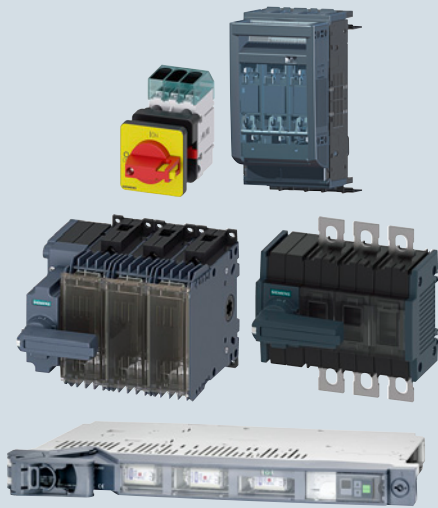


Switch Disconnectors



For further technical product information:

[Configuration Manual](#)

[Switch disconnectors](#)

Article No.: 3ZW1012-3NP11-OAC1

Siemens Industry Online Support:

www.siemens.com/lowvoltage/product-support

→ Entry type:

Application example
Certificate
Characteristic
Download
FAQ
Manual
Product note
Software archive
Technical data

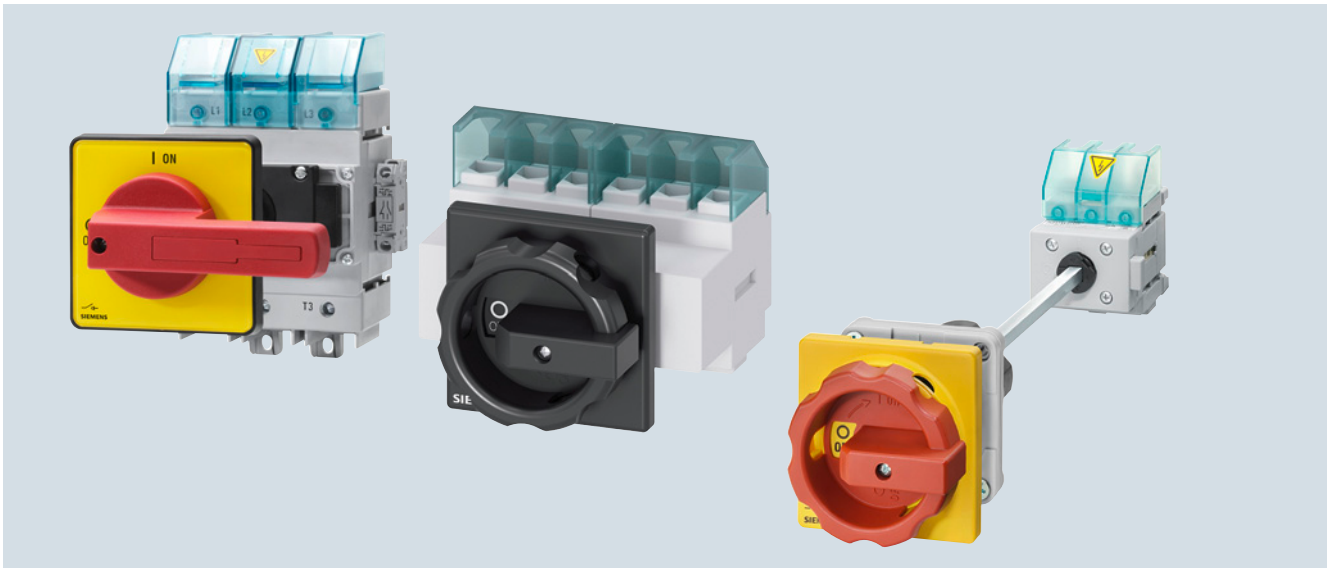
7/2	Introduction		<u>3KL switch disconnectors with fuses up to 800 A</u>
	Fuseless switch disconnectors		
	<u>3LD main control and EMERGENCY-STOP switches from 16 to 250 A</u>		
7/3	Introduction		7/148 Introduction
7/4	General data		7/150 Floor mounting
	<u>3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A NEW</u>		7/152 Front mounting
7/6	- Introduction		7/153 Accessories
7/9	- Front mounting		7/156 Fuses
7/12	- Floor mounting		<u>3KM switch disconnectors with fuses and isolating plug connector up to 400 A</u>
7/14	- Distribution board mounting		7/158 Introduction
7/16	- Accessories		7/160 For snapping onto busbar system
	<u>3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A</u>		7/161 Accessories
7/19	- Introduction		7/163 Fuses
7/23	- Front mounting		<u>3NJ62 in-line switch disconnectors with fuses up to 630 A</u>
7/28	- Floor mounting		7/165 Introduction
7/34	- Distribution board mounting		7/170 For LV HRC fuse links
7/36	- Molded-plastic enclosures		7/172 For BS fuse links
7/38	- DC applications		7/174 For LV HRC and BS fuse links
7/39	- Accessories		7/183 Accessories
	<u>3KD switch disconnectors up to 1600 A</u>		
7/44	Introduction		Door-coupling rotary operating mechanisms
7/45	General data		<u>8UD1 door-coupling rotary operating mechanisms</u>
7/52	Technical features		7/190 For 3KD and 3KF switch disconnectors
7/65	Complete assemblies		<u>8UC7 door-coupling rotary operating mechanisms</u>
7/66	Basic units		7/194 For 3KA/3KE, 3KL, 3KM switch disconnectors
7/70	Accessories and spare parts		7/198 Individual parts
	<u>5TE1 switch disconnectors up to 200 A</u>		7/199 Operating mechanisms for fixed mounting
7/82	Introduction		
7/83	General data		Fuse switch disconnectors
	<u>3KA/3KE switch disconnectors up to 1000 A</u>		<u>3NP1 fuse switch disconnectors up to 630 A</u>
7/87	Introduction		7/200 Introduction
7/90	Floor mounting		7/203 Floor mounting
7/95	Accessories		7/205 For 40 mm busbar system
Ch.2	<u>3VA switch disconnectors up to 250 A</u>		7/207 For 60 mm busbar system
	<u>3VT switch disconnectors up to 1600 A</u>		7/209 Accessories
7/98	Introduction		7/217 Fuses
7/100	3VT1 switch disconnectors up to 160 A		<u>3NP5 fuse switch disconnectors up to 630 A</u>
7/105	3VT2 switch disconnectors up to 250 A		7/220 Introduction
7/111	3VT3 switch disconnectors up to 630 A		7/222 Floor mounting
7/117	3VT4 switch disconnectors up to 1000 A		7/223 For 40 mm busbar system
7/118	3VT5 switch disconnectors up to 1600 A		7/224 For 60 mm busbar system
	Switch disconnectors with fuses		7/225 With fuse monitoring
	<u>3KF switch disconnectors with fuses up to 800 A NEW</u>		7/228 Accessories
7/122	General data		7/230 Fuses
7/130	Technical features		<u>3NJ4, 3NJ5 in-line fuse switch disconnectors up to 2000 A</u>
7/131	Introduction		7/233 Introduction
7/132	Complete assemblies		7/236 1-pole switchable
7/133	Basic units		7/237 3-pole switchable
7/137	Accessories and spare parts		7/238 Accessories

Switch Disconnectors

Introduction

Overview

		Article No.	Page
Fuseless switch disconnectors			
 3LD3	Main control and EMERGENCY-STOP switches from 16 A to 250 A Main control and EMERGENCY-STOP switches from 16 A to 63 A NEW • Front/floor mounting, door-coupling rotary operating mechanism and mounting in distribution boards • Front mounting via center hole mounting • 3 and 4-pole versions	3LD 3LD3	7/3
	Main control and EMERGENCY-STOP switches from 16 A to 250 A • Front/floor mounting, door-coupling rotary operating mechanism, distribution board mounting and 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	3LD2	
 3LD2	Switch disconnectors from 100 A to 200 A • For floor and distribution board mounting • 2, 3 and 4-pole versions	5TE1	7/82
	Switch disconnectors up to 1600 A • 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	3KD	7/45
	Switch disconnectors from 63 A to 1000 A • Devices for floor mounting with handle, with door-coupling rotary operating mechanism, in molded-plastic enclosures and for mounting in control cabinet side panels • 3 and 4-pole versions • Accessories for use as load transfer switches and parallel switches	3KA, 3KE	7/87
	Switch disconnectors from 160 A to 1600 A • 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. - Motorized operating mechanisms - Shunt and undervoltage releases for remote control - Switching state interrogation by means of auxiliary and alarm switches	3VT	7/98
Switch disconnectors with fuses			
	Switch disconnectors with fuses up to 800 A NEW • Devices for floor mounting and for mounting in control cabinet side panels • 3 and 4-pole versions • Complete assemblies: Connections by box terminal or flat terminal including direct operating mechanism • Basic units for individual configuration, with front operating mechanism without handle, rotary operating mechanism, connection by box terminal or flat terminal, operating mechanism module in center or on left-hand side of switch disconnector • Suitable for LV HRC fuses	3KF	7/122
	Switch disconnectors with fuses up to 800 A • 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 LV HRC and BS 88 fuses	3KL, 3KM	7/148
	In-line switch disconnectors with fuses, plug-in type, up to 630 A • 2, 3 and 4-pole versions • Suitable for LV HRC and BS 88 fuses • Manually operated or with motorized operating mechanism • Optionally with integrated current transformers, auxiliary switches, and electronic fuse monitoring	3NJ62	7/165
Fuse switch disconnectors			
	3NP fuse switch disconnectors • 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	3NP1, 3NP5	7/200
	In-line fuse switch disconnectors up to 2000 A • 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	3NJ4, 3NJ5	7/233

Overview**3LD3 switch****3LD2 switch**

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), these are called "disconnector units", while EMERGENCY-STOP switches are termed "devices for emergency shutdown".

The 3LD2 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 devices during maintenance and repair work.

They can be used as:

- ON-OFF switches
- EMERGENCY-STOP switches
- Main control switches according to EN 60204-1 (3LD2 only)

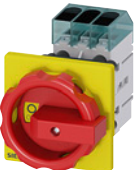
Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

General data

Overview

Type (rated current I_n)	3LD30 (16 A)	3LD20 (16 A)	3LD31 (25 A)	3LD21 (25 A)	3LD32 (32 A)
Operating mechanism, red/yellow					
Operating mechanism, black					
Mounting type					
Front mounting					
• Center-hole mounting	✓	✓	✓	✓	✓
• Four-hole mounting	--	✓	--	✓	--
Floor mounting					
• Center-hole mounting	✓	✓	✓	✓	✓
• Four-hole mounting	--	✓	--	✓	--
Types of use					
Distribution board mounting	✓	✓	✓	✓	✓
Molded-plastic enclosure	--	✓	--	✓	--
DC isolator	--	--	--	--	--
Transfer switch, see chapter "Transfer Switching Equipment and Load Transfer Switches"	--	--	--	✓	--
Technical features					
Number of poles					
• 3-pole	✓	✓	✓	✓	✓
• 4-pole	✓	✓	✓	✓	✓
• 6-pole	--	--	--	✓	--
Short-circuit behavior					
• Rated conditional short-circuit current with upstream fuses at AC 50/60 Hz, 690 V	kA	6	50	6	50
• Rated short-time withstand current (1 s current, rms value)	A	500	340	500	640
Endurance mechanical (operating cycles)		100000	100000	100000	100000
Switching frequency	1/h	50	50	50	50
Conductor cross-sections for main conductors ¹⁾					
• Solid or stranded	mm ²	1x (2.5 ... 16 mm ²)	1 ... 6	1x (2.5 ... 16 mm ²)	1.5 ... 16
• Finely stranded with end sleeve (max.)	mm ²	1x (2.5 ... 16 mm ²)	4	1x (2.5 ... 16 mm ²)	10
• Conductor cross-sections	AWG	14 ... 6	18 ... 10	14 ... 6	14 ... 8
• Torque for terminal	Nm	3	1.5 ... 2	3	2 ... 2.5
Accessories					
Auxiliary switches					
• 1 NO + 1 NC	✓	✓	✓	✓	✓
• 2 NO	--	✓	--	✓	--
Further accessories					
• 4 th pole	✓	--	✓	✓	✓
• N or PE terminals	✓	✓	✓	✓	✓

¹⁾ Depending on the cable infeed, only small cross-sections are possible with 3LD2 devices in molded-plastic enclosures.

✓ Available

-- Not available

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

General data

3LD22 (32 A)	3LD33 (40 A)	3LD34 (63 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
							
							
✓ ✓	✓ --	✓ --	✓ ✓	-- ✓	-- ✓	-- ✓	-- ✓
✓ ✓	-- --	✓ --	✓ ✓	-- ✓	-- ✓	-- ✓	-- ✓
✓ ✓	✓ --	✓ --	✓ ✓	✓ ✓	✓ ✓	✓ --	✓ --
✓ ✓	-- --	-- --	-- --	-- --	-- --	-- --	-- --
✓ ✓	-- --	-- --	✓ ✓	✓ ✓	-- --	✓ ✓	✓ ✓
✓ ✓ ✓	✓ ✓ --	✓ ✓ --	✓ ✓ ✓	✓ -- --	✓ -- --	✓ ✓ ✓	✓ ✓ ✓
50 640	6 1000	6 1000	50 1260	50 2000	20 2000	50 4000	50 4000
100000 50	100000 50	100000 50	100000 50	100000 50	100000 50	100000 50	100000 50
1.5 ... 16 10 14 ... 8 2 ... 2.5	1x (2.5 ... 16 mm²) 1x (2.5 ... 16 mm²) 14 ... 6 3	1x (2.5 ... 16 mm²) 1x (2.5 ... 16 mm²) 14 ... 6 3	2.5 ... 35 16 14 ... 6 2.5 ... 3	4 ... 50 35 12 ... 1 2.5 ... 3	4 ... 50 35 12 ... 1 2.5 ... 3	16 ... 185 150 9.5 ... 60	16 ... 185 150 9.5 ... 60
✓ ✓	✓ --	✓ --	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓
✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓

✓ Available
-- Not available

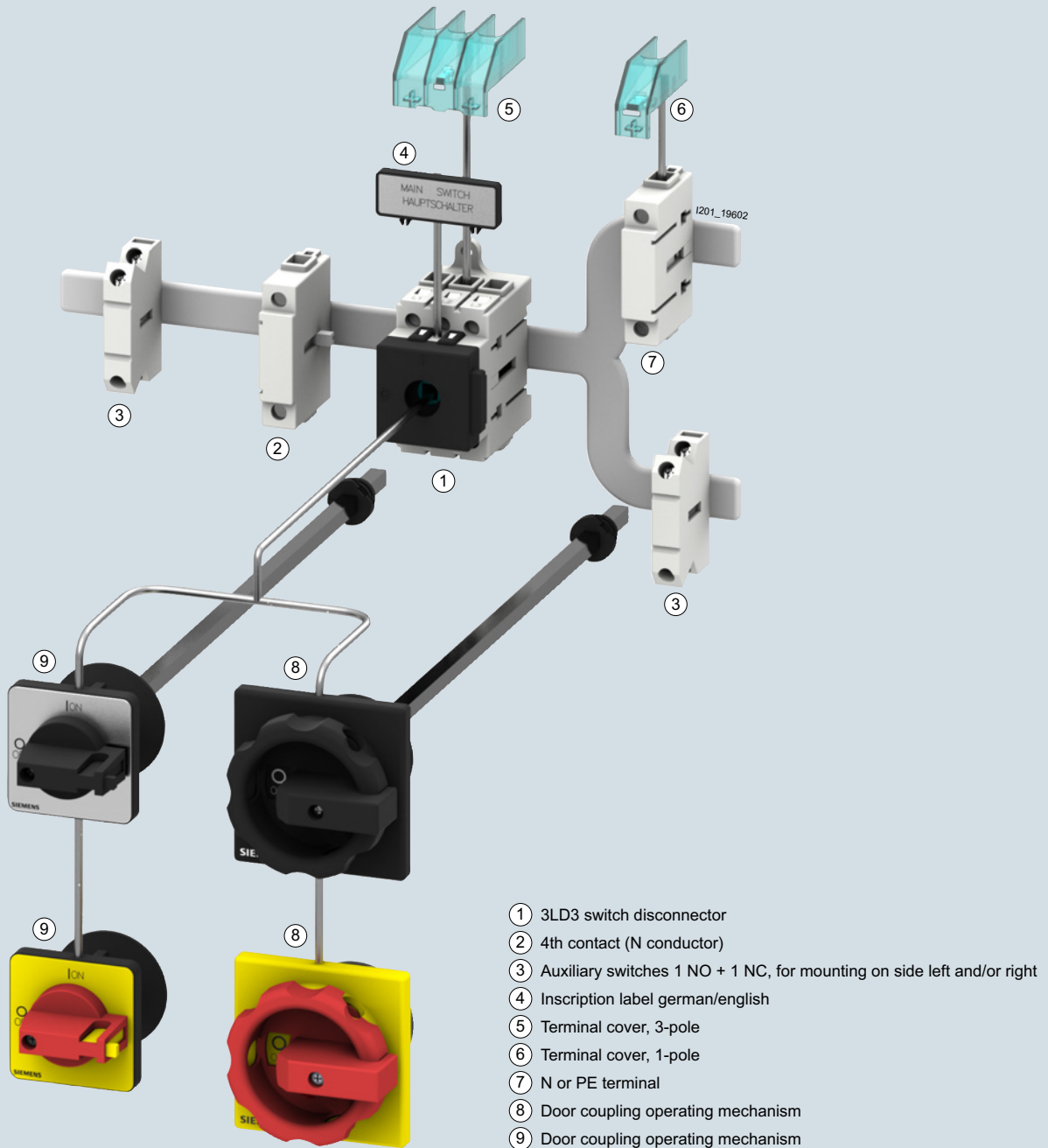
Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Introduction **NEW**

Overview



The 3LD3 main control and EMERGENCY-STOP switches are suitable for a current range from 16 to 63 A. As main control switches for small tools, as load EMERGENCY-STOP switches and as load maintenance switches, they meet all the relevant IEC requirements.

Versions and accessories

- One size with box terminal in 3 and 4-pole version
- Installation via front and floor mounting or distribution board mounting
- Auxiliary switches for querying the switch positions
- Door-coupling rotary operating mechanism for operation of switch disconnector outside the control cabinet door

Benefits

- Compact, narrow design saves space
- Flexibility thanks to numerous application options
- Locking capability during maintenance work
- A wide range of accessories available
- Comprehensive support through provision of CAx data

Application

The 3LD3 switches are used for switching machines as well as three-phase motors and other loads in cases of maintenance and repair.

The 3LD3 switches can be used as follows:

- ON-OFF switches
- EMERGENCY-STOP switches

Design**Design of the contacts**

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

Design of rotary operating mechanisms

The rotary operating mechanisms of the switches for front or floor mounting are mounted on control cabinet doors, or on front or side panels via center-hole mounting with a standard diameter of 22.5 mm and are operated from the outside. In their OFF position, they can be locked with 1 to 3 padlocks with a hasp thickness of 4 to 8 mm.

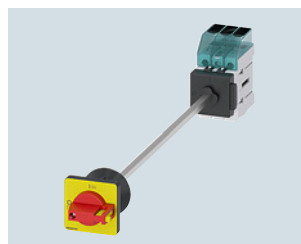
- Switch position indicator:
The switch position is clearly marked with direction arrows and an "O" for OFF and an "I" for ON at the front.
- Switches for front mounting:
The switches for front mounting are connected directly to the rotary operating mechanism through the fixing screws or – in the case 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 overall 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 distribution boards. 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 no more than one padlock with a hasp thickness of 4 to 6 mm.



3LD3050-0TK13 switch for front mounting with rotary operating mechanism



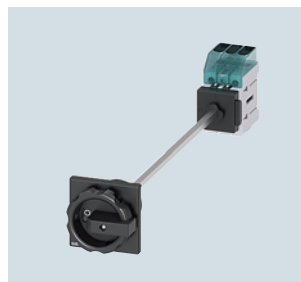
3LD3050-0TK11 switch for front mounting with knob



3LD3040-0TK13 switch for floor mounting with knob and door coupling



3LD3030-0TK11 switch for distribution board mounting with knob



3LD3048-0TK51 switch for floor mounting with rotary operating mechanism and door coupling

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Introduction NEW

Technical specifications

Article number		3LD30...	3LD31...	3LD32...	3LD33...	3LD34...
Continuous current rated value	A	16	25	32	40	63
Insulation voltage rated value	V	690	690	690	690	690
Operational voltage for AC at 50/60 Hz, rated value	V	690	690	690	690	690
Operating frequency	Hz	50 ... 60	50 ... 60	50 ... 60	50 ... 60	50 ... 60
Impulse withstand voltage rated value	kV	6	6	6	6	6
Short-time withstand current (I_{cw}) / limited to 1 s, rated value	kA	500	500	500	1 000	1 000
Design of fuse link required for short-circuit protection of the main circuit		Fuse gL/gG: 16 A	Fuse gL/gG: 25 A	Fuse gL/gG: 32 A	Fuse gL/gG: 40 A	Fuse gL/gG: 63 A
Conditional short-circuit current with line-side fuse at 690 V via gG fuse, rated value	kA	6	6	6	6	6
Let-through current with closed switch at 690 V for combination switch + gG fuse, maximum permissible	kA	3	3.5	4.5	5	6
Operational power						
• At AC-3 at 240 V, rated value	kW	3	4	5.5	7.5	11
• At AC-3 at 440 V, rated value	kW	5.5	7.5	9.5	11.5	18.5
• At AC-3 at 400 V, rated value	kW	5.5	7.5	9.5	11.5	18.5
• At AC-3 at 690 V, rated value	kW	5.5	7.5	9.5	11.5	15
• At AC-23 A at 400 V, rated value	kW	7.5	9.5	11.5	18.5	22
• At AC-23 A at 690 V, rated value	kW	7.5	9	11.5	15	18.5
• At AC-23 A at 240 V, rated value	kW	3	4	6	7.5	11
• At AC-23 A at 440 V, rated value	kW	7.5	9	11.5	15	22
Typical power loss for each conductor	W	0.5	1.1	1.1	1.8	4.5
Typical mechanical endurance (operating cycles)		100 000				
Electrical endurance (operating cycles) at AC-23 A at 690 V at 50/60 Hz		6 000				
Ambient temperature						
• During operation		-25 ... +55				
• During storage		-25 ... +55				
Type of connectable conductor cross-sections						
• Solid for auxiliary contacts		2x (0.75 ... 2.5 mm ²), 1x 4 mm ²				
• Finely stranded with end sleeve for auxiliary contacts		2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ²				
• Stranded for auxiliary contacts		2x (0.75 ... 2.5 mm ²), 1x 4 mm ²				
• Solid for copper conductors		1x (2.5 ... 16 mm ²)				
• Stranded for copper conductors		1x (2.5 ... 16 mm ²)				
• Finely stranded with end sleeve for copper conductors		1x (2.5 ... 16 mm ²)				
Design of electrical connection						
• For main circuit		Box terminal				
• For auxiliary contacts		Terminals				
Auxiliary switches						
Design of fuse link required for short-circuit protection of the auxiliary switch		Fuse gL/gG: 10 A				
Insulation voltage for the auxiliary switch, rated value	V	500				

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

NEW 3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Front mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 400 V		Color of the operating mechanism	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I _U /AC-21A							
		kW	A		d					
Main control and EMERGENCY-STOP switches with direct operating mechanism (rotary operating mechanism)										
- Lockable in 0 position with up to 3 padlocks with a hasp thickness of 4 to 8 mm - Degree of protection at front side IP65 - All versions with rotary operating mechanism - Including terminal cover for the infeed side - Front plate 66 x 66 mm										
 3LD3054-1TK51	3	--	7.5	16	Black	3LD3054-0TK51		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3054-0TK53		1	1 unit	1CL
		--	9.0	25	Black	3LD3154-0TK51		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3154-0TK53		1	1 unit	1CL
		--	11.5	32	Black	3LD3254-0TK51		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3254-0TK53		1	1 unit	1CL
		--	15.0	40	Black	3LD3354-0TK51		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3354-0TK53		1	1 unit	1CL
		--	22.0	63	Black	3LD3454-0TK51		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3454-0TK53		1	1 unit	1CL
		1 NC + 1 NO	7.5	16	Black	3LD3054-1TK51		1	1 unit	1CL
			7.5	16	Red/yellow	3LD3054-1TK53		1	1 unit	1CL
			9.0	25	Black	3LD3154-1TK51		1	1 unit	1CL
			9.0	25	Red/yellow	3LD3154-1TK53		1	1 unit	1CL
			11.5	32	Black	3LD3254-1TK51		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3254-1TK53		1	1 unit	1CL
 3LD3054-0TK53	3		15.0	40	Black	3LD3354-1TK51		1	1 unit	1CL
			15.0	40	Red/yellow	3LD3354-1TK53		1	1 unit	1CL
			22.0	63	Black	3LD3454-1TK51		1	1 unit	1CL
			22.0	63	Red/yellow	3LD3454-1TK53		1	1 unit	1CL
 3LD3054-1TK51	3 + N	--	7.5	16	Black	3LD3054-0TL51		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3054-0TL53		1	1 unit	1CL
		--	9.0	25	Black	3LD3154-0TL51		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3154-0TL53		1	1 unit	1CL
		--	11.5	32	Black	3LD3254-0TL51		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3254-0TL53		1	1 unit	1CL
		--	15.0	40	Black	3LD3354-0TL51		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3354-0TL53		1	1 unit	1CL
		--	22.0	63	Black	3LD3454-0TL51		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3454-0TL53		1	1 unit	1CL
		1 NO + 1 NC	7.5	16	Black	3LD3054-1TL51		1	1 unit	1CL
			7.5	16	Red/yellow	3LD3054-1TL53		1	1 unit	1CL
			9.0	25	Black	3LD3154-1TL51		1	1 unit	1CL
			9.0	25	Red/yellow	3LD3154-1TL53		1	1 unit	1CL
			11.5	32	Black	3LD3254-1TL51		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3254-1TL53		1	1 unit	1CL
 3LD3054-0TL51	3 + N		15.0	40	Black	3LD3354-1TL51		1	1 unit	1CL
			15.0	40	Red/yellow	3LD3354-1TL53		1	1 unit	1CL
			22.0	63	Black	3LD3454-1TL51		1	1 unit	1CL
			22.0	63	Red/yellow	3LD3454-1TL53		1	1 unit	1CL
			7.5	16	Black	3LD3054-1TL51		1	1 unit	1CL
			7.5	16	Red/yellow	3LD3054-1TL53		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Front mounting NEW

Number and version of the contacts		Rated data at 50 ... 60 Hz, 400 V	Size of front plate	Color of the operating mechanism	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
		kW	A	mm		d				
Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism)										
• Lockable in 0 position (can be modified to I position) with max. 2 padlocks with a hasp thickness of 4 to 6 mm • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate: 48 x 48 mm or 66 x 66 mm										
Center-hole mounting Ø 22.5 mm										
 3LD3050-0TK11	3	--	7.5	16	48x48	Black	3LD3050-0TK11	1	1 unit	1CL
	--	--	7.5	16	48x48	Red/yellow	3LD3050-0TK13	1	1 unit	1CL
	--	--	9.0	25	48x48	Black	3LD3150-0TK11	1	1 unit	1CL
	--	--	9.0	25	48x48	Red/yellow	3LD3150-0TK13	1	1 unit	1CL
	--	--	9.0	25	66x66	Black	3LD3154-0TK51	1	1 unit	1CL
	--	--	9.0	25	66x66	Red/yellow	3LD3154-0TK53	1	1 unit	1CL
	--	--	11.5	32	48x48	Black	3LD3250-0TK11	1	1 unit	1CL
	--	--	11.5	32	48x48	Red/yellow	3LD3250-0TK13	1	1 unit	1CL
	--	--	15.0	40	48x48	Black	3LD3350-0TK11	1	1 unit	1CL
	--	--	15.0	40	48x48	Red/yellow	3LD3350-0TK13	1	1 unit	1CL
	--	--	15.0	40	66x66	Black	3LD3354-0TK51	1	1 unit	1CL
	--	--	15.0	40	66x66	Red/yellow	3LD3354-0TK53	1	1 unit	1CL
	--	--	22.0	63	48x48	Black	3LD3450-0TK11	1	1 unit	1CL
	--	--	22.0	63	48x48	Red/yellow	3LD3450-0TK13	1	1 unit	1CL
	--	--	22.0	63	66x66	Black	3LD3454-0TK51	1	1 unit	1CL
	--	--	22.0	63	66x66	Red/yellow	3LD3454-0TK53	1	1 unit	1CL
 3LD3050-0TK13	1 NO + 1 NC	7.5	16	48x48	Black	3LD3050-1TK11	1	1 unit	1CL	
		7.5	16	48x48	Red/yellow	3LD3050-1TK13	1	1 unit	1CL	
		9.0	25	48x48	Black	3LD3150-1TK11	1	1 unit	1CL	
		9.0	25	48x48	Red/yellow	3LD3150-1TK13	1	1 unit	1CL	
		9.0	25	66x66	Black	3LD3154-1TK51	1	1 unit	1CL	
		9.0	25	66x66	Red/yellow	3LD3154-1TK53	1	1 unit	1CL	
		11.5	32	48x48	Black	3LD3250-1TK11	1	1 unit	1CL	
		11.5	32	48x48	Red/yellow	3LD3250-1TK13	1	1 unit	1CL	
		15.0	40	48x48	Black	3LD3350-1TK11	1	1 unit	1CL	
		15.0	40	48x48	Red/yellow	3LD3350-1TK13	1	1 unit	1CL	
		15.0	40	66x66	Black	3LD3354-1TK51	1	1 unit	1CL	
		15.0	40	66x66	Red/yellow	3LD3354-1TK53	1	1 unit	1CL	
		22.0	63	48x48	Black	3LD3450-1TK11	1	1 unit	1CL	
		22.0	63	48x48	Red/yellow	3LD3450-1TK13	1	1 unit	1CL	
		22.0	63	66x66	Black	3LD3454-1TK51	1	1 unit	1CL	
		22.0	63	66x66	Red/yellow	3LD3454-1TK53	1	1 unit	1CL	

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

NEW 3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Front mounting

	Number and version of the contacts		Rated data at 50 ... 60 Hz, 400 V		Size of front plate	Color of the operating mechanism	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Main contact elements	Auxiliary contact elements	P/AC-23A	I _u								
			kW	A								
 3LD3050-0TL11	3+N	--	7.5	16	48x48	Black		3LD3050-0TL11		1	1 unit	1CL
		--	7.5	16	48x48	Red/yellow		3LD3050-0TL13		1	1 unit	1CL
		--	9.0	25	48x48	Black		3LD3150-0TL11		1	1 unit	1CL
		--	9.0	25	48x48	Red/yellow		3LD3150-0TL13		1	1 unit	1CL
		--	9.0	25	66x66	Black		3LD3154-0TL51		1	1 unit	1CL
		--	9.0	25	66x66	Red/yellow		3LD3154-0TL53		1	1 unit	1CL
		--	11.5	32	48x48	Black		3LD3250-0TL11		1	1 unit	1CL
		--	11.5	32	48x48	Red/yellow		3LD3250-0TL13		1	1 unit	1CL
		--	15.0	40	48x48	Black		3LD3350-0TL11		1	1 unit	1CL
		--	15.0	40	48x48	Red/yellow		3LD3350-0TL13		1	1 unit	1CL
		--	15.0	40	66x66	Black		3LD3354-0TL51		1	1 unit	1CL
		--	15.0	40	66x66	Red/yellow		3LD3354-0TL53		1	1 unit	1CL
		--	22.0	63	48x48	Black		3LD3450-0TL11		1	1 unit	1CL
		--	22.0	63	48x48	Red/yellow		3LD3450-0TL13		1	1 unit	1CL
		--	22.0	63	66x66	Black		3LD3454-0TL51		1	1 unit	1CL
		--	22.0	63	66x66	Red/yellow		3LD3454-0TL53		1	1 unit	1CL
 3LD3050-0TL13	1 NO + 1 NC	--	7.5	16	48x48	Black		3LD3050-1TL11		1	1 unit	1CL
		--	7.5	16	48x48	Red/yellow		3LD3050-1TL13		1	1 unit	1CL
		--	9.0	25	48x48	Black		3LD3150-1TL11		1	1 unit	1CL
		--	9.0	25	48x48	Red/yellow		3LD3150-1TL13		1	1 unit	1CL
		--	9.0	25	66x66	Black		3LD3154-1TL51		1	1 unit	1CL
		--	9.0	25	66x66	Red/yellow		3LD3154-1TL53		1	1 unit	1CL
		--	11.5	32	48x48	Black		3LD3250-1TL11		1	1 unit	1CL
		--	11.5	32	48x48	Red/yellow		3LD3250-1TL13		1	1 unit	1CL
		--	15.0	40	48x48	Black		3LD3350-1TL11		1	1 unit	1CL
		--	15.0	40	48x48	Red/yellow		3LD3350-1TL13		1	1 unit	1CL
		--	15.0	40	66x66	Black		3LD3354-1TL51		1	1 unit	1CL
		--	15.0	40	66x66	Red/yellow		3LD3354-1TL53		1	1 unit	1CL
		--	22.0	63	48x48	Black		3LD3450-1TL11		1	1 unit	1CL
		--	22.0	63	48x48	Red/yellow		3LD3450-1TL13		1	1 unit	1CL
		--	22.0	63	66x66	Black		3LD3454-1TL51		1	1 unit	1CL
		--	22.0	63	66x66	Red/yellow		3LD3454-1TL53		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Floor mounting NEW

