NJ6204-2AB0□-□□□□		1	1 unit	1DL	7.330
250	1		3NJ6214-2AB0□-□□□□		1	1 unit	1DL	10.450
400	2		3NJ6224-2AB0□-□□□□		1	1 unit	1DL	18.700
630	3		3NJ6234-2AB0□-□□□□		1	1 unit	1DL	19.060
Mot. operat. mechanism, EFM 20								
160	00		3NJ6204-2AC0□-□□□□		1	1 unit	1DL	7.330
250	1		3NJ6214-2AC0□-□□□□		1	1 unit	1DL	10.450
400	2		3NJ6224-2AC0□-□□□□		1	1 unit	1DL	18.700
630	3		3NJ6234-2AC0□-□□□□		1	1 unit	1DL	19.060
				Article No. supplement	Additional price			
				0	None			
				0 A A 0				

Standard Article No. supplement
(for more Article No. supplements, see page 7/139)

Without auxiliary switches, ammeters or current transformers



Selection and ordering data

Rated current I_n	Size	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
2-pole, high breaking capacity H								
Manually operated								
160	00T ¹⁾		3NJ6262-3AA0□-0AA0		1	1 unit	1DL	3.630
250	B2		3NJ6272-3AA0□-0AA0		1	1 unit	1DL	6.750
400	B4		3NJ6282-3AA0□-0AA0		1	1 unit	1DL	15.000
630	3T ¹⁾		3NJ6292-3AA0□-0AA0		1	1 unit	1DL	15.360
Manually operated, EFM 25								
160	00T ¹⁾		3NJ6262-3AE0□-0AA0		1	1 unit	1DL	3.830
250	B2		3NJ6272-3AE0□-0AA0		1	1 unit	1DL	6.950
400	B4		3NJ6282-3AE0□-0AA0		1	1 unit	1DL	15.200
630	3T ¹⁾		3NJ6292-3AE0□-0AA0		1	1 unit	1DL	15.560
Motorized operating mechanism								
160	00T ¹⁾		3NJ6262-4AA0□-0AA0		1	1 unit	1DL	3.630
250	B2		3NJ6272-4AA0□-0AA0		1	1 unit	1DL	6.750
400	B4		3NJ6282-4AA0□-0AA0		1	1 unit	1DL	15.000
630	3T ¹⁾		3NJ6292-4AA0□-0AA0		1	1 unit	1DL	15.360
Mot. operat. mechanism, EFM 25								
160	00T ¹⁾		3NJ6262-4AE0□-0AA0		1	1 unit	1DL	4.330
250	B2		3NJ6272-4AE0□-0AA0		1	1 unit	1DL	7.450
400	B4		3NJ6282-4AE0□-0AA0		1	1 unit	1DL	15.700
630	3T ¹⁾		3NJ6292-4AE0□-0AA0		1	1 unit	1DL	16.060
3-pole, high breaking capacity H								
Manually operated								
63	A3		3NJ6243-3AA0□-□□□□		1	1 unit	1DL	3.630
100	A3		3NJ6253-3AA0□-□□□□		1	1 unit	1DL	3.630
160	00T ¹⁾		3NJ6263-3AA0□-□□□□		1	1 unit	1DL	3.630
250	B2		3NJ6273-3AA0□-□□□□		1	1 unit	1DL	6.750
400	B4		3NJ6283-3AA0□-□□□□		1	1 unit	1DL	15.000
630	3T ¹⁾		3NJ6293-3AA0□-□□□□		1	1 unit	1DL	15.360
Manually operated, EFM 10								
160	00T ¹⁾		3NJ6263-3AB0□-□□□□		1	1 unit	1DL	3.830
250	B2		3NJ6273-3AB0□-□□□□		1	1 unit	1DL	6.950
400	B4		3NJ6283-3AB0□-□□□□		1	1 unit	1DL	15.200
630	3T ¹⁾		3NJ6293-3AB0□-□□□□		1	1 unit	1DL	15.560
Manually operated, EFM 20								
160	00T ¹⁾		3NJ6263-3AC0□-□□□□		1	1 unit	1DL	3.830
250	B2		3NJ6273-3AC0□-□□□□		1	1 unit	1DL	6.950
400	B4		3NJ6283-3AC0□-□□□□		1	1 unit	1DL	15.200
630	3T ¹⁾		3NJ6293-3AC0□-□□□□		1	1 unit	1DL	15.560
Motorized operating mechanism								
160	00T ¹⁾		3NJ6263-4AA0□-□□□□		1	1 unit	1DL	3.630
250	B2		3NJ6273-4AA0□-□□□□		1	1 unit	1DL	6.750
400	B4		3NJ6283-4AA0□-□□□□		1	1 unit	1DL	15.000
630	3T ¹⁾		3NJ6293-4AA0□-□□□□		1	1 unit	1DL	15.360
Mot. operat. mechanism, EFM 10								
160	00T ¹⁾		3NJ6263-4AB0□-□□□□		1	1 unit	1DL	4.330
250	B2		3NJ6273-4AB0□-□□□□		1	1 unit	1DL	7.450
400	B4		3NJ6283-4AB0□-□□□□		1	1 unit	1DL	15.700
630	3T ¹⁾		3NJ6293-4AB0□-□□□□		1	1 unit	1DL	16.060
Mot. operat. mechanism, EFM 20								
160	00T ¹⁾		3NJ6263-4AC0□-□□□□		1	1 unit	1DL	4.330
250	B2		3NJ6273-4AC0□-□□□□		1	1 unit	1DL	7.450
400	B4		3NJ6283-4AC0□-□□□□		1	1 unit	1DL	15.700
630	3T ¹⁾		3NJ6293-4AC0□-□□□□		1	1 unit	1DL	16.060

Article No. supplement

Additional
price

Standard Article No. supplement
(for more Article No. supplements, see page 7/139)

Without auxiliary switches, ammeters or current transformers



None

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

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For BS fuse links

Rated current I_n	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
4-pole, standard breaking capacity S								
Manually operated								
160	00T ¹⁾		3NJ6264-1AA0□-□□□□		1	1 unit	1DL	6.160
250	B2		3NJ6274-1AA0□-□□□□		1	1 unit	1DL	10.380
400	B4		3NJ6284-1AA0□-□□□□		1	1 unit	1DL	18.900
630	3T ¹⁾		3NJ6294-1AA0□-□□□□		1	1 unit	1DL	20.000
Manually operated, EFM 10								
160	00T ¹⁾		3NJ6264-1AB0□-□□□□		1	1 unit	1DL	6.830
250	B2		3NJ6274-1AB0□-□□□□		1	1 unit	1DL	9.950
400	B4		3NJ6284-1AB0□-□□□□		1	1 unit	1DL	18.200
630	3T ¹⁾		3NJ6294-1AB0□-□□□□		1	1 unit	1DL	18.560
Manually operated, EFM 20								
160	00T ¹⁾		3NJ6264-1AC0□-□□□□		1	1 unit	1DL	6.830
250	B2		3NJ6274-1AC0□-□□□□		1	1 unit	1DL	9.950
400	B4		3NJ6284-1AC0□-□□□□		1	1 unit	1DL	18.200
630	3T ¹⁾		3NJ6294-1AC0□-□□□□		1	1 unit	1DL	18.560
Motorized operating mechanism								
160	00T ¹⁾		3NJ6264-2AA0□-□□□□		1	1 unit	1DL	6.160
250	B2		3NJ6274-2AA0□-□□□□		1	1 unit	1DL	10.380
400	B4		3NJ6284-2AA0□-□□□□		1	1 unit	1DL	18.900
630	3T ¹⁾		3NJ6294-2AA0□-□□□□		1	1 unit	1DL	20.000
Mot. operat. mechanism, EFM 10								
160	00T ¹⁾		3NJ6264-2AB0□-□□□□		1	1 unit	1DL	7.330
250	B2		3NJ6274-2AB0□-□□□□		1	1 unit	1DL	10.450
400	B4		3NJ6284-2AB0□-□□□□		1	1 unit	1DL	18.700
630	3T ¹⁾		3NJ6294-2AB0□-□□□□		1	1 unit	1DL	19.060
Mot. operat. mechanism, EFM 20								
160	00T ¹⁾		3NJ6264-2AC0□-□□□□		1	1 unit	1DL	7.330
250	B2		3NJ6274-2AC0□-□□□□		1	1 unit	1DL	10.450
400	B4		3NJ6284-2AC0□-□□□□		1	1 unit	1DL	18.700
630	3T ¹⁾		3NJ6294-2AC0□-□□□□		1	1 unit	1DL	19.060

Article No. supplement

Additional
price

Standard Article No. supplement (for more Article No. supplements, see page 7/139)

Without auxiliary switches, ammeters or current transformers ▶

0 0AA0

None

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

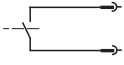
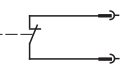
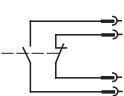
Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

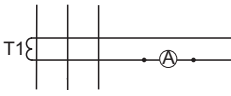
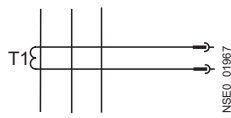
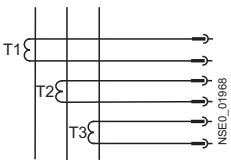
For LV HRC and BS fuse links

Options

1st Article No. supplement:**Auxiliary switch wired to multi-function plug**

		DT	Article No. supplement 3NJ62 ...-...□-....	Additional price	PS*/ P. unit
	Without	▶	0	None	1 unit
	1 NO contact		1	✓	1 unit
	1 NC contact		2	✓	1 unit
	1 NO contact + 1 NC contact		3	✓	1 unit

2nd Article No. supplement:**Ammeter and current transformer wired**

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

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

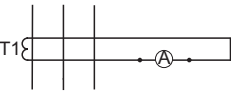
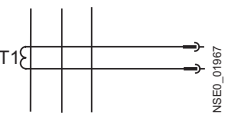
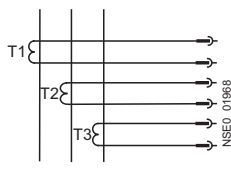
Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit
	Primary current A	Secondary current A	Accuracy class				
For sizes 00 and 00T (continued)							
1 current transformer to 1 ammeter and multi-function plug							
	Moving iron	50	1	1	1EB1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

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

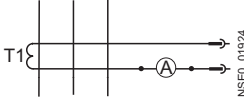
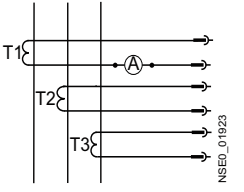
Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ...-.....-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit	
	Primary current A	Secondary current A	Accuracy class					
For sizes 1 and B2								
Without	Without	Without	Without	▶	0AA0	None	1 unit	
1 current transformer to 1 ammeter								
 NSE0_01925	Moving iron	50	1	1	1DB1	✓	1 unit	
	Moving iron	50	5	1	1DB4	✓	1 unit	
	Moving iron	100	1	1	1DD1	✓	1 unit	
	Moving iron	100	5	1	1DD4	✓	1 unit	
	Moving iron	150	1	1	1DE1	✓	1 unit	
	Moving iron	150	5	1	1DE4	✓	1 unit	
	Moving iron	200	1	1	1DF1	✓	1 unit	
	Moving iron	200	5	1	1DF4	✓	1 unit	
	Moving iron	250	1	1	1DG1	✓	1 unit	
	Moving iron	250	5	1	1DG4	✓	1 unit	
	Bi-metal	50	1	1	2DB1	✓	1 unit	
	Bi-metal	50	5	1	2DB4	✓	1 unit	
	Bi-metal	100	1	1	2DD1	✓	1 unit	
	Bi-metal	100	5	1	2DD4	✓	1 unit	
Bi-metal	150	1	1	2DE1	✓	1 unit		
Bi-metal	150	5	1	2DE4	✓	1 unit		
Bi-metal	200	1	1	2DF1	✓	1 unit		
Bi-metal	200	5	1	2DF4	✓	1 unit		
Bi-metal	250	1	1	2DG1	✓	1 unit		
Bi-metal	250	5	1	2DG4	✓	1 unit		
1 current transformer to multi-function plug								
 NSE0_01967	Without	50	1	1	0BB1	✓	1 unit	
	Without	50	5	1	0BB4	✓	1 unit	
	Without	100	1	1	0BD1	✓	1 unit	
	Without	100	1	0.5	0BD2	✓	1 unit	
	Without	100	5	1	0BD4	✓	1 unit	
	Without	100	5	0.5	0BD5	✓	1 unit	
	Without	150	1	1	0BE1	✓	1 unit	
	Without	150	1	0.5	0BE2	✓	1 unit	
	Without	150	5	1	0BE4	✓	1 unit	
	Without	150	5	0.5	0BE5	✓	1 unit	
	Without	200	1	1	0BF1	✓	1 unit	
	Without	200	1	0.5	0BF2	✓	1 unit	
	Without	200	5	1	0BF4	✓	1 unit	
	Without	200	5	0.5	0BF5	✓	1 unit	
	Without	250	1	1	0BG1	✓	1 unit	
	Without	250	1	0.5	0BG2	✓	1 unit	
	Without	250	5	1	0BG4	✓	1 unit	
	Without	250	5	0.5	0BG5	✓	1 unit	
	3 current transformers to multi-function plug							
	 NSE0_01968	Without	50	1	1	0CB1	✓	1 unit
Without		50	5	1	0CB4	✓	1 unit	
Without		100	1	1	0CD1	✓	1 unit	
Without		100	1	0.5	0CD2	✓	1 unit	
Without		100	5	1	0CD4	✓	1 unit	
Without		100	5	0.5	0CD5	✓	1 unit	
Without		150	1	1	0CE1	✓	1 unit	
Without		150	1	0.5	0CE2	✓	1 unit	
Without		150	5	1	0CE4	✓	1 unit	
Without		150	5	0.5	0CE5	✓	1 unit	
Without		200	1	1	0CF1	✓	1 unit	
Without		200	1	0.5	0CF2	✓	1 unit	
Without		200	5	1	0CF4	✓	1 unit	
Without		200	5	0.5	0CF5	✓	1 unit	
Without		250	1	1	0CG1	✓	1 unit	
Without		250	1	0.5	0CG2	✓	1 unit	
Without		250	5	1	0CG4	✓	1 unit	
Without		250	5	0.5	0CG5	✓	1 unit	

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit
		Primary current A	Secondary current A	Accuracy class				
For sizes 1 and B2 (continued)								
1 current transformer to 1 ammeter and multi-function plug								
	Moving iron	50	1	1		1EB1	✓	1 unit
	Moving iron	50	5	1		1EB4	✓	1 unit
	Moving iron	100	1	1		1ED1	✓	1 unit
	Moving iron	100	1	0.5		1ED2	✓	1 unit
	Moving iron	100	5	1		1ED4	✓	1 unit
	Moving iron	100	5	0.5		1ED5	✓	1 unit
	Moving iron	150	1	1		1EE1	✓	1 unit
	Moving iron	150	1	0.5		1EE2	✓	1 unit
	Moving iron	150	5	1		1EE4	✓	1 unit
	Moving iron	150	5	0.5		1EE5	✓	1 unit
	Moving iron	200	1	1		1EF1	✓	1 unit
	Moving iron	200	1	0.5		1EF2	✓	1 unit
	Moving iron	200	5	1		1EF4	✓	1 unit
	Moving iron	200	5	0.5		1EF5	✓	1 unit
	Moving iron	250	1	1		1EG1	✓	1 unit
	Moving iron	250	1	0.5		1EG2	✓	1 unit
	Moving iron	250	5	1		1EG4	✓	1 unit
	Moving iron	250	5	0.5		1EG5	✓	1 unit
	Bi-metal	50	1	1		2EB1	✓	1 unit
	Bi-metal	50	5	1		2EB4	✓	1 unit
	Bi-metal	100	1	1		2ED1	✓	1 unit
	Bi-metal	100	1	0.5		2ED2	✓	1 unit
	Bi-metal	100	5	1		2ED4	✓	1 unit
	Bi-metal	100	5	0.5		2ED5	✓	1 unit
	Bi-metal	150	1	1		2EE1	✓	1 unit
	Bi-metal	150	1	0.5		2EE2	✓	1 unit
	Bi-metal	150	5	1		2EE4	✓	1 unit
	Bi-metal	150	5	0.5		2EE5	✓	1 unit
	Bi-metal	200	1	1		2EF1	✓	1 unit
	Bi-metal	200	1	0.5		2EF2	✓	1 unit
	Bi-metal	200	5	1		2EF4	✓	1 unit
	Bi-metal	200	5	0.5		2EF5	✓	1 unit
Bi-metal	250	1	1		2EG1	✓	1 unit	
Bi-metal	250	1	0.5		2EG2	✓	1 unit	
Bi-metal	250	5	1		2EG4	✓	1 unit	
Bi-metal	250	5	0.5		2EG5	✓	1 unit	
3 current transformers to 1 ammeter and multi-function plug								
	Moving iron	50	1	1		1FB1	✓	1 unit
	Moving iron	50	5	1		1FB4	✓	1 unit
	Moving iron	100	1	1		1FD1	✓	1 unit
	Moving iron	100	1	0.5		1FD2	✓	1 unit
	Moving iron	100	5	1		1FD4	✓	1 unit
	Moving iron	100	5	0.5		1FD5	✓	1 unit
	Moving iron	150	1	1		1FE1	✓	1 unit
	Moving iron	150	1	0.5		1FE2	✓	1 unit
	Moving iron	150	5	1		1FE4	✓	1 unit
	Moving iron	150	5	0.5		1FE5	✓	1 unit
	Moving iron	200	1	1		1FF1	✓	1 unit
	Moving iron	200	1	0.5		1FF2	✓	1 unit
	Moving iron	200	5	1		1FF4	✓	1 unit
	Moving iron	200	5	0.5		1FF5	✓	1 unit
	Moving iron	250	1	1		1FG1	✓	1 unit
	Moving iron	250	1	0.5		1FG2	✓	1 unit
	Moving iron	250	5	1		1FG4	✓	1 unit
	Moving iron	250	5	0.5		1FG5	✓	1 unit
	Bi-metal	50	1	1		2FB1	✓	1 unit
	Bi-metal	50	5	1		2FB4	✓	1 unit
	Bi-metal	100	1	1		2FD1	✓	1 unit
	Bi-metal	100	1	0.5		2FD2	✓	1 unit
	Bi-metal	100	5	1		2FD4	✓	1 unit
	Bi-metal	100	5	0.5		2FD5	✓	1 unit
	Bi-metal	150	1	1		2FE1	✓	1 unit
	Bi-metal	150	1	0.5		2FE2	✓	1 unit
	Bi-metal	150	5	1		2FE4	✓	1 unit
	Bi-metal	150	5	0.5		2FE5	✓	1 unit
	Bi-metal	200	1	1		2FF1	✓	1 unit
	Bi-metal	200	1	0.5		2FF2	✓	1 unit
	Bi-metal	200	5	1		2FF4	✓	1 unit
	Bi-metal	200	5	0.5		2FF5	✓	1 unit
Bi-metal	250	1	1		2FG1	✓	1 unit	
Bi-metal	250	1	0.5		2FG2	✓	1 unit	
Bi-metal	250	5	1		2FG4	✓	1 unit	
Bi-metal	250	5	0.5		2FG5	✓	1 unit	

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

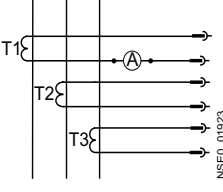
	Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit	
		Primary current	Secondary current	Accuracy class					
For sizes 2 and B4									
	Without	Without	Without			0AA0	None	1 unit	
	1 current transformer to 1 ammeter								
	Moving iron	300	1	1		1DH1	✓	1 unit	
	Moving iron	300	5	1		1DH4	✓	1 unit	
	Moving iron	400	1	1		1DJ1	✓	1 unit	
	Moving iron	400	5	1		1DJ4	✓	1 unit	
	Bi-metal	300	1	1		2DH1	✓	1 unit	
	Bi-metal	300	5	1		2DH4	✓	1 unit	
	Bi-metal	400	1	1		2DJ1	✓	1 unit	
	Bi-metal	400	5	1		2DJ4	✓	1 unit	
	1 current transformer to multi-function plug								
	Without	300	1	1		0BH1	✓	1 unit	
	Without	300	1	0.5		0BH2	✓	1 unit	
	Without	300	1	0.5 calibrated		0BH3	✓	1 unit	
	Without	300	5	1		0BH4	✓	1 unit	
	Without	300	5	0.5		0BH5	✓	1 unit	
	Without	300	5	0.5 calibrated		0BH6	✓	1 unit	
	Without	400	1	1		0BJ1	✓	1 unit	
	Without	400	1	0.5		0BJ2	✓	1 unit	
	Without	400	1	0.5 calibrated		0BJ3	✓	1 unit	
	Without	400	5	1		0BJ4	✓	1 unit	
	Without	400	5	0.5		0BJ5	✓	1 unit	
	Without	400	5	0.5 calibrated		0BJ6	✓	1 unit	
		3 current transformers to multi-function plug							
		Without	300	1	1		0CH1	✓	1 unit
Without		300	1	0.5		0CH2	✓	1 unit	
Without		300	1	0.5 calibrated		0CH3	✓	1 unit	
Without		300	5	1		0CH4	✓	1 unit	
Without		300	5	0.5		0CH5	✓	1 unit	
Without		300	5	0.5 calibrated		0CH6	✓	1 unit	
Without		400	1	1		0CJ1	✓	1 unit	
Without		400	1	0.5		0CJ2	✓	1 unit	
Without		400	1	0.5 calibrated		0CJ3	✓	1 unit	
Without		400	5	1		0CJ4	✓	1 unit	
Without		400	5	0.5		0CJ5	✓	1 unit	
Without		400	5	0.5 calibrated		0CJ6	✓	1 unit	
		1 current transformer to 1 ammeter and multi-function plug							
		Moving iron	300	1	1		1EH1	✓	1 unit
	Moving iron	300	1	0.5		1EH2	✓	1 unit	
	Moving iron	300	1	0.5 calibrated		1EH3	✓	1 unit	
	Moving iron	300	5	1		1EH4	✓	1 unit	
	Moving iron	300	5	0.5		1EH5	✓	1 unit	
	Moving iron	300	5	0.5 calibrated		1EH6	✓	1 unit	
	Moving iron	400	1	1		1EJ1	✓	1 unit	
	Moving iron	400	1	0.5		1EJ2	✓	1 unit	
	Moving iron	400	1	0.5 calibrated		1EJ3	✓	1 unit	
	Moving iron	400	5	1		1EJ4	✓	1 unit	
	Moving iron	400	5	0.5		1EJ5	✓	1 unit	
	Moving iron	400	5	0.5 calibrated		1EJ6	✓	1 unit	
	Bi-metal	300	1	1		2EH1	✓	1 unit	
	Bi-metal	300	1	0.5		2EH2	✓	1 unit	
	Bi-metal	300	1	0.5 calibrated		2EH3	✓	1 unit	
	Bi-metal	300	5	1		2EH4	✓	1 unit	
	Bi-metal	300	5	0.5		2EH5	✓	1 unit	
	Bi-metal	300	5	0.5 calibrated		2EH6	✓	1 unit	
	Bi-metal	400	1	1		2EJ1	✓	1 unit	
	Bi-metal	400	1	0.5		2EJ2	✓	1 unit	
	Bi-metal	400	1	0.5 calibrated		2EJ3	✓	1 unit	
	Bi-metal	400	5	1		2EJ4	✓	1 unit	
	Bi-metal	400	5	0.5		2EJ5	✓	1 unit	
	Bi-metal	400	5	0.5 calibrated		2EJ6	✓	1 unit	