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		Color of the operating mechanism	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I _N /AC-21A							
		kW	A	d						
Main control and EMERGENCY-STOP switches with door-coupling (rotary operating mechanism)										
• Lockable in 0 position with up to 3 padlocks with a hasp thickness of 4 to 8 mm • Degree of protection at front side IP65 • All versions with rotary operating mechanism • Including terminal cover for the infeed side • Front plate 66 x 66 mm										
Center-hole mounting Ø 22.5 mm										
 3LD3048-0TK51	3	--	7.5	16	Black	3LD3048-0TK51		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3048-0TK53		1	1 unit	1CL
		--	9.0	25	Black	3LD3148-0TK51		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3148-0TK53		1	1 unit	1CL
		--	11.5	32	Black	3LD3248-0TK51		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3248-0TK53		1	1 unit	1CL
		--	15.0	40	Black	3LD3348-0TK51		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3348-0TK53		1	1 unit	1CL
		--	22.0	63	Black	3LD3448-0TK51		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3448-0TK53		1	1 unit	1CL
 3LD3048-0TK53	1 NO + 1 NC	7.5	16	Black	3LD3048-1TK51		1	1 unit	1CL	
		7.5	16	Red/yellow	3LD3048-1TK53		1	1 unit	1CL	
		9.0	25	Black	3LD3148-1TK51		1	1 unit	1CL	
		9.0	25	Red/yellow	3LD3148-1TK53		1	1 unit	1CL	
		11.5	32	Black	3LD3248-1TK51		1	1 unit	1CL	
		11.5	32	Red/yellow	3LD3248-1TK53		1	1 unit	1CL	
		15.0	40	Black	3LD3348-1TK51		1	1 unit	1CL	
		15.0	40	Red/yellow	3LD3348-1TK53		1	1 unit	1CL	
		22.0	63	Black	3LD3448-1TK51		1	1 unit	1CL	
		22.0	63	Red/yellow	3LD3448-1TK53		1	1 unit	1CL	
 3LD3050-0TL11	3 + N	--	7.5	16	Black	3LD3048-0TL51		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3048-0TL53		1	1 unit	1CL
		--	9.0	25	Black	3LD3148-0TL51		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3148-0TL53		1	1 unit	1CL
		--	11.5	32	Black	3LD3248-0TL51		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3248-0TL53		1	1 unit	1CL
		--	15.0	40	Black	3LD3348-0TL51		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3348-0TL53		1	1 unit	1CL
		--	22.0	63	Black	3LD3448-0TL51		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3448-0TL53		1	1 unit	1CL
 3LD3048-0TL53	1 NO + 1 NC	7.5	16	Black	3LD3048-1TL51		1	1 unit	1CL	
		7.5	16	Red/yellow	3LD3048-1TL53		1	1 unit	1CL	
		9.0	25	Black	3LD3148-1TL51		1	1 unit	1CL	
		9.0	25	Red/yellow	3LD3148-1TL53		1	1 unit	1CL	
		11.5	32	Black	3LD3248-1TL51		1	1 unit	1CL	
		11.5	32	Red/yellow	3LD3248-1TL53		1	1 unit	1CL	
		15.0	40	Black	3LD3348-1TL51		1	1 unit	1CL	
		15.0	40	Red/yellow	3LD3348-1TL53		1	1 unit	1CL	
		22.0	63	Black	3LD3448-1TL51		1	1 unit	1CL	
		22.0	63	Red/yellow	3LD3448-1TL53		1	1 unit	1CL	

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

NEW 3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 400 V		Color of the operating mechanism	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I _N /AC-21A							
		kW	A		d					
Main control and EMERGENCY-STOP switches with door-coupling (knob-operated mechanism) - Lockable in 0 position with up to 2 padlocks with a hasp thickness of 4 to 6 mm - Degree of protection at front side IP65 - All versions with rotary operating mechanism - Including terminal cover for the infeed side - Front plate 48 x 48 mm										
Center-hole mounting Ø 22.5 mm										
 3LD3048-0TK51	3	--	7.5	16	Black	3LD3040-0TK11		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3040-0TK13		1	1 unit	1CL
		--	9.0	25	Black	3LD3140-0TK11		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3140-0TK13		1	1 unit	1CL
		--	11.5	32	Black	3LD3240-0TK11		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3240-0TK13		1	1 unit	1CL
		--	15.0	40	Black	3LD3340-0TK11		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3340-0TK13		1	1 unit	1CL
		--	22.0	63	Black	3LD3440-0TK11		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3440-0TK13		1	1 unit	1CL
	1 NO + 1 NC	7.5	16	Black	3LD3040-1TK11			1	1 unit	1CL
		7.5	16	Red/yellow	3LD3040-1TK13			1	1 unit	1CL
		9.0	25	Black	3LD3140-1TK11			1	1 unit	1CL
		9.0	25	Red/yellow	3LD3140-1TK13			1	1 unit	1CL
 3LD3048-0TK53			11.5	32	Black	3LD3240-1TK11		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3240-1TK13		1	1 unit	1CL
			15.0	40	Black	3LD3340-1TK11		1	1 unit	1CL
			15.0	40	Red/yellow	3LD3340-1TK13		1	1 unit	1CL
			22.0	63	Black	3LD3440-1TK11		1	1 unit	1CL
			22.0	63	Red/yellow	3LD3440-1TK13		1	1 unit	1CL
 3LD3040-0TL11	3 + N	--	7.5	16	Black	3LD3040-0TL11		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3040-0TL13		1	1 unit	1CL
		--	9.0	25	Black	3LD3140-0TL11		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3140-0TL13		1	1 unit	1CL
		--	11.5	32	Black	3LD3240-0TL11		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3240-0TL13		1	1 unit	1CL
		--	15.0	40	Black	3LD3340-0TL11		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3340-0TL13		1	1 unit	1CL
		--	22.0	63	Black	3LD3440-0TL11		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3440-0TL13		1	1 unit	1CL
	1 NO + 1 NC	7.5	16	Black	3LD3040-1TL11			1	1 unit	1CL
		7.5	16	Red/yellow	3LD3040-1TL13			1	1 unit	1CL
		9.0	25	Black	3LD3140-1TL11			1	1 unit	1CL
		9.0	25	Red/yellow	3LD3140-1TL13			1	1 unit	1CL
 3LD3040-0TL13			11.5	32	Black	3LD3240-1TL11		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3240-1TL13		1	1 unit	1CL
			15.0	40	Black	3LD3340-1TL11		1	1 unit	1CL
			15.0	40	Red/yellow	3LD3340-1TL13		1	1 unit	1CL
			22.0	63	Black	3LD3440-1TL11		1	1 unit	1CL
			22.0	63	Red/yellow	3LD3440-1TL13		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Distribution board mounting NEW

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 400 V		Color of the operating mechanism	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u		d					
		kW	A							
ON/OFF and EMERGENCY-STOP switches, basic switch, with masking plate and selector knob • With screw fixing • With snap-on mounting on 35 mm standard mounting rail • Lockable in 0 position with up to 2 padlocks with a hasp thickness of 4 to 6 mm • Degree of protection at front side IP40 • Including terminal cover for the infeed side										
Distribution board mounting, standard rail mounting										
 3LD3030-0TK11	3	--	7.5	16	Black	3LD3030-0TK11		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3030-0TK13		1	1 unit	1CL
		--	9.0	25	Black	3LD3130-0TK11		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3130-0TK13		1	1 unit	1CL
		--	11.5	32	Black	3LD3230-0TK11		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3230-0TK13		1	1 unit	1CL
		--	15.0	40	Black	3LD3330-0TK11		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3330-0TK13		1	1 unit	1CL
		--	22.0	63	Black	3LD3430-0TK11		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3430-0TK13		1	1 unit	1CL
		1 NO + 1 NC	7.5	16	Black	3LD3030-1TK11		1	1 unit	1CL
			7.5	16	Red/yellow	3LD3030-1TK13		1	1 unit	1CL
			9.0	25	Black	3LD3130-1TK11		1	1 unit	1CL
			9.0	25	Red/yellow	3LD3130-1TK13		1	1 unit	1CL
			11.5	32	Black	3LD3230-1TK11		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3230-1TK13		1	1 unit	1CL
 3LD3030-0TK13	3	--	7.5	16	Black	3LD3030-0TK11		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3030-0TK13		1	1 unit	1CL
		--	9.0	25	Black	3LD3130-0TK11		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3130-0TK13		1	1 unit	1CL
		--	11.5	32	Black	3LD3230-0TK11		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3230-0TK13		1	1 unit	1CL
		--	15.0	40	Black	3LD3330-0TK11		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3330-0TK13		1	1 unit	1CL
		--	22.0	63	Black	3LD3430-0TK11		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3430-0TK13		1	1 unit	1CL
		1 NO + 1 NC	7.5	16	Black	3LD3030-1TK11		1	1 unit	1CL
			7.5	16	Red/yellow	3LD3030-1TK13		1	1 unit	1CL
			9.0	25	Black	3LD3130-1TK11		1	1 unit	1CL
			9.0	25	Red/yellow	3LD3130-1TK13		1	1 unit	1CL
			11.5	32	Black	3LD3230-1TK11		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3230-1TK13		1	1 unit	1CL
 3LD3040-0TL11	3 + N	--	7.5	16	Black	3LD3030-0TL11		1	1 unit	1CL
		--	7.5	16	Red/yellow	3LD3030-0TL13		1	1 unit	1CL
		--	9.0	25	Black	3LD3130-0TL11		1	1 unit	1CL
		--	9.0	25	Red/yellow	3LD3130-0TL13		1	1 unit	1CL
		--	11.5	32	Black	3LD3230-0TL11		1	1 unit	1CL
		--	11.5	32	Red/yellow	3LD3230-0TL13		1	1 unit	1CL
		--	15.0	40	Black	3LD3330-0TL11		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3330-0TL13		1	1 unit	1CL
		--	22.0	63	Black	3LD3430-0TL11		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3430-0TL13		1	1 unit	1CL
		1 NO + 1 NC	7.5	16	Black	3LD3030-1TL11		1	1 unit	1CL
			7.5	16	Red/yellow	3LD3030-1TL13		1	1 unit	1CL
			9.0	25	Black	3LD3130-1TL11		1	1 unit	1CL
			9.0	25	Red/yellow	3LD3130-1TL13		1	1 unit	1CL
			11.5	32	Black	3LD3230-1TL11		1	1 unit	1CL
			11.5	32	Red/yellow	3LD3230-1TL13		1	1 unit	1CL
 3LD3040-0TL13	3 + N	--	15.0	40	Black	3LD3330-1TL11		1	1 unit	1CL
		--	15.0	40	Red/yellow	3LD3330-1TL13		1	1 unit	1CL
		--	22.0	63	Black	3LD3430-1TL11		1	1 unit	1CL
		--	22.0	63	Red/yellow	3LD3430-1TL13		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

NEW 3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Distribution board mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/ AC-23A kW	I _u / AC-21A A	d					
Main control and EMERGENCY-STOP switches, basic switch without knob-operated mechanism - Degree of protection at front side IP20 - Including terminal cover for the infeed side - Front plate									
Center-hole mounting Ø 22.5 mm									
 3LD3010-0TK05	3	--	7.5	16	3LD3010-0TK05		1	1 unit	1CL
		--	9.0	25	3LD3110-0TK05		1	1 unit	1CL
		--	11.5	32	3LD3210-0TK05		1	1 unit	1CL
		--	15.0	40	3LD3310-0TK05		1	1 unit	1CL
		--	22.0	63	3LD3410-0TK05		1	1 unit	1CL
		1 NO + 1 NC	7.5	16	3LD3010-1TK05		1	1 unit	1CL
			9.0	25	3LD3110-1TK05		1	1 unit	1CL
			11.5	32	3LD3210-1TK05		1	1 unit	1CL
			15.0	40	3LD3310-1TK05		1	1 unit	1CL
			22.0	63	3LD3410-1TK05		1	1 unit	1CL
 3LD3010-0TL05	3 + N	--	7.5	16	3LD3010-0TL05		1	1 unit	1CL
		--	9.0	25	3LD3110-0TL05		1	1 unit	1CL
		--	11.5	32	3LD3210-0TL05		1	1 unit	1CL
		--	15.0	40	3LD3310-0TL05		1	1 unit	1CL
		--	22.0	63	3LD3410-0TL05		1	1 unit	1CL
		1 NO + 1 NC	7.5	16	3LD3010-1TL05		1	1 unit	1CL
			9.0	25	3LD3110-1TL05		1	1 unit	1CL
			11.5	32	3LD3210-1TL05		1	1 unit	1CL
			15.0	40	3LD3310-1TL05		1	1 unit	1CL
			22.0	63	3LD3410-1TL05		1	1 unit	1CL

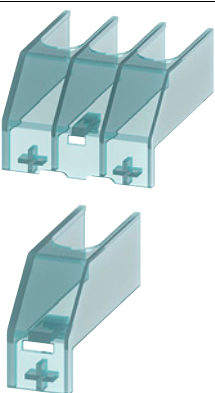
Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Accessories **NEW**

Selection and ordering data

	Accessory part	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
 3LD9340-0B (left) 3LD9340-0C (right)	N switching contacts	• Front mounting, leading • Floor mounting, leading		3LD9340-0B		1	1 unit	1CL
				3LD9340-0C		1	1 unit	1CL
 3LD9340-2B (left) 3LD9340-2C (right)	N terminals	• Front mounting, through-type • Floor mounting, through-type		3LD9340-2B		1	1 unit	1CL
				3LD9340-2C		1	1 unit	1CL
 3LD9340-3B (left) 3LD9340-3C (right)	PE terminals	• Front mounting, through-type • Floor mounting, through-type		3LD9340-3B		1	1 unit	1CL
				3LD9340-3C		1	1 unit	1CL
 3LD9340-6B (left) 3LD9340-6C (right)	Auxiliary switches	• Front mounting, 1 NO + 1 NC • Floor mounting, 1 NO + 1 NC		3LD9340-6B		1	1 unit	1CL
				3LD9340-6C		1	1 unit	1CL
	Terminal covers	For 3LD3 3-pole switch disconnectors		3LD9341-0A		1	4 units	1CL
		For switch disconnectors with fourth pole		3LD9341-2A		1	4 units	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

NEW 3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Accessories

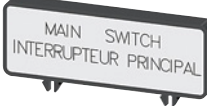
Accessory part	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Black Center-hole mounting 22.5 mm, front mounting with 66 x 66 mm masking plate, floor mounting for 3LD3.40 and 3LD3.48 For 6 x 6 mm shaft	d	3LD9344-2C		1	1 unit	1CL
	Red/yellow Center-hole mounting 22.5 mm, front mounting with 66 x 66 mm masking plate, floor mounting for 3LD3.40 and 3LD3.48 For 6 x 6 mm shaft		3LD9344-3C		1	1 unit	1CL
	Black Center-hole mounting 22.5 mm, front mounting for 3LD3.50 For 6 x 6 mm shaft		3LD9344-4C		1	1 unit	1CL
	Red/yellow Center-hole mounting 22.5 mm, front mounting for 3LD3.50 For 6 x 6 mm shaft		3LD9344-5C		1	1 unit	1CL
	Black, front mounting 48 x 48 mm, with coupling element		3LD9343-4C		1	1 unit	1CL
	Red/yellow, front mounting 48 x 48 mm, with coupling element		3LD9343-5C		1	1 unit	1CL
	Black, front mounting 48 x 48 mm, for shaft		3LD9343-6C		1	1 unit	1CL
	Red/yellow, front mounting 48 x 48 mm, for shaft		3LD9343-7C		1	1 unit	1CL

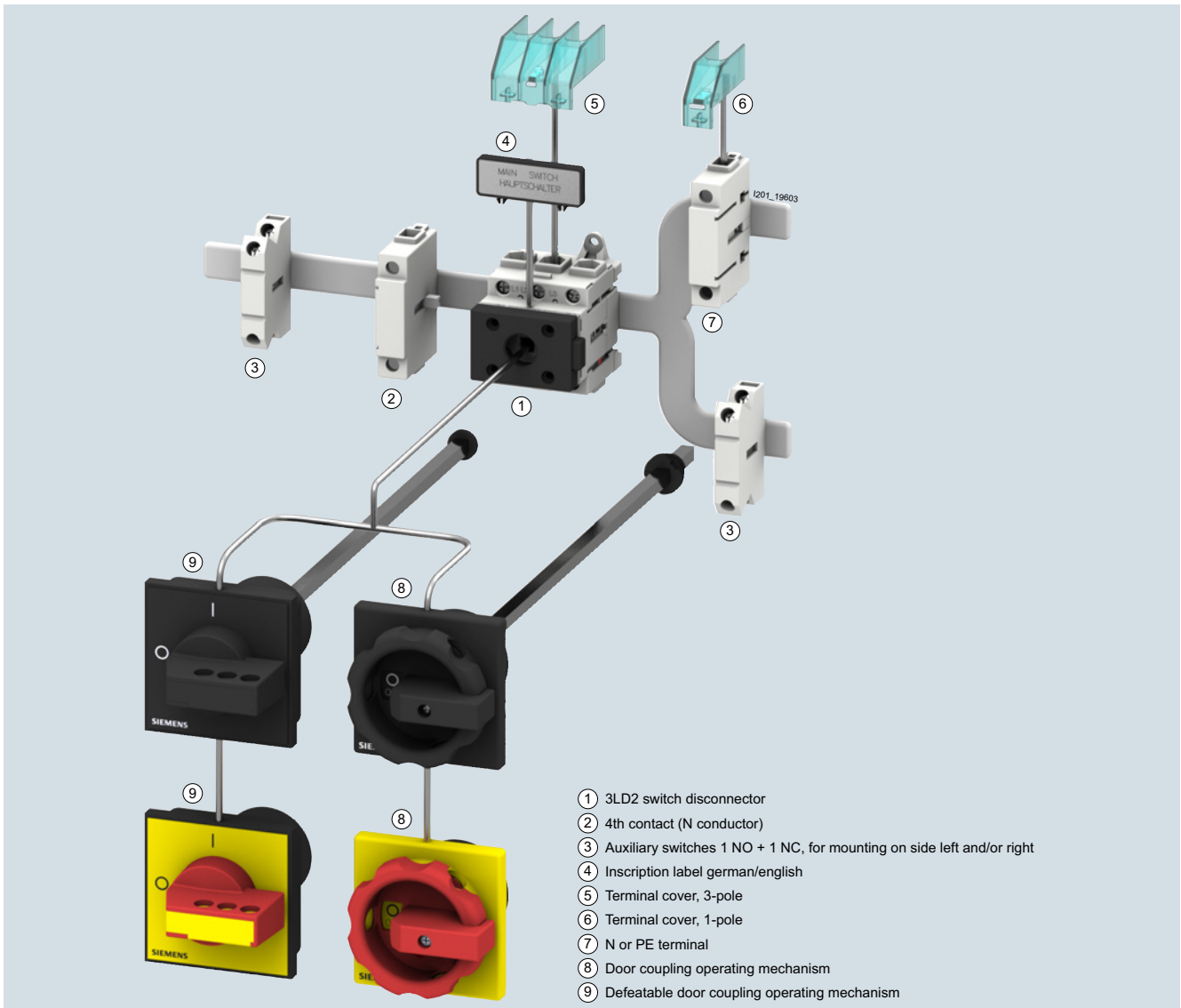
Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD3 main control and EMERGENCY-STOP switches from 16 to 63 A > Accessories NEW

	Accessory part	Version	SD	Article No. www.siemens.com/ product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS	PG
   	Door-coupling operating mechanisms	Red/yellow, knob-operated mechanism 48 x 48 mm, front mounting, with coupling element and shaft	d	3LD9343-5CA		1	1 unit	1CL
		Black, knob-operated mechanism 48 x 48 mm, front mounting, with coupling element and shaft		3LD9343-4CA		1	1 unit	1CL
		Red/yellow, rotary operating mechanism 66 x 66 mm, front mounting, with coupling element and shaft		3LD9344-3CA		1	1 unit	1CL
		Black, rotary operating mechanism 66 x 66 mm, front mounting, with coupling element and shaft		3LD9344-2CA		1	1 unit	1CL
  	Additional labels	German/English, "Hauptschalter/Main Switch" (10 units in package)		3LD9346-1A		1	10 units	1CL
		English/French "Main Switch/Interrupteur principal" (10 units in package)		3LD9346-2A		1	10 units	1CL
		Without inscription (10 units in package)		3LD9346-3A		1	10 units	1CL

Overview

The 3LD2 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), these are called "disconnector units", while EMERGENCY-STOP switches are termed "devices for emergency shutdown".

The 3LD2 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.

The 3LD2 main control and EMERGENCY-STOP switches are suitable for a current range from 16 to 250 A. These are suitable for main control, EMERGENCY-STOP, or repair switches and thus fulfill a wide range of requirements.

They are approved in line with IEC, UL, EAC, CSA, and CCC, as well as for use in shipbuilding.

Versions

- Five sizes with box terminal in 3, 4, and 6-pole version
- Front-mounting and floor mounting or distribution board mounting
- Front mounting by means of four-hole or center-hole mounting
- Switches in molded-plastic enclosure with degree of protection IP65
- DC isolators 800 V DC for PV installations
- Door-coupling rotary operating mechanism for operation of switch disconnector outside the control cabinet door
- Auxiliary switches for querying the switch positions, pre-installed or retrofittable

Benefits

- Compact design saves space
- High rated short-circuit currents
- Locking capability during maintenance work
- Comprehensive range of retrofittable accessories
- Comprehensive support through provision of CAx data

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Introduction

Application

The 3LD2 switches are used in almost all power distribution systems for industry and infrastructure, but particularly those in main and auxiliary power distribution systems of commercial buildings and in domestic power supplies upstream of meters (e.g., SIPRO system).

Particularly for processing machines in mechanical and conveyor system engineering and in the chemical or food and beverage industries, these switches are now an essential part of

the hardware architecture as main control and EMERGENCY-STOP switches.

The 3LD2 switches can be used as:

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

Design

Design of the contacts

Each switch has three adjacent contact elements¹⁾. A fourth leading contact element for switching the N conductor, a continuous PE terminal, an auxiliary switch (1 NO + 1 NC) can be fitted to each side of the switch. The auxiliary switches operate as leading contacts on opening. On opening, the NO contact opens before the main contacts, so that a contactor carries the switching power 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, or on front or side panels with four-hole or center-hole mounting with a standard diameter of 22.5 mm and are operated from the outside. In their OFF position, they can be locked with up to three padlocks with a hasp thickness of 4 to 8 mm. Switching devices 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 overall 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 distribution boards. 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 4 to 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 4 to 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 transfer switches, see chapter "Transfer Switching Equipment and Load Transfer Switches" and six 6-pole contact elements.



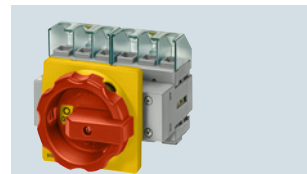
3LD2704-0TK53 switch for front mounting with rotary operating mechanism



3LD2222-0TK1 switch for front mounting with knob



3LD2122-7UK01 3-pole transfer switch for front mounting with knob, see chapter "Transfer Switching Equipment and Load Transfer Switches"



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



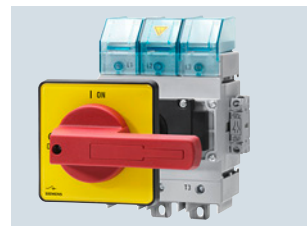
3LD2264-0TB5 switch in molded-plastic enclosure



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

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		kA _{rms}	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	Rated operational power										
Operational switching	At 220 ... 240 V	kW	3.0	4.0	5.5	11.0	18.5	22.0	35.0	55.0	
of individual motors	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	Rated operational power										
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 operational switching	At 380 ... 440 V	kW	7.5	9.5	11.5	22.0	37.0	45.0	75.0	132.0	
of individual motors	At 660/690 V	kW	7.5	9.5	11.5	18.5	30.0	37.0	45.0	55.0	
Power loss per current 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		A	6								
	At 120 V	A	3								
	At 220 ... 240 V	A	1.8								
	At 380 ... 415 V	A	1.4								
	At 500 V	A									
Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)		A	10								
Conductor cross-sections for auxiliary conductors											
Connection type			Screw 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								

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

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Introduction

3LD switches for UL/CSA as "manual motor controllers" ¹⁾

Standards		UL/CSA								
Switches		Type	3LD20	3LD21	3LD22	3LD25	3LD27	3LD28	3LD23	3LD24
Rated operational voltage U_e		V AC	600	600	600	600	600	600	600	600
Rated uninterrupted current I_u		A	10	20	30	60	100	125	160	250
	Current rating	A 600	A 600	A 600	A 600	--	--	--	--	--
	Pilot duty	P 600	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) ²⁾	15	30	40	40	50
	480 V	HP	7.5	10	20 (15) ²⁾	40	60	75	75	100
	600 V	HP	10	15	30 (20) ²⁾	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⁾ 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.

²⁾ Values in brackets apply to devices in molded-plastic enclosure.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Front mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I_n /AC-21A	www.siemens.com/product?ArticleNo.				
		kW	kW	A	d				
Main control and EMERGENCY-STOP switches with rotary operating mechanism/knob-operated mechanism - Lockable in 0 position with up to 3 padlocks: 3LD20 to 3LD28: Hasp thickness from 4 to 8 mm 3LD23 and 3LD24: Hasp thickness from 4 to 6 mm - Degree of protection at front side IP65 - All versions with rotary operating mechanism, exception: 3LD23, 3LD24 with knob-operated mechanism - Including terminal cover for the infeed side - Front plate: 3LD20, 3LD21, 3LD22: 67 x 67 mm 3LD25 to 3LD28: 90 x 90 mm 3LD23 to 3LD24: 96 x 96 mm									
Four-hole mounting									
	3	--	5.5	7.5	16	3LD2003-0TK5□	1	1 unit	1CL
			7.5	9.5	25	3LD2103-0TK5□	1	1 unit	1CL
			9.5	11.5	32	3LD2203-0TK5□	1	1 unit	1CL
			18.5	22.0	63	3LD2504-0TK5□	1	1 unit	1CL
			30	37.0	100	3LD2704-0TK5□	1	1 unit	1CL
			37	45.0	125	3LD2804-0TK5□	1	1 unit	1CL
			50	75.0	160	3LD2305-0TK1□	1	1 unit	1CL
			110	132.0	250	3LD2405-0TK1□	1	1 unit	1CL
	3 + N	--	5.5	7.5	16	3LD2003-1TL5□	1	1 unit	1CL
			7.5	9.5	25	3LD2103-1TL5□	1	1 unit	1CL
			9.5	11.5	32	3LD2203-1TL5□	1	1 unit	1CL
			18.5	22.0	63	3LD2504-1TL5□	1	1 unit	1CL
			30.0	37.0	100	3LD2704-0TK5□ + ¹⁾	1	1 unit	1CL
						3LD9280-0B	1	1 unit	1CL
			37.0	45.0	125	3LD2804-0TK5□ + ¹⁾	1	1 unit	1CL
						3LD9280-0B	1	1 unit	1CL
			50	75.0	160	3LD2305-1TL1□	1	1 unit	1CL
			110	132.0	250	3LD2405-1TL1□	1	1 unit	1CL
	3	1 NO + 1 NC	5.5	7.5	16	3LD2003-1TP5□	1	1 unit	1CL
			7.5	9.5	25	3LD2103-1TP5□	1	1 unit	1CL
			9.5	11.5	32	3LD2203-1TP5□	1	1 unit	1CL
			18.5	22.0	63	3LD2504-1TP5□	1	1 unit	1CL
			30.0	37.0	100	3LD2704-1TP5□	1	1 unit	1CL
			37	45.0	125	3LD2804-1TP5□	1	1 unit	1CL
			50.0	75.0	160	3LD2305-0TK1□ + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL
			110.0	132.0	250	3LD2405-0TK1□ + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL
	3 + N	1 NO + 1 NC	5.5	7.5	16	3LD2003-2EP5□	1	1 unit	1CL
			7.5	9.5	25	3LD2103-2EP5□	1	1 unit	1CL
			9.5	11.5	32	3LD2203-1TL5□ + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL
			18.5	22.0	63	3LD2504-1TP5□ + ¹⁾	1	1 unit	1CL
						3LD9250-0BA	1	1 unit	1CL
			30.0	37.0	100	3LD2704-0TK5□ + ¹⁾	1	1 unit	1CL
						3LD9280-0B + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL
			37.0	45.0	125	3LD2804-0TK5□ + ¹⁾	1	1 unit	1CL
						3LD9280-0B + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL
			50.0	75.0	160	3LD2305-1TL1□ + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL
			110.0	132.0	250	3LD2405-1TL1□ + ²⁾	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL

¹⁾ 4th contact element as N conductor ordered separately, see page 7/39, Accessories.

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories.

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _N /AC-21A						
		kW	kW	A	d					
Main control and EMERGENCY-STOP switches with direct operating mechanism (rotary operating mechanism) - Lockable in 0 position with up to 3 padlocks with a hasp thickness of 4 to 8 mm - Degree of protection at front side IP65 - All versions with rotary operating mechanism - Including terminal cover for the infeed side - Front plate 3LD20, 3LD21, 3LD22: 67 x 67 mm 3LD25: 90 x 90 mm										

Center-hole mounting Ø 22.5 mm



3LD2254-0TK53

3	--		5.5	7.5	16	3LD2054-0TK5□	1	1 unit	1CL
			7.5	9.5	25	3LD2154-0TK5□	1	1 unit	1CL
			9.5	11.5	32	3LD2254-0TK5□	1	1 unit	1CL
			18.5	22	63	3LD2555-0TK5□	1	1 unit	1CL
3 + N	--		5.5	7.5	16	3LD2054-1TL5□	1	1 unit	1CL
			7.5	9.5	25	3LD2154-1TL5□	1	1 unit	1CL
			9.5	11.5	32	3LD2254-1TL5□	1	1 unit	1CL
			18.5	22	63	3LD2555-0TK5□ +1)	1	1 unit	1CL
3	1 NO + 1 NC		5.5	7.5	16	3LD9250-0BA	1	1 unit	1CL
			7.5	9.5	25	3LD2054-1TP5□	1	1 unit	1CL
			9.5	11.5	32	3LD2154-1TP5□	1	1 unit	1CL
			18.5	22	63	3LD2254-0TK5□ +2)	1	1 unit	1CL
3 + N	1 NO + 1 NC		5.5	7.5	16	3LD9200-5B	1	1 unit	1CL
			7.5	9.5	25	3LD2555-0TK5□ +2)	1	1 unit	1CL
			9.5	11.5	32	3LD9200-5B	1	1 unit	1CL
			18.5	22	63	3LD2054-2EP5□	1	1 unit	1CL
3 + N	1 NO + 1 NC		7.5	9.5	25	3LD2154-2EP5□	1	1 unit	1CL
			9.5	11.5	32	3LD2254-1TL5□ +2)	1	1 unit	1CL
			18.5	22	63	3LD9200-5B	1	1 unit	1CL
						3LD2555-0TK5□ +1)	1	1 unit	1CL
						3LD9250-0BA +2)	1	1 unit	1CL
						3LD9200-5B	1	1 unit	1CL

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

1) 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories.

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Front mounting

Number and version of the contacts		Rated data 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u						
		kW	A	d					
Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism) • Lockable in 0 position (can be modified to I position) with max. 2 padlocks with a hasp thickness of 4 to 6 mm • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate - 48 x 48 mm									
Four-hole mounting									
 3LD2222-0TK11	3	--	7.5	16	3LD2022-0TK1□		1	1 unit	1CL
			9.5	25	3LD2122-0TK1□		1	1 unit	1CL
			11.5	32	3LD2222-0TK1□		1	1 unit	1CL
	3 + N	--	7.5	16	3LD2022-1TL1□		1	1 unit	1CL
			9.5	25	3LD2122-1TL1□		1	1 unit	1CL
			11.5	32	3LD2222-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9220-0B		1	1 unit	1CL
	3	1 NO + 1 NC	7.5	16	3LD2022-0TK1□ + ²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			9.5	25	3LD2122-0TK1□ + ²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			11.5	32	3LD2222-0TK1□ + ²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
	3 + N	1 NO + 1 NC	7.5	16	3LD2022-1TL1□ + ²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			9.5	25	3LD2122-1TL1□ + ²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			11.5	32	3LD2222-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9220-0B		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

¹⁾ 4th contact element as N conductor to be ordered separately,
see page 7/39, Accessories.

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately,
see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u	d					
		kW	A						
Main control and EMERGENCY-STOP switches with direct operating mechanism (knob-operated mechanism) • Lockable in 0 position (can be modified to I position) with max. 2 padlocks with a hasp thickness of 4 to 6 mm • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate: 48 x 48 mm									
Center-hole mounting Ø 22.5 mm									
 3LD2150-0TK13	3	--	7.5	16	3LD2050-0TK1□		1	1 unit	1CL
			9.5	25	3LD2150-0TK1□		1	1 unit	1CL
			11.5	32	3LD2250-0TK1□		1	1 unit	1CL
	3 + N	--	7.5	16	3LD2050-1TL1□		1	1 unit	1CL
			9.5	25	3LD2150-0TK1□ ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			11.5	32	3LD2250-0TK1□ ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
	3	1 NO + 1 NC	7.5	16	3LD2050-0TK1□ ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			9.5	25	3LD2150-0TK1□ ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			11.5	32	3LD2250-0TK1□ ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
	3 + N	1 NO + 1 NC	7.5	16	3LD2050-1TL1□ ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			9.5	25	3LD2150-0TK1□ ⁺¹⁾		1	1 unit	1CL
					3LD9220-0B ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL
			11.5	32	3LD2250-0TK1□ ⁺¹⁾		1	1 unit	1CL
					3LD9220-0B ⁺²⁾		1	1 unit	1CL
					3LD9200-5B		1	1 unit	1CL

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories.