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ..-.....-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit
		Primary current A	Secondary current A	Accuracy class				
For sizes 2 and B4 (continued)								
3 current transformers to 1 ammeter and multi-function plug								
	Moving iron	300	1	1		1FH1	✓	1 unit
	Moving iron	300	1	0.5		1FH2	✓	1 unit
	Moving iron	300	1	0.5 calibrated		1FH3	✓	1 unit
	Moving iron	300	5	1		1FH4	✓	1 unit
	Moving iron	300	5	0.5		1FH5	✓	1 unit
	Moving iron	300	5	0.5 calibrated		1FH6	✓	1 unit
	Moving iron	400	1	1		1FJ1	✓	1 unit
	Moving iron	400	1	0.5		1FJ2	✓	1 unit
	Moving iron	400	1	0.5 calibrated		1FJ3	✓	1 unit
	Moving iron	400	5	1		1FJ4	✓	1 unit
	Moving iron	400	5	0.5		1FJ5	✓	1 unit
	Moving iron	400	5	0.5 calibrated		1FJ6	✓	1 unit
	Bi-metal	300	1	1		2FH1	✓	1 unit
	Bi-metal	300	1	0.5		2FH2	✓	1 unit
	Bi-metal	300	1	0.5 calibrated		2FH3	✓	1 unit
	Bi-metal	300	5	1		2FH4	✓	1 unit
	Bi-metal	300	5	0.5		2FH5	✓	1 unit
	Bi-metal	300	5	0.5 calibrated		2FH6	✓	1 unit
	Bi-metal	400	1	1		2FJ1	✓	1 unit
	Bi-metal	400	1	0.5		2FJ2	✓	1 unit
	Bi-metal	400	1	0.5 calibrated		2FJ3	✓	1 unit
	Bi-metal	400	5	1		2FJ4	✓	1 unit
	Bi-metal	400	5	0.5		2FJ5	✓	1 unit
	Bi-metal	400	5	0.5 calibrated		2FJ6	✓	1 unit

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

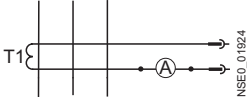
	Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit	
		Primary current A	Secondary current A	Accuracy class					
For sizes 3 and 3T									
	Without	Without	Without	Without	▶	0AA0	None	1 unit	
	1 current transformer to 1 ammeter								
<p>NSE0_01925</p>	Moving iron	300	1	1		1DH1	✓	1 unit	
	Moving iron	300	5	1		1DH4	✓	1 unit	
	Moving iron	400	1	1		1DJ1	✓	1 unit	
	Moving iron	400	5	1		1DJ4	✓	1 unit	
	Moving iron	500	1	1		1DK1	✓	1 unit	
	Moving iron	500	5	1		1DK4	✓	1 unit	
	Moving iron	600	1	1		1DL1	✓	1 unit	
	Moving iron	600	5	1		1DL4	✓	1 unit	
	Bi-metal	300	1	1		2DH1	✓	1 unit	
	Bi-metal	300	5	1		2DH4	✓	1 unit	
	Bi-metal	400	1	1		2DJ1	✓	1 unit	
	Bi-metal	400	5	1		2DJ4	✓	1 unit	
	Bi-metal	500	1	1		2DK1	✓	1 unit	
	Bi-metal	500	5	1		2DK4	✓	1 unit	
	Bi-metal	600	1	1		2DL1	✓	1 unit	
	Bi-metal	600	5	1		2DL4	✓	1 unit	
		1 current transformer to multi-function plug							
	<p>NSE0_01967</p>	Without	300	1	1		0BH1	✓	1 unit
Without		300	1	0.5		0BH2	✓	1 unit	
Without		300	1	0.5 calibrated		0BH3	✓	1 unit	
Without		300	5	1		0BH4	✓	1 unit	
Without		300	5	0.5		0BH5	✓	1 unit	
Without		300	5	0.5 calibrated		0BH6	✓	1 unit	
Without		400	1	1		0BJ1	✓	1 unit	
Without		400	1	0.5		0BJ2	✓	1 unit	
Without		400	1	0.5 calibrated		0BJ3	✓	1 unit	
Without		400	5	1		0BJ4	✓	1 unit	
Without		400	5	0.5		0BJ5	✓	1 unit	
Without		400	5	0.5 calibrated		0BJ6	✓	1 unit	
Without		500	1	1		0BK1	✓	1 unit	
Without		500	1	0.5		0BK2	✓	1 unit	
Without		500	1	0.5 calibrated		0BK3	✓	1 unit	
Without		500	5	1		0BK4	✓	1 unit	
Without		500	5	0.5		0BK5	✓	1 unit	
Without		500	5	0.5 calibrated		0BK6	✓	1 unit	
Without		600	1	1		0BL1	✓	1 unit	
Without		600	1	0.5		0BL2	✓	1 unit	
Without		600	1	0.5 calibrated		0BL3	✓	1 unit	
Without		600	5	1		0BL4	✓	1 unit	
Without		600	5	0.5		0BL5	✓	1 unit	
Without		600	5	0.5 calibrated		0BL6	✓	1 unit	
		3 current transformers to multi-function plug							
<p>NSE0_01968</p>		Without	300	1	1		0CH1	✓	1 unit
		Without	300	1	0.5		0CH2	✓	1 unit
		Without	300	1	0.5 calibrated		0CH3	✓	1 unit
		Without	300	5	1		0CH4	✓	1 unit
		Without	300	5	0.5		0CH5	✓	1 unit
	Without	300	5	0.5 calibrated		0CH6	✓	1 unit	
	Without	400	1	1		0CJ1	✓	1 unit	
	Without	400	1	0.5		0CJ2	✓	1 unit	
	Without	400	1	0.5 calibrated		0CJ3	✓	1 unit	
	Without	400	5	1		0CJ4	✓	1 unit	
	Without	400	5	0.5		0CJ5	✓	1 unit	
	Without	400	5	0.5 calibrated		0CJ6	✓	1 unit	
	Without	500	1	1		0CK1	✓	1 unit	
	Without	500	1	0.5		0CK2	✓	1 unit	
	Without	500	1	0.5 calibrated		0CK3	✓	1 unit	
	Without	500	5	1		0CK4	✓	1 unit	
	Without	500	5	0.5		0CK5	✓	1 unit	
	Without	500	5	0.5 calibrated		0CK6	✓	1 unit	
	Without	600	1	1		0CL1	✓	1 unit	
	Without	600	1	0.5		0CL2	✓	1 unit	
	Without	600	1	0.5 calibrated		0CL3	✓	1 unit	
	Without	600	5	1		0CL4	✓	1 unit	
	Without	600	5	0.5		0CL5	✓	1 unit	
	Without	600	5	0.5 calibrated		0CL6	✓	1 unit	

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

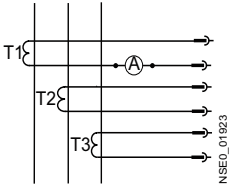
	Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ..-....-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit
		Primary current A	Secondary current A	Accuracy class				
For sizes 3 and 3T (continued)								
1 current transformer to 1 ammeter and multi-function plug								
	Moving iron	400	1	1		1EH1	✓	1 unit
	Moving iron	400	1	0.5		1EH2	✓	1 unit
	Moving iron	300	1	0.5 calibrated		1EH3	✓	1 unit
	Moving iron	300	5	1		1EH4	✓	1 unit
	Moving iron	300	5	0.5		1EH5	✓	1 unit
	Moving iron	300	5	0.5 calibrated		1EH6	✓	1 unit
	Moving iron	400	1	1		1EJ1	✓	1 unit
	Moving iron	400	1	0.5		1EJ2	✓	1 unit
	Moving iron	400	1	0.5 calibrated		1EJ3	✓	1 unit
	Moving iron	400	5	1		1EJ4	✓	1 unit
	Moving iron	400	5	0.5		1EJ5	✓	1 unit
	Moving iron	400	5	0.5 calibrated		1EJ6	✓	1 unit
	Moving iron	500	1	1		1EK1	✓	1 unit
	Moving iron	500	1	0.5		1EK2	✓	1 unit
	Moving iron	500	1	0.5 calibrated		1EK3	✓	1 unit
	Moving iron	500	5	1		1EK4	✓	1 unit
	Moving iron	500	5	0.5		1EK5	✓	1 unit
	Moving iron	500	5	0.5 calibrated		1EK6	✓	1 unit
	Moving iron	600	1	1		1EL1	✓	1 unit
	Moving iron	600	1	0.5		1EL2	✓	1 unit
	Moving iron	600	1	0.5 calibrated		1EL3	✓	1 unit
	Moving iron	600	5	1		1EL4	✓	1 unit
	Moving iron	600	5	0.5		1EL5	✓	1 unit
	Moving iron	600	5	0.5 calibrated		1EL6	✓	1 unit
	Bi-metal	300	1	1		2EH1	✓	1 unit
	Bi-metal	300	1	0.5		2EH2	✓	1 unit
	Bi-metal	300	1	0.5 calibrated		2EH3	✓	1 unit
	Bi-metal	300	5	1		2EH4	✓	1 unit
	Bi-metal	300	5	0.5		2EH5	✓	1 unit
	Bi-metal	300	5	0.5 calibrated		2EH6	✓	1 unit
	Bi-metal	400	1	1		2EJ1	✓	1 unit
	Bi-metal	400	1	0.5		2EJ2	✓	1 unit
	Bi-metal	400	1	0.5 calibrated		2EJ3	✓	1 unit
	Bi-metal	400	5	1		2EJ4	✓	1 unit
	Bi-metal	400	5	0.5		2EJ5	✓	1 unit
	Bi-metal	400	5	0.5 calibrated		2EJ6	✓	1 unit
Bi-metal	500	1	1		2EK1	✓	1 unit	
Bi-metal	500	1	0.5		2EK2	✓	1 unit	
Bi-metal	500	1	0.5 calibrated		2EK3	✓	1 unit	
Bi-metal	500	5	1		2EK4	✓	1 unit	
Bi-metal	500	5	0.5		2EK5	✓	1 unit	
Bi-metal	500	5	0.5 calibrated		2EK6	✓	1 unit	
Bi-metal	600	1	1		2EL1	✓	1 unit	
Bi-metal	600	1	0.5		2EL2	✓	1 unit	
Bi-metal	600	1	0.5 calibrated		2EL3	✓	1 unit	
Bi-metal	600	5	1		2EL4	✓	1 unit	
Bi-metal	600	5	0.5		2EL5	✓	1 unit	
Bi-metal	600	5	0.5 calibrated		2EL6	✓	1 unit	

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Article No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/P. unit
		Primary current A	Secondary current A	Accuracy class				
For sizes 3 and 3T (continued)								
	3 current transformers to 1 ammeter and multi-function plug							
	Moving iron	300	1	1		1FH1	✓	1 unit
	Moving iron	300	1	0.5		1FH2	✓	1 unit
	Moving iron	300	1	0.5 calibrated		1FH3	✓	1 unit
	Moving iron	300	5	1		1FH4	✓	1 unit
	Moving iron	300	5	0.5		1FH5	✓	1 unit
	Moving iron	300	5	0.5 calibrated		1FH6	✓	1 unit
	Moving iron	400	1	1		1FJ1	✓	1 unit
	Moving iron	400	1	0.5		1FJ2	✓	1 unit
	Moving iron	400	1	0.5 calibrated		1FJ3	✓	1 unit
	Moving iron	400	5	1		1FJ4	✓	1 unit
	Moving iron	400	5	0.5		1FJ5	✓	1 unit
	Moving iron	400	5	0.5 calibrated		1FJ6	✓	1 unit
	Moving iron	500	1	1		1FK1	✓	1 unit
	Moving iron	500	1	0.5		1FK2	✓	1 unit
	Moving iron	500	1	0.5 calibrated		1FK3	✓	1 unit
	Moving iron	500	5	1		1FK4	✓	1 unit
	Moving iron	500	5	0.5		1FK5	✓	1 unit
	Moving iron	500	5	0.5 calibrated		1FK6	✓	1 unit
	Moving iron	600	1	1		1FL1	✓	1 unit
	Moving iron	600	1	0.5		1FL2	✓	1 unit
	Moving iron	600	1	0.5 calibrated		1FL3	✓	1 unit
	Moving iron	600	5	1		1FL4	✓	1 unit
	Moving iron	600	5	0.5		1FL5	✓	1 unit
	Moving iron	600	5	0.5 calibrated		1FL6	✓	1 unit
	Bi-metal	300	1	1		2FH1	✓	1 unit
	Bi-metal	300	1	0.5		2FH2	✓	1 unit
	Bi-metal	300	1	0.5 calibrated		2FH3	✓	1 unit
	Bi-metal	300	5	1		2FH4	✓	1 unit
	Bi-metal	300	5	0.5		2FH5	✓	1 unit
	Bi-metal	300	5	0.5 calibrated		2FH6	✓	1 unit
	Bi-metal	400	1	1		2FJ1	✓	1 unit
	Bi-metal	400	1	0.5		2FJ2	✓	1 unit
	Bi-metal	400	1	0.5 calibrated		2FJ3	✓	1 unit
	Bi-metal	400	5	1		2FJ4	✓	1 unit
	Bi-metal	400	5	0.5		2FJ5	✓	1 unit
	Bi-metal	400	5	0.5 calibrated		2FJ6	✓	1 unit
	Bi-metal	500	1	1		2FK1	✓	1 unit
	Bi-metal	500	1	0.5		2FK2	✓	1 unit
	Bi-metal	500	1	0.5 calibrated		2FK3	✓	1 unit
	Bi-metal	500	5	1		2FK4	✓	1 unit
	Bi-metal	500	5	0.5		2FK5	✓	1 unit
	Bi-metal	500	5	0.5 calibrated		2FK6	✓	1 unit
	Bi-metal	600	1	1		2FL1	✓	1 unit
	Bi-metal	600	1	0.5		2FL2	✓	1 unit
	Bi-metal	600	1	0.5 calibrated		2FL3	✓	1 unit
	Bi-metal	600	5	1		2FL4	✓	1 unit
	Bi-metal	600	5	0.5		2FL5	✓	1 unit
Bi-metal	600	5	0.5 calibrated		2FL6	✓	1 unit	

✓ Additional price

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Accessories

Selection and ordering data

Version	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For sizes 00, A3 and 00T							
Terminals							
 3NJ6923-1BA00		Single terminal for 2-/3-pole devices, 10 ... 95 mm ² (1 set = 3 units)		3NJ6923-1BA00	1	1 unit	1DL 0.239
		Single terminal for 4-pole devices, 10 ... 95 mm ² (1 set = 4 units)		3NJ6924-1BA00	1	1 unit	1DL 0.320
Terminal covers							
 3NJ6923-1DA00		For 2-/3-pole devices		3NJ6923-1DA00	1	1 unit	1DL 0.091
		Only for 4th pole		3NJ6904-1DA00	1	1 unit	1DL 0.063
Contact extensions							
 3NJ6923-1EB00		3-pole		3NJ6923-1EB00	1	1 unit	1DL 1.998
		4-pole		3NJ6924-1EB00	1	1 unit	1DL 2.810
Electronic fuse monitoring and line monitoring devices							
 3NJ6923-3FB00		EFM 10, fuse monitoring for AC networks		3NJ6920-3FB00	1	1 unit	1DL 0.100
		EFM 20, fuse monitoring and line monitoring for AC networks		3NJ6920-3FC00	1	1 unit	1DL 0.100
 3NJ6923-3FE00		EFM 25, fuse monitoring and line monitoring for DC networks		3NJ6920-3FE00	1	1 unit	1DL 0.100
Auxiliary switches							
 3NJ6920-2BB00		1 NO contact (1 NO) with cover		3NJ6920-2BB00	1	1 unit	1DL 0.097
		1 NO contact (1 NO)		3NJ6900-2BC00	1	1 unit	1DL 0.013
		1 NC contact (1 NC) with cover		3NJ6920-2CB00	1	1 unit	1DL 0.092
		1 NC contact (1 NC)		3NJ6900-2CC00	1	1 unit	1DL 0.013
 3NJ6900-2BC00							
Current transformers for main devices and contact extensions							
∅ = Feed-through opening diameter							
The current transformers can also be used with the 7KM PAC measuring devices, see chapter "Measuring Devices and Power Monitoring"							
 3NJ6920-3BD11		50 A/1 A Class 1 1 VA, ∅ 21 mm		3NJ6920-3BB11	1	1 unit	1DL 0.171
		50 A/5 A Class 1 1 VA, ∅ 21 mm		3NJ6920-3BB21	1	1 unit	1DL 0.179
		100 A/1 A Class 1 2.5 VA, ∅ 21 mm		3NJ6920-3BD11	1	1 unit	1DL 0.182
		100 A/1 A Class 0.5 1.5 VA, ∅ 21 mm		3NJ6920-3BD12	1	1 unit	1DL 0.184
		100 A/1 A Class 0.5 calibrated 1.5 VA, ∅ 14 mm		3NJ6920-3BD13	1	1 unit	1DL 0.184
		100 A/5 A Class 1 2.5 VA, ∅ 21 mm		3NJ6920-3BD21	1	1 unit	1DL 0.175
		100 A/5 A Class 0.5 1.5 VA, ∅ 21 mm		3NJ6920-3BD22	1	1 unit	1DL 0.190
		100 A/5 A Class 0.5 calibrated 1.5 VA, ∅ 14 mm		3NJ6920-3BD23	1	1 unit	1DL 0.187
		150 A/1 A Class 1 2.5 VA, ∅ 21 mm		3NJ6920-3BE11	1	1 unit	1DL 0.175
		150 A/1 A Class 0.5 1.5 VA, ∅ 21 mm		3NJ6920-3BE12	1	1 unit	1DL 0.182
		150 A/1 A Class 0.5 calibrated 2.5 VA, ∅ 14 mm		3NJ6920-3BE13	1	1 unit	1DL 0.222
		150 A/5 A Class 1 1.5 VA, ∅ 21 mm		3NJ6920-3BE21	1	1 unit	1DL 0.185
		150 A/5 A Class 0.5 1.5 VA, ∅ 21 mm		3NJ6920-3BE22	1	1 unit	1DL 0.183
		150 A/5 A Class 0.5 calibrated 2.5 VA, ∅ 14 mm		3NJ6920-3BE23	1	1 unit	1DL 0.182

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
For sizes 00, A3 and 00T (continued)								
 3NJ6920-3DB00	Current transformer busbars for current transformers with feed-through opening Ø 21 mm							
	For 1 current transformer	3NJ6920-3DB00		1	1 unit	1DL	0.066	
	For 3 current transformers	3NJ6920-3DC00		1	1 unit	1DL	0.191	
 3NJ6920-3DD00	Current transformer busbars for current transformers with feed-through opening Ø 14 mm							
	For 1 current transformer	3NJ6920-3DE00		1	1 unit	1DL	0.062	
	For 3 current transformers	3NJ6920-3DF00		1	1 unit	1DL	0.182	
 3NJ6920-3DG00	Current transformer busbars for current transformers with feed-through opening Ø 14 mm							
	For 1 current transformer	3NJ6920-3DE00		1	1 unit	1DL	0.062	
	For 3 current transformers	3NJ6920-3DF00		1	1 unit	1DL	0.182	
 3NJ6920-3DD00	Current transformer busbars for current transformers with feed-through opening Ø 14 mm							
	For 1 current transformer	3NJ6920-3DE00		1	1 unit	1DL	0.062	
	For 3 current transformers	3NJ6920-3DF00		1	1 unit	1DL	0.182	
 3NJ6900-4GA00	Holders for ammeters		3NJ6900-4GA00		1	1 unit	1DL	0.047
	For sizes 00, 1, 2, 3							
 3NJ6900-4H...	Ammeters							
	Moving-iron measuring instruments for measurements on transformer x/1 A with double overload							
	50 A/1 A 0.6 VA	3NJ6900-4HB11		1	1 unit	1DL	0.082	
100 A/1 A 0.6 VA	3NJ6900-4HD11		1	1 unit	1DL	0.086		
150 A/1 A 0.6 VA	3NJ6900-4HE11		1	1 unit	1DL	0.085		
 3NJ6900-4H...	Moving-iron measuring instruments for measurements on transformer x/5 A with double overload							
	50 A/5 A 0.6 VA	3NJ6900-4HB21		1	1 unit	1DL	0.092	
	100 A/5 A 0.6 VA	3NJ6900-4HD21		1	1 unit	1DL	0.093	
150 A/5 A 0.6 VA	3NJ6900-4HE21		1	1 unit	1DL	0.092		
 3NJ6900-4H...	Bi-metal measuring instruments for measurements on transformer x/1 A with 1.2-times overload							
	50 A/1 A 1 VA	3NJ6900-4HB12		1	1 unit	1DL	0.063	
	100 A/1 A 1 VA	3NJ6900-4HD12		1	1 unit	1DL	0.064	
150 A/1 A 1 VA	3NJ6900-4HE12		1	1 unit	1DL	0.068		
 3NJ6900-4H...	Bi-metal measuring instruments for measurements on transformer x/5 A with 1.2-times overload							
	50 A/5 A 1 VA	3NJ6900-4HB22		1	1 unit	1DL	0.080	
	100 A/5 A 1 VA	3NJ6900-4HD22		1	1 unit	1DL	0.065	
150 A/5 A 1 VA	3NJ6900-4HE22		1	1 unit	1DL	0.065		
 3NJ6920-3EB00	Multi-function plugs							
	6 x 2.5 mm ² , with fixing screws	3NJ6920-3EB00		1	1 unit	1DL	0.043	
	8 x 2.5 mm ² , without fixing screws	3NJ6920-3ED00		1	1 unit	1DL	0.053	
 3NJ6920-3ED00	Multi-function plugs							
	10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws	3NJ6920-3EE00		1	1 unit	1DL	0.068	
 3NJ6920-3EE00	Front panels							
	For NH: 3NJ6203-1AA... and 3NJ6203-3AA... without/with EFM	3NJ6923-4BB00		1	1 unit	1DL	0.370	
	For BS: 3NJ6203-1AA... and 3NJ6203-3AA... without/with EFM	3NJ6923-4BC00		1	1 unit	1DL	0.400	








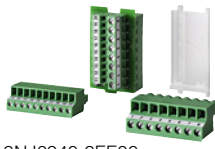

¹⁾ Not available in combination with multi-function plugs.

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
For sizes 1 and B2								
 3NJ6933-1BA00	Terminals Single terminal for 2-/3-pole devices, 16 ... 300 mm ² (1 set = 3 units) Single terminal for 4-pole devices, 16 ... 300 mm ² (1 set = 4 units)		3NJ6933-1BA00	1	1 unit	1DL	0.440	
			3NJ6934-1BA00	1	1 unit	1DL	0.591	
 3NJ6933-1DB00	Terminal covers For 2-/3-pole devices Internal terminal covers for 2-/3-pole devices Only for 4th pole		3NJ6933-1DA01	1	1 unit	1DL	0.166	
			3NJ6933-1DB00	1	1 unit	1DL	0.026	
			3NJ6904-1DA00	1	1 unit	1DL	0.063	
 3NJ6933-1EB00	Contact extensions 3-pole 4-pole		3NJ6933-1EB00	1	1 unit	1DL	2.820	
			3NJ6934-1EB00	1	1 unit	1DL	4.103	
 3NJ6923-3FB00	Electronic fuse monitoring and line monitoring devices EFM 10, fuse monitoring for AC networks EFM 20, fuse monitoring and line monitoring for AC networks EFM 25, fuse monitoring and line monitoring for DC networks		3NJ6930-3FB00	1	1 unit	1DL	0.100	
			3NJ6930-3FC00	1	1 unit	1DL	0.110	
			3NJ6930-3FE00	1	1 unit	1DL	0.100	
 3NJ6923-3FC00	Auxiliary switches 1 NO contact (1 NO) with cover 1 NO contact (1 NO) 1 NC contact (1 NC) with cover 1 NC contact (1 NC)		3NJ6930-2BB00	1	1 unit	1DL	0.061	
			3NJ6900-2BC00	1	1 unit	1DL	0.013	
			3NJ6930-2CB00	1	1 unit	1DL	0.060	
			3NJ6900-2CC00	1	1 unit	1DL	0.013	
 3NJ6930-2BB00	Current transformers for main devices and contact extensions Ø = Feed-through opening diameter The current transformers can also be used with the 7KM PAC measuring devices, see chapter "Measuring Devices and Power Monitoring"							
	 3NJ6920-3BD11	50 A/1 A	Class 1	1 VA, Ø 21 mm	3NJ6920-3BB11	1	1 unit	1DL
50 A/5 A		Class 1	1 VA, Ø 21 mm	3NJ6920-3BB21	1	1 unit	1DL	0.179
100 A/1 A		Class 1	2.5 VA, Ø 21 mm	3NJ6920-3BD11	1	1 unit	1DL	0.182
100 A/1 A		Class 0.5	1.5 VA, Ø 21 mm	3NJ6920-3BD12	1	1 unit	1DL	0.184
100 A/5 A		Class 1	2.5 VA, Ø 21 mm	3NJ6920-3BD21	1	1 unit	1DL	0.175
100 A/5 A		Class 0.5	1.5 VA, Ø 21 mm	3NJ6920-3BD22	1	1 unit	1DL	0.190
150 A/1 A		Class 1	2.5 VA, Ø 21 mm	3NJ6920-3BE11	1	1 unit	1DL	0.175
150 A/1 A		Class 0.5	1.5 VA, Ø 21 mm	3NJ6920-3BE12	1	1 unit	1DL	0.182
150 A/5 A		Class 1	1.5 VA, Ø 21 mm	3NJ6920-3BE21	1	1 unit	1DL	0.185
150 A/5 A		Class 0.5	1.5 VA, Ø 21 mm	3NJ6920-3BE22	1	1 unit	1DL	0.183
200 A/1 A		Class 1	2.5 VA, Ø 21 mm	3NJ6930-3BF11	1	1 unit	1DL	0.191
200 A/1 A		Class 0.5	5 VA, Ø 21 mm	3NJ6930-3BF12	1	1 unit	1DL	0.188
200 A/5 A		Class 1	2.5 VA, Ø 21 mm	3NJ6930-3BF21	1	1 unit	1DL	0.162
200 A/5 A		Class 0.5	2.5 VA, Ø 21 mm	3NJ6930-3BF22	1	1 unit	1DL	0.167
250 A/1 A		Class 1	5 VA, Ø 21 mm	3NJ6930-3BG11	1	1 unit	1DL	0.203
250 A/1 A		Class 0.5	5 VA, Ø 21 mm	3NJ6930-3BG12	1	1 unit	1DL	0.186
250 A/5 A		Class 1	2.5 VA, Ø 21 mm	3NJ6930-3BG21	1	1 unit	1DL	0.181
250 A/5 A		Class 0.5	2.5 VA, Ø 21 mm	3NJ6930-3BG22	1	1 unit	1DL	0.177






Version	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For sizes 1 and B2 (continued)							
		Current transformer busbars for current transformers with feed-through opening \varnothing 21 mm					
3NJ6930-3DB00		For 1 current transformer			1	1 unit	1DL 0.121
		For 3 current transformers			1	1 unit	1DL 0.374
3NJ6930-3DC00		For 4 current transformers ¹⁾			1	1 unit	1DL 0.382
							
3NJ6930-3DD00							
		Holders for ammeters			1	1 unit	1DL 0.047
3NJ6900-4GA00		For sizes 00, 1, 2, 3					
		Ammeters					
3NJ6900-4H...		Moving-iron measuring instruments for measurements on transformer x/1 A with double overload					
		50 A/1 A 0.6 VA			1	1 unit	1DL 0.082
		100 A/1 A 0.6 VA			1	1 unit	1DL 0.086
		150 A/1 A 0.6 VA			1	1 unit	1DL 0.085
		200 A/1 A 0.6 VA			1	1 unit	1DL 0.085
		250 A/1 A 0.6 VA			1	1 unit	1DL 0.086
		Moving-iron measuring instruments for measurements on transformer x/5 A with double overload					
		50 A/5 A 0.6 VA			1	1 unit	1DL 0.092
		100 A/5 A 0.6 VA			1	1 unit	1DL 0.093
		150 A/5 A 0.6 VA			1	1 unit	1DL 0.092
		200 A/5 A 0.6 VA			1	1 unit	1DL 0.092
		250 A/5 A 0.6 VA			1	1 unit	1DL 0.089
		Bi-metal measuring instruments for measurements on transformer x/1 A with 1.2-times overload					
3NJ6900-4H...		50 A/1 A 1 VA			1	1 unit	1DL 0.063
		100 A/1 A 1 VA			1	1 unit	1DL 0.064
		150 A/1 A 1 VA			1	1 unit	1DL 0.068
		200 A/1 A 1 VA			1	1 unit	1DL 0.067
		250 A/1 A 1 VA			1	1 unit	1DL 0.064
		Bi-metal measuring instruments for measurements on transformer x/5 A with 1.2-times overload					
		50 A/5 A 1 VA			1	1 unit	1DL 0.080
		100 A/5 A 1 VA			1	1 unit	1DL 0.065
		150 A/5 A 1 VA			1	1 unit	1DL 0.065
		200 A/5 A 1 VA			1	1 unit	1DL 0.068
		250 A/5 A 1 VA			1	1 unit	1DL 0.066
		Multi-function plugs					
3NJ6920-3EB00		6 x 2.5 mm ² , with fixing screws			1	1 unit	1DL 0.043
		8 x 2.5 mm ² , without fixing screws			1	1 unit	1DL 0.053
		10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws			1	1 unit	1DL 0.068
							
3NJ6940-3EE00							
		Front panels					
3NJ6933-4BB00		For NH: 3NJ6213-1AA... and 3NJ6213-3AA... without/with EFM			1	1 unit	1DL 0.521
		For BS: 3NJ6213-1AA... and 3NJ6213-3AA... without/with EFM			1	1 unit	1DL 0.500

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






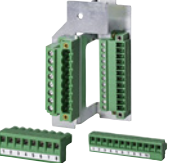

Switch Disconnectors

3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 2, 3, B4 and 3T							
 3NJ6943-1CA00	Terminals						
	Double terminal for 2-/3-pole devices, 2 x (16 mm ² ... 300 mm ² , 1 set = 6 units)	3NJ6943-1CA00		1	1 unit	1DL	0.920
 3NJ6943-1DA00	Terminal covers						
	For 2-/3-pole devices Only for 4th pole	3NJ6943-1DA00 3NJ6904-1DA00		1 1	1 unit 1 unit	1DL 1DL	0.173 0.063
 3NJ6944-1EB00	Contact extensions						
	3-pole 4-pole	3NJ6943-1EB00 3NJ6944-1EB00		1 1	1 unit 1 unit	1DL 1DL	4.200 8.620
 3NJ6923-3FB00 3NJ6923-3FC00	Electronic fuse monitoring and line monitoring devices						
	EFM 10, fuse monitoring for AC networks	3NJ6940-3FB00		1	1 unit	1DL	0.100
	EFM 20, fuse monitoring and line monitoring for AC networks	3NJ6940-3FC00		1	1 unit	1DL	0.110
 3NJ6940-2BB00 3NJ6900-2BC00	Auxiliary switches						
	1 NO contact (1 NO) with cover	3NJ6940-2BB00		1	1 unit	1DL	0.029
	1 NO contact (1 NO)	3NJ6900-2BC00		1	1 unit	1DL	0.013
	1 NC contact (1 NC) with cover	3NJ6940-2CB00		1	1 unit	1DL	0.036
	1 NC contact (1 NC)	3NJ6900-2CC00		1	1 unit	1DL	0.013
 3NJ6940-3B...	Current transformers for main devices and contact extensions						
	300 A/1 A Class 1 5 VA	3NJ6940-3BH11		1	1 unit	1DL	0.329
	300 A/1 A Class 0.5 5 VA	3NJ6940-3BH12		1	1 unit	1DL	0.503
	300 A/1 A Class 0.5 calibrated 5 VA	3NJ6940-3BH13		1	1 unit	1DL	0.433
	300 A/5 A Class 1 5 VA	3NJ6940-3BH21		1	1 unit	1DL	0.324
	300 A/5 A Class 0.5 5 VA	3NJ6940-3BH22		1	1 unit	1DL	0.397
	300 A/5 A Class 0.5 calibrated 5 VA	3NJ6940-3BH23		1	1 unit	1DL	0.429
	400 A/1 A Class 1 5 VA	3NJ6940-3BJ11		1	1 unit	1DL	0.362
	400 A/1 A Class 0.5 5 VA	3NJ6940-3BJ12		1	1 unit	1DL	0.362
	400 A/1 A Class 0.5 calibrated 5 VA	3NJ6940-3BJ13		1	1 unit	1DL	0.371
	400 A/5 A Class 1 5 VA	3NJ6940-3BJ21		1	1 unit	1DL	0.332
	400 A/5 A Class 0.5 5 VA	3NJ6940-3BJ22		1	1 unit	1DL	0.328
	400 A/5 A Class 0.5 calibrated 5 VA	3NJ6940-3BJ23		1	1 unit	1DL	0.445
	500 A/1 A Class 1 5 VA	3NJ6940-3BK11		1	1 unit	1DL	0.401
	500 A/1 A Class 0.5 5 VA	3NJ6940-3BK12		1	1 unit	1DL	0.380
	500 A/1 A Class 0.5 calibrated 5 VA	3NJ6940-3BK13		1	1 unit	1DL	0.403
	500 A/5 A Class 1 5 VA	3NJ6940-3BK21		1	1 unit	1DL	0.343
	500 A/5 A Class 0.5 5 VA	3NJ6940-3BK22		1	1 unit	1DL	0.339
	500 A/5 A Class 0.5 calibrated 5 VA	3NJ6940-3BK23		1	1 unit	1DL	0.374
	600 A/1 A Class 1 5 VA	3NJ6940-3BL11		1	1 unit	1DL	0.317
600 A/1 A Class 0.5 5 VA	3NJ6940-3BL12		1	1 unit	1DL	0.321	
600 A/1 A Class 0.5 calibrated 5 VA	3NJ6940-3BL13		1	1 unit	1DL	0.337	
600 A/5 A Class 1 5 VA	3NJ6940-3BL21		1	1 unit	1DL	0.318	
600 A/5 A Class 0.5 5 VA	3NJ6940-3BL22		1	1 unit	1DL	0.307	
600 A/5 A Class 0.5 calibrated 5 VA	3NJ6940-3BL23		1	1 unit	1DL	0.390	






The current transformers can also be used with the 7KM PAC measuring devices, see chapter "Measuring Devices and Power Monitoring".

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 2, 3, B4 and 3T (continued)							
		Holders for ammeters For sizes 00, 1, 2, 3					
3NJ6900-4GA00		3NJ6900-4GA00		1	1 unit	1DL	0.047
		Ammeters Moving-iron measuring instruments for measuring input on transformer x/1 A with double overload					
3NJ6900-4H...		300 A/1 A 0.6 VA 400 A/1 A 0.6 VA 500 A/1 A 0.6 VA 600 A/1 A 0.6 VA		1	1 unit	1DL	0.085
		3NJ6900-4HH11		1	1 unit	1DL	0.085
		3NJ6900-4HJ11		1	1 unit	1DL	0.085
		3NJ6900-4HK11		1	1 unit	1DL	0.085
		3NJ6900-4HL11		1	1 unit	1DL	0.086
		Moving-iron measuring instruments for measuring input on transformer x/5 A with double overload					
		300 A/5 A 0.6 VA 400 A/5 A 0.6 VA 500 A/5 A 0.6 VA 600 A/5 A 0.6 VA		1	1 unit	1DL	0.092
		3NJ6900-4HH21		1	1 unit	1DL	0.093
		3NJ6900-4HJ21		1	1 unit	1DL	0.090
		3NJ6900-4HK21		1	1 unit	1DL	0.090
		3NJ6900-4HL21		1	1 unit	1DL	0.086
		Bi-metal measuring instruments for measurements on transformer x/1 A with 1.2-times overload					
3NJ6900-4H...		300 A/1 A 1 VA 400 A/1 A 1 VA 500 A/1 A 1 VA 600 A/1 A 1 VA		1	1 unit	1DL	0.067
		3NJ6900-4HH12		1	1 unit	1DL	0.063
		3NJ6900-4HJ12		1	1 unit	1DL	0.067
		3NJ6900-4HK12		1	1 unit	1DL	0.067
		3NJ6900-4HL12		1	1 unit	1DL	0.062
		Bi-metal measuring instruments for measurements on transformer x/5 A with 1.2-times overload					
		300 A/5 A 1 VA 400 A/5 A 1 VA 500 A/5 A 1 VA 600 A/5 A 1 VA		1	1 unit	1DL	0.068
		3NJ6900-4HH22		1	1 unit	1DL	0.064
		3NJ6900-4HJ22		1	1 unit	1DL	0.065
		3NJ6900-4HK22		1	1 unit	1DL	0.065
		3NJ6900-4HL22		1	1 unit	1DL	0.068
		Multi-function plugs 8 x 2.5 mm ² , with fixing screws 8 x 2.5 mm ² , without fixing screws 12 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws					
3NJ6940-3EC00		3NJ6940-3EC00		1	1 unit	1DL	0.083
		3NJ6940-3ED00		1	1 unit	1DL	0.084
3NJ6940-3ED00		3NJ6940-3ED00		1	1 unit	1DL	0.105
		3NJ6940-3EF00		1	1 unit	1DL	0.105
3NJ6940-3EF00		3NJ6940-3EF00		1	1 unit	1DL	0.105
		Front panels For NH: 3NJ6223-1AA... and 3NJ6223-3AA... without/with EFM					
3NJ6943-4BB00		3NJ6943-4BB00		1	1 unit	1DL	0.851
		For BS: 3NJ6223-1AA... and 3NJ6223-3AA... without/with EFM					
		3NJ6943-4BC00		1	1 unit	1DL	0.700
		For NH: 3NJ6233-1AA... and 3NJ6233-3AA... without/with EFM					
		3NJ6953-4BB00		1	1 unit	1DL	0.849
		For BS: 3NJ6233-1AA... and 3NJ6233-3AA... without/with EFM					
		3NJ6953-4BC00		1	1 unit	1DL	0.700

Switch Disconnectors

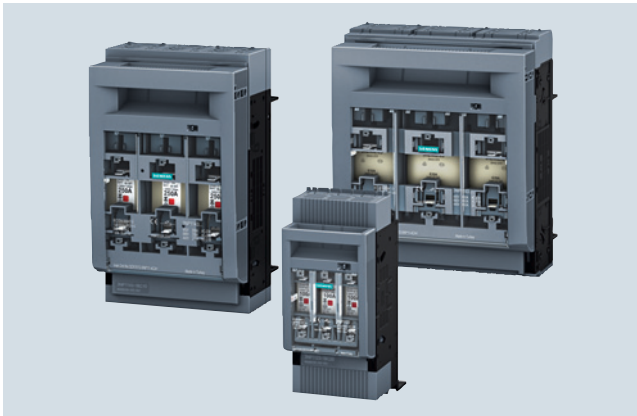
3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Common accessories							
 3NJ6916-4EA00		Busbar cover Mounting height 200 mm, IP20					
		3NJ6916-4EA00		1	1 unit	1CL	0.490
 3NJ6900-4CB00		Blanking covers Mounting height 50 mm, IP41					
		3NJ6900-4CB00		1	1 unit	1DL	0.335
 3NJ6915-3BA00		Connection modules For power takeoff from field distribution bus up to 400 A					
		3NJ6915-3BA00		1	1 unit	1CL	1.578
 3NJ6900-4FB00		Guide rails Depth 200 mm (1 x left and 1 x right) Depth 400 mm (1 x left and 1 x right)					
		3NJ6900-4FB00		1	1 unit	1DL	0.280
 3NJ6900-4FC00							
		3NJ6900-4FC00		1	1 unit	1DL	0.513
		NH fuse puller tongs For NH00 For NH1, 2, 3					
		XPT:8PT9624		1	1 unit	1EA	0.497
		XPT:8PT9625		1	1 unit	1EA	0.505
		Locking devices for padlocks For all devices					
		3NJ6900-4LL		1	1 unit	1DL	0.040

7

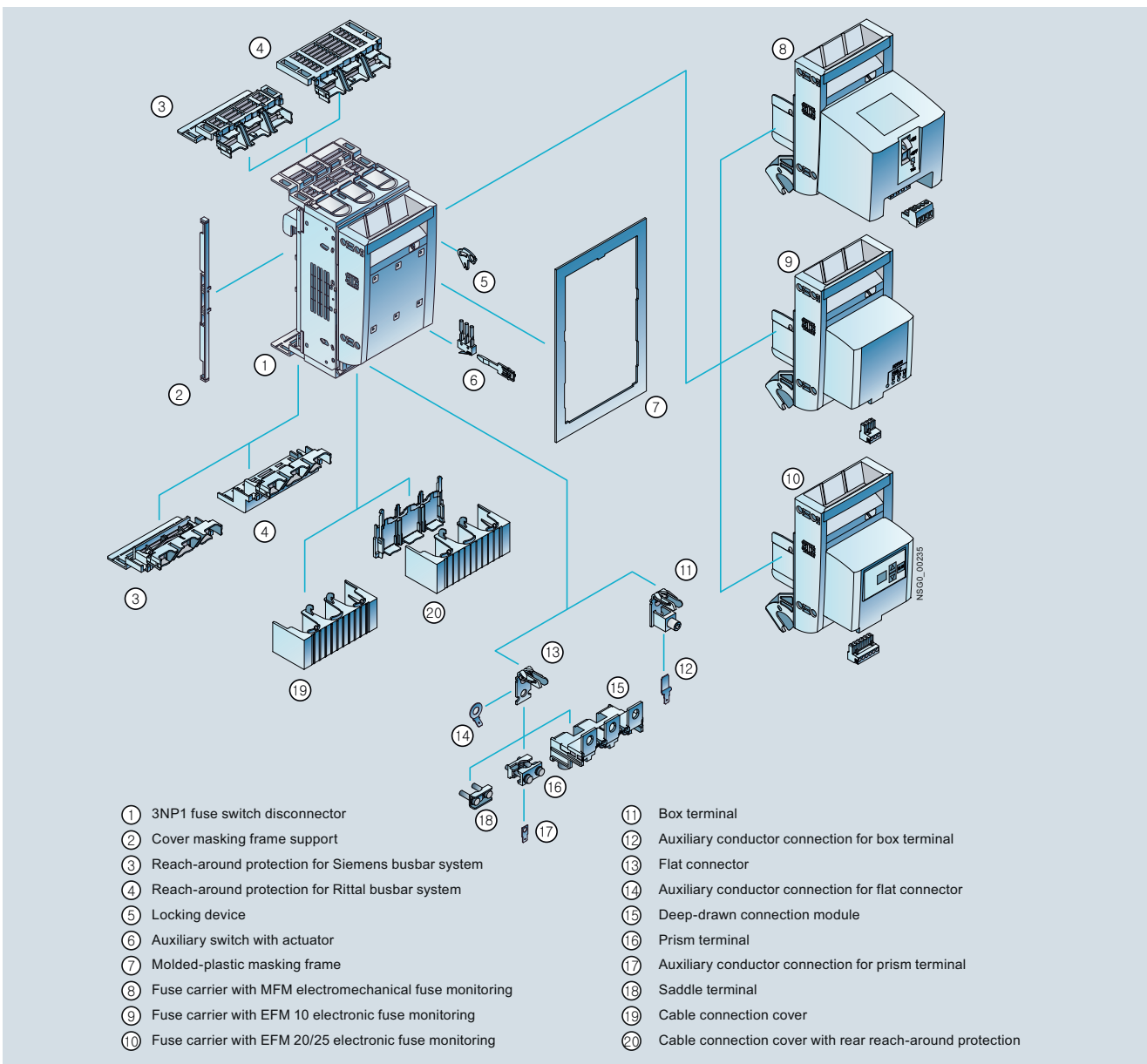
Overview



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 feeder
- Fuses are removed using a release shaft without the fuses being touched
- All units can be sealed and locked

Overview of all components and accessory parts

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Introduction

Benefits

Advantages during planning and configuration

- Low level of equipment variation due to 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 ensure optimum touch protection even for switchboard assemblies with rear access.
- 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 version is required for cable feeders at top/bottom and there is no need to intervene in the internal conducting paths.
- One device version 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 2 CO contacts for indicating the switching 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 versions.
- Small space requirement through compact devices and busbar supports which can be built over
- Device versions for busbar mounting can be converted to 5 mm or 10 mm thick busbars without parts which can be lost or broken off.