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-3 kW	P/AC-23A kW	I_u A	d					
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: 3LD20 to 3LD28: Hasp thickness from 4 to 8 mm 3LD23 and 3LD24: Hasp thickness from 4 to 6 mm - 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 x 67 mm 3LD25: 90 x 90 mm 3LD23 to 3LD24: 96 x 96 mm										
Four-hole mounting										
 3LD2103-3VK53	6	--	7.5	9.5	25	3LD2103-3VK5□		1	1 unit	1CL
			9.5	11.5	32	3LD2203-3VK5□		1	1 unit	1CL
			18.5	22.0	63	3LD2504-3VK5□		1	1 unit	1CL
			50	75	160	3LD2305-3VK1□		1	1 unit	1CL
			110	132	250	3LD2405-3VK1□		1	1 unit	1CL
	6	1 NO + 1 NC	7.5	9.5	25	3LD2103-4VP5□		1	1 unit	1CL
Actuator color Black Red/yellow (EMERGENCY-STOP)						1 3				

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Floor mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u	d					
		kW	A						
Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism • With shaft • Lockable in 0 position with up to 3 padlocks: - 3LD20 to 3LD28: Hasp thickness from 4 to 8 mm - 3LD23 and 3LD24: Hasp thickness from 4 to 6 mm • 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 - 3LD20, 3LD21, 3LD22: 67 x 67 mm - 3LD25 to 3LD28: 90 x 90 mm - 3LD23 to 3LD24: 96 x 96 mm • Mounting dimensions - 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
			9.5	25	3LD2113-0TK5□		1	1 unit	1CL
			11.5	32	3LD2213-0TK5□		1	1 unit	1CL
			22	63	3LD2514-0TK5□		1	1 unit	1CL
			37	100	3LD2714-0TK5□		1	1 unit	1CL
			45	125	3LD2814-0TK5□		1	1 unit	1CL
			75	160	3LD2318-0TK1□		1	1 unit	1CL
			132	250	3LD2418-0TK1□		1	1 unit	1CL
	3 + N	--	7.5	16	3LD2013-1TL5□		1	1 unit	1CL
			9.5	25	3LD2113-1TL5□		1	1 unit	1CL
			11.5	32	3LD2213-1TL5□		1	1 unit	1CL
			22	63	3LD2514-1TL5□		1	1 unit	1CL
			37	100	3LD2714-0TK5□ + ¹⁾		1	1 unit	1CL
					3LD9280-0C		1	1 unit	1CL
			45	125	3LD2814-0TK5□ + ¹⁾		1	1 unit	1CL
					3LD9280-0C		1	1 unit	1CL
			75	160	3LD2318-1TL1□		1	1 unit	1CL
			132	250	3LD2418-1TL1□		1	1 unit	1CL
Actuator color Black Red/yellow (EMERGENCY-STOP)									
							1 3		

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Floor mounting

	Number and version of the contacts		Rated data at 50 .. 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Main contact elements	Auxiliary contact elements	P/AC-23A	I_u						
			kW	A						
 3LD2213-0TK53	3	1 NO + 1 NC	7.5	16	d	3LD2013-0TK5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			9.5	25		3LD2113-0TK5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			11.5	32		3LD2213-0TK5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			22	63		3LD2514-0TK5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			37	100		3LD2714-0TK5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			45	125		3LD2814-0TK5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			75	160		3LD2318-0TK1□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			132	250		3LD2418-0TK1□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
	3 + N	1 NO + 1 NC	7.5	16		3LD2013-1TL5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			9.5	25		3LD2113-1TL5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			11.5	32		3LD2213-1TL5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			22	63		3LD2514-1TL5□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			37	100		3LD2714-0TK5□ + ¹⁾		1	1 unit	1CL
						3LD9280-0C + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			45	125		3LD2814-0TK5□ + ¹⁾		1	1 unit	1CL
						3LD9280-0C + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			75	160		3LD2318-1TL1□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL
			132	250		3LD2418-1TL1□ + ²⁾		1	1 unit	1CL
						3LD9200-5C		1	1 unit	1CL

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories.

²⁾ Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u						
		kW	A	d					
Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism • With shaft • Lockable in 0 position with up to 3 padlocks: - 3LD20 to 3LD28: Hasp thickness from 4 to 8 mm - 3LD23 and 3LD24: Hasp thickness from 4 to 6 mm • 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 • 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 - 3LD20, 3LD21, 3LD22: 67 x 67 mm - 3LD25: 90 x 90 mm • Mounting dimensions - 3LD20, 3LD21, 3LD22: 380 mm - 3LD25: 390 mm									
Center-hole mounting Ø 22.5 mm									
 3LD2144-0TK53	3	--	7.5	16	3LD2044-0TK5□		1	1 unit	1CL
			9.5	25	3LD2144-0TK5□		1	1 unit	1CL
			11.5	32	3LD2244-0TK5□		1	1 unit	1CL
			22	63	3LD2545-0TK5□		1	1 unit	1CL
	3 + N	--	7.5	16	3LD2044-1TL5□		1	1 unit	1CL
			9.5	25	3LD2144-1TL5□		1	1 unit	1CL
			11.5	32	3LD2244-1TL5□		1	1 unit	1CL
			22	63	3LD2545-0TK5□ + 1)		1	1 unit	1CL
					3LD9250-0CA		1	1 unit	1CL
	3	1 NO + 1 NC	7.5	16	3LD2044-0TK5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
			9.5	25	3LD2144-0TK5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
			11.5	32	3LD2244-0TK5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
			22	63	3LD2545-0TK5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
	3 + N	1 NO + 1 NC	7.5	16	3LD2044-1TL5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
			9.5	25	3LD2144-1TL5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
			11.5	32	3LD2244-1TL5□ + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL
			22	63	3LD2545-0TK5□ + 1) 3LD9250-0CA + 2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

1) 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories.

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Floor mounting

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I_u						
		kW	kW	A	d					
Main control and EMERGENCY-STOP switches with door-coupling rotary operating mechanism (6-pole) • Lockable in 0 position with up to 3 padlocks with a hasp thickness of 4 to 8 mm • 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 x 67 mm - 3LD23, 3LD24: 96 x 96 mm										
Four-hole mounting										
	6	--	7.5	9.5	25	3LD2113-3VK5□		1	1 unit	1CL
	6	--	50	75	160	3LD2318-3VK1□		1	1 unit	1CL
	6	--	110	132	250	3LD2418-3VK1□		1	1 unit	1CL
	6	1 NO + 1 NC	9.5	9.5	25	3LD2113-4VP5□		1	1 unit	1CL



3LD2113-3VK51

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u						
		kW	A	d					
Main control and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism (as knob-operated mechanism) The 3LD main control and EMERGENCY-STOP switch with defeatable door-coupling rotary operating mechanism enables you to conduct repairs, maintenance work or tests on electrical plants and machines without having to interrupt their operation. With the help of the defeatable door-coupling rotary operating mechanism, an electrician can bypass locking in the ON position and open the control cabinet door with the plant activated. 3LD main control and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism are approved according to UL 508. • With 300 mm switch shaft • Lockable in 0 position with up to 3 padlocks with a hasp thickness of 4 to 6 mm • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism as knob-operated 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 x 65 mm									
Four-hole mounting									
 3LD2017-0TK..	3	--	7.5	16	3LD2017-0TK1□		1	1 unit	1CL
			11.5	32	3LD2217-0TK1□		1	1 unit	1CL
			22	63	3LD2517-0TK1□		1	1 unit	1CL
	3 + N	--	7.5	16	3LD2017-1TL1□		1	1 unit	1CL
			11.5	32	3LD2217-1TL1□		1	1 unit	1CL
			22	63	3LD2517-1TL1□		1	1 unit	1CL

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

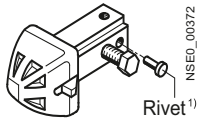
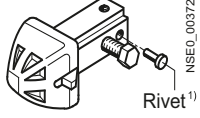
1
3

Accessories**Defeatable door-coupling rotary operating mechanisms from 100 A to 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⁾	SD	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	PG
	Type		mm x mm		d					
Components for 3LD27, 3LD28										
 8UC71	8UC71	1	6 x 6	Standard EMERGENCY-STOP		8UC7110-1BB 8UC7120-3BB		1	1 unit	1CL
								1	1 unit	1CL
 8UC6011	8UC71	1	6 x 6	--		8UC6011		1	1 unit	1CL
Components for 3LD23, 3LD24										
 8UC72	8UC72	2	8 x 8	Standard EMERGENCY-STOP		8UC7210-1BB 8UC7220-3BB		1	1 unit	1CL
								1	1 unit	1CL
 8UC6012	8UC72	2	8 x 8	--		8UC6012		1	1 unit	1CL

¹⁾ Non-interchangeability features.

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

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 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		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u	d					
		kW	A	d					
ON/OFF and EMERGENCY-STOP switches with masking plate and selector knob - 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 padlocks with a hasp thickness of 4 to 6 mm (160 A) or up to 3 padlocks with a hasp thickness of 4 to 6 mm (250 A) - 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
			9.5	25	3LD2130-0TK1□		1	1 unit	1CL
			11.5	32	3LD2230-0TK1□		1	1 unit	1CL
			22	63	3LD2530-0TK1□		1	1 unit	1CL
			37	100	3LD2730-0TK1□		1	1 unit	1CL
			45	125	3LD2830-0TK1□		1	1 unit	1CL
			75	160	3LD2330-0TK1□		1	1 unit	1CL
			132	250	3LD2430-0TK1□		1	1 unit	1CL
 3LD2330-0TK11	3 + N	--	7.5	16	3LD2030-1TL1□		1	1 unit	1CL
			9.5	25	3LD2130-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9220-0C		1	1 unit	1CL
			11.5	32	3LD2230-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9220-0C		1	1 unit	1CL
			22	63	3LD2530-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9250-0CA		1	1 unit	1CL
			37	100	3LD2730-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9280-0C		1	1 unit	1CL
			45	125	3LD2830-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9280-0C		1	1 unit	1CL
			75	160	3LD2330-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9240-0C		1	1 unit	1CL
			132	250	3LD2430-0TK1□ + ¹⁾		1	1 unit	1CL
					3LD9240-0C		1	1 unit	1CL

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

¹⁾ 4th contact element as N conductor to be ordered separately, see page 7/39, "Accessories, accessories for floor mounting".

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Distribution board mounting

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

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

1) 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories for floor mounting.

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories.

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Molded-plastic enclosures

Selection and ordering data

Number and version of the contacts		Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Main contact elements	Auxiliary contact elements		P/AC-23A	I_u	d					
			kW	A						
Main control and EMERGENCY-STOP switches • With N and/or PE/ground base terminals • Lockable in 0 position with up to 3 padlocks with a hasp thickness of 4 to 8 mm • Degree of protection IP65 • Rotary operating mechanisms with center-hole mounting • For floor-mounted auxiliary switches • Metric screw connection										
 3LD2164-0TB53	3	--	PE + N	7.5	16	3LD2064-0TB5□		1	1 unit	1CL
			PE + N	9.5	25	3LD2164-0TB5□		1	1 unit	1CL
			PE + N	11.5	32	3LD2264-0TB5□		1	1 unit	1CL
			PE + N	22	63	3LD2565-0TB5□		1	1 unit	1CL
			PE + N	37	100	3LD2766-0TB5□		1	1 unit	1CL
			PE + N	45	125	3LD2866-0TB5□		1	1 unit	1CL
	3 + N	--	PE	7.5	16	3LD2064-1TC5□		1	1 unit	1CL
			PE	9.5	25	3LD2164-1TC5□		1	1 unit	1CL
			PE	11.5	32	3LD2264-1TC5□		1	1 unit	1CL
			PE	22	63	3LD2565-1TC5□		1	1 unit	1CL
			PE + N	37	100	3LD2766-0TB5□ +1)		1	1 unit	1CL
			PE + N	45	125	3LD2866-0TB5□ +1)		1	1 unit	1CL
	3	1 NO + 1 NC	N	7.5	16	3LD2064-1GP5□		1	1 unit	1CL
			N	9.5	25	3LD2164-1GP5□		1	1 unit	1CL
			N	11.5	32	3LD2264-1GP5□		1	1 unit	1CL
			N	22	63	3LD2565-1GP5□		1	1 unit	1CL
			N	37	100	3LD2766-1GP5□		1	1 unit	1CL
			N	45	125	3LD2866-1GP5□		1	1 unit	1CL
	3 + N	1 NO + 1 NC	PE	7.5	16	3LD2064-1TC5□ +2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL	
			PE	9.5	25	3LD2164-1TC5□ +2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL	
			PE	11.5	32	3LD2264-1TC5□ +2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL	
			PE	22	63	3LD2565-1TC5□ +2)		1	1 unit	1CL
					3LD9200-5C		1	1 unit	1CL	
			N	37	100	3LD2766-1GP5□ +1)		1	1 unit	1CL
					3LD9280-0C		1	1 unit	1CL	
			N	45	125	3LD2866-1GP5□ +1)		1	1 unit	1CL
					3LD9280-0C		1	1 unit	1CL	

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

1) 4th contact element as N conductor to be ordered separately, see page 7/39, Accessories for floor mounting

2) Auxiliary switches 1 NO + 1 NC to be ordered separately, see page 7/39, Accessories

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Molded-plastic enclosures

Number and version of the contacts		Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG				
Main contact elements	Auxiliary contact elements		P/AC-3	P/AC-23A	I _u										
					kW							kW	A	d	
Main control and EMERGENCY-STOP switches with rotary operating mechanism (6-pole)															
• With N and/or PE/ground base terminals • Degree of protection IP65 • Metric screw connection															
	6	--	PE + N	7.5	9.5	25	3LD2165-3VB5□		1	1 unit	1CL				
			PE + N	9.5	11.5	32	3LD2265-3VB5□		1	1 unit	1CL				
			PE + N	18.5	22.0	63	3LD2566-3VB5□		1	1 unit	1CL				
	6	1 NO + 1 NC	N	7.5	9.5	25	3LD2165-4VD5□		1	1 unit	1CL				
			N	9.5	11.5	32	3LD2265-4VD5□		1	1 unit	1CL				
			PE + N	18.5	22.0	63	3LD2566-4VD5□		1	1 unit	1CL				

3LD2165-3VB53

3LD2165-3VB53

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > DC applications

Selection and ordering data

Mains voltage	Rated current I_e at 800 V DC		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Max. V DC	DC-21A A	DC-22A A	d					

DC isolators in molded-plastic enclosure

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



3LD2265-8VQ5-0AF6

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

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Mains voltage	Rated current I_e at 800 V DC		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Max. V DC	DC-21A A	DC-22A A	d					

DC isolators for distribution board mounting

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



3LD2230-8VQ11-0AF6

800	32	16		3LD2230-8VQ11-0AF6		1	1 unit	1CL
-----	----	----	--	---------------------------	--	---	--------	-----

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Accessories

Selection and ordering data

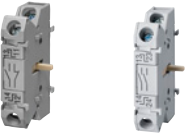
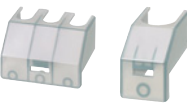
Version		SD	3LD20	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.		Price per PU		
d						
For front mounting						
	N or PE terminals Through-type	3LD9200-2B		1	1 unit	1CL
3LD9200-2B						
	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading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

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Accessories

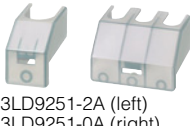
Version	SD	3LD21 and 3LD22	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
For front mounting					
 3LD9220-0B (left) 3LD9220-2B (right)		4th contact element (N conductor) Leading switch-on, lagging switch-off	3LD9220-0B	1	1 unit 1CL
		N or PE terminals Through-type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

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Accessories

Version	SD	3LD25	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
For front mounting					
	4th contact element (N conductor) Leading switch-on, lagging switch-off		3LD9250-0BA	1	1 unit 1CL
	N or PE terminals Through-type		3LD9250-2BA	1	1 unit 1CL
	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off		3LD9200-5B	1	1 unit 1CL
	• 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
For floor mounting, distribution board mounting or molded-plastic enclosures					
	4th contact element (N conductor) Leading switch-on, lagging switch-off		3LD9250-0CA	1	1 unit 1CL
	N or PE terminals Through-type		3LD9250-2CA	1	1 unit 1CL
	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off		3LD9200-5C 3LD9200-6C	1 1	1 unit 1CL 1CL
	• 1 NO + 1 NC • 2 NO 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
For front and floor mounting					
	Rotary operating mechanisms Lockable in 0 position with up to 3 padlocks		3LD9284-1B 3LD9284-3B	1 1	1 unit 1CL 1CL
	• For four-hole mounting, including seal - Black - Red/yellow • For center-hole mounting, including seal and nut - Black - Red/yellow		3LD9284-1D 3LD9284-3D	1 1	1 unit 1CL 1CL
	Mounting tools For center-hole mounting with nut		3LD9256-0A	1	5 units 1CL
	Switching shafts 6 x 6 mm Length 300 mm		3LD9205-0C	1	5 units 1CL
	Length 600 mm		3LD9205-2C	1	5 units 1CL
	Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)		3LD9286-1A	1	10 units 1CL
	Without inscription		3LD9286-4A	1	10 units 1CL
Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom					
• 1-pole		3LD9251-2A	100	4 units	1CL
• 3-pole		3LD9251-0A	1	4 units	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Accessories

Version	SD	3LD27 and 3LD28	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
For front mounting					
 3LD9280-0B (left) 3LD9280-2B (right)	4th contact element (N conductor) Leading switch-on, lagging switch-off		3LD9280-0B	1	1 unit 1CL
	N or PE terminals Through-type		3LD9280-2B	1	1 unit 1CL
 3LD9200-5B	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC		3LD9200-5B 3LD9200-5BF	1 1	1 unit 1CL 1 unit 1CL
	For floor mounting, distribution board mounting or molded-plastic enclosures				
 3LD9280-0C (left) 3LD9280-2C (right)	4th contact element (N conductor) Leading switch-on, lagging switch-off		3LD9280-0C	1	1 unit 1CL
	N or PE terminals Through-type		3LD9280-2C	1	1 unit 1CL
 3LD9200-5C (left) 3LD9200-6C (right)	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NO 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		3LD9200-5C 3LD9200-6C 3LD9200-5CF	1 1 1	1 unit 1CL 1 unit 1CL 1 unit 1CL
	For front and floor mounting				
 3LD9284-1B 3LD9284-3D	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		3LD9284-1B 3LD9284-3B 3LD9284-1D 3LD9284-3D	1 1 1 1	1 unit 1CL 1 unit 1CL 1 unit 1CL 1 unit 1CL
	Switching shafts 6 x 6 mm Length 300 mm Length 600 mm		3LD9205-0C 3LD9205-2C	1 1	5 units 1CL 5 units 1CL
 3LD9286-1A	Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER) Without inscription		3LD9286-1A 3LD9286-4A	1 1	10 units 1CL 10 units 1CL
	Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole (1 pack = 4 units)		3LD9281-2A	1	4 units 1CL
 3LD9281-2A					

Switch Disconnectors

Fuseless Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches from 16 to 250 A

3LD2 main control and EMERGENCY-STOP switches from 16 to 250 A > Accessories

Version		SD	3LD23 and 3LD24	PU (UNIT, SET, M)	PS	PG
		d	Article No. www.siemens.com/ product?Article No.	Price per PU		
For front mounting						
 3LD9240-0B (left) 3LD9240-2B (right)	4th contact element (N conductor) Leading switch-on, lagging switch-off		3LD9240-0B	1	1 unit	1CL
	N or PE terminals Through-type		3LD9240-2B	1	1 unit	1CL
	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, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC		3LD9200-5B 3LD9200-5BF	1 1	1 unit 1 unit	1CL 1CL
For floor and distribution board mounting						
 3LD9242-4F	Coupling piece Without ON-lock		3LD9242-4F	1	5 units	1CL
 3LD9240-0C (left) 3LD9240-2C (right)	4th contact element (N conductor) Leading switch-on, lagging switch-off		3LD9240-0C	1	1 unit	1CL
	N or PE terminals Through-type		3LD9240-2C	1	1 unit	1CL
	Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC • 2 NO • For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information • 1 NO + 1 NC		3LD9200-5C 3LD9200-6C 3LD9200-5CF	1 1	1 unit 1 unit	1CL 1CL
For front and floor mounting						
 3LD9243-1B	Knob-operated mechanism (also for distribution board mounting) Lockable in 0 position with up to 3 padlocks • For four-hole mounting, including seal - Black - Red/yellow		3LD9243-1B 3LD9243-3B	1 1	1 unit 1 unit	1CL 1CL
 3LD9241-2A	Switching shafts 8 x 8 mm Length 300 mm Length 600 mm		3LD9245-0C 3LD9245-2C	1 1	5 units 5 units	1CL 1CL
	Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole		3LD9241-2A	1	4 units	1CL

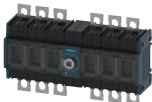
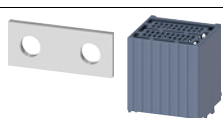
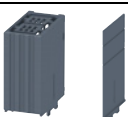
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Introduction

Overview

Devices		Description	Page
Complete assemblies			
	Complete assemblies with direct operating mechanisms	Ready-to-install combinations comprising switch disconnectors and operating mechanisms • 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	7/65
Basic units			
	Front operating mechanisms 3/4-pole up to 690 V AC / 440 V DC	Switch disconnectors with front operating mechanisms without handle • 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	7/66
	Side operating mechanisms	Switch disconnectors with side operating mechanisms • 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 side of switch disconnector	7/67
	DC applications, front operating mechanisms 6-pole up to 1200 V DC	Switch disconnectors with front operating mechanisms without handle • 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	7/70
Accessories and spare parts			
 Left: Box terminal Right: Flat terminal	Additional poles	Additional poles for enhanced functionality • 4th contact element (switching pole) • N terminal (neutral conductor terminal with removable jumper) • N/PE terminal (with permanent jumper)	7/70
	Direct operating mechanisms	Different handles for mounting on basic units • Direct operating mechanisms for direct mounting on switch disconnector • Handles available in colors gray or red/yellow	7/71
	Door-coupling rotary operating mechanisms	Different handles for mounting on basic units • Door-coupling rotary operating mechanisms for operation of switch disconnector outside the control cabinet door • 8UD1 series or 8UC/3KD series • Handles available in colors gray or red/yellow	7/72
	Auxiliary switches	Auxiliary switches • 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)	7/77
	Accessories for DC applications	• Connecting bridge for series connection of two poles • Cable connection cover for connecting bridge	7/78
	Other accessories	• Phase barriers • Cable connection cover As touch protection for termination area (for installation outside control cabinet) • Mounting bracket for wall mounting (spare part)	7/79

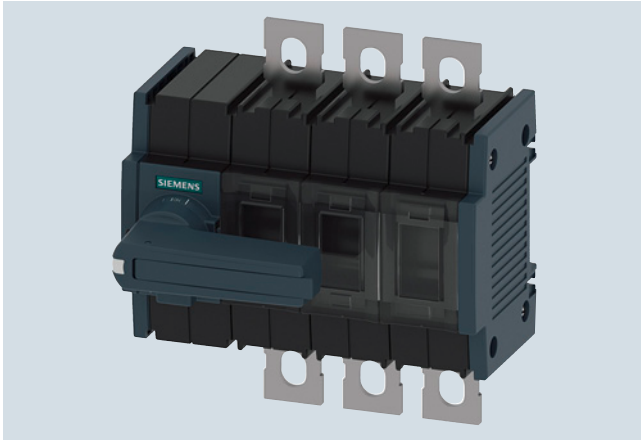
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

General data

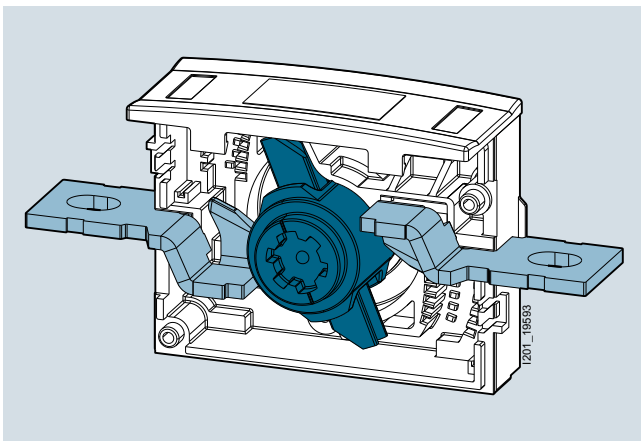
Overview



3KD switch disconnector, complete assembly, 3-pole

Features

- 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
- The 3KD offers high reliability thanks to the double break technology.



Double contact break principle

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

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

General data

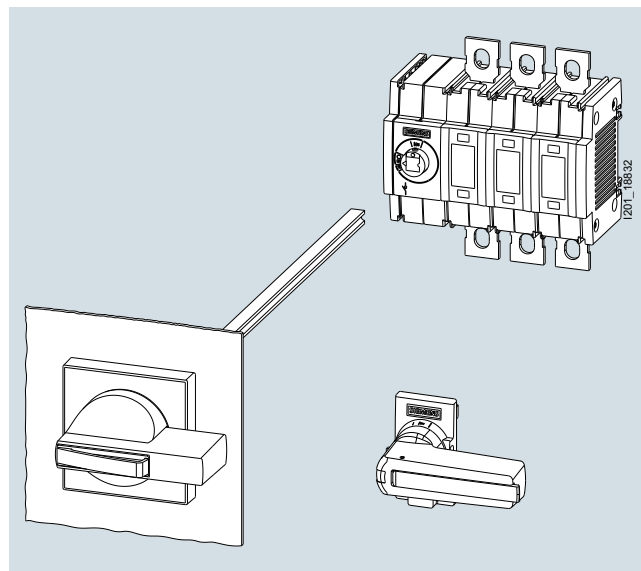
Design

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	--		--	--

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

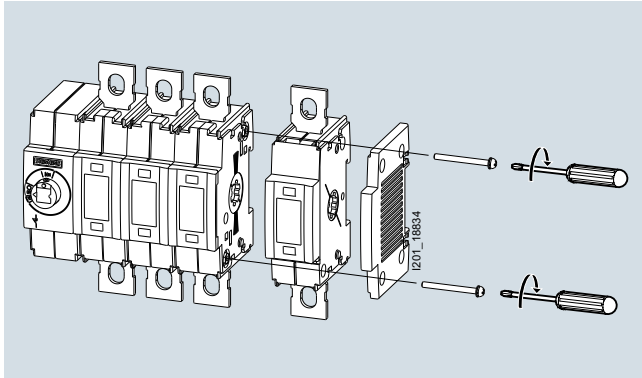
General data

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:

4th 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.

N — N

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 — N

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 — N

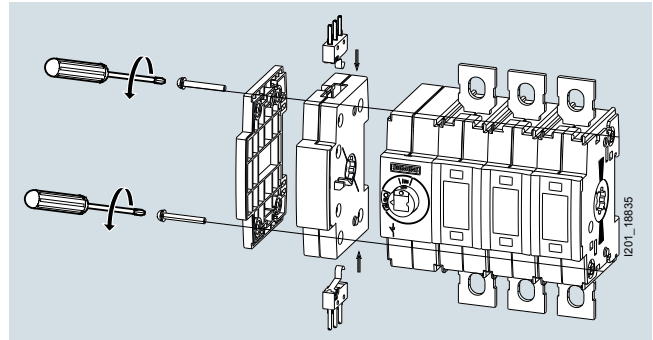
N/PE terminal with permanent connections

Auxiliary switches

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

Installation of auxiliary switches for sizes 1 and 2

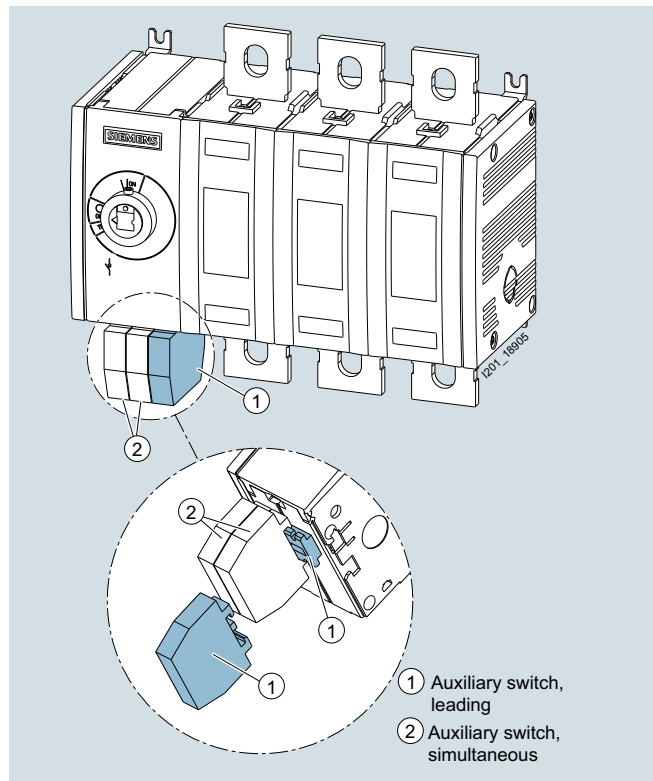
The auxiliary switches used for sizes 1 and 2 are microswitches (changeover contacts) which can be snapped into an auxiliary switch module. This auxiliary switch module is mounted on the side of the switch disconnector in the same way as an additional pole. A maximum of two microswitches can be installed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

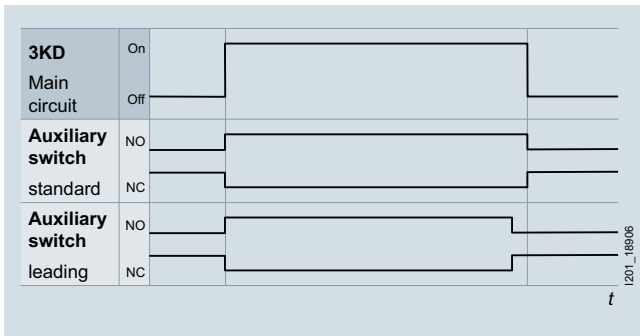
Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

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.

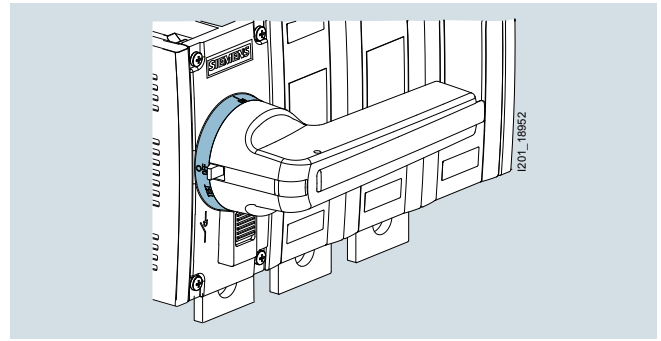
With sizes 1 and 2, the selection of the appropriate auxiliary switch module determines whether the switching instant will be leading or simultaneous.

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.

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 counter-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.

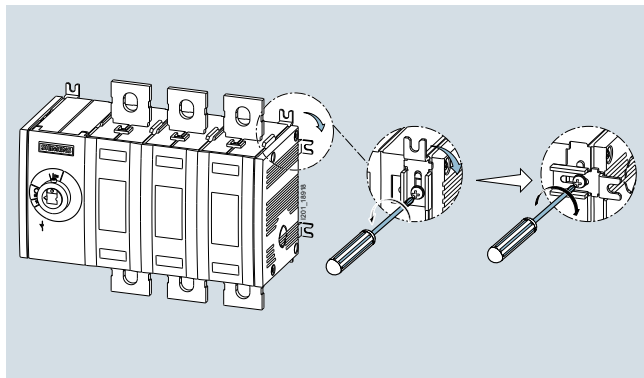
Switch Disconnectors

Fuseless Switch Disconnectors 3KD Switch Disconnectors up to 1600 A

General data

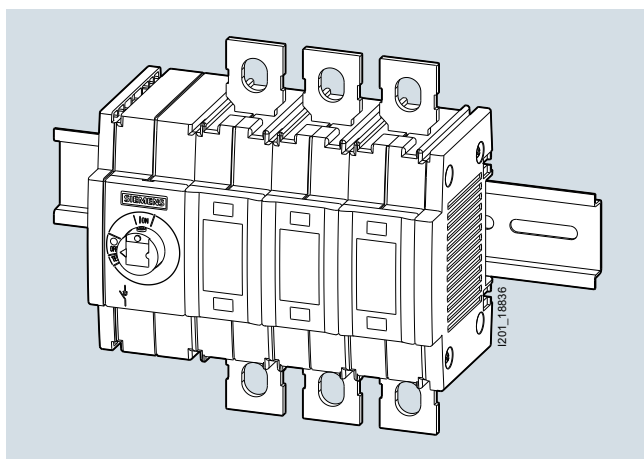
Types of mounting

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

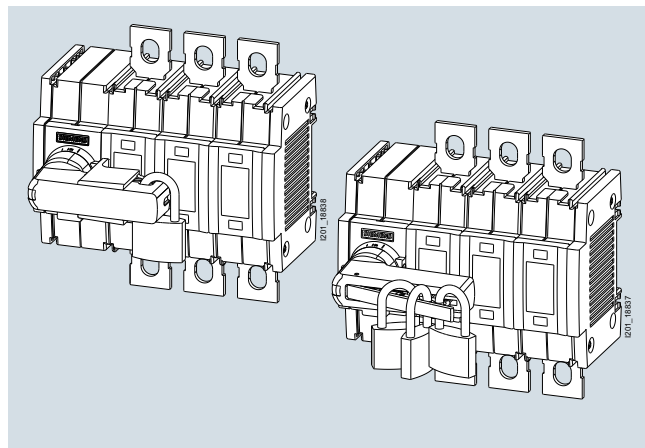
Sizes 1 and 2 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.



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

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

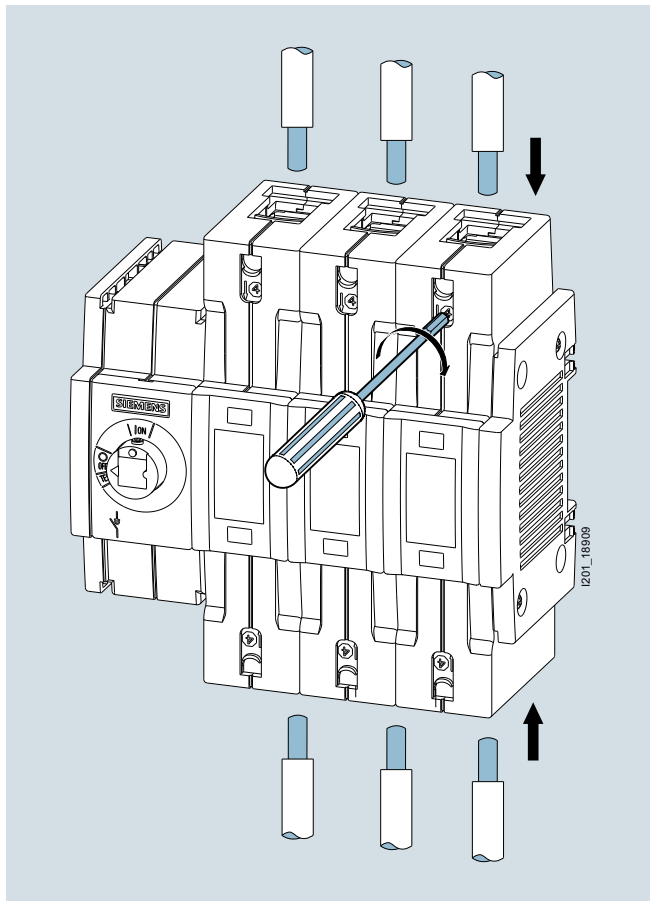
General data

Electrical connection

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

Box terminals

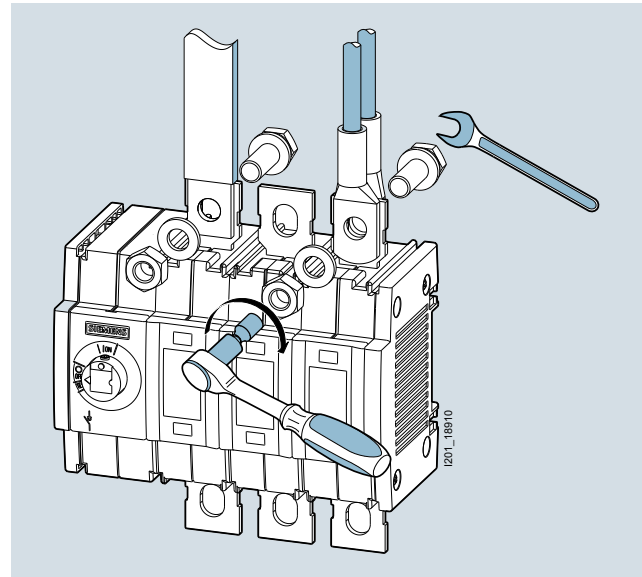
Box terminals for sizes 1 and 2 (rated currents 16 A to 160 A) are designed to allow the speedy connection of stripped conductors.



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

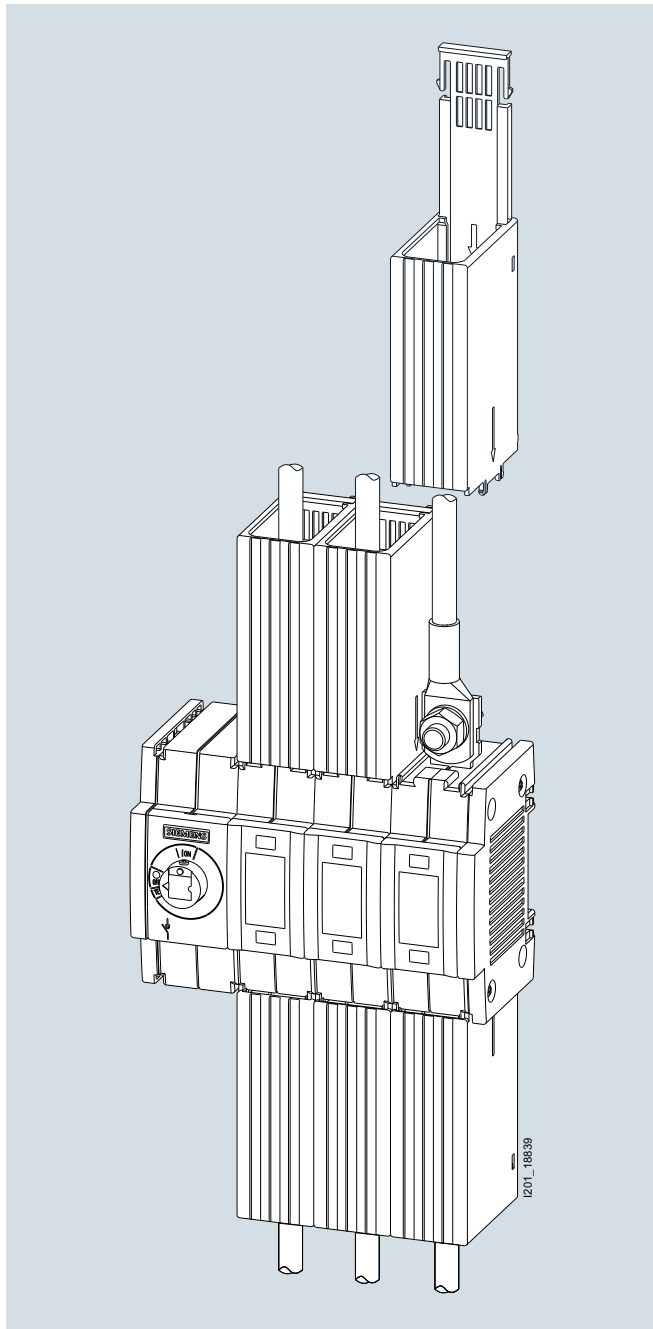
Terminal covers and phase barriers can be supplied for 3KD switch disconnectors with flat terminals.

Switch Disconnectors

Fuseless Switch Disconnectors
3KD Switch Disconnectors up to 1600 A

General dataTerminal covers

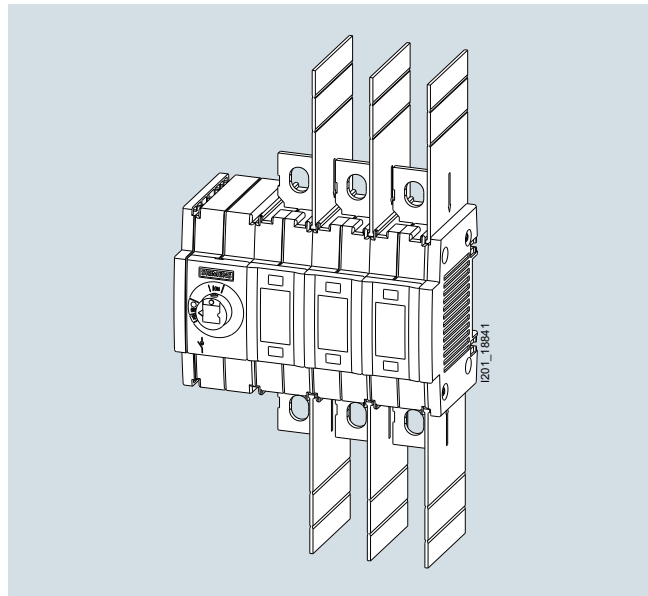
If the 3KD switch disconnector is erected outside a control cabinet, terminal covers can be installed to provide touch protection for all terminals.



Terminal covers

Phase barriers

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



Phase barriers

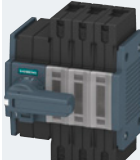
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

Overview

3LD main control and EMERGENCY-STOP switches																
3KD switch disconnectors: Box terminals																
3KD switch disconnectors: Flat terminals																
Size						1				2						
Type		3LD20	3LD21	3LD22	3LD25	3KD....-M			3LD27	3LD28	3LD23	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 mechanisms		--	--	--	--	✓	✓	✓	--	--	--	✓	✓	✓	✓	✓
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
• 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	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"

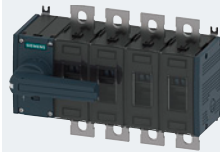
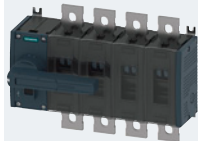
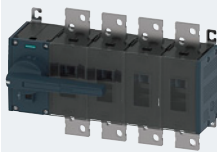
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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 mechanisms		--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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"

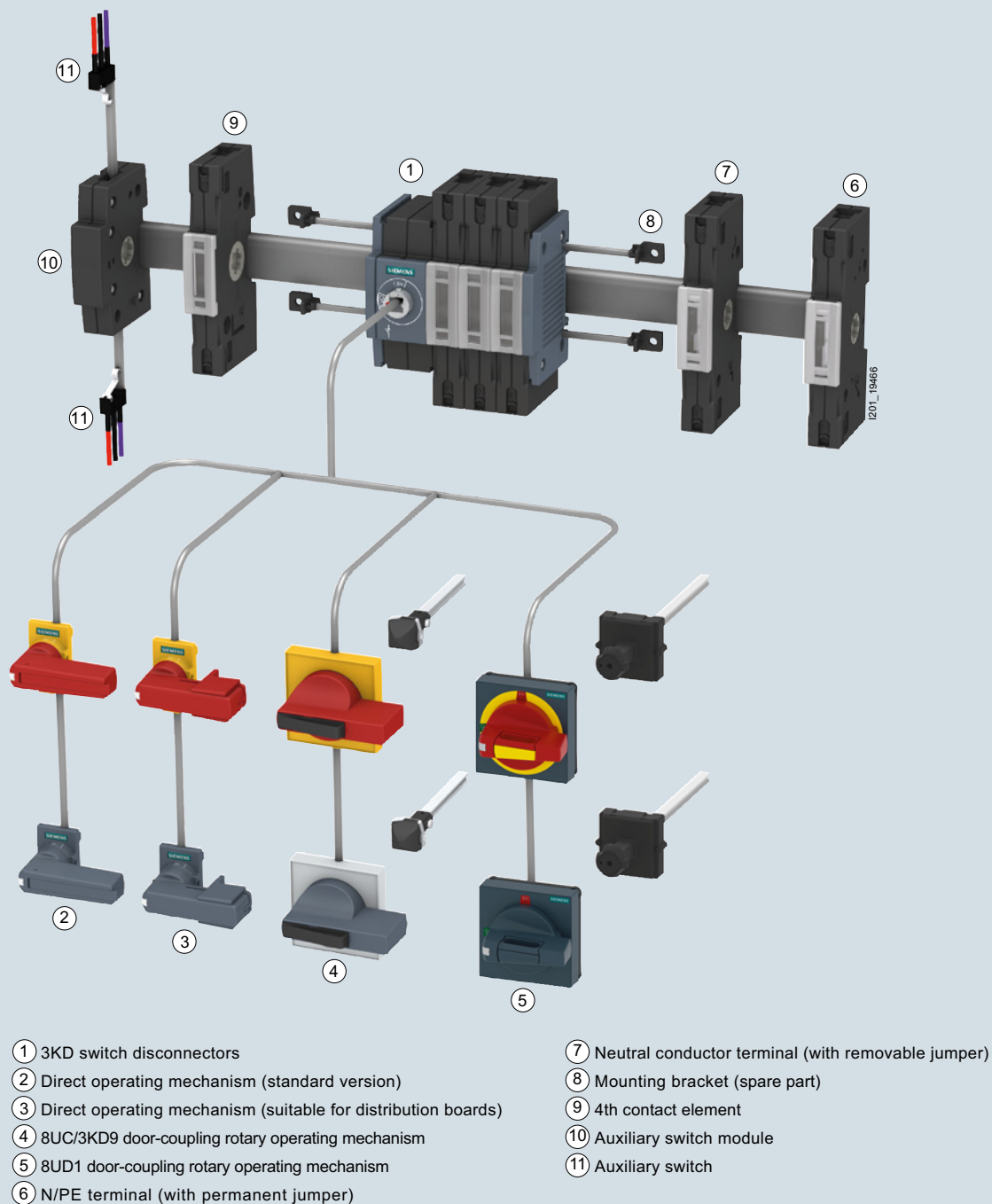
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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

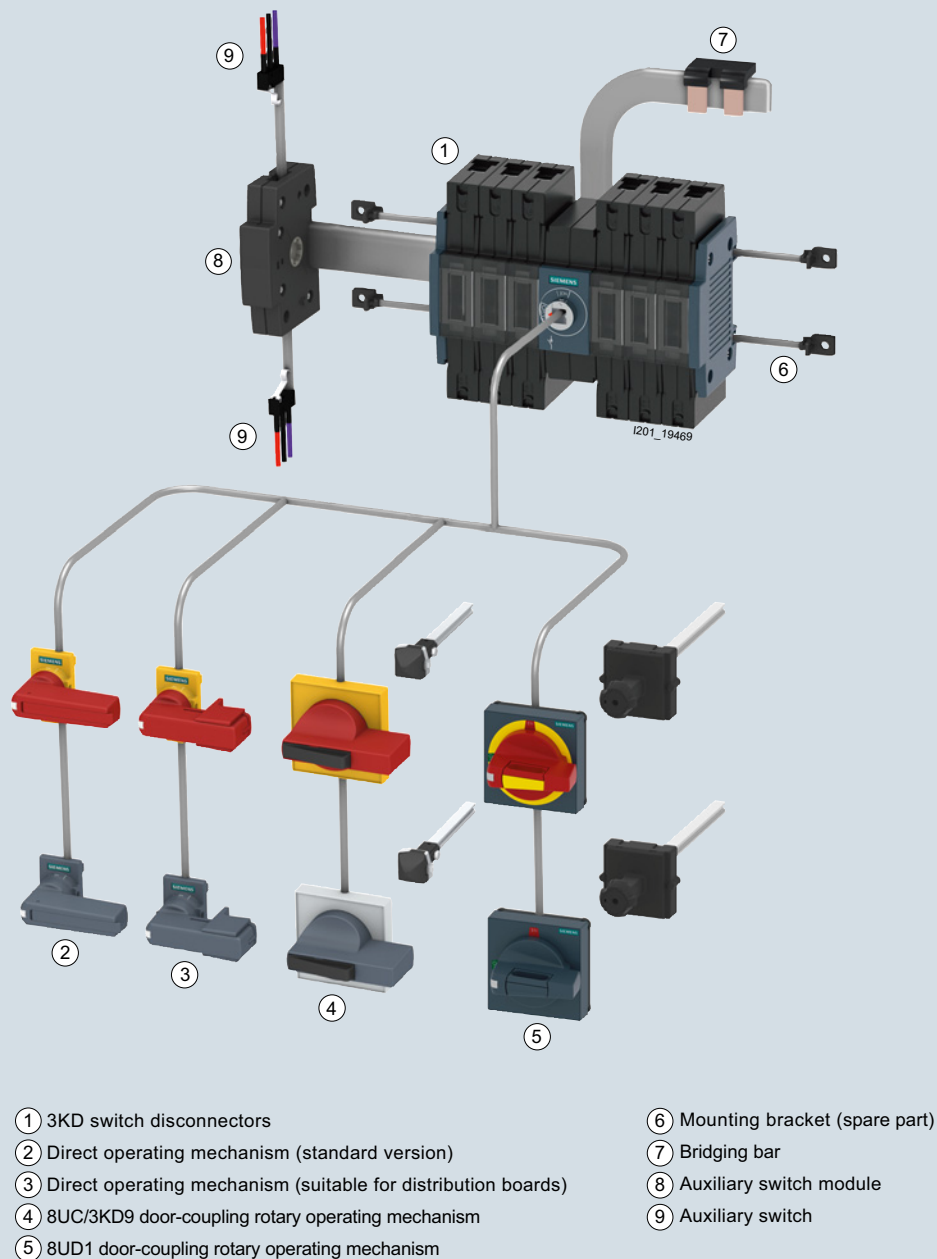


Switch Disconnectors

Fuseless Switch Disconnectors
3KD Switch Disconnectors up to 1600 A

Technical features

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



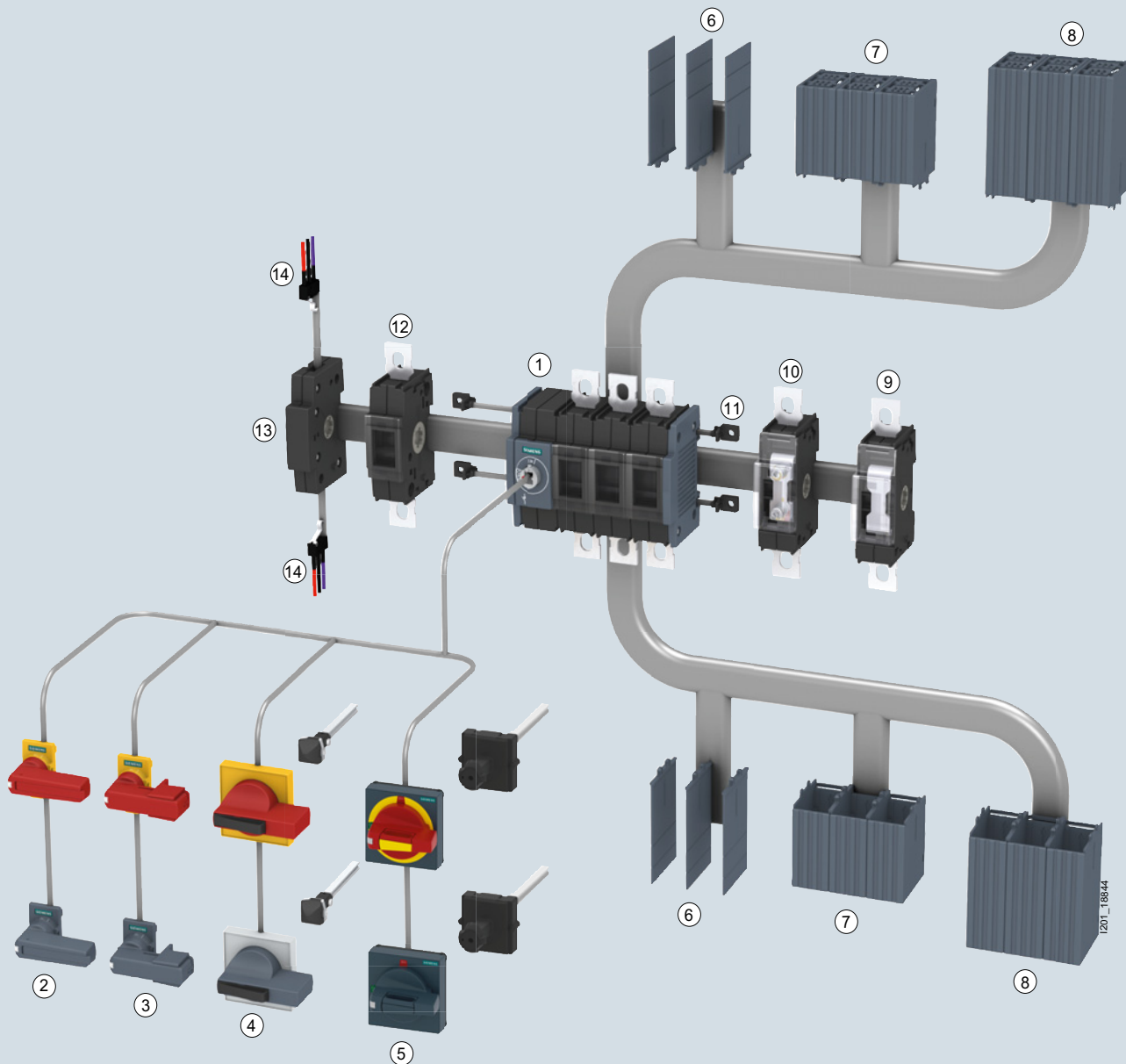
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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



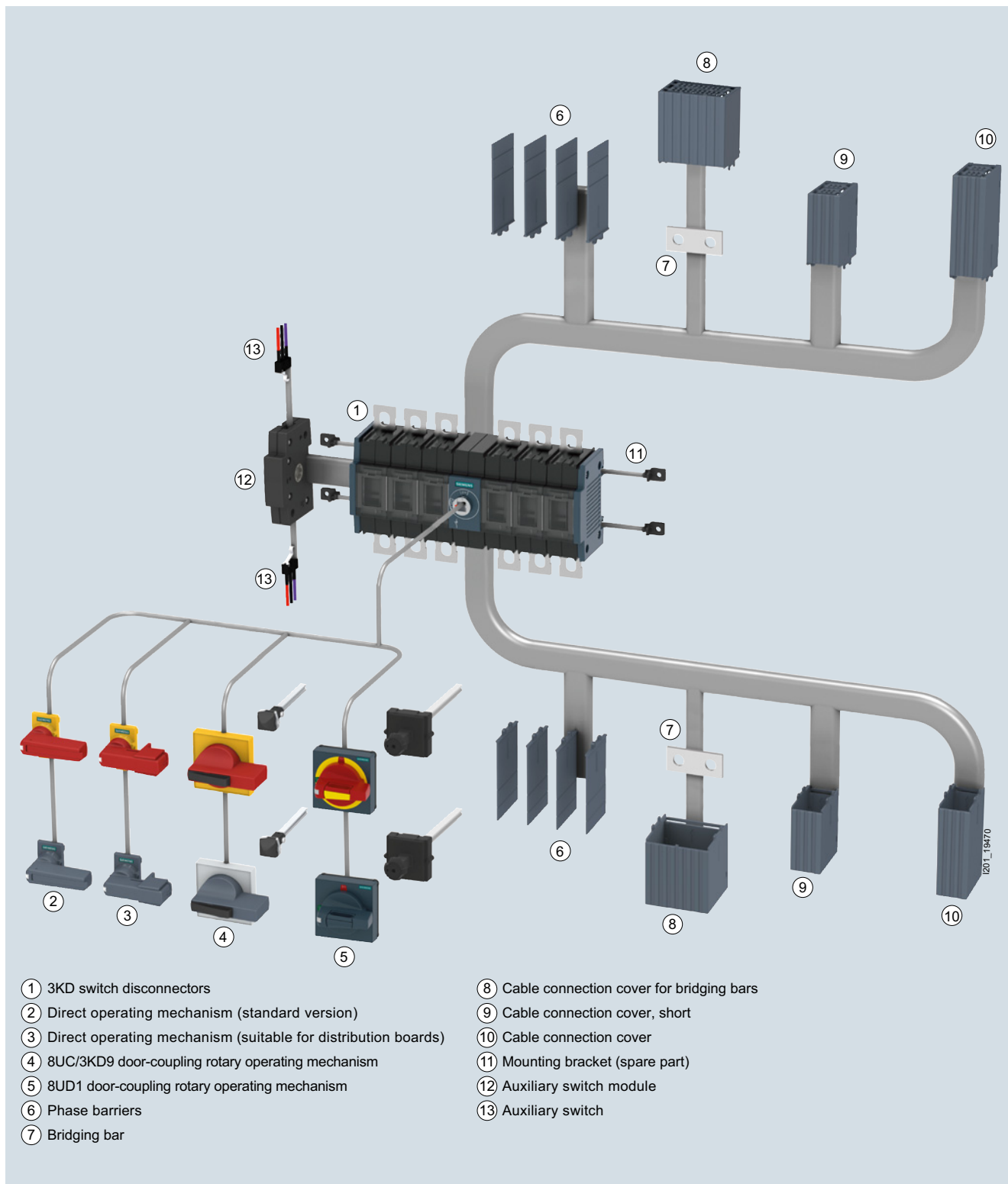
- ① 3KD switch disconnectors
- ② Direct operating mechanism (standard version)
- ③ Direct operating mechanism (suitable for distribution boards)
- ④ 8UC/3KD9 door-coupling rotary operating mechanism
- ⑤ 8UD1 door-coupling rotary operating mechanism
- ⑥ Phase barriers
- ⑦ Cable connection covers, short

- ⑧ Cable connection covers
- ⑨ N/PE terminal (with permanent jumper)
- ⑩ Neutral conductor terminal (with removable jumper)
- ⑪ Mounting bracket (spare part)
- ⑫ 4th contact element
- ⑬ Auxiliary switch module
- ⑭ Auxiliary switch

1201_18844

Switch Disconnectors

Fuseless Switch Disconnectors
3KD Switch Disconnectors up to 1600 A

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

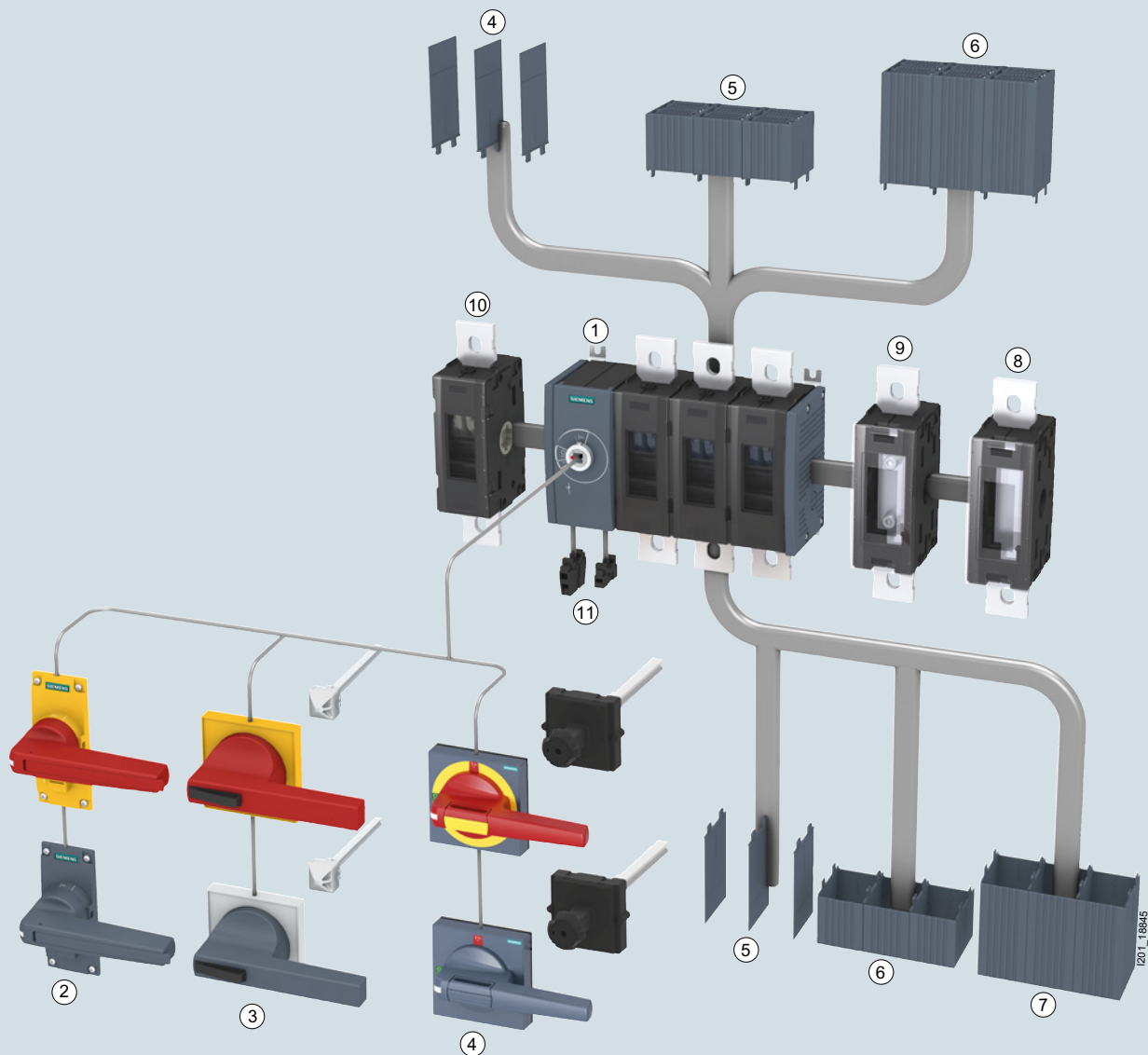
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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

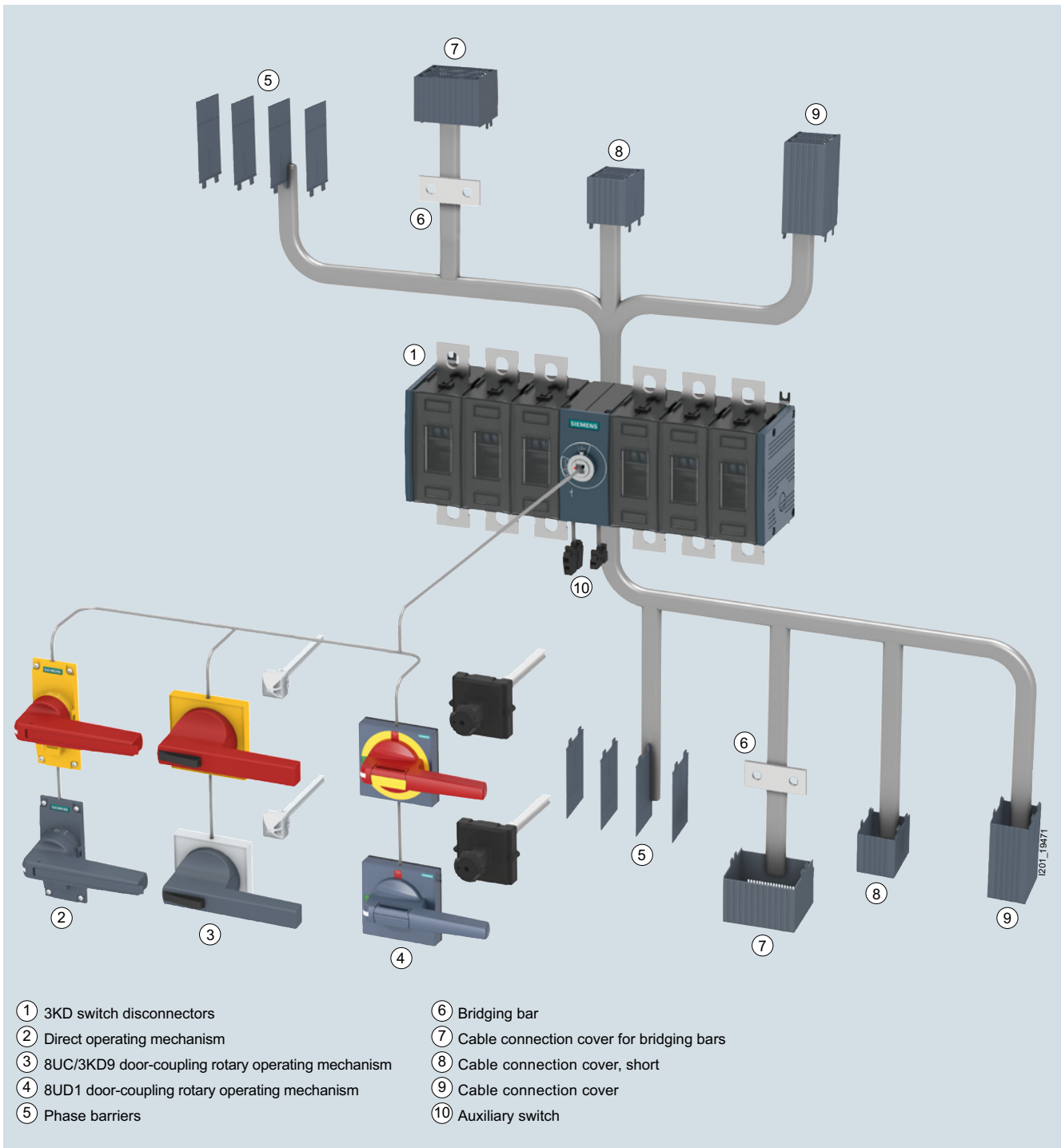
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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



Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

Technical specifications

3KD switch disconnectors, 3/4-pole, size 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									
• At 50/60 Hz AC (tolerance up to +10% permissible)	V	690							
• At DC - 2 conducting paths series-connected	V	220							
• At DC - 3 conducting paths series-connected	V	440							
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									
• At AC-21A, AC-22A, 400 to 690 V	A	16	32	63	80	100	125	160	200
• 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	160	160
• At AC-23, 690 V	A	16	32	63	80	100	125	125	125
• 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⁾									
• At 400 V	kW	7.5	15	30	37	55	55	90	90
• At 500 V	kW	7.5	18.5	37	55	55	75	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}	kA	7	7	7	12	12	12	12	12
Rated current of upstream fuse ^{3) 4)}	A	63	63	63	160	160	160	160	200
Rated conditional short-circuit current with upstream fuses ³⁾									
• At 400/500 V AC	kA	100	100	100	100	100	100	100	50
• At 690 V AC	kA	100	100	100	65	65	65	65	50
Let-through current combined with upstream fuse ³⁾									
• At 400/500 V AC	kA	7	7	7	17.9	17.9	17.9	17.9	18
• 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⁾									
• At 400/500 V	kA ² s	13.3	13.3	13.3	135.6	135.6	135.6	135.6	211
• 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	0.1	0.4	1	1.1	1.8	3.2	4.6	6.4
Service life, operating cycles									
• Mechanical		15000	15000	15000	15000	15000	15000	15000	15000
• Electrical, at AC-23A, 690 V/50...60 Hz		6000	6000	6000	1500	1500	1500	1500	1500
• Electrical, at DC-23A, 220/440 V		1500	1500	1500	1500	1500	1000	1000	1000
Degree of protection									
• With masking plate or cable connection cover		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
• Without masking plate or terminal cover		IP20	IP20	IP20	IP00 ⁵⁾ /IP20				IP00
Ambient conditions									
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +55 °C)							
• Ambient temperature during storage	°C	-50 ... +80							
• Mounting position ⁶⁾		Any							
Main conductor connections									
Conductor cross-section, max.	mm ²	35	35	35	70 (95) ⁷⁾	70 (95) ⁷⁾	70 (95) ⁷⁾	70 (95) ⁷⁾	95
Busbar systems, max. dimensions (number x width x thickness)									
• Flat terminals	mm	--			1 x 20 x 3 ⁸⁾				
• 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 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) Maximum rated current of the upstream fuse; a fuse with a lower rated current can also be used.

5) Relevant only for devices with flat terminals.

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

7) 95 mm² valid for variants with flat terminals.

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

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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											
• At 50/60 Hz AC (tolerance up to +10% permissible)	V	690									
• At DC - 2 conducting paths series-connected	V	220									
• At DC - 3 conducting paths series-connected	V	440									
Rated insulation voltage U_i	V	1000									
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
Pollution degree		3	3	3	3	3	3	3	3	3	3
Operating and short-circuit behavior											
Rated operational current $I_e^{2) 3)}$											
• At AC-21A, AC-22A, 400 to 690 V	A	200	250	315	400	500	630	800	1000	1250	1600
• At AC-23, 400 V	A	200	250	315	400	500	630	670	800	800	800
• At AC-23, 500 V	A	200	250	315	350	500	630	630	800	800	800
• At AC-23, 690 V	A	200	250	315	315	500	500	500	800	800	800
• At DC-21A, 220/440 V	A	200	250	315	400	500	630	800	1000	1250	1600
• 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⁾											
• At 400 V	kW	110	132	160	220	280	355	355	400	400	400
• At 500 V	kW	132	160	220	250	355	400	400	560	560	560
• 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) 6)}	A	250	250	400	400	630	630	800	1000	1250	1600
Rated conditional short-circuit current with upstream fuses ⁵⁾											
• At 400/500 V AC	kA	100	100	65	65	100	100	100	100	80	80
• At 690 V AC	kA	65	65	35	35	65	65	50	--	--	--
Let-through current combined with upstream fuse ⁵⁾											
• At 400/500 V AC	kA	25.1	25.1	35.2	35.2	61.6	61.6	63.7	95.9	103.4	110
• 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⁾											
• At 400/500 V	kA²s	427	427	1165	1165	3687	3687	7471	15400	25960	30900
• At 690 V	kA²s	348	348	1157	1157	4450	4450	10300	--	--	--
Power loss per pole with thermal current I_{th}	W	4	6	10	14	12	17	25	20	32	57
Service life, operating cycles											
• Mechanical		10000	10000	10000	10000	8000	8000	8000	6000	6000	6000
• Electrical, at AC-23A, 690 V/50...60 Hz		1000	1000	1000	1000	1000	1000	1000	500	500	500
• Electrical, at DC-23A, 220/440 V		1000	1000	1000	1000	1000	1000	500	500	500	500
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 ... +55 °C)									
• Ambient temperature during storage	°C	-50 ... +80									
• Mounting position ⁷⁾		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	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10		
Tightening torque											
• Flat terminals	Nm	30 ... 44				50 ... 75			50 ... 75		
• Box terminals	Nm	--				--			--		

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

²⁾ For size 3, phase barriers or contact connection covers (accessories) are required for busbar systems (AC-21A, AC-22A, and $U_e > 400$ V, AC-23A) and when connecting cable lugs.