7

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 semiconductor fuses for the protection of frequency converters and soft starters
- Fusing of compensation modules
- Cable feeders
- Group fusing of small loads

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

- Low-voltage switchboard assemblies 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 monitoring

Fuse monitoring devices 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

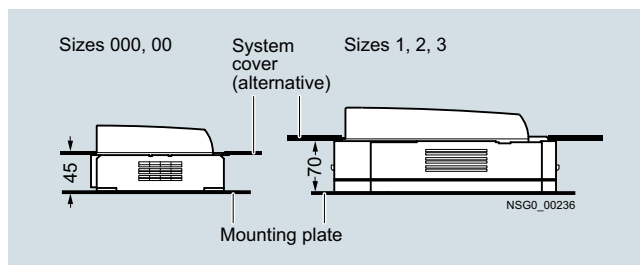
Standards and regulations

The 3NP1 fuse switch disconnectors are compliant with:

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

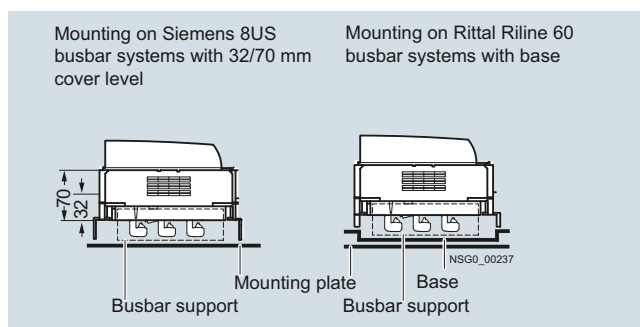
Mounting

Floor mounting



3NP1 fuse switch disconnector for floor mounting

Busbar mounting



3NP1 fuse switch disconnector for busbar mounting

Technical specifications

Standards		IEC / EN 60947-1, IEC / EN 60947-3, VDE 0660 Part 7					
Type		3NP1123...	3NP1133...	3NP1143...	3NP1153...	3NP1163...	
Rated uninterrupted current I_u	A	160 ¹⁾	160	250	400	630	
For fuse links acc. to IEC 60269-2	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							
• At 50 Hz/60 Hz AC	V	690	690	690	690	690	
• With DC (3 conducting paths series-connected)	V	440	440	440	440	440	
• With DC (2 conducting paths series-connected)	V	220/240	220/240	220/240	220/240	220/240	
• With utilization category AC-20 or DC-20	Max.	V	1000				
Rated insulation voltage $U_i^{2)}$	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 (by fast switch on)	Size/A	000/160	00/160	1/250	2/400	3/630	
• Rated current at 500 V / 690 V AC	kA	80/50	80/50	80/50	80/50	80/50	
• Permissible let-through current of the fuses, peak value	kA	10	15	25	40	50	
Short-circuit strength with fuses (with closed disconnector)	Size/A	000/160	00/160	1/250	2/400	3/630	
• Rated current at 500 V / 690 V, rms value	kA	120/100	120/100	120/100	100/100	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 making capacity with isolating blades 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
• With DC-21B (2 cond. paths series-connected)	240 V DC	A	160	160	250	400	630
• With DC-22B (2 cond. paths series-connected)	240 V DC	A	100	160	250	400	630
• With DC-23B (2 cond. paths series-connected)	240 V DC	A	80	100	200	250	400
• With DC-21B (3 cond. paths series-connected)	440 V DC	A	100	160	250	400	630
• With DC-22B (3 cond. paths series-connected)	440 V DC	A	50	125	200	315	500
• With DC-23B (3 cond. paths series-connected)	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 temperature³⁾	°C	-25 ... +55 for operation, -50 ... +80 during storage					
Mechanical endurance, operating cycles		2000	2000	1600	1000	1000	
Degree of protection (operator side)		IP30 (switch closed) / IP20 (switch open)					
W/o molded-plastic masking frame / cable lug cover		IP40 (switch closed) / IP20 (switch open)					
With molded-plastic masking frame / cable lug cover		IP40 (switch closed) / IP20 (switch open)					
Power loss of switch at I_{th} (plus fuses)	W	9	12	23	34	48	
Maximum power loss of the usable fuses (per fuse)⁴⁾	W	7.5 ⁵⁾	12	23	34	48	
Max. conductor cross-section of main conductor connection							
Flat terminals	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 terminals	mm ²	--	35 ... 95	70 ... 150	120 ... 240	150 ... 300	
Saddle terminals	mm ²	--	1.5 ... 70	70 ... 120	120 ... 240	150 ... 300	
Laminated conductors in box terminal	mm	8 x 8	9 x 8	10 x 20	10 x 32	20 x 32	
Rated operational current of auxiliary switch (at max. 250 V AC)							
3NP19...-1FA00 auxiliary switch	A	0.25 ($I_{th} = 5$ A)					
3NP19...-1FB00 auxiliary switch (solid-state compatible)	A	0.1 ($I_{th} = 0.1$ A)					
Permissible mounting positions		Vertical and horizontal (no derating)					

¹⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00, otherwise max. 100 A

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

³⁾ Only with isolating blades; otherwise, please observe specifications of fuse manufacturer

⁴⁾ Values are valid when using LV HRC fuse systems with characteristic gG. If using fuses for semiconductor protection, please refer to the assignment table, see page 7/172.

⁵⁾ For operation up to 160 A, max. 9 W

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Floor mounting

Selection and ordering data



	Rated current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	A								
For 45 mm cover level									
	Basic units								
	Flat terminals								
	160	00	▶	3NP1133-1CA10		1	1 unit	1DL	0.821
	Box terminals								
	100 ¹⁾	000	▶	3NP1123-1CA20		1	1 unit	1DL	0.551
	160	00	▶	3NP1133-1CA20		1	1 unit	1DL	0.847
	3NP1133-1CA20								
	With MFM electromechanical fuse monitoring								
	Flat terminals								
	160	00		3NP1133-1CA11		1	1 unit	1DL	1.419
	Box terminals								
	160	00		3NP1133-1CA21		1	1 unit	1DL	1.445
	3NP1133-1CA21								
	With electronic EFM 10 fuse monitoring								
	Flat terminals								
	160	00		3NP1133-1CA12		1	1 unit	1DL	1.110
	Box terminals								
	100 ¹⁾	000		3NP1123-1CA22		1	1 unit	1DL	0.705
	160	00		3NP1133-1CA22		1	1 unit	1DL	1.137
	3NP1133-1CA22								
	With electronic EFM 20 fuse monitoring and line monitoring								
	Flat terminals								
	160	00		3NP1133-1CA13		1	1 unit	1DL	1.125
	Box terminals								
	100 ¹⁾	000		3NP1123-1CA23		1	1 unit	1DL	0.727
	160	00		3NP1133-1CA23		1	1 unit	1DL	1.149
	3NP1133-1CA23								

¹⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Floor mounting

	Rated current I_U	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For 70 mm cover level									
Basic units									
 3NP1143-1DA20	Flat terminals								
	250	1	▶	3NP1143-1DA10		1	1 unit	1DL	2.780
	400	2	▶	3NP1153-1DA10		1	1 unit	1DL	3.764
	630	3	▶	3NP1163-1DA10		1	1 unit	1DL	4.639
	Box terminals								
	250	1		3NP1143-1DA20		1	1 unit	1DL	2.950
400	2		3NP1153-1DA20		1	1 unit	1DL	4.432	
630	3		3NP1163-1DA20		1	1 unit	1DL	5.305	
With MFM electromechanical fuse monitoring									
 3NP1143-1DA21	Flat terminals								
	250	1		3NP1143-1DA11		1	1 unit	1DL	3.480
	400	2		3NP1153-1DA11		1	1 unit	1DL	4.478
	630	3		3NP1163-1DA11		1	1 unit	1DL	5.326
	Box terminals								
	250	1		3NP1143-1DA21		1	1 unit	1DL	3.636
400	2		3NP1153-1DA21		1	1 unit	1DL	5.189	
630	3		3NP1163-1DA21		1	1 unit	1DL	5.981	
With electronic EFM 10 fuse monitoring									
 3NP1143-1DA22	Flat terminals								
	250	1		3NP1143-1DA12		1	1 unit	1DL	3.177
	400	2		3NP1153-1DA12		1	1 unit	1DL	4.137
	630	3		3NP1163-1DA12		1	1 unit	1DL	5.004
	Box terminals								
	250	1		3NP1143-1DA22		1	1 unit	1DL	3.320
400	2		3NP1153-1DA22		1	1 unit	1DL	4.824	
630	3		3NP1163-1DA22		1	1 unit	1DL	5.603	
With electronic EFM 20 fuse monitoring and line monitoring									
 3NP1143-1DA23	Flat terminals								
	250	1		3NP1143-1DA13		1	1 unit	1DL	3.215
	400	2		3NP1153-1DA13		1	1 unit	1DL	4.186
	630	3		3NP1163-1DA13		1	1 unit	1DL	5.013
	Box terminals								
	250	1		3NP1143-1DA23		1	1 unit	1DL	3.360
400	2		3NP1153-1DA23		1	1 unit	1DL	4.842	
630	3		3NP1163-1DA23		1	1 unit	1DL	5.716	

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Selection and ordering data

Rated current I_u A	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
With reach-around protection suitable for Siemens 8US busbar system and Rittal 40 mm busbar system without base¹⁾								
Basic units								
Flat terminals								
160	00		3NP1133-1BB10		1	1 unit	1DL	1.116
Box terminals								
100 ²⁾	000		3NP1123-1BB20		1	1 unit	1DL	0.934
160	00		3NP1133-1BB20		1	1 unit	1DL	1.101
With MFM electromechanical fuse monitoring								
Flat terminals								
160	00		3NP1133-1BB11		1	1 unit	1DL	1.724
Box terminals								
160	00		3NP1133-1BB21		1	1 unit	1DL	1.726
With electronic EFM 10 fuse monitoring								
Flat terminals								
160	00		3NP1133-1BB12		1	1 unit	1DL	1.415
Box terminals								
100 ²⁾	000		3NP1123-1BB22		1	1 unit	1DL	1.110
160	00		3NP1133-1BB22		1	1 unit	1DL	1.395
With electronic EFM 20 fuse monitoring and line monitoring								
Flat terminals								
160	00		3NP1133-1BB13		1	1 unit	1DL	1.120
Box terminals								
100 ²⁾	000		3NP1123-1BB23		1	1 unit	1DL	1.107
160	00		3NP1133-1BB23		1	1 unit	1DL	1.120

¹⁾ Cannot be used with T profile rails

²⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00





Note:

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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

	Rated current I_U	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
A									
With reach-around protection suitable for Rittal 40 mm busbar system with base¹⁾									
	Basic units								
	Flat terminals								
	160	00		3NP1133-1JB10		1	1 unit	1DL	1.126
	Box terminals								
100 ²⁾	000		3NP1123-1JB20		1	1 unit	1DL	0.907	
160	00		3NP1133-1JB20		1	1 unit	1DL	1.092	
3NP1133-1JB20									
With MFM electromechanical fuse monitoring									
	Flat terminals								
	160	00		3NP1133-1JB11		1	1 unit	1DL	1.667
	Box terminals								
	160	00		3NP1133-1JB21		1	1 unit	1DL	1.690
3NP1133-1JB21									
With electronic EFM 10 fuse monitoring									
	Flat terminals								
	160	00		3NP1133-1JB12		1	1 unit	1DL	1.120
	Box terminals								
	100 ²⁾	000		3NP1123-1JB22		1	1 unit	1DL	0.940
160	00		3NP1133-1JB22		1	1 unit	1DL	1.120	
3NP1133-1JB22									
With electronic EFM 20 fuse monitoring and line monitoring									
	Flat terminals								
	160	00		3NP1133-1JB13		1	1 unit	1DL	1.120
	Box terminals								
	100 ²⁾	000		3NP1123-1JB23		1	1 unit	1DL	1.080
160	00		3NP1133-1JB23		1	1 unit	1DL	1.414	
3NP1133-1JB23									

¹⁾ Cannot be used with T profile rails

²⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00

Note:





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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

Selection and ordering data

	Rated current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
A										
With reach-around protection suitable for Siemens 8US, Wöhner Classic, and Rittal RiLine60 busbar systems without base										
	Basic units									
	Flat terminals									
		160	00	▶	3NP1133-1BC10		1	1 unit	1DL	1.111
		250	1	▶	3NP1143-1BC10		1	1 unit	1DL	3.260
		400	2		3NP1153-1BC10		1	1 unit	1DL	4.314
		630	3		3NP1163-1BC10		1	1 unit	1DL	5.285
	Box terminals									
		100 ¹⁾	000	▶	3NP1123-1BC20		1	1 unit	1DL	0.949
		160	00	▶	3NP1133-1BC20		1	1 unit	1DL	1.129
		250	1	▶	3NP1143-1BC20		1	1 unit	1DL	3.312
	400	2		3NP1153-1BC20		1	1 unit	1DL	4.739	
	630	3		3NP1163-1BC20		1	1 unit	1DL	5.538	
	With MFM electromechanical fuse monitoring									
	Flat terminals									
		160	00		3NP1133-1BC11		1	1 unit	1DL	1.699
		250	1		3NP1143-1BC11		1	1 unit	1DL	3.927
		400	2		3NP1153-1BC11		1	1 unit	1DL	5.061
		630	3		3NP1163-1BC11		1	1 unit	1DL	5.944
	Box terminals									
		160	00		3NP1133-1BC21		1	1 unit	1DL	1.751
		250	1		3NP1143-1BC21		1	1 unit	1DL	4.000
		400	2		3NP1153-1BC21		1	1 unit	1DL	5.343
	630	3		3NP1163-1BC21		1	1 unit	1DL	6.229	
	With electronic EFM 10 fuse monitoring									
	Flat terminals									
		160	00		3NP1133-1BC12		1	1 unit	1DL	1.379
		250	1		3NP1143-1BC12		1	1 unit	1DL	3.593
		400	2		3NP1153-1BC12		1	1 unit	1DL	4.707
		630	3		3NP1163-1BC12		1	1 unit	1DL	5.642
	Box terminals									
		100 ¹⁾	000		3NP1123-1BC22		1	1 unit	1DL	1.101
		160	00		3NP1133-1BC22		1	1 unit	1DL	1.403
		250	1		3NP1143-1BC22		1	1 unit	1DL	3.691
	400	2		3NP1153-1BC22		1	1 unit	1DL	5.059	
	630	3		3NP1163-1BC22		1	1 unit	1DL	5.894	
	With electronic EFM 20 fuse monitoring and line monitoring									
	Flat terminals									
		160	00		3NP1133-1BC13		1	1 unit	1DL	1.414
		250	1		3NP1143-1BC13		1	1 unit	1DL	3.641
		400	2		3NP1153-1BC13		1	1 unit	1DL	4.731
		630	3		3NP1163-1BC13		1	1 unit	1DL	5.620
	Box terminals									
		100 ¹⁾	000		3NP1123-1BC23		1	1 unit	1DL	1.121
		160	00		3NP1133-1BC23		1	1 unit	1DL	1.444
		250	1		3NP1143-1BC23		1	1 unit	1DL	3.711
	400	2		3NP1153-1BC23		1	1 unit	1DL	5.090	
	630	3		3NP1163-1BC23		1	1 unit	1DL	5.920	

¹⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00





Note:

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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

	Rated current I_N	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
A										
With reach-around protection suitable for Rittal RiLine60 busbar system with base										
	Basic units									
	Flat terminals									
	160	00		3NP1133-1JC10		1	1 unit	1DL	1.114	
	250	1		3NP1143-1JC10		1	1 unit	1DL	3.246	
	400	2		3NP1153-1JC10		1	1 unit	1DL	4.304	
	630	3		3NP1163-1JC10		1	1 unit	1DL	5.286	
	Box terminals									
	100 ¹⁾	000		3NP1123-1JC20		1	1 unit	1DL	0.908	
	160	00		3NP1133-1JC20		1	1 unit	1DL	1.123	
	250	1		3NP1143-1JC20		1	1 unit	1DL	3.418	
	400	2		3NP1153-1JC20		1	1 unit	1DL	4.742	
	630	3		3NP1163-1JC20		1	1 unit	1DL	5.602	
		With MFM electromechanical fuse monitoring								
		Flat terminals								
160		00		3NP1133-1JC11		1	1 unit	1DL	1.674	
250		1		3NP1143-1JC11		1	1 unit	1DL	3.957	
400		2		3NP1153-1JC11		1	1 unit	1DL	5.021	
630		3		3NP1163-1JC11		1	1 unit	1DL	5.925	
Box terminals										
160		00		3NP1133-1JC21		1	1 unit	1DL	1.703	
250		1		3NP1143-1JC21		1	1 unit	1DL	4.023	
400		2		3NP1153-1JC21		1	1 unit	1DL	5.400	
630		3		3NP1163-1JC21		1	1 unit	1DL	6.310	
		With electronic EFM 10 fuse monitoring								
		Flat terminals								
		160	00		3NP1133-1JC12		1	1 unit	1DL	1.380
	250	1		3NP1143-1JC12		1	1 unit	1DL	3.638	
	400	2		3NP1153-1JC12		1	1 unit	1DL	4.721	
	630	3		3NP1163-1JC12		1	1 unit	1DL	1.000	
	Box terminals									
	100 ¹⁾	000		3NP1123-1JC22		1	1 unit	1DL	1.065	
	160	00		3NP1133-1JC22		1	1 unit	1DL	1.385	
	250	1		3NP1143-1JC22		1	1 unit	1DL	3.644	
	400	2		3NP1153-1JC22		1	1 unit	1DL	5.074	
	630	3		3NP1163-1JC22		1	1 unit	1DL	5.956	
		With electronic EFM 20 fuse monitoring and line monitoring								
		Flat terminals								
160		00		3NP1133-1JC13		1	1 unit	1DL	1.401	
250		1		3NP1143-1JC13		1	1 unit	1DL	3.667	
400		2		3NP1153-1JC13		1	1 unit	1DL	4.740	
630		3		3NP1163-1JC13		1	1 unit	1DL	6.980	
Box terminals										
100 ¹⁾		000		3NP1123-1JC23		1	1 unit	1DL	1.086	
160		00		3NP1133-1JC23		1	1 unit	1DL	1.413	
250		1		3NP1143-1JC23		1	1 unit	1DL	3.690	
400		2		3NP1153-1JC23		1	1 unit	1DL	5.000	
630		3		3NP1163-1JC23		1	1 unit	1DL	2.120	

¹⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00

Note:




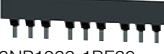


Delivered from factory with cable feeder at bottom and convertible by the customer