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⁾ Maximum rated current of the upstream fuse; a fuse with a lower rated current can also be used.

⁷⁾ Contact Technical Support for other mounting positions.

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

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	16	32	63	80	100	125	160	
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	0.1	0.4	1	1.1	1.8	3.2	4.6	
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.

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Technical features

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									
Type		3KD36	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											
• 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	6	10	14	12	17	25	20	32	57
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 sizes 3 and 4, phase barriers or contact connection covers (accessories) are required when connecting cable lugs.

Switch Disconnectors

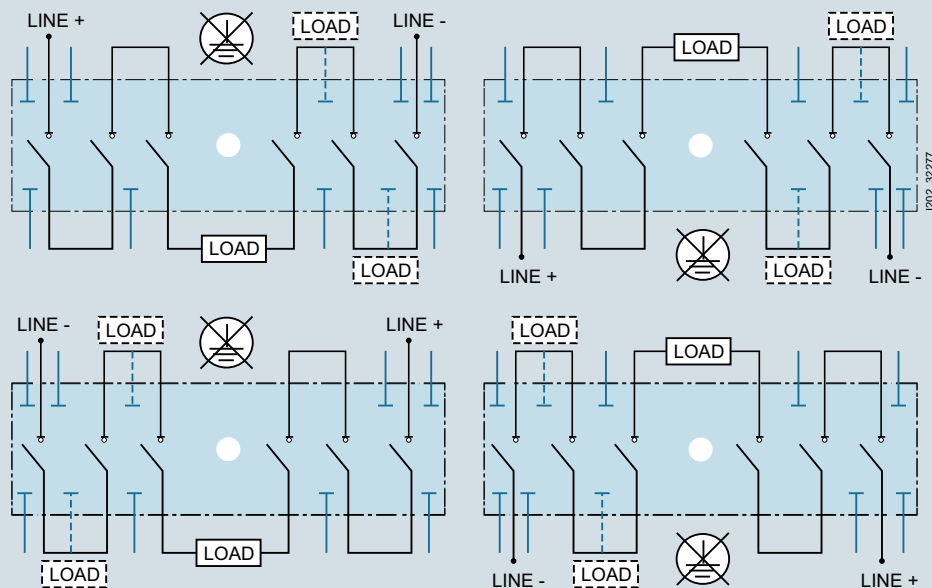
Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

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 7/78](#).

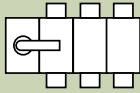
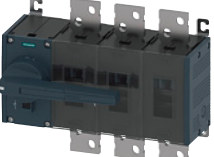
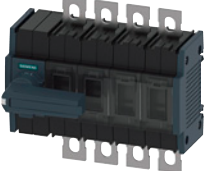
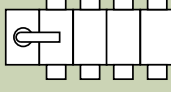
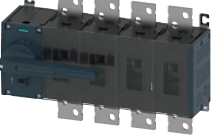
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Complete assemblies

Selection and ordering data

	Rated uninterrupted current I_u A	Size	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Complete assemblies with direct operating mechanism, gray, front operating mechanism								
3-pole								
	Flat terminals¹⁾							
	80	2		3KD2832-0NE10-0		1	1 unit	1CL
	100			3KD3032-0NE10-0		1	1 unit	1CL
	125			3KD3232-0NE10-0		1	1 unit	1CL
	160			3KD3432-0NE10-0		1	1 unit	1CL
	200			3KD3632-0NE10-0		1	1 unit	1CL
	200	3		3KD3632-0PE10-0		1	1 unit	1CL
	250			3KD3832-0PE10-0		1	1 unit	1CL
	315			3KD4032-0PE10-0		1	1 unit	1CL
	400			3KD4232-0PE10-0		1	1 unit	1CL
	500	4		3KD4432-0QE10-0		1	1 unit	1CL
	630			3KD4632-0QE10-0		1	1 unit	1CL
	800			3KD4832-0QE10-0		1	1 unit	1CL
	1000	5		3KD5032-0RE10-0		1	1 unit	1CL
	1250			3KD5232-0RE10-0		1	1 unit	1CL
	1600			3KD5432-0RE10-0		1	1 unit	1CL
	Box terminals							
	16	1		3KD1632-2ME10-0		1	1 unit	1CL
	32			3KD2232-2ME10-0		1	1 unit	1CL
	63			3KD2632-2ME10-0		1	1 unit	1CL
	80	2		3KD2832-2NE10-0		1	1 unit	1CL
	100			3KD3032-2NE10-0		1	1 unit	1CL
	125			3KD3232-2NE10-0		1	1 unit	1CL
	160			3KD3432-2NE10-0		1	1 unit	1CL
4-pole								
	Flat terminals¹⁾							
	80	2		3KD2842-0NE10-0		1	1 unit	1CL
	100			3KD3042-0NE10-0		1	1 unit	1CL
	125			3KD3242-0NE10-0		1	1 unit	1CL
	160			3KD3442-0NE10-0		1	1 unit	1CL
	200			3KD3642-0NE10-0		1	1 unit	1CL
	200	3		3KD3642-0PE10-0		1	1 unit	1CL
	250			3KD3842-0PE10-0		1	1 unit	1CL
	315			3KD4042-0PE10-0		1	1 unit	1CL
	400			3KD4242-0PE10-0		1	1 unit	1CL
	500	4		3KD4442-0QE10-0		1	1 unit	1CL
	630			3KD4642-0QE10-0		1	1 unit	1CL
	800			3KD4842-0QE10-0		1	1 unit	1CL
	1000	5		3KD5042-0RE10-0		1	1 unit	1CL
	1250			3KD5242-0RE10-0		1	1 unit	1CL
	1600			3KD5442-0RE10-0		1	1 unit	1CL
	Box terminals							
	16	1		3KD1642-2ME10-0		1	1 unit	1CL
	32			3KD2242-2ME10-0		1	1 unit	1CL
	63			3KD2642-2ME10-0		1	1 unit	1CL
	80	2		3KD2842-2NE10-0		1	1 unit	1CL
	100			3KD3042-2NE10-0		1	1 unit	1CL
	125			3KD3242-2NE10-0		1	1 unit	1CL
	160			3KD3442-2NE10-0		1	1 unit	1CL

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

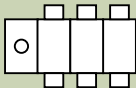
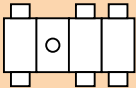
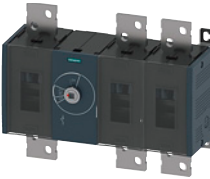
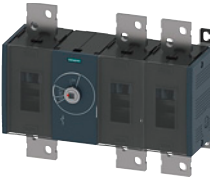
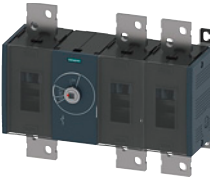
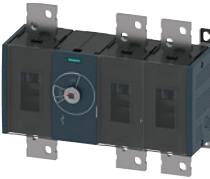
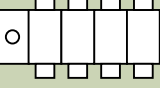
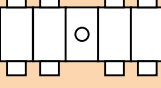
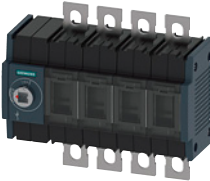
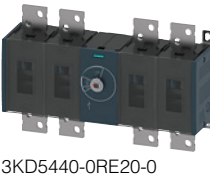
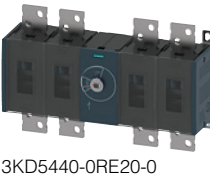
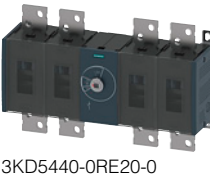
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

Selection and ordering data

		Operating mechanism on left			Operating mechanism in center							
Rated uninterrupted current I_u A	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG		
					d							
Basic units without handle, front operating mechanism												
• The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails. • The basic units without handles are suitable for use with door coupling rotary operating mechanisms or with direct operating mechanisms.												
3-pole												
												
 3KD2830-0NE10-0		2	80	3KD2830-0NE10-0		3KD2830-0NE20-0		1	1 unit	1CL		
 3KD5030-0RE20-0	100		3KD3030-0NE10-0		3KD3030-0NE20-0		1	1 unit	1CL			
	125		3KD3230-0NE10-0		3KD3230-0NE20-0		1	1 unit	1CL			
	160		3KD3430-0NE10-0		3KD3430-0NE20-0		1	1 unit	1CL			
	200		3KD3630-0NE10-0		3KD3630-0NE20-0		1	1 unit	1CL			
	200		3KD3630-0PE10-0		3KD3630-0PE20-0		1	1 unit	1CL			
	250	3KD3830-0PE10-0		3KD3830-0PE20-0		1	1 unit	1CL				
 3KD5030-0RE20-0	315	3	3KD4030-0PE10-0		3KD4030-0PE20-0		1	1 unit	1CL			
	400		3KD4230-0PE10-0		3KD4230-0PE20-0		1	1 unit	1CL			
	500		3KD4430-0QE10-0		3KD4430-0QE20-0		1	1 unit	1CL			
	630		3KD4630-0QE10-0		3KD4630-0QE20-0		1	1 unit	1CL			
	800		3KD4830-0QE10-0		3KD4830-0QE20-0		1	1 unit	1CL			
	1000		3KD5030-0RE10-0		3KD5030-0RE20-0		1	1 unit	1CL			
 3KD5030-0RE20-0	1250	4	3KD5230-0RE10-0		3KD5230-0RE20-0		1	1 unit	1CL			
	1600		3KD5430-0RE10-0		3KD5430-0RE20-0		1	1 unit	1CL			
	Box terminals											
	 3KD2830-2NE10-0		16	1	3KD1630-2ME10-0		3KD1630-2ME20-0		1	1 unit	1CL	
			32		3KD2230-2ME10-0		3KD2230-2ME20-0		1	1 unit	1CL	
			63		3KD2630-2ME10-0		3KD2630-2ME20-0		1	1 unit	1CL	
80		3KD2830-2NE10-0			3KD2830-2NE20-0		1	1 unit	1CL			
100		3KD3030-2NE10-0			3KD3030-2NE20-0		1	1 unit	1CL			
125		3KD3230-2NE10-0			3KD3230-2NE20-0		1	1 unit	1CL			
 3KD5030-0RE20-0	160	2	3KD3430-2NE10-0		3KD3430-2NE20-0		1	1 unit	1CL			
	4-pole											
												
	 3KD2840-0NE10-0		80	2	3KD2840-0NE10-0		3KD2840-0NE20-0		1	1 unit	1CL	
			100		3KD3040-0NE10-0		3KD3040-0NE20-0		1	1 unit	1CL	
			125		3KD3240-0NE10-0		3KD3240-0NE20-0		1	1 unit	1CL	
160		3KD3440-0NE10-0			3KD3440-0NE20-0		1	1 unit	1CL			
200		3KD3640-0NE10-0			3KD3640-0NE20-0		1	1 unit	1CL			
200		3KD3640-0PE10-0			3KD3640-0PE20-0		1	1 unit	1CL			
 3KD5440-0RE20-0	250	3	3KD3840-0PE10-0		3KD3840-0PE20-0		1	1 unit	1CL			
	315		3KD4040-0PE10-0		3KD4040-0PE20-0		1	1 unit	1CL			
	400		3KD4240-0PE10-0		3KD4240-0PE20-0		1	1 unit	1CL			
	500		3KD4440-0QE10-0		3KD4440-0QE20-0		1	1 unit	1CL			
	630		3KD4640-0QE10-0		3KD4640-0QE20-0		1	1 unit	1CL			
	800		3KD4840-0QE10-0		3KD4840-0QE20-0		1	1 unit	1CL			
 3KD5440-0RE20-0	1000	4	3KD5040-0RE10-0		3KD5040-0RE20-0		1	1 unit	1CL			
	1250		3KD5240-0RE10-0		3KD5240-0RE20-0		1	1 unit	1CL			
	1600		3KD5440-0RE10-0		3KD5440-0RE20-0		1	1 unit	1CL			
	Box terminals											
	 3KD2840-2NE10-0		16	1	3KD1640-2ME10-0		3KD1640-2ME20-0		1	1 unit	1CL	
			32		3KD2240-2ME10-0		3KD2240-2ME20-0		1	1 unit	1CL	
63		3KD2640-2ME10-0			3KD2640-2ME20-0		1	1 unit	1CL			
80		3KD2840-2NE10-0			3KD2840-2NE20-0		1	1 unit	1CL			
100		3KD3040-2NE10-0			3KD3040-2NE20-0		1	1 unit	1CL			
125		3KD3240-2NE10-0			3KD3240-2NE20-0		1	1 unit	1CL			
 3KD5440-0RE20-0	160	2	3KD3440-2NE10-0		3KD3440-2NE20-0		1	1 unit	1CL			

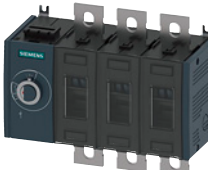
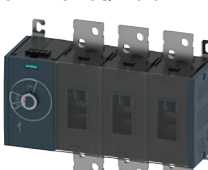
¹⁾ Phase barriers for size 2 included in scope of supply

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

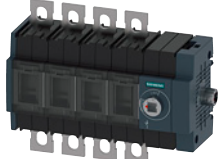
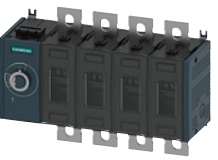
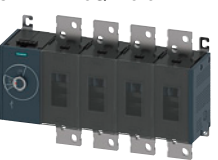
	Rated uninterrupted current I_u	Size	Operating mechanism on left			Operating mechanism on right			PU (UNIT, SET, M)	PS	PG
			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU			
	A		d			d					
Basic units without handle, side operating mechanism											
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
	100	2		3KD3034-0NE10-0			3KD3034-0NE40-0		1	1 unit	1CL
	125	2		3KD3234-0NE10-0			3KD3234-0NE40-0		1	1 unit	1CL
	160	2		3KD3434-0NE10-0			3KD3434-0NE40-0		1	1 unit	1CL
	200	2		3KD3634-0NE10-0			3KD3634-0NE40-0		1	1 unit	1CL
	200	3		3KD3634-0PE10-0			3KD3634-0PE40-0		1	1 unit	1CL
	250	3		3KD3834-0PE10-0			3KD3834-0PE40-0		1	1 unit	1CL
	315	3		3KD4034-0PE10-0			3KD4034-0PE40-0		1	1 unit	1CL
	400	3		3KD4234-0PE10-0			3KD4234-0PE40-0		1	1 unit	1CL
	500	4		3KD4434-0QE10-0			3KD4434-0QE40-0		1	1 unit	1CL
	630	4		3KD4634-0QE10-0			3KD4634-0QE40-0		1	1 unit	1CL
	800	4		3KD4834-0QE10-0			3KD4834-0QE40-0		1	1 unit	1CL
	1000	5		3KD5034-0RE10-0			3KD5034-0RE40-0		1	1 unit	1CL
	1250	5		3KD5234-0RE10-0			3KD5234-0RE40-0		1	1 unit	1CL
	1600	5		3KD5434-0RE10-0			3KD5434-0RE40-0		1	1 unit	1CL
Box terminals											
	16	1		3KD1634-2ME10-0			3KD1634-2ME40-0		1	1 unit	1CL
	32	1		3KD2234-2ME10-0			3KD2234-2ME40-0		1	1 unit	1CL
	63	1		3KD2634-2ME10-0			3KD2634-2ME40-0		1	1 unit	1CL
	80	2		3KD2834-2NE10-0			3KD2834-2NE40-0		1	1 unit	1CL
	100	2		3KD3034-2NE10-0			3KD3034-2NE40-0		1	1 unit	1CL
	125	2		3KD3234-2NE10-0			3KD3234-2NE40-0		1	1 unit	1CL
	160	2		3KD3434-2NE10-0			3KD3434-2NE40-0		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

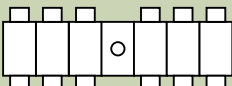
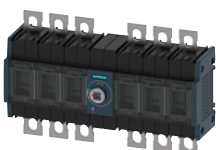
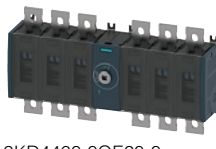
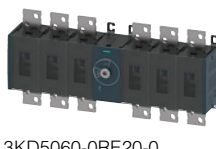
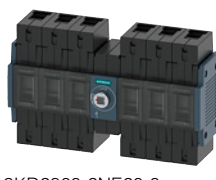
	Rated uninterrupted current I_U	Size	Operating mechanism on left			Operating mechanism on right			PU (UNIT, SET, M)	PS	PG
			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU			
	A		d			d					
Basic units without handle, 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
	100	2		3KD3044-0NE10-0			3KD3044-0NE40-0		1	1 unit	1CL
	125	2		3KD3244-0NE10-0			3KD3244-0NE40-0		1	1 unit	1CL
	160	2		3KD3444-0NE10-0			3KD3444-0NE40-0		1	1 unit	1CL
	200	2		3KD3644-0NE10-0			3KD3644-0NE40-0		1	1 unit	1CL
3KD2844-0NE40-0											
	200	3		3KD3644-0PE10-0			3KD3644-0PE40-0		1	1 unit	1CL
	250	3		3KD3844-0PE10-0			3KD3844-0PE40-0		1	1 unit	1CL
	315	3		3KD4044-0PE10-0			3KD4044-0PE40-0		1	1 unit	1CL
	400	3		3KD4244-0PE10-0			3KD4244-0PE40-0		1	1 unit	1CL
3KD3644-0PE10-0											
	500	4		3KD4444-0QE10-0			3KD4444-0QE40-0		1	1 unit	1CL
	630	4		3KD4644-0QE10-0			3KD4644-0QE40-0		1	1 unit	1CL
	800	4		3KD4844-0QE10-0			3KD4844-0QE40-0		1	1 unit	1CL
3KD4444-0QE40-0											
	1000	5		3KD5044-0RE10-0			3KD5044-0RE40-0		1	1 unit	1CL
	1250	5		3KD5244-0RE10-0			3KD5244-0RE40-0		1	1 unit	1CL
	1600	5		3KD5444-0RE10-0			3KD5444-0RE40-0		1	1 unit	1CL
3KD5044-0RE10-0											
Box terminals											
	16	1		3KD1644-2ME10-0			3KD1644-2ME40-0		1	1 unit	1CL
	32	1		3KD2244-2ME10-0			3KD2244-2ME40-0		1	1 unit	1CL
	63	1		3KD2644-2ME10-0			3KD2644-2ME40-0		1	1 unit	1CL
3KD1644-2ME40-0											
	80	2		3KD2844-2NE10-0			3KD2844-2NE40-0		1	1 unit	1CL
	100	2		3KD3044-2NE10-0			3KD3044-2NE40-0		1	1 unit	1CL
	125	2		3KD3244-2NE10-0			3KD3244-2NE40-0		1	1 unit	1CL
	160	2		3KD3444-2NE10-0			3KD3444-2NE40-0		1	1 unit	1CL
3KD2844-2NE10-0											

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

	Rated uninterrupted current I_u	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
Basic units without handle, front operating mechanism								
	- The switch disconnectors are designed for floor mounting. Sizes 1 and 2 can optionally also be mounted on standard mounting rails. - The basic units without handles are suitable for use with door-coupling rotary operating mechanisms or with direct operating mechanisms.							
	Up to 1200 V DC							
								
 3KD2860-0NE20-0	80	2		3KD2860-0NE20-0		1	1 unit	1CL
	100	2		3KD3060-0NE20-0		1	1 unit	1CL
	125	2		3KD3260-0NE20-0		1	1 unit	1CL
	160	2		3KD3460-0NE20-0		1	1 unit	1CL
 3KD3660-0PE20-0	200	3		3KD3660-0PE20-0		1	1 unit	1CL
	250	3		3KD3860-0PE20-0		1	1 unit	1CL
	315	3		3KD4060-0PE20-0		1	1 unit	1CL
	400	3		3KD4260-0PE20-0		1	1 unit	1CL
 3KD4460-0QE20-0	500	4		3KD4460-0QE20-0		1	1 unit	1CL
	630	4		3KD4660-0QE20-0		1	1 unit	1CL
	800	4		3KD4860-0QE20-0		1	1 unit	1CL
 3KD5060-0RE20-0	1000	5		3KD5060-0RE20-0		1	1 unit	1CL
	1250	5		3KD5260-0RE20-0		1	1 unit	1CL
	1600	5		3KD5460-0RE20-0		1	1 unit	1CL
Box terminals								
 3KD1660-2ME20-0	16	1		3KD1660-2ME20-0		1	1 unit	1CL
	32	1		3KD2260-2ME20-0		1	1 unit	1CL
	63	1		3KD2660-2ME20-0		1	1 unit	1CL
 3KD2860-2NE20-0	80	2		3KD2860-2NE20-0		1	1 unit	1CL
	100	2		3KD3060-2NE20-0		1	1 unit	1CL
	125	2		3KD3260-2NE20-0		1	1 unit	1CL
	160	2		3KD3460-2NE20-0		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Selection and ordering data

Additional poles

	Version	Circuit symbol	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	d					
	4th contact element (switching pole)	N —  N						
	Flat terminals							
	• For size 2; 3KD....-N	--		3KD9205-0		1	1 unit	1CL
	• For size 3; 3KD....-P			3KD9305-0		1	1 unit	1CL
	• For size 4; 3KD....-Q			3KD9405-0		1	1 unit	1CL
	• For size 5; 3KD....-R			3KD9505-0		1	1 unit	1CL
	Box terminals							
	• For size 1; 3KD....-M			3KD9105-2		1	1 unit	1CL
	• For size 2; 3KD....-N			3KD9205-2		1	1 unit	1CL
	Neutral conductor terminals with removable jumper							
	Flat terminals							
	• For size 2; 3KD....-N			3KD9206-0		1	1 unit	1CL
	• For size 3; 3KD....-P			3KD9306-0		1	1 unit	1CL
	• For size 4; 3KD....-Q			3KD9406-0		1	1 unit	1CL
	• For size 5; 3KD....-R			3KD9506-0		1	1 unit	1CL
	Box terminals							
	• For size 1; 3KD....-M			3KD9106-2		1	1 unit	1CL
	• For size 2; 3KD....-N			3KD9206-2		1	1 unit	1CL
	N/PE terminals with permanent jumper							
	Flat terminals							
	• For size 2; 3KD....-N			3KD9206-7		1	1 unit	1CL
	• For size 3; 3KD....-P			3KD9306-7		1	1 unit	1CL
	• For size 4; 3KD....-Q			3KD9406-7		1	1 unit	1CL
	• For size 5; 3KD....-R			3KD9506-7		1	1 unit	1CL
	Box terminals							
	• For size 1; 3KD....-M			3KD9106-8		1	1 unit	1CL
	• For size 2; 3KD....-N			3KD9206-8		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Direct operating mechanisms

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Direct operating mechanisms in standard version and flat version						
 Direct operating mechanism, gray, for size 2	Standard version, labeling Test - 0 - I • Can be locked with up to max. 3 padlocks • Requires additional mounting depth in locked state • Labeling Test - 0 - I Gray • For size 1; 3KD....-M • For size 2; 3KD....-N • For size 3; 3KD....-P • For size 4; 3KD....-Q • For size 5; 3KD....-R					
	3KD9101-1 3KD9201-1 3KD9301-1 3KD9401-1 3KD9501-1					
	1 1 unit 1CL 1 1 unit 1CL 1 1 unit 1CL 1 1 unit 1CL 1 1 unit 1CL					
 Direct operating mechanism, red/yellow, for size 2	Red/yellow • For size 1; 3KD....-M • For size 2; 3KD....-N • For size 3; 3KD....-P • For size 4; 3KD....-Q • For size 5; 3KD....-R					
	3KD9101-2 3KD9201-2 3KD9301-2 3KD9401-2 3KD9501-2					
	1 1 unit 1CL 1 1 unit 1CL 1 1 unit 1CL 1 1 unit 1CL 1 1 unit 1CL					
 Direct operating mechanism, flat version, gray, for size 2	Flat version, labeling Test - 0 - I (suitable for distribution boards) • Can be locked with 1 padlock • No additional mounting depth in locked state • Labeling Test - 0 - I Gray • For size 1; 3KD....-M • For size 2; 3KD....-N					
	3KD9101-0 3KD9201-0					
	1 1 unit 1CL 1 1 unit 1CL					
 Direct operating mechanism, flat version, red/yellow, for size 2	Red/yellow • For size 1; 3KD....-M • For size 2; 3KD....-N					
	3KD9101-8 3KD9201-8					
	1 1 unit 1CL 1 1 unit 1CL					

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm	mm x mm	d					
Door-coupling rotary operating mechanisms, complete, 8UD1 series								
Door-coupling rotary operating mechanism, complete, labeling 0 - I • Handle with masking plate • Coupling driver without tolerance compensation • Shaft 300 mm • Can be locked with up to max. 3 padlocks • Labeling 0 - I				8UD1171-2AD11		1	1 unit	1CL
	Gray For sizes 1/2; 3KD....-M/N	45	8 x 8					
	Red/yellow For sizes 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AD15		1	1 unit	1CL
Door-coupling rotary operating mechanism, complete, labeling Test - 0 - I • Handle with masking plate • Mounting tolerance compensation • Shaft 300 mm • Can be locked with up to max. 3 padlocks • Labeling Test - 0 - I				8UD1171-2AF21 8UD1141-2AF21 8UD1151-3AF21 8UD1161-4AF21		1	1 unit	1CL
	Gray • For sizes 1/2; 3KD....-M/N	45	8 x 8					
	• For size 3; 3KD....-P	100	8 x 8					
	• For size 4; 3KD....-Q	140	10 x 10					
	• For size 5; 3KD....-R	200	12 x 12					
	Red/yellow • For sizes 1/2; 3KD....-M/N	45	8 x 8					
	• For size 3; 3KD....-P	100	8 x 8					
	• For size 4; 3KD....-Q	140	10 x 10					
	• For size 5; 3KD....-R	200	12 x 12					
				8UD1171-2AF25 8UD1141-2AF25 8UD1151-3AF25 8UD1161-4AF25		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Version	Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm	mm x mm	d					
Handles for door-coupling rotary operating mechanisms, 8UD1 series								
Handles without extension shaft and coupling driver, labeling 0 - I								
• With masking plate • Can be locked with up to max. 3 padlocks • Labeling 0 - I								
Gray								
 Handle without extension shaft, gray, for sizes 1/2	• For sizes 1/2; 3KD.....M/N	45	8 x 8	8UD1771-2AD01		1	1 unit	1CL
	• For size 3; 3KD.....P	100	8 x 8	8UD1841-2AD01		1	1 unit	1CL
	• For size 4; 3KD.....Q	140	10 x 10	8UD1851-3AD01		1	1 unit	1CL
	• For size 5; 3KD.....R	200	12 x 12	8UD1861-4AD01		1	1 unit	1CL
Red/yellow								
 Handle without extension shaft, red/yellow, for sizes 1/2	• For sizes 1/2; 3KD.....M/N	45	8 x 8	8UD1771-2AD05		1	1 unit	1CL
	• For size 3; 3KD.....P	100	8 x 8	8UD1841-2AD05		1	1 unit	1CL
	• For size 4; 3KD.....Q	140	10 x 10	8UD1851-3AD05		1	1 unit	1CL
	• For size 5; 3KD.....R	200	12 x 12	8UD1861-4AD05		1	1 unit	1CL
Handles without extension shaft and coupling driver, labeling Test - 0 - I								
• With masking plate • Can be locked with up to max. 3 padlocks • Labeling Test - 0 - I								
Gray								
 Handle without extension shaft, gray, for sizes 1/2	• For sizes 1/2; 3KD.....M/N	45	8 x 8	8UD1771-2AF01		1	1 unit	1CL
	• For size 3; 3KD.....P	100	8 x 8	8UD1841-2AF01		1	1 unit	1CL
	• For size 4; 3KD.....Q	140	10 x 10	8UD1851-3AF01		1	1 unit	1CL
	• For size 5; 3KD.....R	200	12 x 12	8UD1861-4AF01		1	1 unit	1CL
Red/yellow								
 Handle without extension shaft, red/yellow, for sizes 1/2	• For sizes 1/2; 3KD.....M/N	45	8 x 8	8UD1771-2AF05		1	1 unit	1CL
	• For size 3; 3KD.....P	100	8 x 8	8UD1841-2AF05		1	1 unit	1CL
	• For size 4; 3KD.....Q	140	10 x 10	8UD1851-3AF05		1	1 unit	1CL
	• For size 5; 3KD.....R	200	12 x 12	8UD1861-4AF05		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

	Version	Handle length	Shaft size	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm x mm	d					
 Handle without extension shaft, gray, for sizes 1/2	Handles, illuminated, without extension shaft and coupling driver, labeling 0 - I • With masking plate • Illuminated • Can be locked with up to max. 3 padlocks • Labeling 0 - I Gray								
	• For sizes 1/2; 3KD....-M/N	45	8 x 8		8UD1771-2CD01		1	1 unit	1CL
	• For size 3; 3KD....-P	100	8 x 8		8UD1841-2CD01		1	1 unit	1CL
	• For size 4; 3KD....-Q	140	10 x 10		8UD1851-3CD01		1	1 unit	1CL
	• For size 5; 3KD....-R	200	12 x 12		8UD1861-4CD01		1	1 unit	1CL
 Handle without extension shaft, red/yellow, for sizes 1/2	Red/yellow • For sizes 1/2; 3KD....-M/N	45	8 x 8		8UD1771-2CD05		1	1 unit	1CL
	• For size 3; 3KD....-P	100	8 x 8		8UD1841-2CD05		1	1 unit	1CL
	• For size 4; 3KD....-Q	140	10 x 10		8UD1851-3CD05		1	1 unit	1CL
	• For size 5; 3KD....-R	200	12 x 12		8UD1861-4CD05		1	1 unit	1CL

Handles, illuminated, without extension shaft and coupling driver, labeling Test - 0 - I

- With masking plate
- Illuminated
- Can be locked with up to max. 3 padlocks
- Labeling Test - 0 - I

Gray

- For sizes 1/2; 3KD....-M/N 45 | 8 x 8 | | **8UD1771-2CF01** | | 1 | 1 unit | 1CL |- For size 3; 3KD....-P 100 | 8 x 8 | | **8UD1841-2CF01** | | 1 | 1 unit | 1CL |- For size 4; 3KD....-Q 140 | 10 x 10 | | **8UD1851-3CF01** | | 1 | 1 unit | 1CL |- For size 5; 3KD....-R 200 | 12 x 12 | | **8UD1861-4CF01** | | 1 | 1 unit | 1CL |



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

Red/yellow

- For sizes 1/2; 3KD....-M/N 45 | 8 x 8 | | **8UD1771-2CF05** | | 1 | 1 unit | 1CL |- For size 3; 3KD....-P 100 | 8 x 8 | | **8UD1841-2CF05** | | 1 | 1 unit | 1CL |- For size 4; 3KD....-Q 140 | 10 x 10 | | **8UD1851-3CF05** | | 1 | 1 unit | 1CL |- For size 5; 3KD....-R 200 | 12 x 12 | | **8UD1861-4CF05** | | 1 | 1 unit | 1CL |



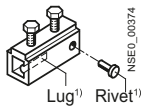
Handle without extension shaft, red/yellow, for sizes 1/2

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Version	Handle length	Shaft size	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm	mm x mm	d					
Other accessories for door-coupling rotary operating mechanisms, 8UD1 series								
Extension shafts								
	300 mm long							
	• For sizes 1/2/3, 3KD....-M/N/P	--	8 x 8	8UC6032		1	1 unit	1CL
	• For size 4; 3KD....-Q	--	10 x 10	8UC6033		1	1 unit	1CL
	• For size 5; 3KD....-R	--	12 x 12	8UC6034		1	1 unit	1CL
600 mm long								
	A shaft jack is required for the 8UD handle when the 600 mm long shaft is used and for sizes 1/2.							
	• For sizes 1/2/3, 3KD....-M/N/P	--	8 x 8	8UC6082		1	1 unit	1CL
	• For size 4; 3KD....-Q	--	10 x 10	8UC6083		1	1 unit	1CL
	• For size 5; 3KD....-R	--	12 x 12	8UC6084		1	1 unit	1CL
Shaft jack for 8UD handle for shaft, 600 mm NEW								
	For sizes 1/2, 3KD....-M/N	--	8 x 8	8UD1900-0FA00		1	1 unit	1CL
Coupling drivers with tolerance compensation								
	• For sizes 1/2, 3KD....-M/N	--	8 x 8	8UD1900-2GA00		1	1 unit	1CB
	• For size 3; 3KD....-P		8 x 8	8UD1900-6GA00		1	1 unit	1CL
	• For size 4; 3KD....-Q		10 x 10	8UD1900-3GA00		1	1 unit	1CL
	• For size 5; 3KD....-R		12 x 12	8UD1900-4GA00		1	1 unit	1CL
Coupling drivers without tolerance compensation								
	• For sizes 1/2, 3KD....-M/N	--	8 x 8	8UD1900-2HA00		1	1 unit	1CB
	• For size 3; 3KD....-P		8 x 8	8UD1900-6HA00		1	1 unit	1CL
	• For size 4; 3KD....-Q		10 x 10	8UD1900-3HA00		1	1 unit	1CL
	• For size 5; 3KD....-R		12 x 12	8UD1900-4HA00		1	1 unit	1CL
Shaft couplings								
	• For sizes 1/2/3, 3KD....-M/N/P	--	8 x 8	8UC6022		1	1 unit	1CL
	• For size 4; 3KD....-Q	--	10 x 10	8UC6023		1	1 unit	1CL
	• For size 5; 3KD....-R	--	12 x 12	8UC6024		1	1 unit	1CL

8UC6021 to 8UC6024

¹⁾ Non-interchangeability features.

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

	Version	Shaft size handle end ¹⁾	Shaft size switch end ¹⁾	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm x mm	mm x mm	d					
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.									
 Door-coupling rotary operating mechanism, gray, for sizes 1/2	Gray								
	• For size 1; 3KD....-M	8 x 8	8 x 8		3KD9115-1		1	1 unit	1CL
	• For size 2; 3KD....-N	8 x 8	8 x 8		3KD9215-1		1	1 unit	1CL
	• For size 3; 3KD....-P	10 x 10	8 x 8		3KD9315-1		1	1 unit	1CL
	• For size 4; 3KD....-Q	10 x 10	10 x 10		3KD9415-1		1	1 unit	1CL
	• For size 5; 3KD....-R	12 x 12	12 x 12		3KD9515-1		1	1 unit	1CL
 Door-coupling rotary operating mechanism, red/yellow, for sizes 1/2	Red/yellow								
	• For size 1; 3KD....-M	8 x 8	8 x 8		3KD9115-2		1	1 unit	1CL
	• For size 2; 3KD....-N	8 x 8	8 x 8		3KD9215-2		1	1 unit	1CL
	• For size 3; 3KD....-P	10 x 10	8 x 8		3KD9315-2		1	1 unit	1CL
	• For size 4; 3KD....-Q	10 x 10	10 x 10		3KD9415-2		1	1 unit	1CL
	• For size 5; 3KD....-R	12 x 12	12 x 12		3KD9515-2		1	1 unit	1CL
Handles for door-coupling rotary operating mechanisms, 8UC/3KD9 series									
Handles without extension shaft and coupling driver									
 Handle without extension shaft, gray, for sizes 1/2	Gray								
	• For size 1; 3KD....-M	8 x 8	--		3KD9115-3		1	1 unit	1CL
	• For size 2; 3KD....-N	8 x 8	--		3KD9215-3		1	1 unit	1CL
	• For size 3; 3KD....-P	10 x 10	--		3KD9315-3		1	1 unit	1CL
	• For size 4; 3KD....-Q	10 x 10	--		3KD9415-3		1	1 unit	1CL
	• For size 5; 3KD....-R	12 x 12	--		3KD9515-3		1	1 unit	1CL
 Handle without extension shaft, red/yellow, for sizes 1/2	Red/yellow								
	• For size 1; 3KD....-M	8 x 8	--		3KD9115-4		1	1 unit	1CL
	• For size 2; 3KD....-N	8 x 8	--		3KD9215-4		1	1 unit	1CL
	• For size 3; 3KD....-P	10 x 10	--		3KD9315-4		1	1 unit	1CL
	• For size 4; 3KD....-Q	10 x 10	--		3KD9415-4		1	1 unit	1CL
	• For size 5; 3KD....-R	12 x 12	--		3KD9515-4		1	1 unit	1CL

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

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Version	Shaft size handle end ¹⁾	Shaft size switch end ¹⁾	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm x mm	mm x mm	d					

Other accessories for door-coupling rotary operating mechanisms, 8UC/3KD9 series

Extension shafts

300 mm long

- For sizes 1/2, 3KD....-M/N 8 x 8 8 x 8
- For size 3; 3KD....-P 10 x 10 8 x 8
- For size 4; 3KD....-Q 10 x 10 10 x 10
- For size 5; 3KD....-R 12 x 12 12 x 12

8UC6032	1	1 unit	1CL
3KD9302-0	1	1 unit	1CL
8UC6033	1	1 unit	1CL
8UC6034	1	1 unit	1CL



600 mm long

- For sizes 1/2, 3KD....-M/N 8 x 8 8 x 8
- For size 3; 3KD....-P 10 x 10 8 x 8
- For size 4; 3KD....-Q 10 x 10 10 x 10
- For size 5; 3KD....-R 12 x 12 12 x 12

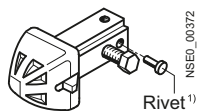
8UC6082	1	1 unit	1CL
3KD9302-1	1	1 unit	1CL
8UC6083	1	1 unit	1CL
8UC6084	1	1 unit	1CL



Coupling drivers

- For 8 x 8 mm shafts
- For 10 x 10 mm shafts
- For 12 x 12 mm shafts

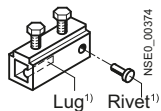
8UC6017-2AA	1	1 unit	1CL
8UC6013	1	1 unit	1CL
8UC6014	1	1 unit	1CL



Shaft couplings

- For 8 x 8 mm shafts
- For 10 x 10 mm shafts
- For 12 x 12 mm shafts

8UC6022	1	1 unit	1CL
8UC6023	1	1 unit	1CL
8UC6024	1	1 unit	1CL



¹⁾ Non-interchangeability features.

Auxiliary switches

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Auxiliary switch modules for sizes 1 and 2

Unit is supplied without auxiliary switches, a maximum of 2 auxiliary switches can be installed.

- Standard version
- Version with test function
- Version with leading NO contact + test function

3KD9103-5	1	1 unit	1CL
3KD9103-6	1	1 unit	1CL
3KD9103-7	1	1 unit	1CL

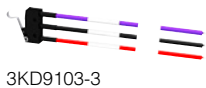


Auxiliary switches for sizes 1 and 2

With soldered-on 50 cm connecting cables

- 1 CO contact
- 1 CO contact, solid-state compatible

3KD9103-1	1	1 unit	1CL
3KD9103-3	1	1 unit	1CL

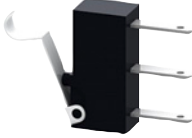


Switch Disconnectors

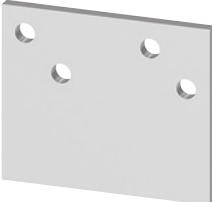
Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
	Auxiliary switches for sizes 1 and 2 Without soldered-on connecting cables • 1 CO • 1 CO contact, solid-state compatible		3KD9103-2 3KD9103-4		1	1 unit	1CL
					1	1 unit	1CL
	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 • 1 NO • 1 NO with gold-plated contacts • 1 NC • 1 NC with gold-plated contacts • 1 NO + 1 NC • 1 NO + 1 NC with gold-plated contacts • 2 NO • 2 NO with gold-plated contacts • 2 NC • 2 NC with gold-plated contacts		▶ 3SB3400-0B 3SB3400-0BA ▶ 3SB3400-0C 3SB3400-0CA ▶ 3SB3400-0A 3SB3400-0AA 3SB3400-0D 3SB3400-0DA 3SB3400-0E 3SB3400-0EA		1	1 unit	41J
					1	1 unit	41J
					1	1 unit	41J
					1	1 unit	41J

Accessories for DC applications

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

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Other accessories

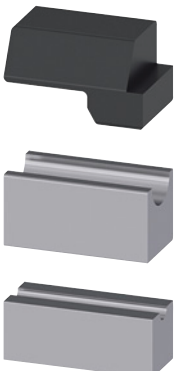
Version	For size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							
Phase barriers							
For 3KD with flat terminals							
For 3-pole devices (6 units)							
	2; 3KD.....N		3KD9108-6		1	1 unit	1CL
	3; 3KD.....P		3KD9308-6		1	1 unit	1CL
	4; 3KD.....Q		3KD9408-6		1	1 unit	1CL
	5; 3KD.....R		3KD9508-6		1	1 unit	1CL
For 4-pole devices (8 units)							
	2; 3KD.....N		3KD9108-8		1	1 unit	1CL
	3; 3KD.....P		3KD9308-8		1	1 unit	1CL
	4; 3KD.....Q		3KD9408-8		1	1 unit	1CL
	5; 3KD.....R		3KD9508-8		1	1 unit	1CL
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
	3; 3KD.....P		3KD9304-6		1	1 unit	1CL
	4; 3KD.....Q		3KD9404-6		1	1 unit	1CL
	5; 3KD.....R		3KD9504-6		1	1 unit	1CL
Short version							
	2; 3KD.....N		3KD9204-7		1	1 unit	1CL
	3; 3KD.....P		3KD9304-7		1	1 unit	1CL
	4; 3KD.....Q		3KD9404-7		1	1 unit	1CL
For 4-pole devices (8 units)							
Standard length							
	2; 3KD.....N		3KD9204-8		1	1 unit	1CL
	3; 3KD.....P		3KD9304-8		1	1 unit	1CL
	4; 3KD.....Q		3KD9404-8		1	1 unit	1CL
	5; 3KD.....R		3KD9504-8		1	1 unit	1CL
Short version							
	2; 3KD.....N		3KD9204-5		1	1 unit	1CL
	3; 3KD.....P		3KD9304-5		1	1 unit	1CL
	4; 3KD.....Q		3KD9404-5		1	1 unit	1CL
Spare cable connection cover (1 unit)							
Standard length							
	5; 3KD.....R		3KD9504-1		1	1 unit	1CL
Short version							
	2; 3KD.....N		3KD9204-1		1	1 unit	1CL
	3; 3KD.....P		3KD9304-1		1	1 unit	1CL
	4; 3KD.....Q		3KD9404-1		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Version	For size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Blocking pin test function							
 Enables permanent deactivation of the test function for auxiliary switches; it is installed in the operating mechanism module of the 3KD switch disconnector Scope of supply: Blocking pins for 10 3KD switch disconnectors							
		1 and 2	3KF9112-1AA00		1	1 unit	1DL
		3 and 4	3KF9412-1AA00		1	1 unit	1DL
		5	3KF9512-1AA00		1	1 unit	1DL

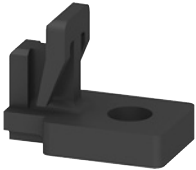
Switch Disconnectors

Fuseless Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Spare parts

Version	For size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Mounting brackets (4 units)							
Mounting brackets Spare part, is included in the scope of supply of the 3KD.							
	1 and 2		3KD9120-1		1	1 unit	1CL
	3		3KF9212-0AA00		1	1 unit	1DL
	4		3KF9412-0AA00		1	1 unit	1DL
	5		3KF9512-0AA00		1	1 unit	1DL
Slide for mounting on a standard mounting rail							
	1 and 2		3KF9112-0BA00		1	1 unit	1DL
Spare part, is included in the scope of supply of the 3KD. Contains 5 parts							

Switch Disconnectors

Fuseless Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

Introduction

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					UL 508 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	100	125	160	200
			415 V	A	100	125	160	200
			500 V	A	100	125	160	200
			690 V	A	100	125	160	200
Rated operational current I_e With utilization category AC-22A	Per conduct. path	At $U_e =$	400 V	A	100	125	160	200
			415 V	A	100	125	160	200
			500 V	A	100	100	160	200
			690 V	A	63	63	160	200
Rated operational current I_e With utilization category AC-23A	Per conduct. path	At $U_e =$	400 V	A	80		125	160
			415 V	A	80		125	160
			500 V	A	50		125	125
			690 V	A	40		63	80
Rated operational current I_e With utilization category DC-23A	2 poles in series		110 V	A	100		160	
			220 V	A	--		100	
			220 V	A	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	44		69	88
			415 V	kW	46		72	92
			500 V	kW	35		86	86
			690 V	kW	36		60	76
Thermal rated 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 making capacity I_{cm}	Per conduct. path	At $U_e =$	400 V	kA	10			
			415 V	kA	10			
			500 V	kA	6.7			
			690 V	kA	6.7			
Rated short-time withstand current I_{cw} (peak value)	Per conduct. path		0.25 s	kA	5		6	
			1 s	kA	2.5		3	
Rated conditional short-circuit current With back-up protection with back-up fuse With identical rated current		At $U_e =$	400 V	kA	50			
			415 V	kA	50			
			500 V	kA	50			
			690 V	kA	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				mm ²	6 ... 50		--	
• AWG cables				AWG	10 ... 1/0		8	
• Copper busbars				mm ²	--		max. 20 x 6	
Service life	Electrical		Switching cycles	1500		1000		
	Mechanical			20000		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			

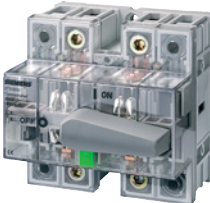
Switch Disconnectors

Fuseless Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

Selection and ordering data

Version	I_e	U_e	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A AC	V AC	MW	d					
 Switch disconnectors, lockable, with gray knob and transparent enclosure, mounting depth 92 mm									
2 NO	100	690	5		5TE1210		1	1 unit	1BK
	125		5TE1220		1		1 unit	1BK	
	160		8		5TE1230		1	1 unit	1BK
	200				5TE1240		1	1 unit	1BK
3 NO	100	690	5		5TE1310		1	1 unit	1BK
	125		5TE1320		1		1 unit	1BK	
	160		8		5TE1330		1	1 unit	1BK
	200				5TE1340		1	1 unit	1BK
4 NO	100	690	5		5TE1410		1	1 unit	1BK
	125		5TE1420		1		1 unit	1BK	
	160		8		5TE1430		1	1 unit	1BK
	200				5TE1440		1	1 unit	1BK
3 NO with N-conductor through-type terminal									
	100	690	5		5TE1610		1	1 unit	1BK
	125		5TE1620		1		1 unit	1BK	
	160		8		5TE1630		1	1 unit	1BK
	200				5TE1640		1	1 unit	1BK
 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									
3 NO	100	690	5		5TE1315		1	1 unit	1BK
	125		5TE1325		1		1 unit	1BK	
	160		8		5TE1335		1	1 unit	1BK
	200				5TE1345		1	1 unit	1BK
4 NO	100	690	5		5TE1415		1	1 unit	1BK
	125		5TE1425		1		1 unit	1BK	
	160		8		5TE1435		1	1 unit	1BK
	200				5TE1445		1	1 unit	1BK

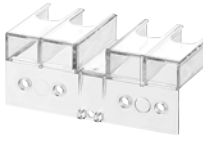
Switch Disconnectors

Fuseless Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

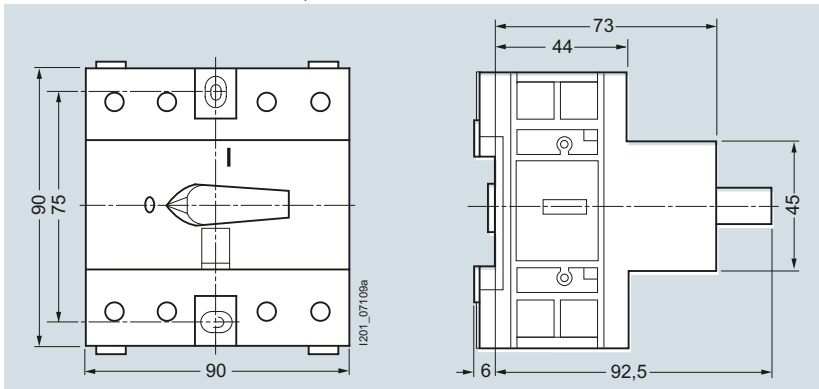
General data

Accessories

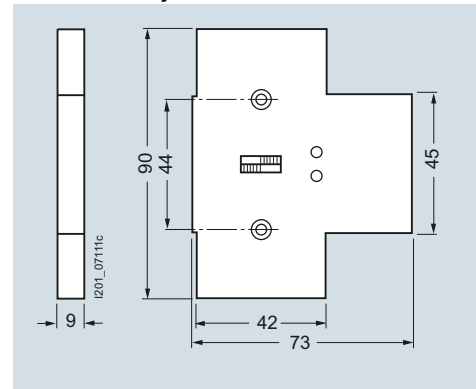
	Version	I_e	U_e	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A AC	V AC	d					
 5TE9000  5TE9001	Terminal covers Sealable For 100 A and 125 A switch disconnectors For 160 A and 200 A switch disconnectors				5TE9000 5TE9001		1 1	1 unit 1 unit	1BK 1BK
 5TE9003 5TE9004	Cage terminals For 160 A and 200 A switch disconnectors, 14.5 mm terminal diameter for 35 mm ² cables, hexagonal socket head screw 5 mm 1 set = 3 units 1 set = 4 units				5TE9003 5TE9004		1 1	1 set 1 set	1BK 1BK
 5TE9005 5TE9006	Auxiliary switches Can be mounted optionally left or right or both sides (2 units); minimum contact load 24 V, 50 mA 1 CO 2 CO				5TE9005 5TE9006		1 1	1 unit 1 unit	1BK 1BK
 5TE9014	Locking units For up to three padlocks with max. Ø 8 mm				5TE9014		1	1 unit	1BK
 5TE9015	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				5TE9015		1	1 set	1BK
 5TE9010  5TE9012 5TE9013	Rotary operating mechanisms with extension shafts for mounting on hinged doors or enclosure lids, lockable, IP65 Black knob Shaft length 200 mm Shaft length 400 mm Red knob Shaft length 200 mm Shaft length 400 mm				5TE9010 5TE9011 5TE9012 5TE9013		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BK 1BK 1BK 1BK

Switch Disconnectors

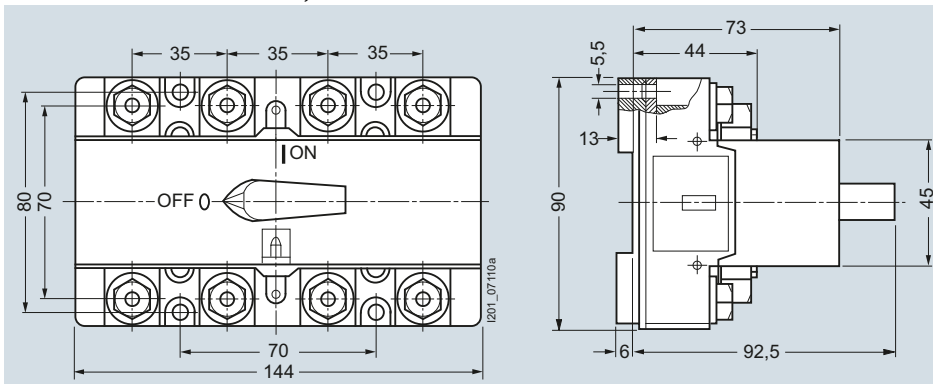
Fuseless Switch Disconnectors
5TE1 Switch Disconnectors up to 200 A

General data**Dimensional drawings****5TE1 switch disconnectors, 100 A and 125 A**

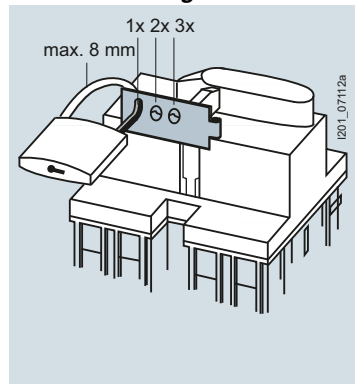
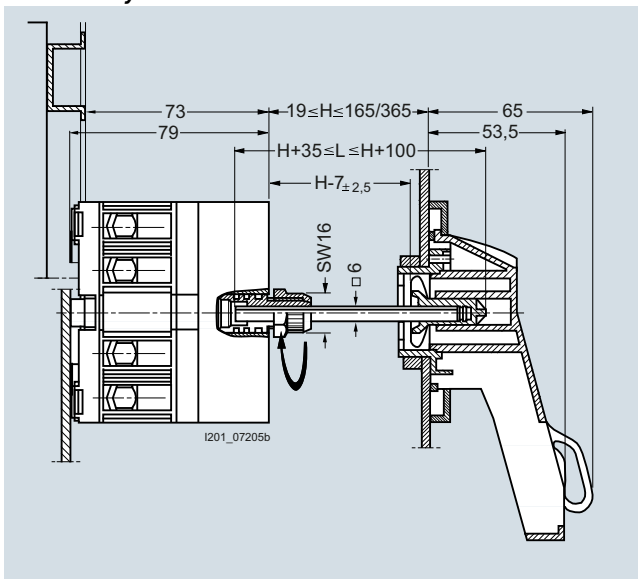
5TE1210	5TE1310	5TE1410	5TE1610
5TE1220	5TE1315	5TE1415	5TE1620
	5TE1320	5TE1420	
	5TE1325	5TE1425	

5TE9 auxiliary switches

5TE9005
5TE9006

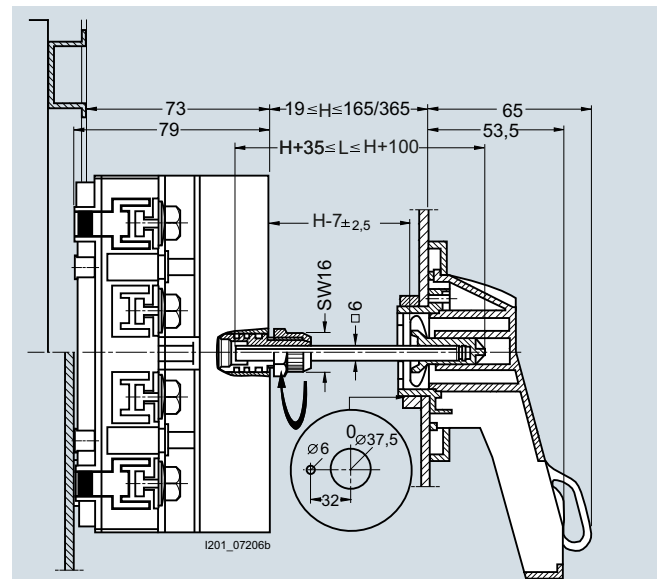
5TE1 switch disconnectors, 160 A and 200 A

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.

Switch Disconnectors

Fuseless Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

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



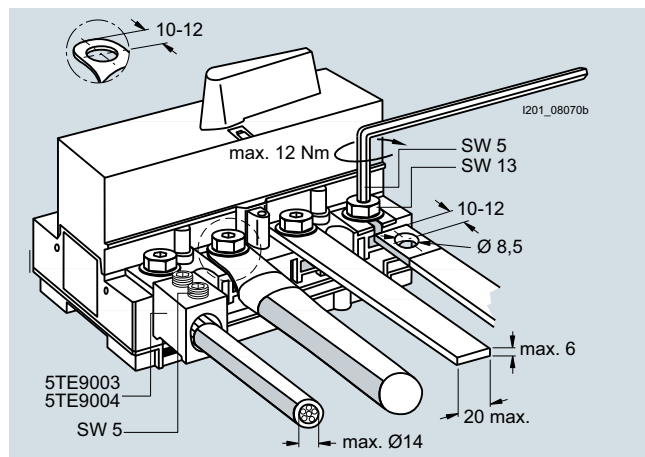
5TE9005



5TE9006

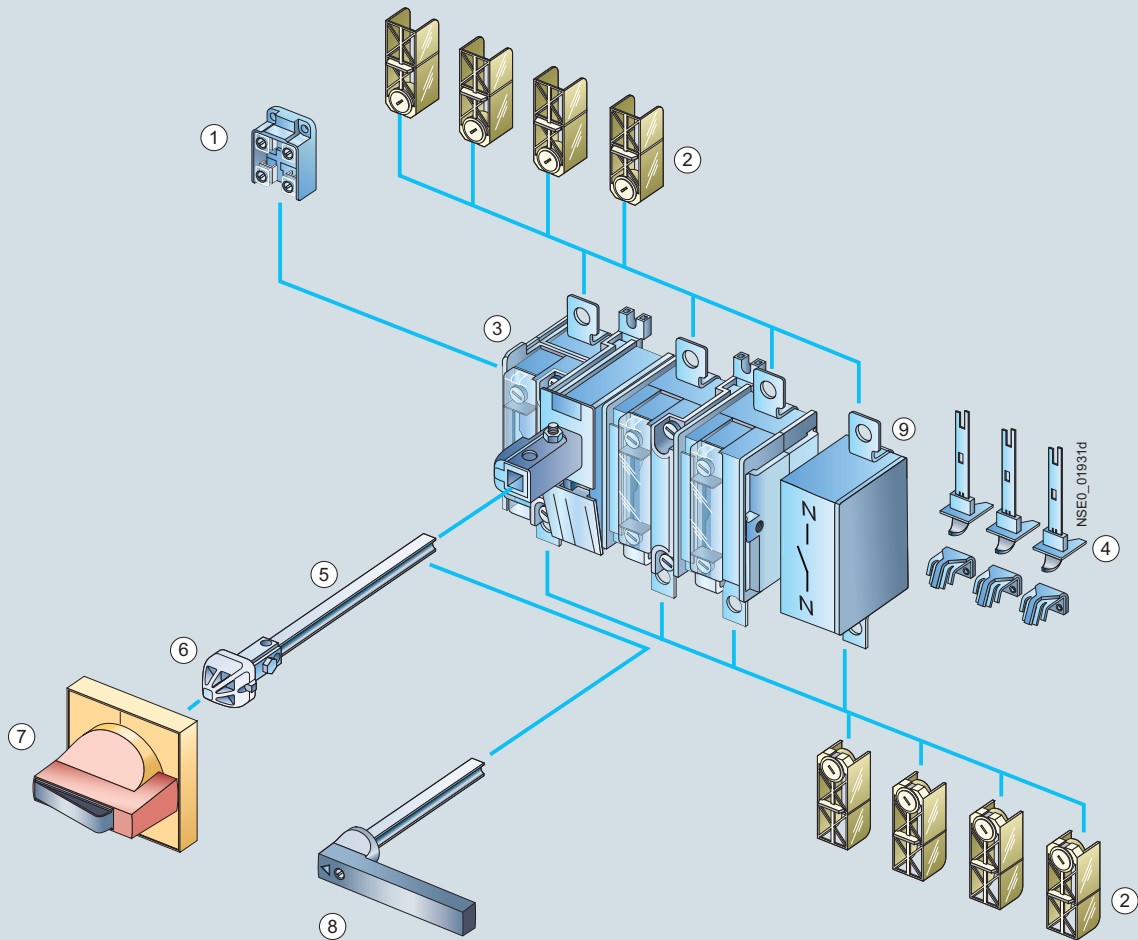
More information

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

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 3 and 4-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.

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Introduction

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_o								
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 with upstream fuses ⁴⁾	kA	220	220	220	220	176	176	105
At 50/60 Hz, 690 V AC, peak value								
Rated conditional short-circuit current with upstream fuses ⁴⁾	kA	100	100	100	100	80	80	50
At 50/60 Hz AC, 690 V, rms value								
Max. rated current I_n of 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 ultimate short-circuit making capacity I_{cm} without fuses	kA	7	7	7	9	20	25	35
At 50/60 Hz, 690 V AC, peak value								
Breaking capacity (infeed from the top or bottom)								
At 400 V AC								
• Breaking current I_C (at p.f. = 0.35, rms value)	A	500	650	1000	1280	2000	3200	5040
• Rated operational current I_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 at DC-23A	A	63	63	125	160	250 ⁹⁾	400	400
Rated short-time current I_{cw} (1 s current, rms value)	kA	2.5	2.5	3.2	3.2	8	11	15
Permissible ambient temperature	°C	-25 ... +55 for operation ³⁾						
	°C	-50 ... +80 during storage						
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 at I_{th}	W	7	12	22	22	33	72	170
Main conductor connections								
Busbar systems, max. dimensions (W x T)	mm	25 x 9	25 x 9	45 x 10	45 x 10	40 x 12	40 x 12	40 x 15
Cable lug, max. conductor cross-section (stranded)	mm ²	35	35	70	120	150	2 x 150 or 1 x 240	2 x 240
Tightening torque	Nm	6 ... 7.5	6 ... 7.5	7 ... 10	18 ... 22	35 ... 45	35 ... 45	35 ... 45
Terminal screws		M6	M6	M6	M8	M10	M10	M10
Protective conductor connections								
Flat bars	mm	--	--	--	--	20 x 2.5	20 x 2.5	20 x 2.5
Cable lug, max. conductor cross-section (stranded)	mm ²	--	--	--	--	70	120	120

1) Technical specifications for approval on request.

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

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

4) Only available with fuses 3NA3 8, 3NA3 2 or 3ND1 8, 3ND1 2 (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

Fuseless 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 AC, 690 V (peak value)	kA	35	35	60	60
Rated short-circuit making capacity with upstream fuses At 50/60 Hz AC, 690 V (peak value)	kA	105	105	105	84
Rated conditional short-circuit current with upstream fuses At 50/60 Hz AC, 690 V (rms value)	kA	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 AC, 690 V (peak value)	kA	35	35	60	60
Max. rated current I_n of 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 during storage			
Mechanical endurance , operating cycles		10 000			
Degree of protection		IP00			
Power loss of the switch at I_{th}	W	15	33	78	180
Main conductor connections					
Busbar systems, max. dimensions (W x T)	mm	25 x 10	25 x 10	2 x 40 x 10	2 x 40 x 10
Cable lug, max. conductor cross-section (stranded)	mm ²	2 x 150	2 x 150, 1 x 240	2 x 240	2 x 240

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Application

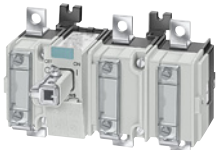
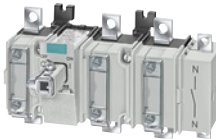
3KA switch disconnectors are implemented as main control switches and EMERGENCY-STOP switches for operational switching and isolation of main circuits and auxiliary circuits. Another field of application is the switching of three-phase motors and other loads in the event of maintenance and repair.

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 delivery.

	Rated uninterrupted current I_u	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	A	d					
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
	80		3KA5130-1GE01		1	1 unit	1CL
	125		3KA5230-1GE01		1	1 unit	1CL
	160		3KA5330-1GE01		1	1 unit	1CL
	250		3KA5530-1GE01		1	1 unit	1CL
	400		3KA5730-1GE01		1	1 unit	1CL
	630		3KA5830-1GE01		1	1 unit	1CL
4-pole¹⁾ for power distribution							
	63		3KA5040-1GE01		1	1 unit	1CL
	80		3KA5140-1GE01		1	1 unit	1CL
	125		3KA5240-1GE01		1	1 unit	1CL
	160		3KA5340-1GE01		1	1 unit	1CL
	250		3KA5540-1GE01		1	1 unit	1CL
	400		3KA5740-1GE01		1	1 unit	1CL
	630		3KA5840-1GE01		1	1 unit	1CL
Basic switch versions without handle							
3-pole for motor loads and for power distribution							
	63		3KA5030-1AE01		1	1 unit	1CL
	80		3KA5130-1AE01		1	1 unit	1CL
	125		3KA5230-1AE01		1	1 unit	1CL
	160		3KA5330-1AE01		1	1 unit	1CL
	250		3KA5530-1AE01		1	1 unit	1CL
	400		3KA5730-1AE01		1	1 unit	1CL
3KA5330-1AE01	630		3KA5830-1AE01		1	1 unit	1CL
4-pole¹⁾ for power distribution							
	63		3KA5040-1AE01		1	1 unit	1CL
	80		3KA5140-1AE01		1	1 unit	1CL
	125		3KA5240-1AE01		1	1 unit	1CL
	160		3KA5340-1AE01		1	1 unit	1CL
	250		3KA5540-1AE01		1	1 unit	1CL
	400		3KA5740-1AE01		1	1 unit	1CL
3KA5340-1AE01	630		3KA5840-1AE01		1	1 unit	1CL
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanism (red handle, yellow indicator plate) for basic switch versions without handle							
3-pole for motor loads and for power distribution							
	63		8UC7121-3BB10		1	1 unit	1CL
	80		8UC7121-3BB10		1	1 unit	1CL
	125		8UC7222-3BB20		1	1 unit	1CL
	160		8UC7222-3BB20		1	1 unit	1CL
	250		8UC7323-3BB30		1	1 unit	1CL
	400		8UC7323-3BB30		1	1 unit	1CL
8UC7121-3BB10	630		8UC7323-3BB30		1	1 unit	1CL
4-pole¹⁾ for power distribution							
	63		8UC7222-3BB20		1	1 unit	1CL
	80		8UC7222-3BB20		1	1 unit	1CL
	125		8UC7222-3BB20		1	1 unit	1CL
	160		8UC7222-3BB20		1	1 unit	1CL
	250		8UC7323-3BB30		1	1 unit	1CL
	400		8UC7323-3BB30		1	1 unit	1CL
	630		8UC7323-3BB30		1	1 unit	1CL

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 7/95](#)

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u		SD	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 Article No. www.siemens.com/product?Article No.	PU (UNIT, SET, M)	PS	PG
A		d	Price per PU			
Black handle						
	63		3KX3516-2AA	1	1 unit	1CL
	80		3KX3516-2AA	1	1 unit	1CL
	125		3KX3536-2AA	1	1 unit	1CL
	160		3KX3536-2AA	1	1 unit	1CL
	250		3KX3556-2AA	1	1 unit	1CL
	400		3KX3556-2AA	1	1 unit	1CL
	630		3KX3556-2AA	1	1 unit	1CL
EMERGENCY-STOP red handle						
	63		3KX3516-2BA	1	1 unit	1CL
	80		3KX3516-2BA	1	1 unit	1CL
	125		3KX3536-2BA	1	1 unit	1CL
	160		3KX3536-2BA	1	1 unit	1CL
	250		3KX3556-2BA	1	1 unit	1CL
	400		3KX3556-2BA	1	1 unit	1CL
	630		3KX3556-2BA	1	1 unit	1CL

3KA5330-1AE01 with
3KX3536-2AA

Switch Disconnectors

Fuseless Switch Disconnectors

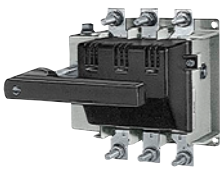
3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

All switch disconnectors with degree of protection IP00

With high speed closing and opening

The conductor connecting screws are generally included in the scope of supply.