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories








Selection and ordering data

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 000							
 3NP1923-1BD00		Connection methods Feeder terminals , 16 ... 95 mm ² (1 set = 3 units) • For 3NP1123 with box terminal for use up to 160 A • For infeed when using the 3-phase busbar • For connection of copper conductors					
		3NP1923-1BD00		1	1 unit	1DL	0.259
 3NP1923-1BE20		Three-tier terminals , 3 x 2.5 ... 16 mm ² , (1 set = 3 units) • For 3NP1123 with box terminal • For connection of copper conductors					
		3NP1923-1BE20		1	1 unit	1DL	0.131
 3NP1923-1BF10		Covering caps for 1 blank space on a three-phase busbar (1 set = 20 units)					
		3NP1923-1BF10		1	1 unit	1DL	0.224
 3NP1933-1BF30		Three-phase busbar $I_U = \text{max. } 225 \text{ A}$ • For 2x NH000 • For 3x NH000 • For 4x NH000					
		3NP1933-1BF30		1	1 unit	1DL	1.338
		3NP1933-1BF30		1	1 unit	1DL	2.213
		3NP1933-1BF40		1	1 unit	1DL	3.119
 3NP1933-1BF50		Link rail , $I_U = \text{max. } 225 \text{ A}$ for 3-phase busbars					
		3NP1933-1BF50		1	1 unit	1DL	1.336
 3NP1933-1BG40		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A (1 set = 3 units) For 3NP1123 with box terminal					
		3NP1933-1BG40		1	1 unit	1DL	0.007

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A









Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 000 (continued)							
Device covers, auxiliary switches							
Reach-around protection for busbar mounting							
1x top, 1x bottom Spare part, included in scope of delivery of the 3NP1, can also be used for retrofitting to a different busbar system							
<ul style="list-style-type: none"> • For Siemens 8US system • For Rittal system 							
		3NP1923-1CA10		1	1 unit	1DL	0.052
3NP1923-1CA10		3NP1923-1CA20		1	1 unit	1DL	0.055
		3NP1923-1CB00		1	1 unit	1DL	0.046
3NP1923-1CB00							
Cable connection covers							
Only for busbar systems 40 mm / 60 mm, top and bottom							
		3NP1923-1CF00		1	1 unit	1DL	0.008
3NP1923-1CF00							
Masking frame supports							
(1 set = 2 units)							
Covers							
External dimensions (H x W) 215 x 130 mm							
3NP1923-1DA00							
1 1 unit 1DL 0.034							
Fixing kits							
For 1 standard mounting rail ▶ 3NP1923-1EA00							
				1	1 unit	1DL	0.064
3NP1923-1EA00							
Auxiliary switches							
1 CO contact ▶ 3NP1920-1FA00							
		3NP1920-1FB00		1	1 unit	1DL	0.020
3NP1920-1FA00				1	1 unit	1DL	0.021
Fuse carriers							
Spare part, included in scope of delivery of the 3NP1, fuse monitoring can be retrofitted by replacing the fuse carrier							
<ul style="list-style-type: none"> • Standard • With electronic EFM 10 fuse monitoring • With electronic EFM 20 fuse monitoring and line monitoring • With electronic EFM 25 fuse monitoring and line monitoring 							
		3NP1923-1GA00		1	1 unit	1DL	0.161
3NP1923-1GA00		3NP1923-1GA00		1	1 unit	1DL	0.161
		3NP1923-1GB20		1	1 unit	1DL	0.309
		3NP1923-1GB30		1	1 unit	1DL	0.345
		3NP1923-1GB50		1	1 unit	1DL	0.315
Locking devices							
(1 set = 10 units)							
		3NP1900-1HA00		1	1 unit	1DL	0.023
3NP1900-1HA00							

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A


Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 00							
 3NP1933-1BA00		Connection methods Saddle terminals , 1.5 ... 70 mm ² (1 set = 3 units) • For 3NP1133 with flat terminal • For connection of copper conductors					
		3NP1933-1BA00		1	1 unit	1DL	0.047
 3NP1933-1BB10		Prism terminals single, 35 ... 95 mm ² (1 set = 3 units) • For 3NP1133 with flat terminal • For connection of copper or aluminum conductors					
		3NP1933-1BB10		1	1 unit	1DL	0.126
 3NP1933-1BC00		Terminal kits , 6 ... 70 mm ² For 32-mm cover level with box terminal • For 3NP1133 with flat terminal • For connection of copper conductors					
		3NP1933-1BC00		1	1 unit	1DL	0.191
 3NP1933-1BE10		Three-tier terminals , 3 x 2.5 ... 16 mm ² (1 set = 3 units) • For 3NP1133 with flat terminal • For connection of copper conductors					
		3NP1933-1BE10		1	1 unit	1DL	0.113
 3NP1923-1BE20		Three-tier terminals , 3 x 2.5 ... 16 mm ² (1 set = 3 units) • For 3NP1133 with box terminal • For connection of copper conductors					
		3NP1923-1BE20		1	1 unit	1DL	0.131
 3NP1933-1BG10		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A For flat terminal (1 set = 3 units)					
		3NP1933-1BG10		1	1 unit	1DL	0.003
 3NP1933-1BG30		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A For prism terminal (1 set = 3 units)					
		3NP1933-1BG30		1	1 unit	1DL	0.001
 3NP1933-1BG40		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A For box terminal (1 set = 3 units)					
		3NP1933-1BG40		1	1 unit	1DL	0.008

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A







Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 00 (continued)							
Device covers, auxiliary switches							
Reach-around protection for busbar mounting							
							
3NP1933-1CA10				1	1 unit	1DL	0.063
		3NP1933-1CA10		1	1 unit	1DL	0.049
		3NP1933-1CA20		1	1 unit	1DL	0.063
Cable connection covers (at top and bottom)							
							
3NP1933-1CB00		3NP1933-1CB00		1	1 unit	1DL	0.063
							
3NP1933-1CC00		3NP1933-1CC00		1	1 unit	1DL	0.088
							
3NP1933-1CD00		3NP1933-1CD00		1	1 unit	1DL	0.107
							
3NP1933-1CD00		3NP1933-1CD00		1	1 unit	1DL	0.107
							
3NP1933-1CD00		3NP1933-1CD00		1	1 unit	1DL	0.107
Masking frame supports (1 set = 2 units)							
		3NP1933-1CF00		1	1 unit	1DL	0.021
Covers							
							
3NP1933-1DA00		3NP1933-1DA00		1	1 unit	1DL	0.038
Fixing kits							
							
3NP1933-1EB00		3NP1933-1EB00		1	1 unit	1DL	0.053
Auxiliary switches							
							
3NP1930-1FB00		3NP1930-1FA00		1	1 unit	1DL	0.020
		3NP1930-1FB00		1	1 unit	1DL	0.022
Fuse carriers							
							
3NP1933-1GB10		3NP1933-1GA00		1	1 unit	1DL	0.236
		3NP1933-1GB10		1	1 unit	1DL	0.600
		3NP1933-1GB20		1	1 unit	1DL	0.395
		3NP1933-1GB30		1	1 unit	1DL	0.407
		3NP1933-1GB50		1	1 unit	1DL	0.401
Locking devices (1 set = 10 units)							
		3NP1900-1HA00		1	1 unit	1DL	0.023

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 1							
 3NP1943-1BA00		Connection methods Saddle terminals , 70 ... 120 mm ² (1 set = 3 units) • For 3NP1143 with flat terminal • For connection of copper conductors					
		3NP1943-1BA00		1	1 unit	1DL	0.132
 3NP1943-1BB10		Prism terminals single, 70 ... 150 mm ² (1 set = 3 units) • For 3NP1143 with flat terminal • For connection of copper or aluminum conductors					
		3NP1943-1BB10		1	1 unit	1DL	0.309
 3NP1943-1BB20		Prism terminals double, 2 x 35 ... 70 mm ² (1 set = 3 units) • For 3NP1143 with flat terminal • For connection of copper or aluminum conductors					
		3NP1943-1BB20		1	1 unit	1DL	0.459
 3NP1943-1BG10		Auxiliary conductor connections For flat sleeve 6.3 x 0.8 mm, max. 5 A For flat terminal (1 set = 3 units)					
		3NP1943-1BG10		1	1 unit	1DL	0.006
 3NP1943-1BG30		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm; max. 5 A For saddle-type or prism terminals (1 set = 3 units)					
		3NP1943-1BG30		1	1 unit	1DL	0.008
 3NP1943-1BG40		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm; max. 5 A For box terminal (1 set = 3 units)					
		3NP1943-1BG40		1	1 unit	1DL	0.011

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A







Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 1 (continued)							
Device covers, auxiliary switches							
Reach-around protection for busbar mounting							
 3NP1943-1CA10		1x top, 1x bottom Spare part, included in scope of delivery of the 3NP1, can also be used for retrofitting to a different busbar system					
		<ul style="list-style-type: none"> For Siemens 8US system For Rittal system 					
 3NP1943-1CB00		Cable connection covers (at top and bottom)					
 3NP1943-1CD00		Cable connection covers with rear reach-around protection (at top and bottom)					
 3NP1943-1CF00		Masking frame supports (1 set = 2 units)					
		Covers					
		External dimensions (H x W) 375 x 220 mm					
 3NP1943-1EB00		Fixing kits					
		For 2 standard mounting rails 125/150 mm					
 3NP1940-1FA00		Auxiliary switches					
		1 CO contact					
		1 CO contact, solid-state compatible					
 3NP1943-1GB20		Fuse carriers					
		Spare part, included in scope of delivery of the 3NP1, fuse monitoring can be retrofitted by replacing the fuse carrier					
		<ul style="list-style-type: none"> Standard With MFM electromechanical fuse monitoring With electronic EFM 10 fuse monitoring With electronic EFM 20 fuse monitoring and line monitoring With electronic EFM 25 fuse monitoring and line monitoring 					
		Locking devices					
		(1 set = 10 units)					

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A










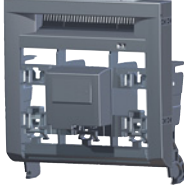
Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 2							
 3NP1953-1BA00		Connection methods Saddle terminals , 120 ... 240 mm ² (1 set = 3 units) • For 3NP1153 with flat terminal • For connection of copper conductors					
		3NP1953-1BA00		1	1 unit	1DL	0.372
 3NP1953-1BB10		Prism terminals single, 120 ... 240 mm ² (1 set = 3 units) • For 3NP1153 with flat terminal • For connection of copper or aluminum conductors					
		3NP1953-1BB10		1	1 unit	1DL	0.509
 3NP1953-1BB20		Prism terminals double, 2 x 70 ... 120 mm ² (1 set = 3 units) • For 3NP1153 with flat terminal • For connection of copper or aluminum conductors					
		3NP1953-1BB20		1	1 unit	1DL	0.738
 3NP1943-1BG10		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A For flat terminal (1 set = 3 units)					
		3NP1943-1BG10		1	1 unit	1DL	0.006
 3NP1953-1BG30		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm; max. 5 A For saddle-type or prism terminals (1 set = 3 units)					
		3NP1953-1BG30		1	1 unit	1DL	0.006
 3NP1953-1BG40		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm; max. 5 A For box terminal (1 set = 3 units)					
		3NP1953-1BG40		1	1 unit	1DL	0.034
Device covers, auxiliary switches							
 3NP1953-1CA10		Reach-around protection for busbar mounting 1x top, 1x bottom Spare part, included in scope of delivery of the 3NP1, can also be used for retrofitting to a different busbar system • For Siemens 8US system • For Rittal system					
		3NP1953-1CA10		1	1 unit	1DL	0.039
		3NP1953-1CA20		1	1 unit	1DL	0.041
 3NP1953-1CB00		Cable connection covers (at top and bottom) ▶					
		3NP1953-1CB00		1	1 unit	1DL	0.242
		Cable connection covers with rear reach-around protection (at top and bottom) ▶					
		3NP1953-1CD00		1	1 unit	1DL	0.479
		Masking frame supports (1 set = 2 units)					
		3NP1943-1CF00		1	1 unit	1DL	0.044
		Covers External dimensions (H x W) 375 x 245 mm					
		3NP1953-1DA00		1	1 unit	1DL	0.101
		Auxiliary switches 1 CO contact ▶					
		3NP1940-1FA00		1	1 unit	1DL	0.023
		1 CO contact, solid-state compatible ▶					
		3NP1940-1FB00		1	1 unit	1DL	0.020
 3NP1940-1FA00		Fuse carriers Spare part, included in scope of delivery of the 3NP1, fuse monitoring can be retrofitted by replacing the fuse carrier • Standard • With MFM electromechanical fuse monitoring • With electronic EFM 10 fuse monitoring • With electronic EFM 20 fuse monitoring and line monitoring • With electronic EFM 25 fuse monitoring and line monitoring					
		3NP1953-1GA00		1	1 unit	1DL	0.849
		3NP1953-1GB10		1	1 unit	1DL	1.463
		3NP1953-1GB20		1	1 unit	1DL	1.080
		3NP1953-1GB30		1	1 unit	1DL	1.107
		3NP1953-1GB50		1	1 unit	1DL	3.000
 3NP1953-1GB30		Locking devices (1 set = 10 units)					
		3NP1900-1HA00		1	1 unit	1DL	0.023

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size 3							
 3NP1963-1BA00		Connection methods Saddle terminals , 150 ... 300 mm ² (1 set = 3 units) • For 3NP1163 with flat terminal • For connection of copper conductors					
		3NP1963-1BA00		1	1 unit	1DL	0.379
 3NP1963-1BB10		Prism terminals single, 150 ... 300 mm ² (1 set = 3 units) • For 3NP1163 with flat terminal • For connection of copper or aluminum conductors					
		3NP1963-1BB10		1	1 unit	1DL	0.664
 3NP1963-1BB20		Prism terminals double, 2 x 150 ... 185 mm ² (1 set = 3 units) • For 3NP1163 with flat terminal • For connection of copper or aluminum conductors					
		3NP1963-1BB20		1	1 unit	1DL	1.053
 3NP1943-1BG10		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A For flat terminal (1 set = 3 units)					
		3NP1943-1BG10		1	1 unit	1DL	0.006
 3NP1953-1BG30		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A for saddle-type or prism terminal (1 set = 3 units)					
		3NP1953-1BG30		1	1 unit	1DL	0.006
 3NP1953-1BG40		Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A for box terminal (1 set = 3 units)					
		3NP1953-1BG40		1	1 unit	1DL	0.034
Device covers, auxiliary switches							
 3NP1963-1CA10		Reach-around protection for busbar mounting 1x top, 1x bottom Spare part, included in scope of delivery of the 3NP1, can also be used for retrofitting to a different busbar system • For Siemens 8US system • For Rittal system					
		3NP1963-1CA10		1	1 unit	1DL	0.041
		3NP1963-1CA20		1	1 unit	1DL	0.048
 3NP1963-1CB00		Cable connection covers (at top and bottom) ▶					
		3NP1963-1CB00		1	1 unit	1DL	0.274
		Cable connection covers ▶					
		3NP1963-1CD00		1	1 unit	1DL	0.556
		Masking frame supports (1 set = 2 units)					
		3NP1943-1CF00		1	1 unit	1DL	0.044
		Covers External dimensions (H x W) 375 x 290 mm					
		3NP1963-1DA00		1	1 unit	1DL	0.143
 3NP1940-1FA00		Auxiliary switches 1 CO contact ▶ 1 CO contact, solid-state compatible					
		3NP1940-1FA00		1	1 unit	1DL	0.023
		3NP1940-1FB00		1	1 unit	1DL	0.020
 3NP1963-1GB50		Fuse carriers Spare part, included in scope of delivery of the 3NP1, fuse monitoring can be retrofitted by replacing the fuse carrier • Standard • With MFM electromechanical fuse monitoring • With electronic EFM 10 fuse monitoring • With electronic EFM 20 fuse monitoring and line monitoring • With electronic EFM 25 fuse monitoring and line monitoring					
		3NP1963-1GA00		1	1 unit	1DL	1.012
		3NP1963-1GB10		1	1 unit	1DL	1.529
		3NP1963-1GB20		1	1 unit	1DL	1.232
		3NP1963-1GB30		1	1 unit	1DL	1.265
		3NP1963-1GB50		1	1 unit	1DL	1.230
		Locking devices (1 set = 10 units)					
		3NP1900-1HA00		1	1 unit	1DL	0.023

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Fuses

Overview

The 3NP1 fuse switch disconnectors are suitable for all fuses in LV HRC design; see chapter "Fuse Systems".

SITOR semiconductor fuses in LV HRC design can also be used, although it must be noted that, compared to cable and line protection fuses, these get much hotter during operation. For this reason, the fuse must be operated below the rated current I_n of the device (derating) when installed in a closed switching device.

The following table shows the permissible load currents of the SITOR semiconductor fuses for installation in 3NP1. The values were determined using the conductor cross-sections specified in the table.

Note

If using smaller cross-sections, a considerably higher derating is required due to the lower heat dissipation.

SITOR semiconductor fuses for 3NP1 fuse switch disconnectors: Assignment table

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in					
Type ^{1) 2)}	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ^{4) 5)}
	A	V AC			mm ²			A			A
3NC23..	150	500	gR	3	70	3NP1163	3	140	3NP1163	3	150
3NC2425..	200	500	gR	3	95	3NP1163	3	175	3NP1163	3	190
3NC2427..	250	500	gR	3	120	3NP1163	3	220	3NP1163	3	237
3NC2428..	300	500	gR	3	185	3NP1163	3	250	3NP1163	3	285
3NC2431..	350	500	gR	3	240	3NP1163	3	320	3NP1163	3	332
3NC2432..	400	500	aR	3	240	3NP1163	3	370	3NP1163	3	380
3NC3336-1	630	1000	aR	3	2x (40x5)	3NP1163	3	500	3NP1163	3	500
3NC3430-1	315	1250	aR	3	2x95	3NP1163	3	280	3NP1163	3	285
3NC3432-1	400	1250	aR	3	2x120	3NP1163	3	340	3NP1163	3	340
3NC3434-1	500	1250	aR	3	2x150	3NP1163	3	400	3NP1163	3	425
3NC3436-1	630	1250	aR	3	2x (40x5)	3NP1163	3	460	3NP1163	3	535
3NC8423..	150	660	gR	3	70	3NP1163	3	120	3NP1163	3	140
3NC8425..	200	660	gR	3	95	3NP1163	3	160	3NP1163	3	190
3NC8427..	250	660	gR	3	120	3NP1163	3	200	3NP1163	3	240
3NC8431..	350	660	gR	3	240	3NP1163	3	270	3NP1163	3	300
3NC8434..	500	660	gR	3	2x 150	3NP1163	3	385	3NP1163	3	385
3NE1020-2	80	690	gR	00	25	3NP1133	00	80	3NP1133	00	80
3NE1021-0	100	690	gS	00	35	3NP1133	00	100	3NP1133	00	100
3NE1021-2	100	690	gR	00	35	3NP1133	00	95	3NP1133	00	95
3NE1022-0	125	690	gS	00	50	3NP1133	00	120	3NP1133	00	120
3NE1022-2	125	690	gR	00	50	3NP1133	00	115	3NP1133	00	115
3NE1224-0	160	690	gS	1	70	3NP1143	1	160	3NP1143	1	160
						3NP1153	2	160	3NP1153	2	160
3NE1224-2/-3	160	690	gR	1	70	3NP1143	1	150	3NP1143	1	152
						3NP1153	2	200	3NP1153	2	200
3NE1224-2/-3	160	690	gR	1	70	3NP1143	1	150	3NP1143	1	152
						3NP1153	2	160	3NP1153	2	160
3NE1225-2/-3	200	690	gR	1	95	3NP1143	1	180	3NP1143	1	180
						3NP1153	2	190	3NP1153	2	190
3NE1227-0	250	690	gS	1	120	3NP1143	1	235	3NP1143	1	238
						3NP1153	2	250	3NP1153	2	250
3NE1227-2/-3	250	690	gR	1	120	3NP1143	1	220	3NP1143	1	213
						3NP1153	2	235	3NP1153	2	235
3NE1230-0	315	690	gS	1	2x 70	3NP1153	2	290	3NP1153	2	315
3NE1230-2/-3	315	690	gR	1	2x 70	3NP1153	2	278	3NP1153	2	315
						3NP1163	3	380	3NP1163	3	400
3NE1331-0	350	690	gS	2	2x 95	3NP1153	2	315	3NP1153	2	350
						3NP1163	3	340	3NP1163	3	350
3NE1331-2/-3	350	690	gR	2	2x 95	3NP1153	2	300	3NP1153	2	330
						3NP1163	3	330	3NP1163	3	350
3NE1332-0	400	690	gS	2	2x 95	3NP1153	2	340	3NP1153	2	380
3NE1332-2/-3	400	690	gR	2	2x 95	3NP1153	2	328	3NP1153	2	360
						3NP1163	3	370	3NP1163	3	400
3NE1333-0	450	690	gS	2	2x 120	3NP1163	3	450	3NP1163	3	430
3NE1333-2/-3	450	690	gR	2	2x 120	3NP1163	3	430	3NP1163	3	420