	Rated uninterrupted current I_u	SD	3-pole, operating mechanism and actuation from the front Direct operating mechanisms	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Complete versions with black handle						
	250		3KE4230-0BA	1	1 unit	1CL
	400		3KE4330-0BA	1	1 unit	1CL
	630		3KE4430-0BA	1	1 unit	1CL
	1000		3KE4530-0BA	1	1 unit	1CL
Basic switch versions without handle						
	250		3KE4230-0AA	1	1 unit	1CL
	400		3KE4330-0AA	1	1 unit	1CL
	630		3KE4430-0AA	1	1 unit	1CL
	1000		3KE4530-0AA	1	1 unit	1CL
EMERGENCY-STOP red handles + coupling sockets for basic switch versions without handle						
	250		8UC9371 + 3KX2210-0H	1	1 unit	1CL
	400		8UC9371 + 3KX2210-0H	1	1 unit	1CL
	630		8UC9375 + 3KX2210-0H	1	1 unit	1CL
	1000		8UC9375 + 3KX2210-0H	1	1 unit	1CL
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)						
	250		3KE4230-0GA	1	1 unit	1CL
	400		3KE4330-0GA	1	1 unit	1CL
	630		3KE4430-0GA	1	1 unit	1CL
	1000		3KE4530-0GA	1	1 unit	1CL
Basic switch versions without handle						
	250		3KE4230-0AA	1	1 unit	1CL
	400		3KE4330-0AA	1	1 unit	1CL
	630		3KE4430-0AA	1	1 unit	1CL
	1000		3KE4530-0AA	1	1 unit	1CL
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

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	SD	3-pole, rear operating mechanisms and actuation	PU (UNIT, SET, M)	PS	PG
A	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Basic switch versions without handle					
Direct operating mechanisms					
250		3KE4230-0CA	1	1 unit	1CL
400		3KE4330-0CA	1	1 unit	1CL
630		3KE4430-0CA	1	1 unit	1CL
1000		3KE4530-0CA	1	1 unit	1CL
Direct operating mechanisms (lockable)					
250		3KE4230-0CA	1	1 unit	1CL
400		3KE4330-0CA	1	1 unit	1CL
630		3KE4430-0CA	1	1 unit	1CL
1000		3KE4530-0CA	1	1 unit	1CL
Handles (black) + masking plates + display plates (silver) for basic switch versions without handle					
Direct operating mechanisms					
250		8UC9370	1	1 unit	1CL
		+ 8UB9530	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
400		8UC9370	1	1 unit	1CL
		+ 8UB9530	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
630		8UC9374	1	1 unit	1CL
		+ 8UB9530	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
1000		8UC9374	1	1 unit	1CL
		+ 8UB9530	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
Direct operating mechanisms (lockable)					
250		8UC9370	1	1 unit	1CL
		+ 8UC9563	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
400		8UC9370	1	1 unit	1CL
		+ 8UC9563	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
630		8UC9374	1	1 unit	1CL
		+ 8UC9563	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL
1000		8UC9374	1	1 unit	1CL
		+ 8UC9563	1	1 unit	1CL
		+ 8UC9631-0B	1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	SD	3-pole, rear operating mechanisms and actuation	PU (UNIT, SET, M)	PS	PG
A	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
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
400		8UC9371 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL
630		8UC9375 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL
1000		8UC9375 + 8UB9530 + 8UC9633-0B	1	1 unit	1CL
Direct operating mechanisms (lockable)					
250		8UC9371 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL
400		8UC9371 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL
630		8UC9375 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL
1000		8UC9375 + 8UC9563 + 8UC9633-0B	1	1 unit	1CL
3-pole, rear rotary operating mechanisms (lockable)					
Door-coupling rotary operating mechanisms (lockable)					
250		3KE4230-0CA	1	1 unit	1CL
400		3KE4330-0CA	1	1 unit	1CL
630		3KE4430-0CA	1	1 unit	1CL
1000		3KE4530-0CA	1	1 unit	1CL
8UC7 door-coupling rotary operating mechanisms (black handle) for basic switch versions without handle					
250, 400, 630, 1000		8UC7314-1BB44	1	1 unit	1CL
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

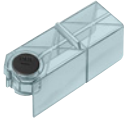
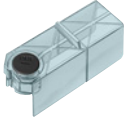
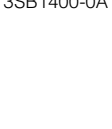
Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Selection and ordering data

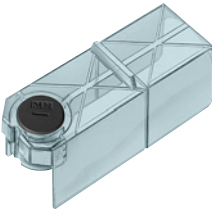
	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
3KA50 30/3KA51 30							
	Terminal covers						
	For 3-pole devices (1 set = 6 units)	►	3KX3552-3DA01		1	1 unit	1CL
	For 4-pole devices (1 set = 8 units)		3KX3552-3DB01		1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65						
	Black handle, shaft 300 mm		8UC7111-1BB10		1	1 unit	1CL
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7121-3BB10		1	1 unit	1CL
	Operating mechanisms for fixed mounting	►	3KX3516-1AA		1	1 unit	1CL
	Black handle, shaft 250 mm						
	Extension shaft 300 mm long		8UC6031		1	1 unit	1CL
	Extension shaft 600 mm long		8UC6081		1	1 unit	1CL
	Shaft connecting pieces		8UC6021		1	1 unit	1CL
	Auxiliary switches						
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J
3KA50 40/3KA51 40/3KA52/3KA53							
	Terminal covers						
	For 3-pole 3KA52 devices (1 set = 6 units)	►	3KX3552-3DA01		1	1 unit	1CL
	For 3KA53	►	3KX3553-3DA01		1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65						
	Black handle, shaft 300 mm		8UC7212-1BB20		1	1 unit	1CL
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7222-3BB20		1	1 unit	1CL
	Operating mechanisms for fixed mounting	►	3KX3536-1AA		1	1 unit	1CL
	Black handle, shaft 250 mm						
	Extension shaft 300 mm long		8UC6032		1	1 unit	1CL
	Extension shaft 600 mm long		8UC6082		1	1 unit	1CL
	Shaft connecting pieces		8UC6022		1	1 unit	1CL
	Auxiliary switches						
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J
	1 NO + 1 NC, 20 ms leading		3KX3552-3EA01		1	1 unit	1CL
3KA55/3KA57/3KA58							
	Terminal covers						
	For 3-pole devices (1 set = 6 units)	►	3KX3557-3DA01		1	1 unit	1CL
	For 4-pole devices (1 set = 8 units)		3KX3557-3DB01		1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65						
	Black handle, shaft 300 mm		8UC7313-1BB30		1	1 unit	1CL
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7323-3BB30		1	1 unit	1CL
	Operating mechanisms for fixed mounting	►	3KX3176-1E		1	1 unit	1CL
	Black handle, shaft 250 mm						
	Extension shaft 300 mm long		8UC6033		1	1 unit	1CL
	Extension shaft 600 mm long		8UC6083		1	1 unit	1CL
	Shaft connecting pieces		8UC6023		1	1 unit	1CL
	Auxiliary switches						
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J
	1 NO + 1 NC, 20 ms leading		3KX3552-3EA01		1	1 unit	1CL

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
3KE42/3KE43						
	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
	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
	Direct operating mechanisms					
	Handle (black) for fixed mounting		8UC9381	1	1 unit	1CL
	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
	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	
Direct operating mechanisms						
Handle (black) for fixed mounting		8UC9381	1	1 unit	1CL	
Parallel switches						
Switch I ON – Switch II ON Switch I OFF – Switch II OFF		3KX2250-1A	1	1 unit	1CL	
Door-coupling rotary operating mechanisms IP65						
Handle (black), shaft 300 mm		8UC7414-1BB44	1	1 unit	1CL	
EMERGENCY-STOP door-coupling rotary operating mechanisms IP65						
Handle (red), shaft 300 mm		8UC7424-3BB44	1	1 unit	1CL	
Direct operating mechanisms						
Handle (black) for fixed mounting		8UC9381	1	1 unit	1CL	
	Further accessories					
	Terminal covers (1 set = 6 units)		▶ 3KX3557-3DA01	1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65					
	Black handle, shaft 300 mm		8UC7314-1BB44	1	1 unit	1CL
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7324-3BB44	1	1 unit	1CL
	Extension shaft 300 mm long		8UC6034	1	1 unit	1CL
	Extension shaft 600 mm long		8UC6084	1	1 unit	1CL
	Auxiliary switches with switching cam 1 NO + 1 NC (complete mounting kit)		3KX2231-1A	1	1 unit	1CL
	Grounding brackets		3KX2252-1A	1	1 unit	1CL
	Arc chutes (spare part with 3 arc-splitter assemblies)		3KY2202-0B	1	1 unit	1CL
	Arcing contacts (spare part with 3 fixed and 3 movable contacts)		3KY2204-0A	1	1 unit	1CL

3KX2210-0D

3KX3557-3DA01

3KX2231-1A

3KY2204-0A

Switch Disconnectors

Fuseless Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
3KE44/3KE45						
 3KX2210-0D	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
	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
	Direct operating mechanisms Handle (black) for fixed mounting		8UC9381	1	1 unit	1CL
	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
	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
	Direct operating mechanisms Handle (black) for fixed mounting		8UC9381	1	1 unit	1CL
	Parallel switches Switch I ON – Switch II ON Switch I OFF – Switch II OFF		3KX2250-1A	1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65 Handle (black), shaft 300 mm		8UC7414-1BB44	1	1 unit	1CL
	EMERGENCY-STOP door-coupling rotary operating mechanisms IP65 Handle (red), shaft 300 mm		8UC7424-3BB44	1	1 unit	1CL
 3KX2231-1A	Direct operating mechanisms Handle (black) for fixed mounting		8UC9381	1	1 unit	1CL
	Further accessories					
	Terminal covers (top and bottom)		3KX2252-0C	1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7314-1BB44 8UC7324-3BB44	1 1	1 unit 1 unit	1CL 1CL
	Extension shaft 300 mm long		8UC6034	1	1 unit	1CL
	Extension shaft 600 mm long		8UC6084	1	1 unit	1CL
	Auxiliary switches 1 NO + 1 NC (complete mounting kit)		3KX2231-1A	1	1 unit	1CL
	Grounding brackets		3KX2252-1A	1	1 unit	1CL
	Arc chutes (spare part with 3 arc-splitter assemblies)		3KY2232-0A	1	1 unit	1CL
	Arcing contacts Spare part with 3 fixed and 3 movable contacts		3KY2234-0A	1	1 unit	1CL
 3KY2232-0A						

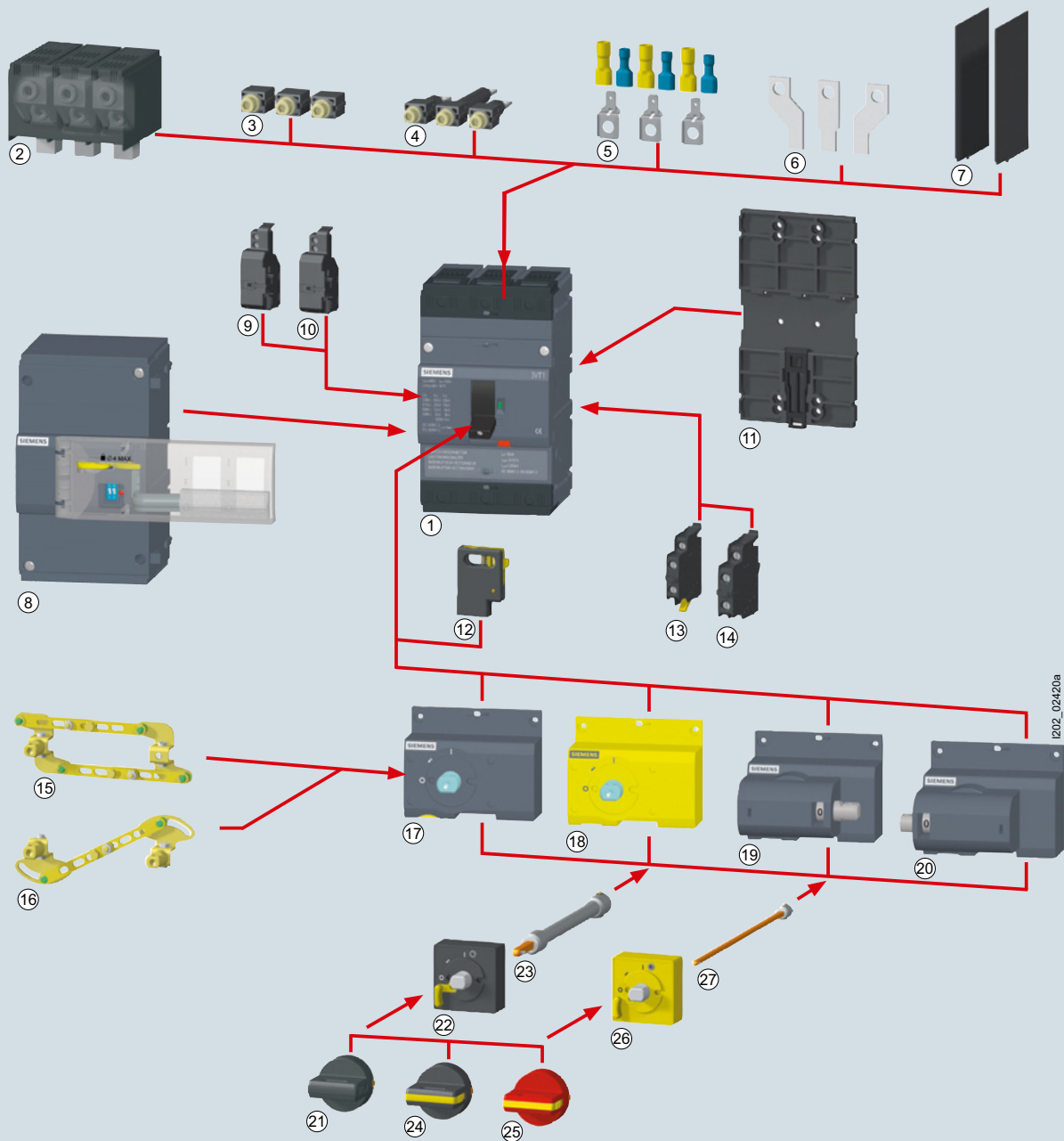
Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

Introduction

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 |

1202_02420a

Switch Disconnectors

Fuseless 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 locking device type 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

	Type	3VT1	3VT2	3VT3	3VT4	3VT5
Standards		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 AC-23B DC-22A DC-23B				
Rated operational voltage U_e	V	690 440 (3 conducting paths series-connected)				
Rated short-time withstand current I_{cw}	kA _{rms}	2/1 s	3/5 s	7.5/5 s	15/1 s	20/1 s
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
Service life						
• 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

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
3VT1 switch disconnectors							
	3-pole	160	3VT1716-2DE36-0AA0		1	1 unit	1CC
	4-pole	160	3VT1716-2EE46-0AA0		1	1 unit	1CC

Accessories

Auxiliary switches and auxiliary releases

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

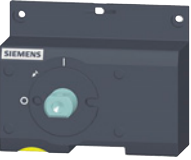
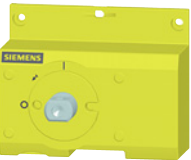
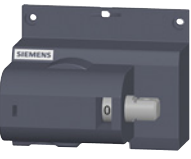
Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Manual operating mechanisms

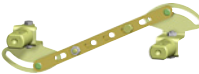
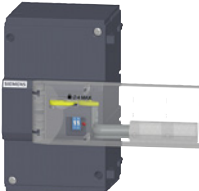
Version	Color	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Rotary operating mechanisms							
Manual rotary operating mechanisms							
	• Not lockable	Gray	3VT9100-3HA10		1	1 unit	1CC
	• Lockable with padlock	Gray	3VT9100-3HA20		1	1 unit	1CC
	• Lockable with padlock	Yellow	3VT9100-3HB20		1	1 unit	1CC
	• For lateral operation, mounted on left side, not lockable	Gray	3VT9100-3HC10		1	1 unit	1CC
	• For lateral operation, mounted on right side, not lockable	Gray	3VT9100-3HD10		1	1 unit	1CC
Handle for manual rotary operating mechanisms							
	• Not lockable	Black	3VT9100-3HE10		1	1 unit	1CC
	• Lockable with padlock	Black	3VT9100-3HE20		1	1 unit	1CC
	• Lockable with padlock	Red	3VT9100-3HF20		1	1 unit	1CC
Masking plates for door-coupling rotary operating mechanism, defeatable							
For use with black handle 3VT9100-3HE..							
	• Degree of protection IP40	Black	3VT9100-3HG10		1	1 unit	1CC
	• Degree of protection IP66	Black	3VT9100-3HG20		1	1 unit	1CC
For use with red handle 3VT9100-3HF20							
	• Degree of protection IP40	Yellow	3VT9100-3HH10		1	1 unit	1CC
	• Degree of protection IP66	Yellow	3VT9100-3HH20		1	1 unit	1CC

Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Version	Color	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
			d					
Extension shafts Length 361 mm, can be shortened 			3VT9100-3HJ10		1	1 unit	1CC	
Length 215 ... 363 mm, extendable 			3VT9100-3HJ20		1	1 unit	1CC	
Mechanical interlocks								
 Mechanical interlocks			3VT9100-8LA00		1	1 unit	1CC	
Mechanical link for paralleling								
 Mechanical link for paralleling			3VT9100-8LB00		1	1 unit	1CC	
Motorized operating mechanisms								
Rated operational voltage U_s		Frequency	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V		Hz	d					
Motorized operating mechanisms, lateral mounting								
 With locking mechanism for 3 padlocks								
24 AC/DC		50/60		3VT9100-3MA00		1	1 unit	1CC
48 AC/DC		50/60		3VT9100-3MB00		1	1 unit	1CC
110 AC/DC		50/60		3VT9100-3MD00		1	1 unit	1CC
230 AC/220 DC		50/60		3VT9100-3ME00		1	1 unit	1CC
Accessories for motorized operating mechanisms								
 Extension cables for motorized operating mechanism 12 cables, length 60 cm			3VT9100-3MF00		1	1 unit	1CC	

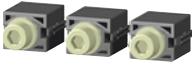
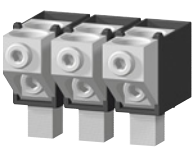
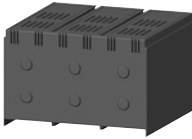
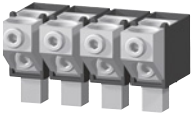
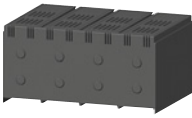
Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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
	Front terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs		3VT9100-4TA30		1	1 unit	1CC
	Rear terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs		3VT9100-4RC30		1	1 unit	1CC
 	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
 	Auxiliary conductor terminals (1 set = 3 units)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors		3VT9100-4TN30		1	1 unit	1CC
4-pole									
	Front terminals For 4 th pole (for use with 3VT9100-4TA30 connection method) (1 set = 1 unit)	--	Al/Cu busbars, cable lugs		3VT9100-4TA00		1	1 unit	1CC
	Rear terminals For 4 th pole (for use with 3VT9100-4RC30 connection method) (1 set = 1 unit)	--	Al/Cu busbars, cable lugs		3VT9100-4RC00		1	1 unit	1CC
 	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
 	Auxiliary conductor terminals For 4 th 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

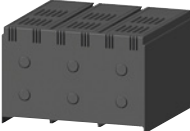
Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Further accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
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 3VT9100-8CE30)					
	3VT9100-8CE30 3VT9100-8CE00		1 1	1 unit 1 unit	1CC 1CC	
	Terminal covers, degree of protection IP20 Increases degree of protection of connection point to IP20, e.g. when used with cable lugs. • 3-pole version • 4-pole version					
	3VT9100-8CA30 3VT9100-8CA40		1 1	1 unit 1 unit	1CC 1CC	
	Locking devices for toggle levers • 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.					
	3VT9100-3HL00		1	1 unit	1CC	
Mounting adapters						
	3/4-pole version Mounting adapters for mounting on a 35 mm standard mounting rail					
	3VT9100-4PP30		1	1 unit	1CC	

Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
3VT2 switch disconnectors							
	3-pole	250	3VT2725-2DE36-0AA0		1	1 unit	1CC
	4-pole	250	3VT2725-2EE46-0AA0		1	1 unit	1CC

Accessories

Auxiliary switches and auxiliary releases

Rated operational voltage U_s	Frequency	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V	Hz	d					
Auxiliary switches and alarm switches							
	With NO contact (1 NO)						
	60 ... 500 AC/DC	50/60	3VT9300-2AC10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AC20		1	1 unit	1CC
	With NC contact (1 NC)						
	60 ... 500 AC/DC	50/60	3VT9300-2AD10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AD20		1	1 unit	1CC
	With double contact (2 NC)						
	60 ... 500 AC/DC	50/60	3VT9300-2AE10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AE20		1	1 unit	1CC
	With double contact (1 NO and 1 NC)						
	60 ... 500 AC/DC	50/60	3VT9300-2AF10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AF20		1	1 unit	1CC
	With double contact (2 NO)						
	60 ... 500 AC/DC	50/60	3VT9300-2AG10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AG20		1	1 unit	1CC
	Changeover contact (1 CO)						
	60 ... 250 AC/DC	50/60	3VT9300-2AH10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AH20		1	1 unit	1CC
	Leading contacts Leading against the main contacts when switching off (70 ... 150 ms)						
	250 AC	50/60	3VT9300-2AJ00		1	1 unit	1CC

Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

	Rated operational voltage U_s	Frequency	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	V	Hz	d					
Shunt releases								
	12 DC	--		3VT9300-1SB00		1	1 unit	1CC
	24, 40, 48 AC/DC	50/60		3VT9300-1SC00		1	1 unit	1CC
	110 AC/DC	50/60		3VT9300-1SD00		1	1 unit	1CC
	230, 400, 500 AC/220 DC	50/60		3VT9300-1SE00		1	1 unit	1CC
Undervoltage releases								
	24, 40, 48 AC/DC	50/60		3VT9300-1UC00		1	1 unit	1CC
	110 AC/DC	50/60		3VT9300-1UD00		1	1 unit	1CC
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE00		1	1 unit	1CC
	With leading contact							
	- Leading against the main contacts when switching on (70 ... 150 ms) - Not suitable for 3VT9200-3M..0 motorized operating mechanism							
	24, 40, 48 AC/DC	50/60		3VT9300-1UC10		1	1 unit	1CC
	110 AC/DC	50/60		3VT9300-1UD10		1	1 unit	1CC
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE10		1	1 unit	1CC

Manual operating mechanisms

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

Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Version	Color	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							
Masking plates for door-coupling rotary operating mechanism							
	For use with black handle 3VT9300-3HE..						
	• Degree of protection IP40	Black	3VT9300-3HG10		1	1 unit	1CC
	• Degree of protection IP66	Black	3VT9300-3HG20		1	1 unit	1CC
	For use with red handle 3VT9300-3HF20						
	• Degree of protection IP40	Yellow	3VT9300-3HH10		1	1 unit	1CC
	• Degree of protection IP66	Yellow	3VT9300-3HH20		1	1 unit	1CC
Masking plates for door-coupling rotary operating mechanism, defeatable							
	For use with black handle 3VT9300-3HE..						
	• Degree of protection IP40	Black	3VT9300-3HG30		1	1 unit	1CC
	For use with red handle 3VT9300-3HF20						
	• Degree of protection IP40	Yellow	3VT9300-3HH30		1	1 unit	1CC
Extension shafts							
	• Length 365 mm, can be shortened		3VT9300-3HJ10		1	1 unit	1CC
	• Length 252 ... 416 mm, extendable		3VT9300-3HJ20		1	1 unit	1CC

Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V	Hz	d					

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
48 AC/DC	50/60		3VT9200-3ML00		1	1 unit	1CC
110 AC/DC	50/60		3VT9200-3MN00		1	1 unit	1CC
230 AC/220 DC	50/60		3VT9200-3MQ00		1	1 unit	1CC

**Motorized operating mechanism with
operating cycle counter**

24 AC/DC	50/60		3VT9200-3MJ10		1	1 unit	1CC
48 AC/DC	50/60		3VT9200-3ML10		1	1 unit	1CC
110 AC/DC	50/60		3VT9200-3MN10		1	1 unit	1CC
230 AC/220 DC	50/60		3VT9200-3MQ10		1	1 unit	1CC

Accessories for motorized operating mechanisms



Operating cycle counter with cable
Length 110 cm

3VT9300-3MF10	1	1 unit	1CC
----------------------	---	--------	-----



Extension cables for motorized operating mechanism
12 cables, length 60 cm

3VT9300-3MF00	1	1 unit	1CC
----------------------	---	--------	-----

Mounting accessories

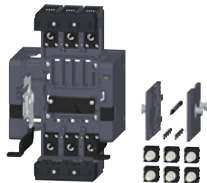
Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Plug-in base assembly kits



3-pole		3VT9200-4PA30		1	1 unit	1CC
4-pole		3VT9200-4PA40		1	1 unit	1CC

Withdrawable unit kits



3-pole		3VT9200-4WA30		1	1 unit	1CC
4-pole		3VT9200-4WA40		1	1 unit	1CC

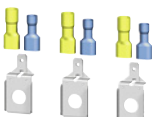
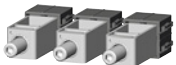
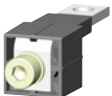
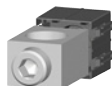
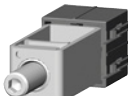
Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Connection accessories

	Version	Conductor cross-sections	Connection type	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm ²		d					
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
	For increased pole spacing, long (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars		3VT9200-4EE30		1	1 unit	1CC
	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
	Rear terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs		3VT9200-4RC30		1	1 unit	1CC
Multiple feed-in terminals¹⁾									
	For 1 cable	1 x 25 ... 150	Cu/Al cables		3VT9215-4TD30		1	1 unit	1CC
	(1 set = 3 units)	1 x 150 ... 240	Cu/Al cables		3VT9224-4TD30		1	1 unit	1CC
	For 2 cables	2 x 25 ... 150	Cu/Al cables		3VT9215-4TF30		1	1 unit	1CC
	(1 set = 3 units)	2 x 150 ... 240	Cu/Al cables		3VT9224-4TF30		1	1 unit	1CC
	For 6 cables (1 set = 3 units)	6 x 6 ... 35	Cu/Al cables		3VT9203-4TF30		1	1 unit	1CC
	Auxiliary conductor terminals (1 set = 3 units)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors		3VT9200-4TN30		1	1 unit	1CC
	Box terminals (1 set = 3 units)	16 ... 150	Cu cables, flexibars		3VT9200-4TC30		1	1 unit	1CC
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
Multiple feed-in terminals for the 4th pole									
	Use with 3VT9215-4TD30 or 3VT9224-4TD30 connection method, for 1 cable	1 x 25 ... 150 1 x 150 ... 240	Cu/Al cables Cu/Al cables		3VT9215-4TD00 3VT9224-4TD00		1 1	1 unit 1 unit	1CC 1CC
	(1 set = 1 unit)								
	Use with 3VT9215-4TF30 or 3VT9224-4TF30 connection method, for 2 cables	2 x 25 ... 150 2 x 150 ... 240	Cu/Al cables Cu/Al cables		3VT9215-4TF00 3VT9224-4TF00		1 1	1 unit 1 unit	1CC 1CC
	(1 set = 1 unit)								
	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
	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

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

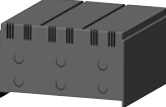
Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Further accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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		1	1 unit	1CC
		3VT9300-8CE00		1	1 unit	1CC
	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		1	1 unit	1CC
		3VT9200-8CB40		1	1 unit	1CC
	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
	Sealing devices Sealing for: - Overcurrent releases - Accessory compartment covers - Terminal covers - Manual operating mechanisms - Motorized operating mechanisms					
		3VT9200-8BN00		1	2 units	1CC
	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
	Position signaling switches For indicating the position of the switch disconnector in plug-in or withdrawable devices					
		3VT9300-4WL00		1	1 unit	1CC
	Coding sets Prevents use of the wrong switching unit in plug-in or withdrawable devices					
		3VT9200-4WN00		1	1 unit	1CC
	Covers for pushbuttons For motorized operating mechanisms; the cover may be equipped with a sealing device.					
		3VT9300-3MF20		1	1 unit	1CC

Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
3VT3 switch disconnectors							
	3-pole	630	3VT3763-2DE36-0AA0		1	1 unit	1CC
	4-pole	630	3VT3763-2EE46-0AA0		1	1 unit	1CC

Accessories

Auxiliary switches and auxiliary releases

Rated operational voltage U_s	Frequency	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V	Hz	d					
Auxiliary switches and alarm switches							
	With NO contact (1 NO)						
	60 ... 500 AC/DC	50/60	3VT9300-2AC10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AC20		1	1 unit	1CC
	With NC contact (1 NC)						
	60 ... 500 AC/DC	50/60	3VT9300-2AD10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AD20		1	1 unit	1CC
	With double contact (2 NC)						
	60 ... 500 AC/DC	50/60	3VT9300-2AE10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AE20		1	1 unit	1CC
	With double contact (1 NO + 1 NC)						
	60 ... 500 AC/DC	50/60	3VT9300-2AF10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AF20		1	1 unit	1CC
	With double contact (2 NO)						
	60 ... 500 AC/DC	50/60	3VT9300-2AG10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AG20		1	1 unit	1CC
	Changeover contact (1 CO)						
	60 ... 250 AC/DC	50/60	3VT9300-2AH10		1	1 unit	1CC
	5 ... 60 AC/DC	50/60	3VT9300-2AH20		1	1 unit	1CC
	Leading contacts Leading against the main contacts when switching off (70 ... 150 ms)						
	250 AC	50/60	3VT9300-2AJ00		1	1 unit	1CC

Switch Disconnectors

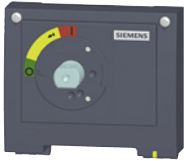
Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

	Rated operational voltage U_s	Frequency	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	V	Hz	d					
Shunt releases								
	12 DC	--		3VT9300-1SB00		1	1 unit	1CC
	24, 40, 48 AC/DC	50/60		3VT9300-1SC00		1	1 unit	1CC
	110 AC/DC	50/60		3VT9300-1SD00		1	1 unit	1CC
	230, 400, 500 AC/220 DC	50/60		3VT9300-1SE00		1	1 unit	1CC
Undervoltage releases								
	24, 40, 48 AC/DC	50/60		3VT9300-1UC00		1	1 unit	1CC
	110 AC/DC	50/60		3VT9300-1UD00		1	1 unit	1CC
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE00		1	1 unit	1CC
	With leading contact							
	- Leading against the main contacts when switching on (70 ... 150 ms) - Not suitable for 3VT9200-3M..0 motorized operating mechanism							
	24, 40, 48 AC/DC	50/60		3VT9300-1UC10		1	1 unit	1CC
	110 AC/DC	50/60		3VT9300-1UD10		1	1 unit	1CC
	230, 400, 500 AC/220 DC	50/60		3VT9300-1UE10		1	1 unit	1CC

Manual operating mechanisms

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

Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Version	Color	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							
Masking plates for door-coupling rotary operating mechanism							
	For use with black handle 3VT9300-3HE...						
	• Degree of protection IP40	Black	3VT9300-3HG10		1	1 unit	1CC
	• Degree of protection IP66	Black	3VT9300-3HG20		1	1 unit	1CC
	For use with red handle 3VT9300-3HF20						
	• Degree of protection IP40	Yellow	3VT9300-3HH10		1	1 unit	1CC
	• Degree of protection IP66	Yellow	3VT9300-3HH20		1	1 unit	1CC
Masking plates for door-coupling rotary operating mechanism, defeatable							
	For use with black handle 3VT9300-3HE..						
	• Degree of protection IP40	Black	3VT9300-3HG30		1	1 unit	1CC
	For use with red handle 3VT9300-3HF20						
	• Degree of protection IP40	Yellow	3VT9300-3HH30		1	1 unit	1CC
Extension shafts							
	• Length 365 mm, can be shortened		3VT9300-3HJ10		1	1 unit	1CC
	• Length 252 ... 416 mm, extendable		3VT9300-3HJ20		1	1 unit	1CC

Switch Disconnectors

Fuseless 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)	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V	Hz	d					

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
48 V AC/DC	50/60		3VT9300-3ML00		1	1 unit	1CC
110 V AC/DC	50/60		3VT9300-3MN00		1	1 unit	1CC
230 V AC/220 V DC	50/60		3VT9300-3MQ00		1	1 unit	1CC

**Motorized operating mechanism with operating cycle
counter**

24 V AC/DC	50/60		3VT9300-3MJ10		1	1 unit	1CC
48 V AC/DC	50/60		3VT9300-3ML10		1	1 unit	1CC
110 V AC/DC	50/60		3VT9300-3MN10		1	1 unit	1CC
230 V AC/220 V DC	50/60		3VT9300-3MQ10		1	1 unit	1CC

Accessories for motorized operating mechanisms



Operating cycle counter with cable
Length 110 cm

3VT9300-3MF10		1	1 unit	1CC
----------------------	--	---	--------	-----



Extension cables for motorized operating mechanism
12 cables, length 60 cm

3VT9300-3MF00		1	1 unit	1CC
----------------------	--	---	--------	-----

Mounting accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Plug-in base assembly kits

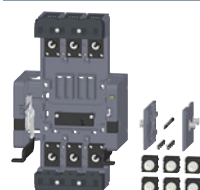


3-pole		3VT9300-4PA30		1	1 unit	1CC
---------------	--	----------------------	--	---	--------	-----

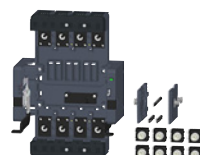


4-pole		3VT9300-4PA40		1	1 unit	1CC
---------------	--	----------------------	--	---	--------	-----

Withdrawable unit kits



3-pole		3VT9300-4WA30		1	1 unit	1CC
---------------	--	----------------------	--	---	--------	-----



4-pole		3VT9300-4WA40		1	1 unit	1CC
---------------	--	----------------------	--	---	--------	-----

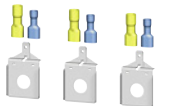
Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection methods									
3-pole									
	Front connecting bars¹⁾								
	For increased pole spacing, short (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars		3VT9300-4ED30		1	1 unit	1CC
	For increased pole spacing, long (1 set = 3 units)	--	Al/Cu busbars, cable lugs, flexibars		3VT9300-4EE30		1	1 unit	1CC
	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
	Rear terminals (1 set = 3 units)	--	Al/Cu busbars, cable lugs		3VT9300-4RC30		1	1 unit	1CC
Multiple feed-in terminals²⁾									
	For 1 cable (1 set = 3 units)	1 x 25 ... 150	Cu/Al cables		3VT9315-4TD30		1	1 unit	1CC
		1 x 150 ... 240	Cu/Al cables		3VT9324-4TD30		1	1 unit	1CC
	For 2 cables ³⁾ (1 set = 3 units)	2 x 25 ... 150	Cu/Al cables		3VT9315-4TF30		1	1 unit	1CC
		2 x 150 ... 240	Cu/Al cables		3VT9324-4TF30		1	1 unit	1CC
	For 6 cables (1 set = 3 units)	6 x 6 ... 35	Cu/Al cables		3VT9303-4TF30		1	1 unit	1CC
	Auxiliary conductor terminals (1 set = 3 units)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductors		3VT9300-4TN30		1	1 unit	1CC
	Box terminals (1 set = 3 units)	35 ... 240	Cu cables, flexibars		3VT9300-4TC30		1	1 unit	1CC
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
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
		1 x 150 ... 240	Cu/Al cables		3VT9324-4TD00		1	1 unit	1CC
	Use with 3VT9315-4TF30 or 3VT9324-4TF30 connection method, for 2 cables (1 set = 1 unit) ³⁾	2 x 25 ... 150	Cu/Al cables		3VT9315-4TF00		1	1 unit	1CC
		2 x 150 ... 240	Cu/Al cables		3VT9324-4TF00		1	1 unit	1CC
	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
	Box terminals for the 4th pole Use with 3VT9300-4TC30 connection method (1 set = 1 unit)	35 ... 240	Cu cables, flexibars		3VT9300-4TC00		1	1 unit	1CC

¹⁾ For use in IT systems $U_e = 690$ V AC, the insulation film 3VT9300-8CJ00 must be used, [see next page](#).