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in					
Type ^{1) 2)}	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ^{4) 5)}
	A	V AC						A			A
3NE1334-0	500	690	gS	2	2x 120	3NP1163	3	500	3NP1163	3	450
3NE1334-2/-3	500	690	gR	2	2x 120	3NP1163	3	475	3NP1163	3	450
3NE1435-0	560	690	gS	3	2x 150	3NP1163	3	560	3NP1163	3	520
3NE1435-2/-3	560	690	gR	3	2x 150	3NP1163	3	555	3NP1163	3	510
3NE1436-0	630	690	gS	3	2x 185	3NP1163	3	630	3NP1163	3	585
3NE1436-2/-3	630	690	gR	3	2x 185	3NP1163	3	620	3NP1163	3	570
3NE1437-0	710	690	gS	3	2x (40x5)	--	--	--	3NP1163	3	605
3NE1437-1	710	600	gR	3	2x (40x5)	--	--	--	3NP1163	3	590
3NE1437-2/-3	710	690	gR	3	2x (40x5)	--	--	--	3NP1163	3	580
3NE1438-0	800	690	gS	3	2x (50x5)	--	--	--	3NP1163	3	630
3NE1438-1	800	600	gR	3	2x (50x5)	--	--	--	3NP1163	3	610
3NE1438-2/-3	800	690	gR	3	2x (50x5)	--	--	--	3NP1163	3	600
3NE1447-2/-3	670	690	gR	3	2x (40x5)	--	--	--	3NP1163	3	575
3NE1448-2/-3	850	690	gR	3	2x (40x8)	--	--	--	3NP1163	3	630
3NE1802-0	40	690	gS	000	10	3NP1123	000	40	3NP1123	000	40
						3NP1133	00	40	3NP1133	00	40
3NE1803-0	35	690	gS	000	6	3NP1123	000	35	3NP1123	000	35
						3NP1133	00	35	3NP1133	00	35
3NE1813-0	16	690	gS	000	1.5	3NP1123	000	16	3NP1123	000	16
						3NP1133	00	16	3NP1133	00	16
3NE1814-0	20	690	gS	000	2.5	3NP1123	000	20	3NP1123	000	20
						3NP1133	00	20	3NP1133	00	20
3NE1815-0	25	690	gS	000	4	3NP1123	000	25	3NP1123	000	25
						3NP1133	00	25	3NP1133	00	25
3NE1817-0	50	690	gS	000	10	3NP1123	000	50	3NP1123	000	50
						3NP1133	00	50	3NP1133	00	50
3NE1818-0	63	690	gS	000	16	3NP1123	000	63	3NP1123	000	63
						3NP1133	00	63	3NP1133	00	63
3NE1820-0	80	690	gS	000	25	3NP1123	000	80	3NP1123	000	80
						3NP1133	00	80	3NP1133	00	80
3NE3221	100	1000	aR	1	35	3NP1143	1	88	3NP1143	1	95
						3NP1153	2	95	3NP1153	2	100
3NE3222	125	1000	aR	1	50	3NP1143	1	102	3NP1143	1	113
						3NP1153	2	110	3NP1153	2	125
3NE3224	160	1000	aR	1	70	3NP1143	1	130	3NP1143	1	140
						3NP1153	2	140	3NP1153	2	150
3NE3225	200	1000	aR	1	95	3NP1143	1	163	3NP1143	1	170
						3NP1153	2	175	3NP1153	2	180
3NE3227	250	1000	aR	1	120	3NP1143	1	195	3NP1143	1	200
						3NP1153	2	210	3NP1153	2	215
3NE3230-0B	315	1000	aR	1	185	3NP1153	2	270	3NP1153	2	265
3NE3231	350	1000	aR	1	240	3NP1153	2	290	3NP1153	2	280
3NE3232-0B	400	1000	aR	1	240	3NP1153	2	320	3NP1153	2	310
3NE3233	450	1000	aR	1	2x 150	3NP1153	2	360	3NP1153	2	330
3NE3332-0B	400	1000	aR	2	240	3NP1153	2	330	3NP1163	3	360
						3NP1163	3	360	--	--	--
3NE3333	450	1000	aR	2	2x 150	3NP1163	3	375	3NP1163	3	390
3NE3334-0B	500	1000	aR	2	2x 150	3NP1163	3	420	3NP1163	3	415
3NE3335	560	1000	aR	2	2x 185	3NP1163	3	475	3NP1163	3	460
3NE3336	630	1000	aR	2	2x 185	3NP1163	3	540	3NP1163	3	500
3NE3337-8	710	900	aR	2	2x (40x5)	3NP1163	3	580	3NP1163	3	500
3NE3338-8	800	800	aR	2	2x 240	3NP1163	3	605	3NP1163	3	500
3NE3340-8	900	690	aR	2	2x (40x8)	3NP1163	3	630	3NP1163	3	500
3NE4101	32	1000	gR	0	6	3NP1143	1	30	3NP1143	1	32
3NE4102	40	1000	gR	0	10	3NP1143	1	35	3NP1143	1	40
3NE4117	50	1000	gR	0	10	3NP1143	1	42	3NP1143	1	50
3NE4118	63	1000	aR	0	16	3NP1143	1	55	3NP1143	1	60
3NE4120	80	1000	aR	0	25	3NP1143	1	71	3NP1143	1	76
3NE4121	100	1000	aR	0	35	3NP1143	1	84	3NP1143	1	93
3NE4122	125	1000	aR	0	50	3NP1143	1	107	3NP1143	1	115
3NE4124	160	1000	aR	0	70	3NP1143	1	134	3NP1143	1	144
3NE4327-0B	250	800	aR	2	150	3NP1153	2	195	3NP1163	3	220
						3NP1163	3	215	3NP1163	3	220

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in					
Type ^{1) 2)}	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ^{4) 5)}
	A	V AC						A			A
3NE4330-0B	315	800	aR	2	240	3NP1153	2	240	3NP1163	3	255
						3NP1163	3	270	--	--	--
3NE4333-0B	450	800	aR	2	2x (30x5)	3NP1163	3	370	3NP1163	3	355
3NE4334-0B	500	800	aR	2	2x (30x5)	3NP1163	3	410	3NP1163	3	390
3NE4337	710	800	aR	2	2x (50x5)	3NP1163	3	540	3NP1163	3	500
3NE8015-1	25	690	gR	00	4	3NP1133	00	25	3NP1133	00	25
3NE8003-1	35	690	gR	00	6	3NP1133	00	32	3NP1133	00	35
3NE8017-1	50	690	gR	00	10	3NP1133	00	43	3NP1133	00	50
3NE8018-1	63	690	gR	00	16	3NP1133	00	52	3NP1133	00	60
3NE8020-1	80	690	aR	00	25	3NP1133	00	65	3NP1133	00	72
3NE8021-1	100	690	aR	00	35	3NP1133	00	85	3NP1133	00	85
3NE8022-1	125	690	aR	00	50	3NP1133	00	100	3NP1133	00	100
3NE8024-1	160	690	aR	00	70	3NP1133	00	120	3NP1133	00	115

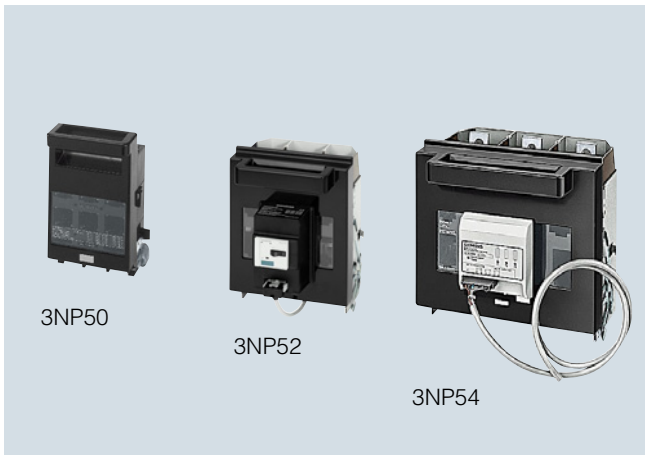
¹⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE41 semiconductor fuses should only be switched occasionally and only at zero current.

²⁾ Permissible load currents for 3NE8...-0MK see [Configuration Manual "Fuse Systems"](#), or on request

³⁾ 3NP1 fuse switch disconnectors may be operated at up to 1000 V AC/DC with the following restrictions:
 - Degree of pollution 2 (instead of 3)
 - AC20 or DC20 – i.e. switching only without load

⁴⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

⁵⁾ Values apply if used with 30 x 10 mm rails; for size 00: 12 x 5 mm and top busbar connection – values for other configurations available on request

Overview

3NP5 fuse switch disconnector range

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

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

Application

The 3NP5 fuse switch disconnectors are ideally suited for surface mounting and installation in the ALPHA distribution boards and SIVACON sicube 8MF1 system cubicles.

The ability to mount them on a range of different busbar systems allows their very diverse implementation in switchboard cabinet and control engineering.

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

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

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Introduction

Technical specifications

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 60269-2	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	440 (3 conducting paths series-connected), 220 (2 conducting paths series-connected, with fuse monitoring through 3RV)					
• 50/60 Hz AC	V	690						
• DC	V	440						
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 (by fast switch on)								
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 disconnector)								
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 blades²⁾	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								
• At p.f. = 0.35, rms value at 500 V	A	1300	2500	1600	4000	2500	5040	4000
• At p.f. = 0.35, rms value at 690 V	A	800	1280	1000	2520	1600	3200	2520
• At p.f. = 0.35 and 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 400 V AC, with fuse links	A	160	250	160	400	250	630	400
• At AC-21B, AC-22B, AC-23B at 500 V AC, with fuse links	A	160	250	160	400	250	630	400
• At AC-21B, AC-22B at 690 V AC	A	160	250	160	400	250	630	400
• At AC-23B at 690 V AC	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 for DC-23B	A	160	250	160	400	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 temperature⁴⁾	°C	-25 ... +55 for operation ⁵⁾ , -50 ... +80 during storage						
Mechanical endurance, operating cycles		1600						
Degree of protection		IP00, for 3NP52 with terminal clamp connection, degree of protection IP10						
• 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 the fuse links)								
• Without busbar adapter	W	7.8 (16.3) ⁵⁾	7.5	15	39			
Maximum power loss of the usable fuses (per fuse)⁶⁾	W	12	23	37	50			
Main conductor connections								
Flat terminal for connection of								
• Crimped cable lugs acc. to DIN 46234 (conductor cross-section, stranded)	mm ²	2.5 ... 120	6 ... 150	6 ... 240	6 ... 240	6 ... 240	6 ... 2 × 240	
• Pressed cable lugs acc. to DIN 46235 (conductor cross-section, stranded)	mm ²	16 ... 70	16 ... 150	16 ... 240	16 ... 240	16 ... 240	16 ... 2 × 240	
• Busbars (usable busbar width)	mm	16 ... 22	22 ... 30	22 ... 30	22 ... 30	22 ... 30	22 ... 30	
Clamp terminals	mm ²	2.5 ... 50 ⁷⁾	35 ... 120	--	--	--	--	
Auxiliary switch 1 NO + 1 NC (accessories)								
• At 50 Hz/60 Hz to 400 V AC, rated operational current I_e at AC-12/AC-15 A	A	The same voltage potential must be applied to the NO and NC contacts						
• Flat plug-in terminals (DIN 46244)		16/6						
		A 6.3 ... 0.8						
Permissible mounting positions		Vertical or horizontal installation (switching capacity may be reduced with horizontal installation)						
Signaling contact for solid-state fuse monitoring								
• Rated operational current I_e at 250 V, DC-13	A	1 NO + 1 NC						
• Rated operational current I_e at 240 V, AC-15	A	0.27						
• Thermal free-air rated current I_{th}	A	1.5						
	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 electronic fuse monitors are used, infeed must be from the top.




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

⁵⁾ With busbar adapter.

⁶⁾ Values are valid when using LV HRC fuse systems with characteristic gG. If using fuses for semiconductor protection, please refer to the assignment table, see page 7/185.

⁷⁾ When connecting one conductor.
 For 2 conductors max. 1×50 mm² and 1×35 mm².

Selection and ordering data

	Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches at the switch disconnectors Version	DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws Article No. www.siemens.com/product?Article No. Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Completely compartmentalized, with high speed closing feature										
 3NP5060-0CA00	160	Flat terminals ¹⁾	00	Without ²⁾ 1 NO + 1 NC	▶	3NP5060-0CA00 3NP5060-0CA10	1 1	1 unit 1 unit	1CL 1CL	1.610 1.639
		Clamp terminals	00	Without ²⁾ 1 NO + 1 NC		3NP5060-0CB00 3NP5060-0CB10	1 1	1 unit 1 unit	1CL 1CL	1.733 1.761
 3NP5260-0CA00	250	Flat terminals	1	Without 1 NO + 1 NC	▶	3NP5260-0CA00 3NP5260-0CA10	1 1	1 unit 1 unit	1CL 1CL	5.360 5.412
		Clamp terminals	1	Without 1 NO + 1 NC		3NP5260-0CB00 3NP5260-0CB10	1 1	1 unit 1 unit	1CL 1CL	5.649 5.601
 3NP5360-0CA00	400	Flat terminals	2	Without 1 NO + 1 NC	▶	3NP5360-0CA00 3NP5360-0CA10	1 1	1 unit 1 unit	1CL 1CL	6.510 6.475
 3NP5460-0CA00	630	Flat terminals	3	Without 1 NO + 1 NC	▶	3NP5460-0CA00 3NP5460-0CA10	1 1	1 unit 1 unit	1CL 1CL	7.890 7.036

1) For 3NP5060 with flat terminals, appropriate 3NY1106 cable lug covers must be used to provide a finger-safe cover, according to DIN VDE 0106 Part 100, see page 7/183, Accessories

2) If the auxiliary switch is retrofitted, additional drill holes are required on the switch.

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Selection and ordering data

Rated uninter- rupted current I_u	Connection type	Size	Auxiliary switches at the switch disconnectors Version	DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Completely compartmentalized, with high speed closing feature¹⁾										
Busbars with a width of 12 mm and a thickness of 5 mm or 10 mm										
160	Flat terminals	00	Without		3NP5065-1CF00		1	1 unit	1CL	2.306
			1 NO + 1 NC		3NP5065-1CF10			1		1 unit
	Clamp terminals	00	Without		3NP5065-1CG00		1	1 unit	1CL	2.351
			1 NO + 1 NC		3NP5065-1CG10			1		1 unit

¹⁾ For accessories and more devices on busbar systems, see page 7/183, [Accessories](#)

Overview

Note:

For disconnector versions "for installation in any distribution board" and busbar adapters, [see page 7/184](#).

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

With fuse monitoring

Selection and ordering data

Fuse monitoring by circuit breakers

Floor mounting

Rated uninterrupted current I_U	Connection type	Size	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			At switch disconnectors	At circuit breakers						
A			Version	Version		Article No. www.siemens.com/product?Article No.	Price per PU			kg
Completely compartmentalized, with high speed closing feature with fuse monitoring by SIRIUS circuit breakers										
With plug-in connection of the auxiliary switch connecting cable (length approx. 1 m) to the circuit breakers										
160	Flat terminals ¹⁾	00	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5060-0EA86	1	1 unit	1CL	2.435
			1 NO + 1 NC	2 NO		3NP5060-0EA26	1	1 unit	1CL	2.459
	Clamp terminals	00	1 NO + 1 NC	1 NO + 1 NC		3NP5060-0EB86	1	1 unit	1CL	2.570
			1 NO + 1 NC	2 NO		3NP5060-0EB26	1	1 unit	1CL	2.562
250	Flat terminals	1	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5260-0EA86	1	1 unit	1CL	5.962
			1 NO + 1 NC	2 NO		3NP5260-0EA26	1	1 unit	1CL	5.981
	Clamp terminals	1	1 NO + 1 NC	1 NO + 1 NC		3NP5260-0EB86	1	1 unit	1CL	6.202
			1 NO + 1 NC	2 NO		3NP5260-0EB26	1	1 unit	1CL	6.169
400	Flat terminals	2	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5360-0EA86	1	1 unit	1CL	7.052
			1 NO + 1 NC	2 NO		3NP5360-0EA26	1	1 unit	1CL	7.042
630	Flat terminals	3	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5460-0EA86	1	1 unit	1CL	8.437
			1 NO + 1 NC	2 NO		3NP5460-0EA26	1	1 unit	1CL	8.443



3NP5260-0EA86



3NP5360-0EA86



3NP5460-0EA86

¹⁾ For 3NP5060 with flat terminals, appropriate 3NY1106 cable lug covers must be used to provide a finger-safe cover, according to DIN VDE 0106 Part 100, see page 7/183, Accessories.

For 40 mm busbar system

Rated uninterrupted current I_U	Connection type	Size	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			At switch disconnectors	At circuit breakers						
A			Version	Version		Article No. www.siemens.com/product?Article No.	Price per PU			kg
Completely compartmentalized, with high speed closing feature with fuse monitoring by SIRIUS circuit breakers¹⁾										
Busbars with a width of 12 mm and thickness of 5 mm or 10 mm										
160	Flat terminals	00	1 NO + 1 NC	1 NO + 1 NC		3NP5065-1EF86	1	1 unit	1CL	2.869
			1 NO + 1 NC	2 NO		3NP5065-1EF26	1	1 unit	1CL	2.807
	Clamp terminals	00	1 NO + 1 NC	1 NO + 1 NC		3NP5065-1EG86	1	1 unit	1CL	2.876
			1 NO + 1 NC	2 NO		3NP5065-1EG26	1	1 unit	1CL	2.974

¹⁾ For accessories and more devices on busbar systems, see chapter "Busbar Systems"

For 60 mm busbar system

Note:

For disconnector versions "for installation in any distribution board" and busbar adapters, see chapter "Busbar Systems".

Fuse monitoring by electronic fuse monitoring device

Floor mounting

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			At switch disconnectors	At fuse monitoring devices						
A			Version	Version		Article No. www.siemens.com/ product?Article No.	Price per PU			kg
Completely compartmentalized, with high-speed closing feature with electronic fuse monitoring EF (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)										
160	Flat terminals ¹⁾	00	1 NO + 1 NC	2 NO + 1 NC		3NP5060-0HA13	1	1 unit	1CL	2.334
	Clamp terminals	00	1 NO + 1 NC	2 NO + 1 NC		3NP5060-0HB13	1	1 unit	1CL	2.506
250	Flat terminals	1	1 NO + 1 NC	2 NO + 1 NC		3NP5260-0HA13	1	1 unit	1CL	5.930
	Flat terminals	2	1 NO + 1 NC	2 NO + 1 NC		3NP5360-0HA13	1	1 unit	1CL	6.937
400	Flat terminals	2	1 NO + 1 NC	2 NO + 1 NC		3NP5360-0HA13	1	1 unit	1CL	6.937
	Flat terminals	3	1 NO + 1 NC	2 NO + 1 NC		3NP5460-0HA13	1	1 unit	1CL	8.313
630	Flat terminals	3	1 NO + 1 NC	2 NO + 1 NC		3NP5460-0HA13	1	1 unit	1CL	8.313



3NP5060-0HA13



3NP5260-0HA13



3NP5360-0HA13



3NP5460-0HA13

¹⁾ For 3NP5060 with flat terminals, appropriate 3NY1106 cable lug covers must be used to provide a finger-safe cover, according to DIN VDE 0106 Part 100, see page 7/183, Accessories.

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

With fuse monitoring

For 40 mm busbar system

Rated uninterrupted current I_U	Connection type	Size	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			At switch disconnectors	At fuse monitoring devices						
A			Version	Version		Article No. www.siemens.com/product?Article No.	Price per PU			kg

Completely compartmentalized, with high-speed closing feature with electronic fuse monitoring EF (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 00 1 NO + 1 NC 2 NO + 1 NC terminals



3NP5065-1HF13

3NP5065-1HF13

1 1 unit 1CL 2.697

For 60 mm busbar system

Note:

For disconnector versions "for installation in any distribution board" and busbar adapters, [see page 7/184](#).

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Accessories

Selection and ordering data

Version	For fuse switch disconnectors	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fuse carriers								
		3NP506-.C..0	3NY1074		1	1 unit	1CL	0.875
		3NP5260-.C..0	3NY1371		1	1 unit	1CL	1.753
		3NP5360-.C..0	3NY1372		1	1 unit	1CL	1.912
		3NP5460-.C..0	3NY1373		1	1 unit	1CL	2.091
	With fuse monitoring by 3RV1 MSPs	3NP506-.E..6	3NY1420		1	1 unit	1CL	1.289
		3NP5260-.E..6	3NY1421		1	1 unit	1CL	2.217
	(with auxiliary switch 1 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP5360-.E..6	3NY1422		1	1 unit	1CL	2.400
		3NP5460-.E..6	3NY1423		1	1 unit	1CL	2.511
Connector and connecting cable								
	1 m long	3NP5 with 3RV1	3NY1910		1	1 unit	1CL	0.102
	3 m long		3NY1911		1	1 unit	1CL	0.270
	With electronic fuse monitoring for 400 V ... 500 V	3NP506-.H.13	3NY1513-0		1	1 unit	1CL	1.155
		3NP5260-.H.13	3NY1513-2		1	1 unit	1CL	2.130
	(with auxiliary switch 1 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP5360-.H.13	3NY1513-3		1	1 unit	1CL	2.180
		3NP5460-.H.13	3NY1513-4		1	1 unit	1CL	0.325
Connector and connecting cable (6-pole)								
	3 m long	3NP5 with EFM	3NY1915		1	1 unit	1CL	0.320
								
3NY1915								
Auxiliary switch 1 NO + 1 NC								
	With actuating cams, screws and washers (mounting kit)	3NP50 ¹⁾	3NY3033		1	1 unit	1CL	0.018
3NY3033								
	With fixing bracket and screws (mounting kit)	3NP52... 3NP54	3NY3034		1	1 unit	1CL	0.017
3NY3034								
Arc chutes								
	(3 units each are required for 3NP52, 3NP53 and 3NP54)	3NP50	3NY4031		1	1 unit	1CL	0.221
		3NP52	3NY4011		1	1 unit	1CL	0.225
		3NP53, 3NP54	3NY4012		1	1 unit	1CL	0.242
3NY4031								
								
3NY4011								
Molded-plastic masking frames								
	As replacement for mask- ing frames from assembly kits for flush mounting (without fixing brackets and small components)	300 × 220 mm	3NY1210	3NY1102	1	1 unit	1CL	0.086
		300 × 245 mm	3NY1211	3NY1103	1	1 unit	1CL	0.078
		300 × 290 mm	3NY1212	3NY1104	1	1 unit	1CL	0.084
3NY1102								

¹⁾ If retrofitted, drill holes are required.

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Accessories

Assembly kits for distribution systems

Version	For fuse switch disconnectors	Dimensions mm	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For installation in any distribution board									
Molded-plastic masking frames		Height × Width							
For installation in cabinet	3NP50 with and without auxiliary switch	215 × 135		3NY1105		1	1/400 units	1CL	0.044
	With auxiliary switch	215 × 135		3NY1115		1	1/400 units	1CL	0.044
For installation in metal front panels	With and without auxiliary switch	220 × 160		3NY1125		1	1 unit	1CL	0.060
For covering connection terminals	3NP50 with and without auxiliary switch	265 × 135		3NY1107		1	1 unit	1CL	0.076
For covering cable lug connections	3NP50 with and without auxiliary switch	290 × 135		3NY1106		1	1/225 units	1CL	0.073
	With auxiliary switch	290 × 135		3NY1116		1	1/225 units	1CL	0.076
For separate covering of top and bottom cable lug connections	3NP50 with and without auxiliary switch	290 × 135		3NY1108		1	1/200 units	1CL	0.046
Assembly kits for flush mounting									
With molded-plastic masking frame, fixing brackets and small components; for disconnectors with and without auxiliary switches	3NP5060	250 × 149		3NY1208		1	1 unit	1CL	0.514
	3NP5260	300 × 220		3NY1210		1	1 unit	1CL	0.291
	3NP5360	300 × 245		3NY1211		1	1 unit	1CL	0.298
	3NP5460	300 × 290		3NY1212		1	1 unit	1CL	0.320
Covers for cable lug connections									
(1 set = 6 units) can be screwed onto free screw end to protect against accidental touch	3NP52	99		3NY1241		1	1 unit	1CL	0.208
	3NP53/3NP54	95		3TX6546-3B		1	1 unit	41B	0.278
		120		3NY1245		1	1 unit	1CL	0.337
Clamp terminals									
(1 set = 3 units)	3NP50	2.5 ... 50 mm ² 1)		3NY1903		1	1 unit	1CL	0.211
	3NP52	35 ... 120 mm ²		3NY1907		1	1 unit	1CL	0.223
Busbar adapters									
For 60 mm busbar system	3NP50	108		8US1291-4SB00		1	1 unit	1CU	0.529
	3NP52, 3NP53, 3NP54 ²⁾	250 (length 320 mm, M10 terminal screws, connecting cables must be manufactured)		8US1210-4AG00		1	1 unit	1CU	2.868



3NY1107



3NY1106



3NY1212



3TX6546-3B



3NY1907



8US1210-4AG00

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

2) Disconnector is wider than adapter. The adapter can, however, be expanded to 276 mm with two 8US1998-2BM00 side modules

Overview

3NP5 fuse switch disconnectors are suitable for all fuses in LV HRC design; see chapter "Fuse Systems".

SITOR semiconductor fuses in LV HRC design can also be used, although it must be noted that, compared to cable and line protection fuses, these get much hotter during operation. For this reason, the fuse must be operated below the rated current I_n of the device (derating) when installed in a closed switching device.

The following table shows the permissible load currents of the SITOR semiconductor fuses for installation in 3NP5. The values were determined using the conductor cross-sections specified in the table.

SITOR semiconductor fuses for 3NP5 fuse switch disconnectors: Assignment table

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in 3NP5 for floor mounting					
Type ¹⁾²⁾	Rated current I_n	Rated voltage ³⁾ V AC	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ⁴⁾ A
3NC2423..	150	500	gR	3	70	3NP54	3	145	--	--	--
3NC2425..	200	500	gR	3	95	3NP54	3	180	--	--	--
3NC2427..	250	500	gR	3	120	3NP54	3	225	--	--	--
3NC2428..	300	500	gR	3	185	3NP54	3	255	--	--	--
3NC2431..	350	500	gR	3	240	3NP54	3	330	--	--	--
3NC2432..	400	500	aR	3	240	3NP54	3	400	--	--	--
3NC3336-1	630	1000	aR	3	2x (40x5)	3NP54	3	530	--	--	--
3NC3337-1	710	1000	aR	3	2x (50x5)	3NP54	3	570	--	--	--
3NC3338-1	800	1000	aR	3	2x (40x8)	3NP54	3	630	--	--	--
3NC3340-1	900	1000	aR	3	2x (40x8)	3NP54	3	700 ⁵⁾	--	--	--
3NC3341-1	1000	1000	aR	3	2x (50x8)	3NP54	3	770 ⁵⁾	--	--	--
3NC3342-1	1100	800	aR	3	2x (50x8)	3NP54	3	800 ⁵⁾	--	--	--
3NC3343-1	1250	800	aR	3	2x (50x8)	3NP54	3	850 ⁵⁾	--	--	--
3NC3430-1	315	1250	aR	3	2x95	3NP54	3	295	--	--	--
3NC3432-1	400	1250	aR	3	2x120	3NP54	3	355	--	--	--
3NC3434-1	500	1250	aR	3	2x150	3NP54	3	440	--	--	--
3NC3436-1	630	1250	aR	3	2x (40x5)	3NP54	3	520	--	--	--
3NC3438-1	800	1100	aR	3	2x (40x8)	3NP54	3	625	--	--	--
3NC8423..	150	660	gR	3	70	3NP54	3	135	--	--	--
3NC8425..	200	660	gR	3	95	3NP54	3	180	--	--	--
3NC8427..	250	660	gR	3	120	3NP54	3	225	--	--	--
3NC8431..	350	660	gR	3	240	3NP54	3	300	--	--	--
3NC8434..	500	660	gR	3	2x 150	3NP54	3	425	--	--	--
3NC8444-3C	1000	600	aR	3	2x (60x6)	3NP54	3	800 ⁵⁾	--	--	--
3NE1020-2	80	690	gR	00	25	3NP50	00	80	--	--	--
3NE1021-0	100	690	gS	00	35	3NP50	00	100	--	--	--
3NE1021-2	100	690	gR	00	35	3NP50	00	100	--	--	--
3NE1022-0	125	690	gS	00	50	3NP50	00	125	--	--	--
3NE1022-2	125	690	gR	00	50	3NP50	00	125	--	--	--
3NE1224-0	160	690	gS	1	70	3NP52	1	160	3NP53	2	160
3NE1224-2/-3	160	690	gR	1	70	3NP52	1	160	3NP53	2	160
3NE1225-0	200	690	gS	1	95	3NP52	1	200	3NP53	2	200
3NE1225-2	200	690	gR	1	95	3NP52	1	200	3NP53	2	200
3NE1225-3	200	690	gR	1	95	3NP52	1	190	3NP53	2	200
3NE1227-0	250	690	gS	1	120	3NP52	1	250	3NP53	2	250
3NE1227-2	250	690	gR	1	120	3NP52	1	250	3NP53	2	250
3NE1227-3	250	690	gR	1	120	3NP52	1	235	3NP53	2	250
3NE1230-0	315	690	gS	1	2x 70	3NP53	2	315	--	--	--
3NE1230-2/-3	315	690	gR	1	2x 70	3NP53	2	315	--	--	--
3NE1331-0	350	690	gS	2	2x 95	3NP53	2	350	3NP54	3	350
3NE1331-2/-3	350	690	gR	2	2x 95	3NP53	2	350	3NP54	3	350

Note

If using smaller cross-sections, a considerably higher derating is required due to the lower heat dissipation.

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in 3NP5 for floor mounting					
Type ¹⁾²⁾	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ⁴⁾
	A	V AC					A			A	
3NE1332-0	400	690	gS	2	2x 95	3NP53	2	400	3NP54	3	400
3NE1332-2/-3	400	690	gR	2	2x 95	3NP53	2	400	3NP54	3	400
3NE1333-0	450	690	gS	2	2x 120	3NP54	3	450	--	--	--
3NE1333-2/-3	450	690	gR	2	2x 120	3NP54	3	450	--	--	--
3NE1334-0	500	690	gS	2	2x 120	3NP54	3	500	--	--	--
3NE1334-2/-3	500	690	gR	2	2x 120	3NP54	3	500	--	--	--
3NE1435-0	560	690	gS	3	2x 150	3NP54	3	560	--	--	--
3NE1435-2/-3	560	690	gR	3	2x 150	3NP54	3	560	--	--	--
3NE1436-0	630	690	gS	3	2x 185	3NP54	3	630	--	--	--
3NE1436-2/-3	630	690	gR	3	2x 185	3NP54	3	625	--	--	--
3NE1437-0	710	690	gS	3	2x (40x5)	3NP54	3	710 ⁵⁾	--	--	--
3NE1437-1	710	600	gR	3	2x (40x5)	3NP54	3	690 ⁵⁾	--	--	--
3NE1437-2/-3	710	690	gR	3	2x (40x5)	3NP54	3	685 ⁵⁾	--	--	--
3NE1438-0	800	690	gS	3	2x (50x5)	3NP54	3	800 ⁵⁾	--	--	--
3NE1438-1	800	600	gR	3	2x (50x5)	3NP54	3	750 ⁵⁾	--	--	--
3NE1438-2/-3	800	690	gR	3	2x (50x5)	3NP54	3	770 ⁵⁾	--	--	--
3NE1447-2/-3	670	690	gR	3	2x (40x5)	3NP54	3	655 ⁵⁾	--	--	--
3NE1448-2/-3	850	690	gR	3	2x (40x8)	3NP54	3	820 ⁵⁾	--	--	--
3NE1802-0	40	690	gS	000	10	3NP50	00	40	--	--	--
3NE1803-0	35	690	gS	000	6	3NP50	00	35	--	--	--
3NE1813-0	16	690	gS	000	1.5	3NP50	00	16	--	--	--
3NE1814-0	20	690	gS	000	2.5	3NP50	00	20	--	--	--
3NE1815-0	25	690	gS	000	4	3NP50	00	25	--	--	--
3NE1817-0	50	690	gS	000	10	3NP50	00	50	--	--	--
3NE1818-0	63	690	gS	000	16	3NP50	00	63	--	--	--
3NE1820-0	80	690	gS	000	25	3NP50	00	80	--	--	--
3NE3221	100	1000	aR	1	35	3NP52	1	95	3NP53	2	100
3NE3222	125	1000	aR	1	50	3NP52	1	110	3NP53	2	120
3NE3224	160	1000	aR	1	70	3NP52	1	140	3NP53	2	150
3NE3225	200	1000	aR	1	95	3NP52	1	175	3NP53	2	190
3NE3227	250	1000	aR	1	120	3NP52	1	210	3NP53	2	230
3NE3230-0B	315	1000	aR	1	185	3NP53	2	285	--	--	--
3NE3231	350	1000	aR	1	240	3NP53	2	310	--	--	--
3NE3232-0B	400	1000	aR	1	240	3NP53	2	330	--	--	--
3NE3233	450	1000	aR	1	2x 150	3NP53	2	360	--	--	--
3NE3332-0B	400	1000	aR	2	240	3NP54	3	360	--	--	--
3NE3333	450	1000	aR	2	2x 150	3NP54	3	400	--	--	--
3NE3334-0B	500	1000	aR	2	2x 150	3NP54	3	450	--	--	--
3NE3335	560	1000	aR	2	2x 185	3NP54	3	510	--	--	--
3NE3336	630	1000	aR	2	2x 185	3NP54	3	580	--	--	--
3NE3337-8	710	900	aR	2	2x (40x5)	3NP54	3	630	--	--	--
3NE3338-8	800	800	aR	2	2x 240	3NP54	3	630	--	--	--
3NE3340-8	900	690	aR	2	2x (40x8)	3NP54	3	630	--	--	--
3NE4101	32	1000	gR	0	6	3NP52	1	32	--	--	--
3NE4102	40	1000	gR	0	10	3NP52	1	40	--	--	--
3NE4117	50	1000	gR	0	10	3NP52	1	50	--	--	--
3NE4118	63	1000	aR	0	16	3NP52	1	63	--	--	--
3NE4120	80	1000	aR	0	25	3NP52	1	80	--	--	--
3NE4121	100	1000	aR	0	35	3NP52	1	95	--	--	--
3NE4122	125	1000	aR	0	50	3NP52	1	120	--	--	--
3NE4124	160	1000	aR	0	70	3NP52	1	150	--	--	--
3NE4327-0B	250	800	aR	2	150	3NP53	2	210	3NP54	3	220
3NE4330-0B	315	800	aR	2	240	3NP53	2	270	3NP54	3	285
3NE4333-0B	450	800	aR	2	2x (30x5)	3NP53	2	400	3NP54	3	420

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR semiconductor fuse data						Permissible load currents of fuse when installed in 3NP5 for floor mounting					
Type ¹⁾²⁾	Rated current I_n	Rated voltage ³⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ⁴⁾
	A	V AC						A			A
3NE4334-0B	500	800	aR	2	2x (30x5)	3NP54	3	450	--	--	--
3NE4337	710	800	aR	2	2x (50x5)	3NP54	3	600	--	--	--
3NE8015-1	25	690	gR	00	4	3NP50	00	25	--	--	--
3NE8003-1	35	690	gR	00	6	3NP50	00	33	--	--	--
3NE8017-1	50	690	gR	00	10	3NP50	00	45	--	--	--
3NE8018-1	63	690	gR	00	16	3NP50	00	54	--	--	--
3NE8020-1	80	690	aR	00	25	3NP50	00	68	--	--	--
3NE8021-1	100	690	aR	00	35	3NP50	00	89	--	--	--
3NE8022-1	125	690	aR	00	50	3NP50	00	106	--	--	--
3NE8024-1	160	690	aR	00	70	3NP50	00	130	--	--	--

¹⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE41 semiconductor fuses should only be switched occasionally and only at zero current.

²⁾ For permissible load currents for 3NE8...-0MK, see Configuration Manual "Fuse Systems", or on request

³⁾ 3NP1 fuse switch disconnectors may be operated at up to 1000 V AC/DC with the following restrictions:
 - Degree of pollution 2 (instead of 3)
 - AC20 or DC20 – i.e. switching only without load.

⁴⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

⁵⁾ The fuse can also be operated at a higher rated uninterrupted current than the 630 A current of the 3NP54. However, in this case, the 3NP54 must not be switched under load (utilization category AC-20).

7

Switch Disconnectors

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

Introduction

Overview



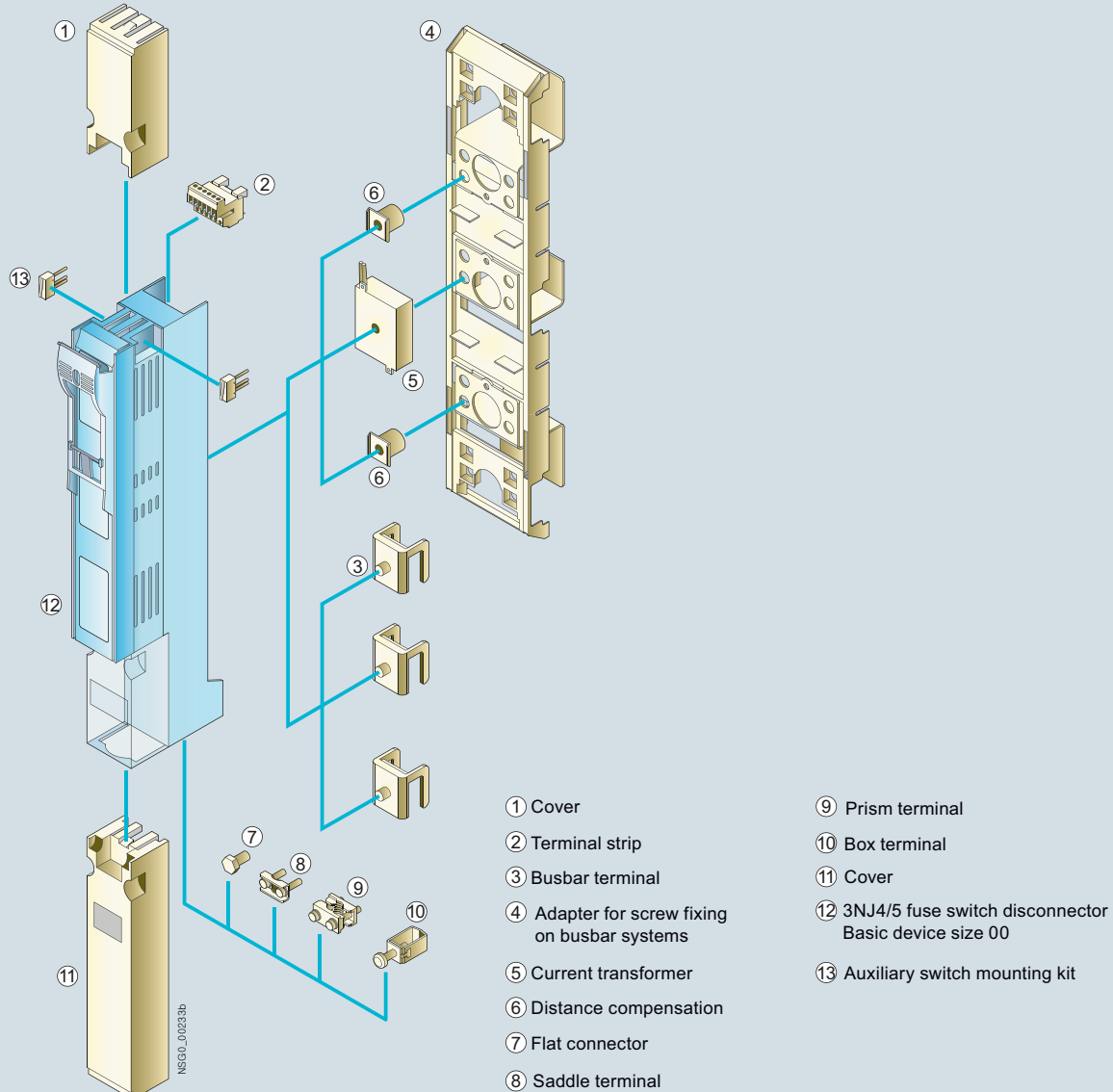
3NJ4/3NJ5 fuse switch disconnectors

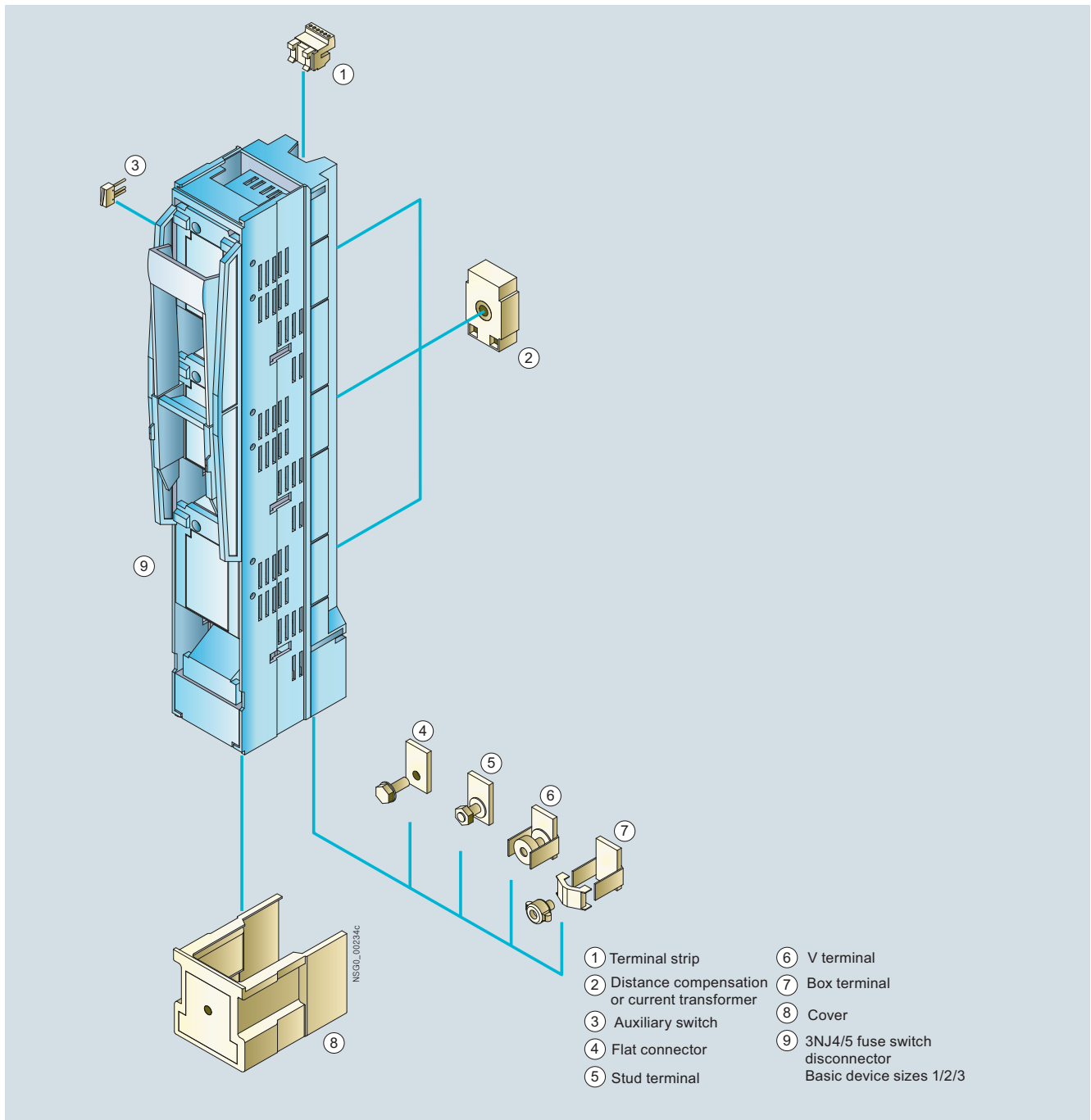
All key product features at a glance

- 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)

7

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



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

For maintenance, e.g. the fuse carriers of the 1-pole switchable in-line fuse switch disconnectors of sizes 1 to 3 and the 3-pole switchable 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 when replacing the fuse links
- Additional touch protection in the vicinity of the lyre-shaped contacts

Application

3NJ41 and 3NJ56 1-pole and 3-pole in-line fuse switch disconnectors can be installed in low-voltage distribution boards, substations and cable distribution cubicles.

Note:

For 1-pole switchable fuse switch disconnectors the following applies acc. to EC/EN 60947-3: *These devices are intended for power distribution systems that may require the switching and/or disconnection of individual outer conductors. They should not be used for switching the primary circuits of 3-phase equipment.*

Switch Disconnectors



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

Introduction

Technical specifications

Standards			IEC 60947-1, IEC 60947-3, VDE 0660 Part 107								
Type			3NJ410	3NJ412	3NJ413	3NJ414	3NJ56	3NJ415	3NJ418	3NJ416	3NJ417
Conventional thermal current											
Free-air with gG fuses, I_{th}	A		160	250	400	630	1250	630	800	1260	1600
Free-air with isolating blade, 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 blades											
gG according to IEC 60269, I_n	A	Size	00	1	2	3	4a	3	3	2 x 3	2 x 3
Free-air with isolating link, I_n	A		--	--	--	--	--	1000	1250	2 x 800	2 x 1000
gTr according to VDE 0636-2011, I_{rat}	A		--	--	--	--	1154	722	909	2 x 577	2 x 722
gTr according to VDE 0636-2011, S_n	kVA		--	--	--	--	800	500	630	2 x 400	2 x 500
Rated operational voltage U_e											
At 40 Hz ... 60 Hz AC	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, at 500 V AC											
With gG fuse (rms value)	kA		80/120	120	120	120	80	120	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 blades											
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	30	80	80 x 10	80 x 10	--	--
Cable lug, max. conductor cross-section (stranded)	mm ²		95	240	240	240	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	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	35 ... 40

Selection and ordering data

Rated operating current I_e	For fuse links acc. to IEC 60269-1	Busbar center-to-center spacing	Connection type (terminal screws/ clamp-type terminals included in the scope of supply) ¹⁾ , optionally top or bottom (rotatable!)	For conductor material	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A	Size	mm									kg
In-line fuse switch disconnectors, 1-pole switchable											
	160	00 and 000	185 ²⁾	M8 flat connector	Cu/Al ³⁾	3NJ4101-3BF01		1	1 unit	1DL	2.060
	250	1	185	M10 flat connector	Cu/Al ³⁾	3NJ4121-3BF01		1	1 unit	1DL	4.908
	400	2 and 1	185	M12 flat connector	Cu/Al ³⁾	3NJ4131-3BF01		1	1 unit	1DL	4.939
	630	3 and 2	185	M12 flat connector	Cu/Al ³⁾	3NJ4141-3BF01		1	1 unit	1DL	5.867
	1250	4a	185	M16 × 60 stud terminal	Cu/Al ³⁾	3NJ5643-0BB00		1	1 unit	1DL	21.260
In-line fuse switch disconnectors, 1-pole switchable, for integratable current transformers											
	250	1	185	M10 flat connector	Cu/Al ³⁾	3NJ4121-3BF11		1	1 unit	1DL	4.890
	400	2 and 1	185	M12 flat connector	Cu/Al ³⁾	3NJ4131-3BF11		1	1 unit	1DL	5.120
	630	3 and 2	185	M12 flat connector	Cu/Al ³⁾	3NJ4141-3BF11		1	1 unit	1DL	5.880

3NJ4101-3BF01

3NJ4121-3BF01

3NJ4121-3BF11


- 1) Fixing screws for mounting on busbars must be ordered separately.
 2) A 3NJ5930-3BB adapter is needed to compensate the height for joint fitting with device sizes NH1 to 3.
 3) Cu/Al when using suitable cable lugs or terminals.

Switch Disconnectors


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

3-pole switchable

Selection and ordering data

	Rated operating current I_e	For fuse links acc. to IEC 60269-1	Busbar center-to-center spacing	Connection type (terminal screws/ clamp-type terminals included in the scope of supply) ¹⁾ optionally top or bottom (rotatable!)	For conductor material	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	Size	mm									kg
In-line fuse switch disconnectors, 3-pole switchable												
 <p>Left: 3NJ4103-3BF01 Right: 3NJ4123-3BF01</p>	160	00 and 000	100	M8 flat connector F70 box terminal	Cu/Al ²⁾ Cu		3NJ4103-3BF02 3NJ4103-3BR02		1	1 unit	1DL	1.144 1.118
	160	00 and 000	185 ³⁾	M8 flat connector	Cu/Al ²⁾		3NJ4103-3BF01		1	1 unit	1DL	2.180
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3BF01		1	1 unit	1DL	5.080
				M12 stud terminal	Cu/Al ²⁾		3NJ4123-3BJ01		1	1 unit	1DL	5.110
				V terminal	Cu/Al ²⁾		3NJ4123-3BT01		1	1 unit	1DL	5.475
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3BF01		1	1 unit	1DL	5.250
				M12 stud terminal	Cu/Al ²⁾		3NJ4133-3BJ01		1	1 unit	1DL	5.160
				V terminal	Cu/Al ²⁾		3NJ4133-3BT01		1	1 unit	1DL	5.500
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3BF01		1	1 unit	1DL	5.880
				M12 stud terminal	Cu/Al ²⁾		3NJ4143-3BJ01		1	1 unit	1DL	6.063
			V terminal	Cu/Al ²⁾		3NJ4143-3BT01		1	1 unit	1DL	6.675	

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


 <p>3NJ41.3-3CF.</p>	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾		3NJ4103-3CF02		1	1 unit	1DL	1.557
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3CF01		1	1 unit	1DL	6.280
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3CF01		1	1 unit	1DL	6.350
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3CF01		1	1 unit	1DL	7.050

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

	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾		3NJ4103-3BF12		1	1 unit	1DL	1.110
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3BF11		1	1 unit	1DL	5.192
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3BF11		1	1 unit	1DL	5.239
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3BF11		1	1 unit	1DL	6.090

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	Cu/Al ²⁾		3NJ4103-3CF12		1	1 unit	1DL	1.538
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3CF11		1	1 unit	1DL	6.320
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3CF11		1	1 unit	1DL	6.420
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3CF11		1	1 unit	1DL	7.090

	Transformer apparent power	Rated apparent power of the gTr fuses	Busbar center-to-center spacing	Rated current of gTr fuses	Rated operational current I_o with 3NJ4914-8BA00 isolating blade	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	kVA	kVA	mm	A	A							kg
In-line fuse switch disconnectors, 3-pole switchable, for secondary-side fusing of transformers and incoming block												
 <p>3NJ4163-3BF01</p>	500	500	185	722	1000		3NJ4153-3BF01		1	1 unit	1DL	9.000
	630	630	185	909	1250		3NJ4183-3BF01		1	1 unit	1DL	12.943
	800	2 x 400	185	2 x 577	1600		3NJ4163-3BF01		1	1 unit	1DL	15.500
	1000	2 x 500	185	2 x 722	2000		3NJ4173-3BF01		1	1 unit	1DL	25.520

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

²⁾ Cu/Al when using suitable cable lugs or terminals.

³⁾ A 3NJ5930-3BB adapter is needed to compensate the height for joint fitting with device sizes NH1 to 3.

Selection and ordering data

Version	For in-line fuse switch disconn. or dimensions	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3NJ4912-1FA01	Size 00, additional touch protection when using cable lugs and as spacer • 100 mm for bottom	3NJ4101-3BF01, 3NJ4103-3BF01	3NJ4912-1FA01		1	1 unit	1DL	0.080
 3NJ4912-1FA00	Size 00, additional touch protection when using cable lugs and as spacer • 132 mm for top	3NJ4101-3BF01, 3NJ4103-3BF01	3NJ4912-1FA00		1	1 unit	1DL	0.071
 33NJ4912-1AA01	Covers¹⁾ Size 1 to 3 Additional touch protection with use of cable lugs or connection from above	3NJ412 to 3NJ414, 3NJ415, 3NJ418	3NJ4912-1AA01		1	1 unit	1DL	0.100
 3NJ4912-1EA00	Covers Size 3 For double in-line disconnectors	3NJ414	3NJ4912-1EA00		1	1 unit	1DL	0.502
 3NJ4912-1DA02	Covers Size 00 (can also be used as spacer) top and bottom to cover long cable lugs and compensate for combination of 3NJ4103 with terminals 3NJ412 to 3NJ414 (1 set = 2 units: short and long ²⁾)	3NJ4103-3BF02	3NJ4912-1DA02		1	1 unit	1DL	0.156
 3NJ4912-2AA00	Blanking covers For panel cutout 633 mm long	50 mm wide	3NJ4912-2AA00		1	1 unit	1DL	0.189
 3NJ4912-2BA00	For panel cutout 633 mm long	100 mm wide	3NJ4912-2BA00		1	1 unit	1DL	0.215
 3NJ4912-2CA00	For panel cutout 299 mm long	50 mm wide	3NJ4912-2CA00		1	1 unit	1DL	0.089






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 disconnector).

Switch Disconnectors

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

Accessories








Version	For in-line fuse switch disconn. or dimensions	DT	Article No. www.siemens.com/product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3NJ4912-2DA00	Lateral masking frame supports for NH00 ... NH3, 3 clips with T profile	Length 665 mm	3NJ4912-2DA00		1	2 units	1DL	0.082
 3NJ4918-0AAA00	Fixing clips 2 units per side, for fixing the cover of the control panel front (1 set = 4 units, including fixing accessories)	3NJ41	3NJ4918-0AAA00		1	1 unit	1DL	0.130
 ① ② ③ I201_18464	Unequipped section covers for busbars To be fitted directly in the drilled holes of the busbars ① Busbar center-to-center spacing 185 mm ② Busbar center-to-center spacing 185 mm ③ Busbar center-to-center spacing 100 mm Also for covering a blank space on 3NJ4918-0DA02 or 3NJ5930-3BB	50 mm wide 100 mm wide 50 mm wide	3NJ4912-3AA00 3NJ4912-3BA01 3NJ4912-3CA00		1 1 1	1 unit 1 unit 1 unit	1DL 1DL 1DL	0.127 0.280 0.101
 3NJ4918-0DA02	Adapters for screw fixing on busbar systems • For fitting two 100 mm fuse switch disconnectors onto the busbar system with 185 mm center-to-center spacing, including adaptation to sizes 1 to 3 • For fitting two 185 mm fuse switch disconnectors onto the busbar system with 185 mm center-to-center spacing, including adaptation to sizes 1 to 3 • For fitting two 100 mm fuse switch disconnectors onto the busbar system with 185 mm center-to-center spacing and busbar terminal , including adaptation to sizes 1 to 3 • For fitting one fuse switch disconnector (= 3 separate brackets) onto the busbar system with 60 mm center-to-center spacing	3NJ4103-3BF02, 3NJ4103-3BR02, 3NJ4103-3CF02, 3NJ4103-3BF12, 3NJ4103-3CF12 3NJ4103-3BF01, 3NJ4101-3BF01 3NJ4103-3BF02, 3NJ4103-3BR02, 3NJ4103-3CF02, 3NJ4103-3BF12, 3NJ4103-3CF12 3NJ4103-3BF02, 3NJ4103-3BR02, 3NJ4103-3CF02, 3NJ4103-3BF12, 3NJ4103-3CF12	3NJ4918-0DA02 3NJ5930-3BB 3NJ4918-0DB02 3NJ4918-0EA00		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL	0.759 0.705 1.239 0.246
 3NJ4918-0EA00	Fixing screws For fitting 3NJ4103 switch disconnectors with integratable current transformers onto adapters (1 set = 3 units)	3NJ4103	3NJ4918-0DC02		1	1 unit	1DL	0.064

7

Switch Disconnectors

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


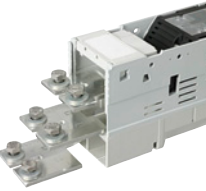

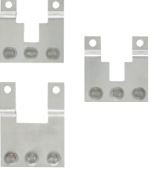

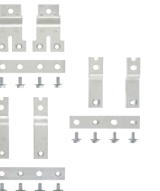


Accessories

Version	For in-line fuse switch disconn. or dimensions	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3NJ5974-0AB	Busbar supports For 100 mm and 185 mm center-to-center spacing, for screwing on of busbars	3NJ41 and 3NJ5	3NJ5974-0AB		1	1 unit	1DL	0.464
 3NJ4910-1AA00	Grounding kit with connecting cable 25 mm²	3NJ414 to 3NJ418	3NJ4910-1AA00		1	1 unit	1DL	2.376
 3NJ4911-3AA00	Busbar terminals For each fuse switch disconnector, 3 units are required; Not for devices with transformer installation	3NJ4103 3NJ4101	3NJ4911-3AA00		1	1 unit	1DL	0.160
 3NJ4911-3BA01	For rapid mounting of the switch disconnectors onto the busbars (1 set = 3 units) Not for devices with transformer installation	3NJ412 to 3NJ414	3NJ4911-3BA01		1	1 unit	1DL	0.602
 3NJ4911-4AA00	Saddle terminals Cu connector 1.5 ... 70 mm ² (1 set = 3 units)	3NJ4103	3NJ4911-4AA00		1	1 unit	1DL	0.042
 3NJ4911-1AA00	Prism terminal assembly kits Al/Cu connector 10 ... 70 mm ² (1 set = 3 units)	3NJ4103 3NJ4101	3NJ4911-1AA00		1	1 unit	1DL	0.098
 3NJ4911-2BQ00	Box terminal assembly kits Al/Cu connector 95 ... 240 mm ² (for connection to version with flat connector) (1 set = 3 units)	3NJ412 to 3NJ414	3NJ4911-2BQ00		1	1 unit	1DL	0.965


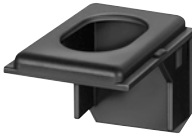



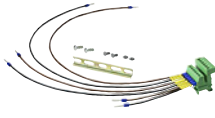
Switch Disconnectors

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

Accessories

Version	For in-line fuse switch disconn. or dimensions	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Busbar connection assembly kits for NH 1, 2, 3								
 3NJ4911-5AA00	With flat connector 2 x 240 mm ² With M12 screws	3NJ412 to 3NJ414	3NJ4911-5AA00		1	1 unit	1DL	0.245
 3NJ4911-5BA00	2 x 300 mm ² / 3 x 120 mm ² With M12 screws	3NJ412 to 3NJ414	3NJ4911-5BA00		1	1 unit	1DL	1.855
 3NJ4911-5CA00	1 x 400 mm ² With M16 screws	3NJ412 to 3NJ414	3NJ4911-5CA00		1	1 unit	1DL	1.898
Busbar connection assembly kits for NH3 as double in-line disconnectors								
 3NJ4911-6AA00	3 x 300 mm ² / 4 x 185 mm ²	3NJ413, 3NJ414	3NJ4911-6AA00		1	1 unit	1DL	3.117
 3NJ4911-6BA00	Mechanical coupling of operating handles, required in addition for coupling two switch disconnectors	3NJ413 3NJ414	3NJ4911-6CA00		1	1 unit	1DL	0.050
Busbar connection assembly kits for NH3 as double in-line disconnectors								
 3NJ4911-6BA00	4 x 240 mm ²	3NJ413, 3NJ414	3NJ4911-6BA00		1	1 unit	1DL	4.102
 3NJ4911-6BA00	Mechanical coupling of operating handles, required in addition for coupling two switch disconnectors	3NJ413 3NJ414	3NJ4911-6CA00		1	1 unit	1DL	0.050
Auxiliary switch mounting kit								
 3NJ4913-6AA02	For sizes 00 to 3 with connecting cables, 1 CO contact, for 3-pole switchable switch disconnectors only	3NJ41	3NJ4913-1AA01		1	1 unit	1DL	0.022
Fuse 630 kVA 909 A Size NH 3								
	Specially for the protection of transformers (minimum order quantity 3 units)	3NJ418	3NJ4914-8AA00		1	3 units	1DL	1.341

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

Version	For in-line fuse switch disconn. or dimensions	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3NJ4914-8BA00	Isolating blades Size NH3, 1250 A	3NJ4153, 3NJ4163, 3NJ4173, 3NJ4183	3NJ4914-8BA00		1	1 unit	1DL	0.904
 3NJ4918-1AA00	Mounting hooks (one per in-line disconnector required)	3NJ4121 to 3NJ4143	3NJ4918-1AA00		1	1 unit	1DL	0.125
 3NJ4915-1BA00	Distance compensation	3NJ4103	3NJ4915-1BA00		1	1 unit	1DL	0.023
 3NJ4915-2BA00	Distance compensation for fuse switch disconnectors with integratable current transformers if no current transformer is built in.	3NJ412 to 3NJ414	3NJ4915-2BA00		1	1 unit	1DL	0.097
 3NJ4915-1CA00	Terminal strips	3NJ4103	3NJ4915-1CA00		1	1 unit	1DL	0.071
 3NJ4915-2CA00		3NJ412 to 3NJ414	3NJ4915-2CA00		1	1 unit	1DL	0.107

Switch Disconnectors

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

Accessories

Version	For in-line fuse switch disconn. or dimensions	DT	Article No. www.siemens.com/product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Current transformers .../1 A								
 3NJ4915-1FB20	100/1 A, Cl. 0.5, 1.5 VA	3NJ4103	3NJ4915-1EA10		1	1 unit	1DL	0.252
	100/1 A, Cl. 1, 2.0 VA	3NJ4103	3NJ4915-1EA20		1	1 unit	1DL	0.247
	150/1 A, Cl. 0.5, 2.5 VA	3NJ4103	3NJ4915-1FA10		1	1 unit	1DL	0.226
	150/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ4103	3NJ4915-1FA11		1	1 unit	1DL	0.244
	150/1 A, Cl. 1, 3.0 VA	3NJ4103	3NJ4915-1FA20		1	1 unit	1DL	0.240
	75/1 A, Cl. 1, 1.5 VA	3NJ412 to 3NJ414	3NJ4915-2DA20		1	1 unit	1DL	0.216
	100/1 A, Cl. 0.5, 1.5 VA	3NJ412 to 3NJ414	3NJ4915-2EA10		1	1 unit	1DL	0.217
	100/1 A, Cl. 1, 2.0 VA	3NJ412 to 3NJ414	3NJ4915-2EA20		1	1 unit	1DL	0.204
	150/1 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2FA10		1	1 unit	1DL	0.203
	150/1 A, Cl. 1, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2FA20		1	1 unit	1DL	0.204
	250/1 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2GA10		1	1 unit	1DL	0.209
	250/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2GA11		1	1 unit	1DL	0.207
	250/1 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2GA20		1	1 unit	1DL	0.223
	400/1 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2HA10		1	1 unit	1DL	0.204
	400/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2HA11		1	1 unit	1DL	0.202
	400/1 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2HA20		1	1 unit	1DL	0.194
500/1 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2JA10		1	1 unit	1DL	0.197	
500/1 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2JA20		1	1 unit	1DL	0.211	
600/1 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2KA10		1	1 unit	1DL	0.195	
600/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2KA11		1	1 unit	1DL	0.203	
600/1 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2KA20		1	1 unit	1DL	0.196	
Current transformers .../5 A								
 3NJ4915-1FB20	100/5 A, Cl. 0.5, 1.0 VA	3NJ4103	3NJ4915-1EB10		1	1 unit	1DL	0.241
	100/5 A, Cl. 1, 1.5 VA	3NJ4103	3NJ4915-1EB20		1	1 unit	1DL	0.237
	150/5 A, Cl. 0.5, 1.5 VA	3NJ4103	3NJ4915-1FB10		1	1 unit	1DL	0.250
	150/5 A, Cl. 0.5 calibrated, 1.5 VA	3NJ4103	3NJ4915-1FB11		1	1 unit	1DL	0.247
	150/5 A, Cl. 1, 2.5 VA	3NJ4103	3NJ4915-1FB20		1	1 unit	1DL	0.242
	75/5 A, Cl. 1, 1.5 VA	3NJ412 to 3NJ414	3NJ4915-2DB20		1	1 unit	1DL	0.209
	100/5 A, Cl. 0.5, 1.0 VA	3NJ412 to 3NJ414	3NJ4915-2EB10		1	1 unit	1DL	0.208
	100/5 A, Cl. 1, 2.0 VA	3NJ412 to 3NJ414	3NJ4915-2EB20		1	1 unit	1DL	0.210
	150/5 A, Cl. 0.5, 1.5 VA	3NJ412 to 3NJ414	3NJ4915-2FB10		1	1 unit	1DL	0.202
	150/5 A, Cl. 1, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2FB20		1	1 unit	1DL	0.200
	250/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2GB10		1	1 unit	1DL	0.203
	250/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2GB11		1	1 unit	1DL	0.203
	250/5 A, Cl. 1, 3.75 VA	3NJ412 to 3NJ414	3NJ4915-2GB20		1	1 unit	1DL	0.204
	400/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2HB10		1	1 unit	1DL	0.197
	400/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2HB11		1	1 unit	1DL	0.193
	400/5 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2HB20		1	1 unit	1DL	0.195
500/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2JB10		1	1 unit	1DL	0.197	
500/5 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2JB20		1	1 unit	1DL	0.204	
600/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2KB10		1	1 unit	1DL	0.202	
600/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2KB11		1	1 unit	1DL	0.209	
600/5 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2KB20		1	1 unit	1DL	0.203	

Note

The current transformers can also be used with the 7KM PAC measuring devices, [see chapter "Measuring Devices and Power Monitoring"](#).