²⁾ Use terminal cover 3VT9300-8CB30 to increase terminal point protection to IP20, [see next page](#).

³⁾ For use in IT systems $U_e \geq 500$ V AC, the insulation film 3VT9300-8CJ00 must be used, [see next page](#).

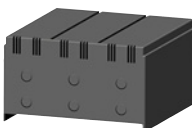
Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Further accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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
	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-mounted, plug-in and withdrawable versions.					
	3-pole version 4-pole version	3VT9300-8CB30 3VT9300-8CB40		1 1	1 unit 1 unit	1CC 1CC
	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
	Sealing devices					
	Sealing for: - Overcurrent releases - Accessory compartment covers - Terminal covers - Manual operating mechanisms - Motorized operating mechanisms					
		3VT9300-8BN00		1	2 units	1CC
	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
	Position signaling switches					
	For indicating the position of the switch disconnector in plug-in or withdrawable versions					
		3VT9300-4WL00		1	1 unit	1CC
	Coding sets					
	Prevents use of the wrong switching unit in plug-in or withdrawable devices					
		3VT9300-4WN00		1	1 unit	1CC
	Covers for pushbuttons					
	For motorized operating mechanisms; the cover may be equipped with a sealing device					
		3VT9300-3MF20		1	1 unit	1CC
	Insulation film NEW					
	For use in IT systems for - Busbar connection (for $U_e = 690$ V AC) - Multiple feed-in terminals (for $U_e \geq 500$ V AC): 3VT9315-4TF30, 3VT9315-4TF00 3VT9324-4TF30, 3VT9324-4TF00 For 0 mm clearance between the switch disconnector and the grounded control cabinet panel					
		3VT9300-8CJ00		1	1 unit	1CC

Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
3VT4 switch disconnectors							
	3-pole	1000	3VT4710-2DE36-0AA0		1	1 unit	1CC

For accessories, see "3VT5 switch disconnectors up to 1600 A", next page.

Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
3VT5 switch disconnectors							
 3-pole	1600		3VT5716-2DE36-0AA0		1	1 unit	1CC

Accessories

Auxiliary switches and auxiliary releases

Rated operational voltage U_s	Frequency	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
V	Hz	d					
Auxiliary switches and alarm switches							
 2 x NC, 2 x NO							
60 ... 500 AC / 60 ... 240 AC	50/60		3VT9500-2AF10		1	1 unit	1CC
5 ... 60 AC/DC	50/60		3VT9500-2AF20		1	1 unit	1CC
Shunt releases							
 24 AC/DC	50/60		3VT9500-1SF00		1	1 unit	1CC
48 AC/DC	50/60		3VT9500-1SG00		1	1 unit	1CC
110 AC/DC	50/60		3VT9500-1SH00		1	1 unit	1CC
230 AC/220 DC	50/60		3VT9500-1SJ00		1	1 unit	1CC
400 AC	50/60		3VT9500-1SK00		1	1 unit	1CC
500 AC	50/60		3VT9500-1SL00		1	1 unit	1CC
Undervoltage releases							
 24 AC/DC	50/60		3VT9500-1UF00		1	1 unit	1CC
48 AC/DC	50/60		3VT9500-1UG00		1	1 unit	1CC
110 AC/DC	50/60		3VT9500-1UH00		1	1 unit	1CC
230 AC/220 DC	50/60		3VT9500-1UJ00		1	1 unit	1CC
400 AC	50/60		3VT9500-1UK00		1	1 unit	1CC
500 AC	50/60		3VT9500-1UL00		1	1 unit	1CC

Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Manual operating mechanisms

Version	Color	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							
Rotary operating mechanisms							
	Manual rotary operating mechanisms						
	• Lockable with padlock						
	Gray		3VT9500-3HA10		1	1 unit	1CC
	Handle for manual rotary operating mechanisms						
	• Lockable with padlock						
	Black		3VT9500-3HE10		1	1 unit	1CC
	• Lockable with padlock						
	Red		3VT9500-3HF10		1	1 unit	1CC
	Masking plates for door-coupling rotary operating mechanism						
	• Degree of protection IP44						
	• Degree of protection IP66						
			3VT9500-3HG10 3VT9500-3HG20		1 1	1 unit 1 unit	1CC 1CC
	Extension shafts						
	• Length 315 mm, can be shortened						
			3VT9500-3HJ10		1	1 unit	1CC
	Mechanical interlocks						
	• 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
	Mechanical interlocks by means of Bowden wire						
	• For switch disconnectors, fixed-mounted versions						
			3VT9500-8LC10		1	1 unit	1CC

Motorized operating mechanisms

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

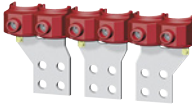
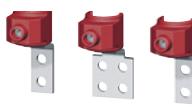
Switch Disconnectors

Fuseless 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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection methods									
3-pole									
	Box terminals, double	2 x 70 ... 240	Cu/Al cables		3VT9524-4TG30		1	1 unit	1CC
Two 3VT9524-4TG30 methods can be used to connect 4 x 70 ... 240 mm ² . 1 set = 3 units									
	Box terminals	70 ... 240 mm	Cu/Al cables		3VT9524-4TF30		1	1 unit	1CC
It is possible to combine the connection methods 3VT9524-4TG30 and 3VT9524-4TF30 to connect 3 x 70 ... 240 mm ² cables for each pole. 1 set = 3 units									
	Rear terminals								
Up to 1000 A (1 set = 3 units)									
		--	Busbars		3VT9400-4RC30		1	1 unit	1CC
	Up to 1600 A (1 set = 3 units)	--	Busbars		3VT9500-4RC30		1	1 unit	1CC
	Front terminals¹⁾ for withdrawable version (1 set = 3 units)	--	Busbars		3VT9500-4EF30		1	1 unit	1CC
	Rear terminals for withdrawable version (1 set = 3 units)	--	Busbars		3VT9500-4RD30		1	1 unit	1CC
Multiple feed-in terminals^{1) 2) 3)}									
	For 2 cables (1 set = 3 units)	150 ... 300	Cu/Al cables		3VT9532-4TF30		1	1 unit	1CC
	For 3 cables (1 set = 3 units)	150 ... 300	Cu/Al cables		3VT9533-4TF30		1	1 unit	1CC
	For 4 cables (1 set = 3 units)	150 ... 300	Cu/Al cables		3VT9534-4TF30		1	1 unit	1CC

¹⁾ For use in IT systems $U_0 = 500$ V AC, the insulation film 3VT9400-8CJ00 must be used, [see next page](#).

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

³⁾ It is necessary to use phase barriers or terminal covers (not included in the scope of supply).

Switch Disconnectors

Fuseless Switch Disconnectors

3VT Switch Disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Further accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Phase barriers, covers, locking devices						
	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. • For fixed-mounted versions • For withdrawable versions		3VT9500-8CE30 3VT9500-8CF30	1 1	1 unit 1 unit	1CC 1CC
	Left: 3VT9500-8CE30 Right: 3VT9500-8CF30					
Insulation film NEW For insulation when used in IT systems for 3VT4: • Busbar connection (for $U_e = 500$ V AC) • Multiple feed-in terminals (for $U_e = 500$ V AC): 3VT9532-4TF30, 3VT9533-4TF30, 3VT9534-4TF30 For 0 mm clearance between the switch disconnector and the grounded control cabinet panel		3VT9400-8CJ00	1	1 unit	1CC	
Terminal covers Increases degree of protection of terminal point 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. • For fixed-mounted versions with rear terminals		3VT9500-8CD30	1	1 unit	1CC	
	• For withdrawable versions with front terminals		3VT9500-8CC30	1	1 unit	1CC
	• For fixed-mounted versions with rear terminals		3VT9500-8CH30	1	1 unit	1CC
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 switchboard. Use of the insulation seals is recommended for all connection methods with rear terminals. • For rear terminals		3VT9500-8CG30	1	1 unit	1CC	
	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.		3VT9500-3HL00	1	1 unit	1CC
						
Sealing devices Sealing for: • Overcurrent releases • Accessory compartment covers		3VT9500-8BN00	1	2 units	1CC	
	Fixing screws • For withdrawable versions		3VT9500-4SA40	1	1 unit	1CC
						
Covers for pushbuttons • For motorized operating mechanism • The cover may be equipped with a sealing device		3VT9500-3MF20	1	1 unit	1CC	
						

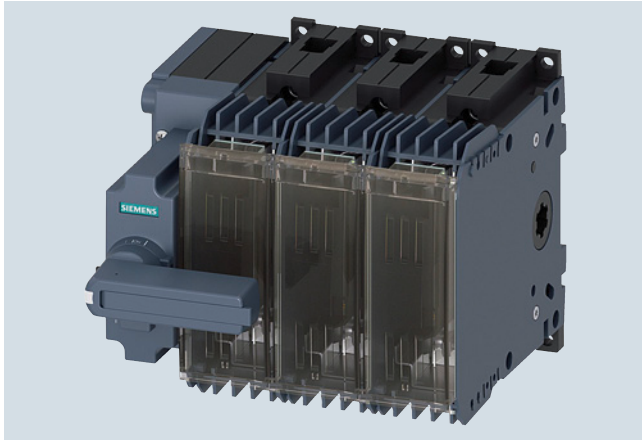
Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

General data

Overview



3KF switch disconnector with fuses, complete assembly, 3-pole

Features

- 3 and 4-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 with fuses
- Door-coupling rotary operating mechanism for operation of switch disconnector outside the control cabinet door
- Versions with side wall operating mechanism left and right
- Connections in the form of box terminals or flat terminals
- Floor mounting or mounting on a standard mounting rail (size 1)
- 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 440 V
- Suitable LV HRC fuse links up to 800 A
- Double contact break

Benefits

- Enhanced touch protection
- Locking function helps 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
- Protection against short-circuit and overload

Application

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

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

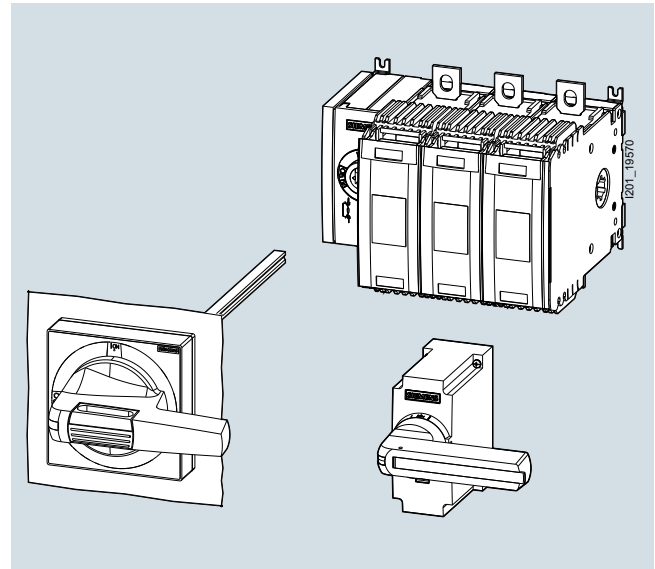
Design

A 3KF switch disconnector with fuses consists of an operating mechanism module, three or four 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 3KF switch disconnector with fuses 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 3KF switch disconnector with fuses.

Number of poles	Front operating mechanism on side	Front operating mechanism in center	Side operating mechanism, left	Side operating mechanism, right
3-pole				
4-pole				

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

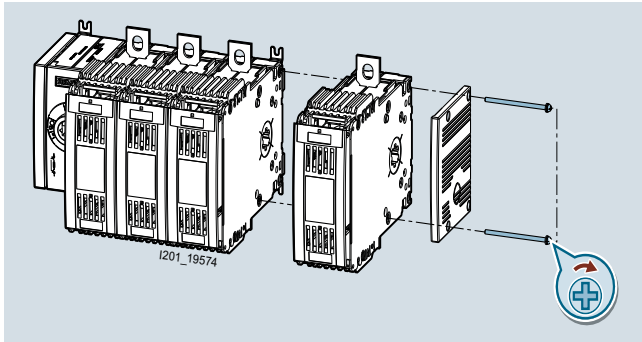
General data

Additional poles

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

When installing additional poles, it is important to note that only a 3KF 3-pole switch disconnector with fuses 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, therefore, it is not permissible to install an auxiliary switch module between the basic unit and an additional pole for size 1.



Installation of an additional pole

Available versions:

4th 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.

N — N

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 — N

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 — N

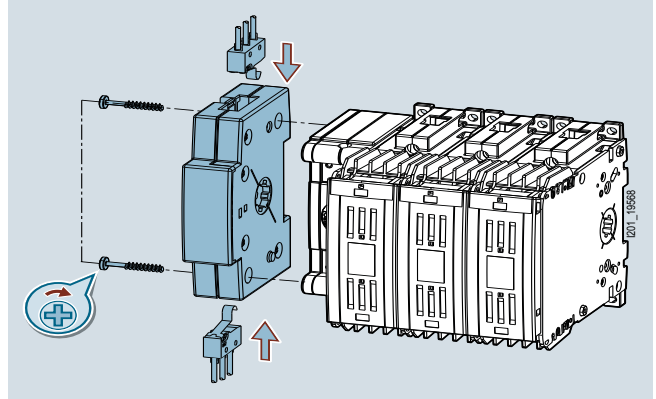
N/PE terminal with permanent connections

Auxiliary switches

Auxiliary switches allow remote interrogation of the contact position of the 3KF switch disconnector with fuses.

Installation of auxiliary switches for size 1

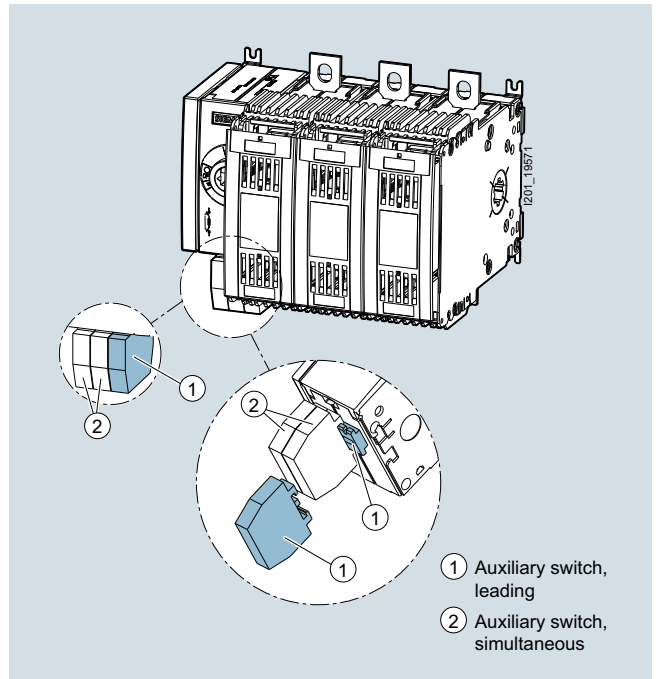
The auxiliary switches used for size 1 are microswitches (changeover contacts), which can be snapped into an auxiliary switch module. This auxiliary switch module is mounted on the side of the switch disconnector with fuses in the same way as an additional pole. A maximum of two microswitches can be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



Auxiliary switch with auxiliary switch module for size 1

Installation of auxiliary switches for sizes 2 to 5

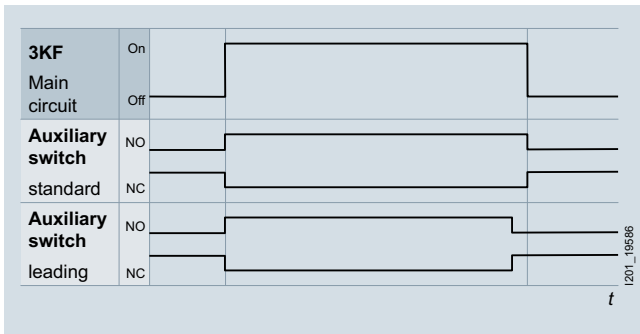
With sizes 2 to 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts.



Auxiliary switches directly attached to the operating mechanism module with sizes 2 to 5. The leading auxiliary switch is highlighted in the drawing.

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 3KF switch disconnector with fuses open.

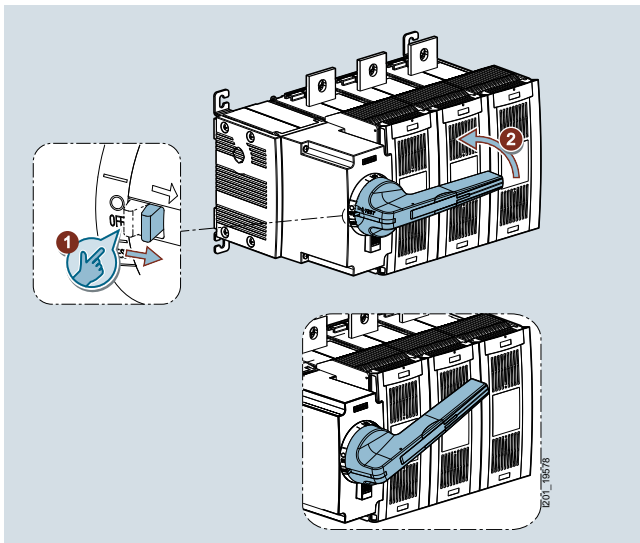
With size 1, the selection of the appropriate auxiliary switch module determines whether the switching instant will be leading or simultaneous.

With sizes 2 to 5, the switching instant is determined by the selection of the mounting location for the auxiliary switch on the operating mechanism module.

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 3KF switch disconnector with fuses. The test function can be used as part of the commissioning process.

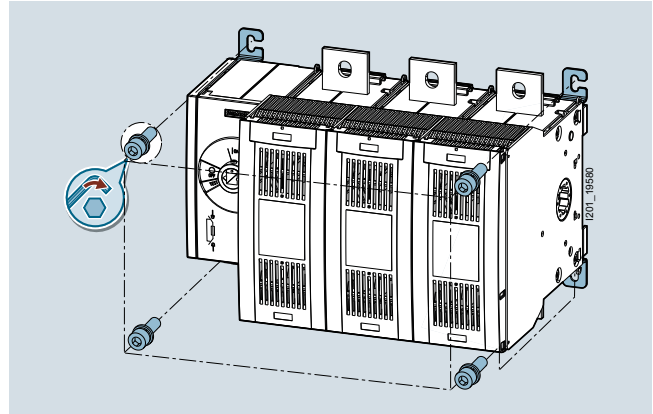
The test function is activated by turning the handle of a direct operating mechanism in the OFF position by 25° in the counter-clockwise direction. The handle must be turned 90° in the clockwise direction in order to switch the main contacts.



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

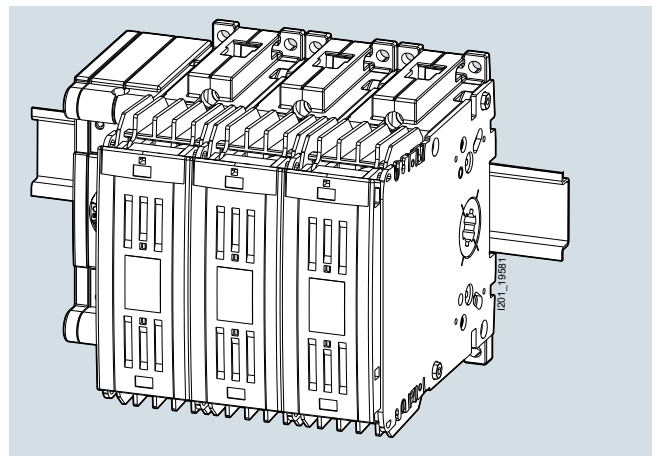
Types of mounting

All 3KF switch disconnectors with fuses 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 2 or larger.



Floor mounting method

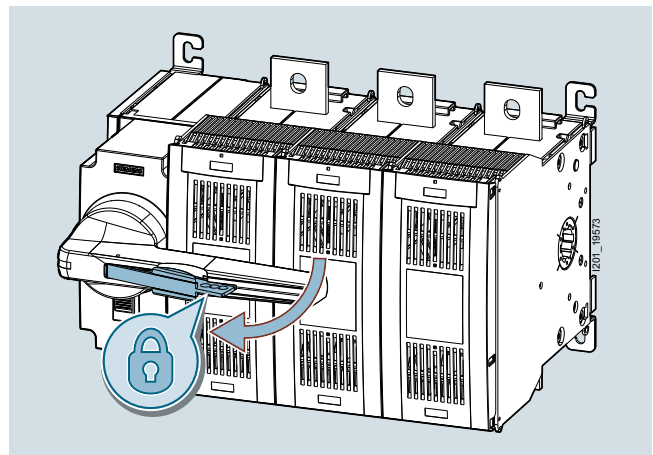
Sizes 1 and 2 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.



Mounting on a standard mounting rail

Locking functions

3KF switch disconnectors with fuses can be locked by up to three padlocks to prevent unauthorized switch operation.



Locking functions involving one or more padlocks

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

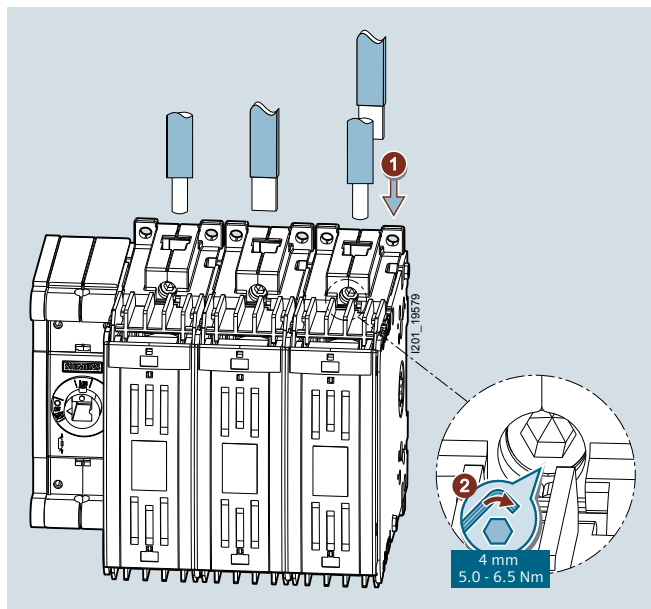
General data

Electrical connection

3KF switch disconnectors with fuses feature different connection options.

Box terminals

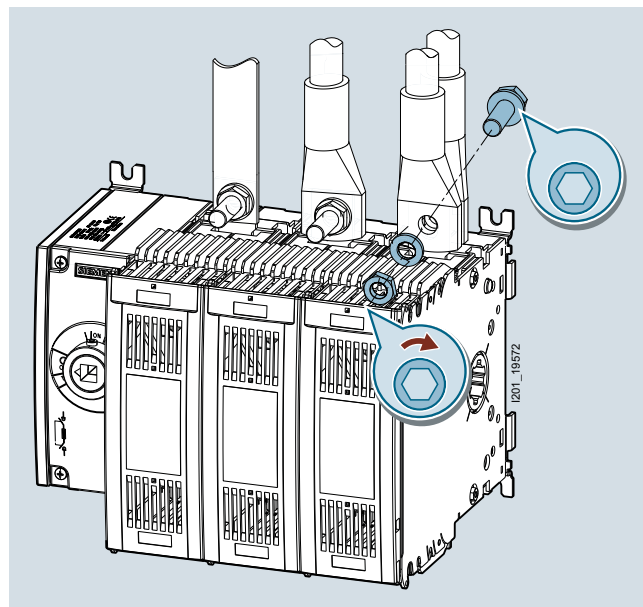
Box terminals for size 1 (rated currents 32 A to 80 A) are designed to allow the speedy connection of stripped conductors.



Connection via box terminals

Flat terminals

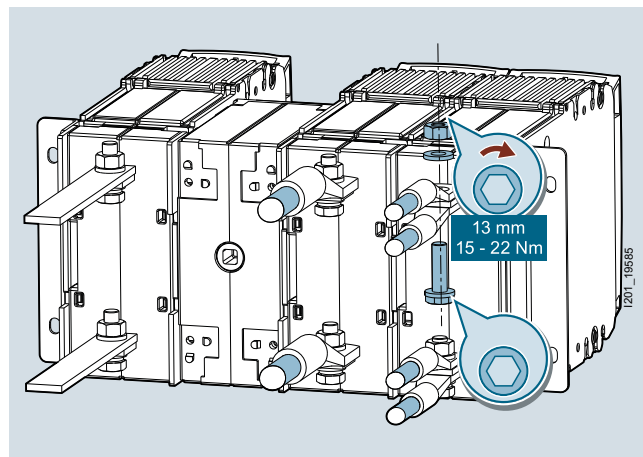
Sizes 2 to 5 (rated currents 125 to 800 A) are available with flat terminals for the connection of cable lugs or busbar systems.



Connection via flat terminals

Flat terminals at rear

Sizes 1 to 2 (rated currents up to 125 A) are available with rear flat terminals for the connection of cable lugs or busbar systems.



Connection via rear flat terminals

Switch Disconnectors

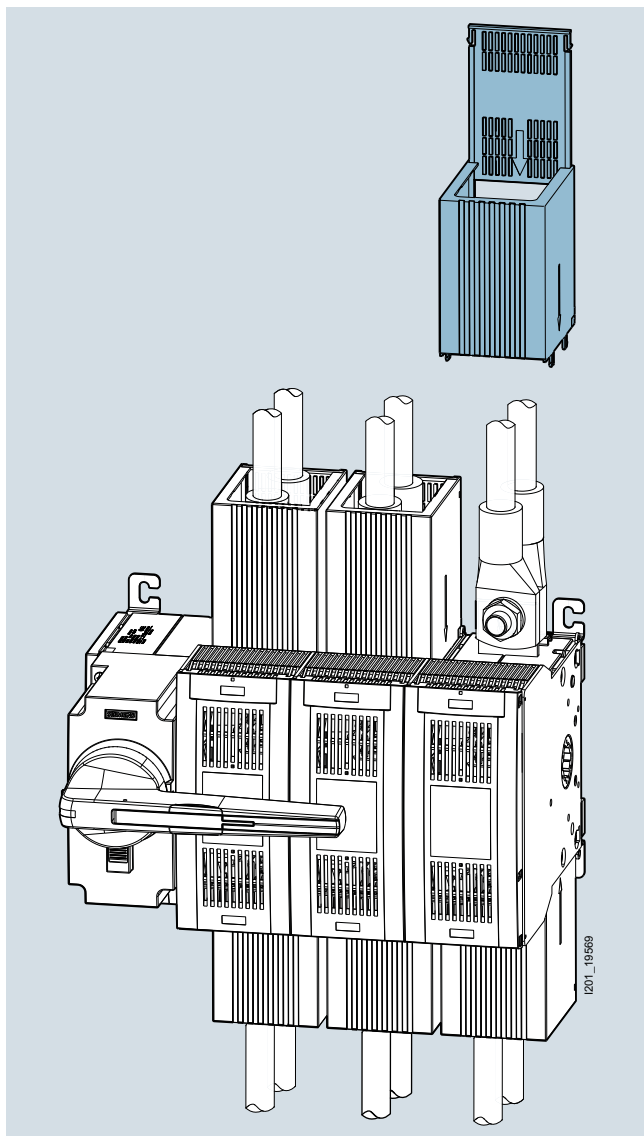
Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****General data**

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

Terminal covers

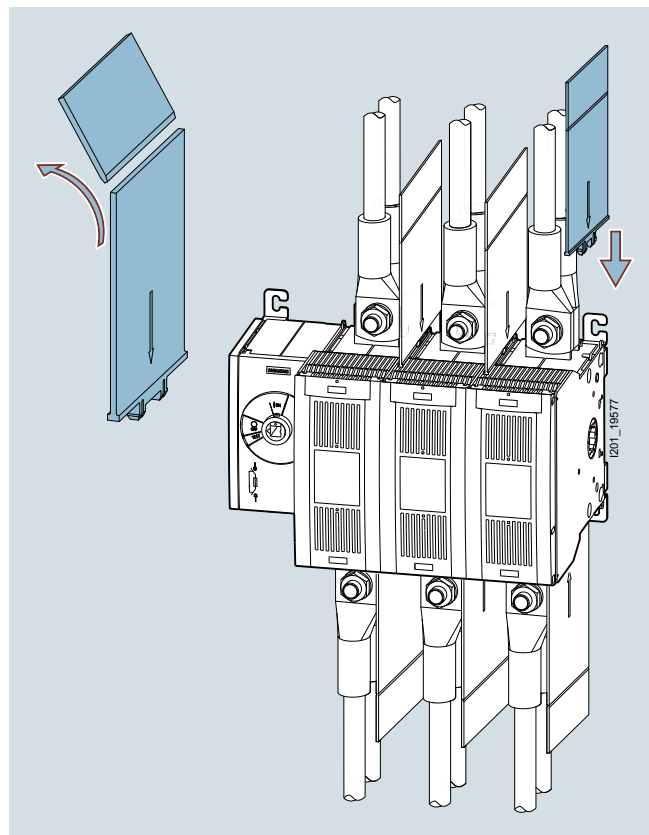
If the 3KF switch disconnector is erected outside a control cabinet, terminal covers can be installed to provide touch protection for all terminals.



Terminal covers

Phase barriers

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



Phase barriers

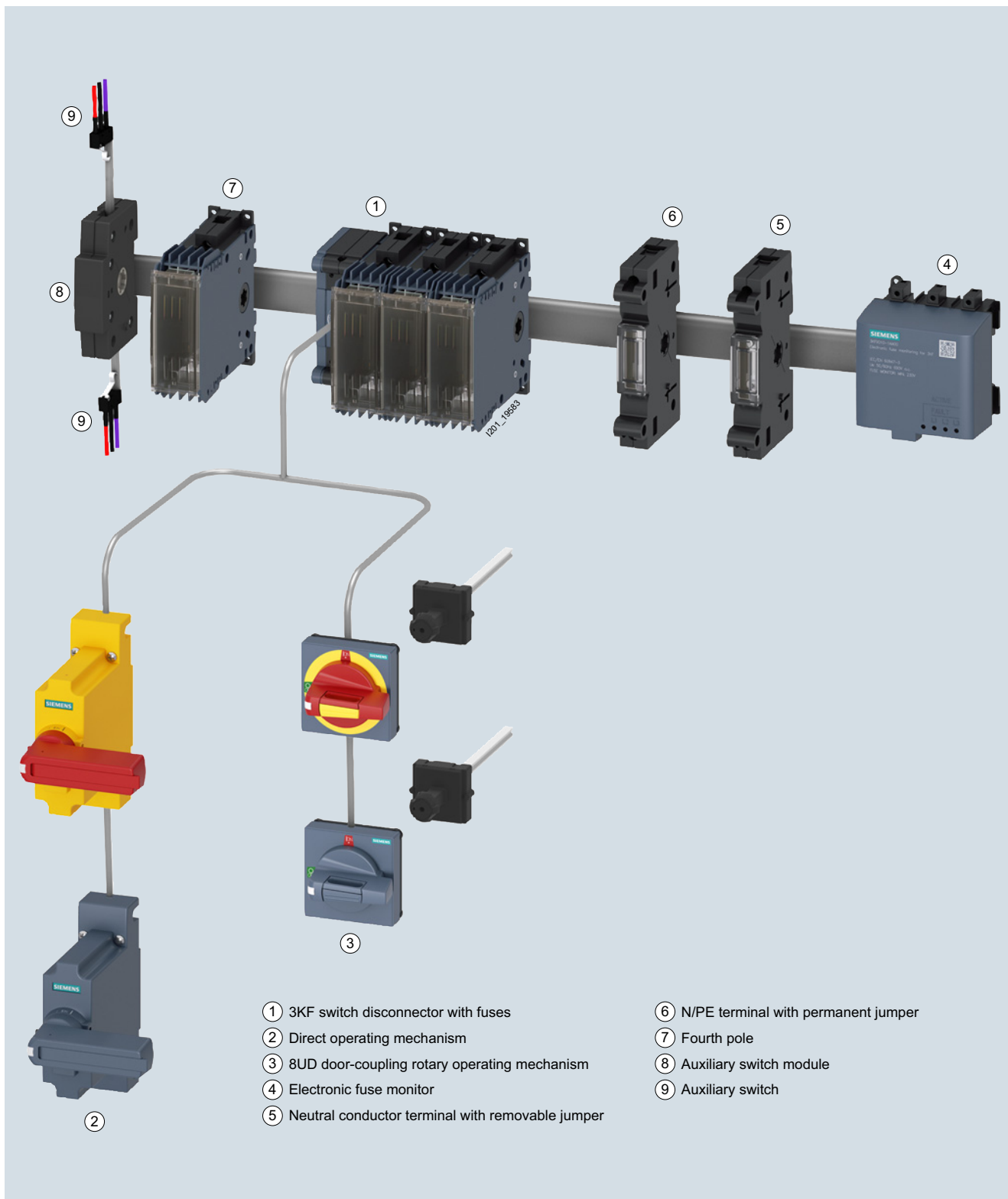
Switch Disconnectors

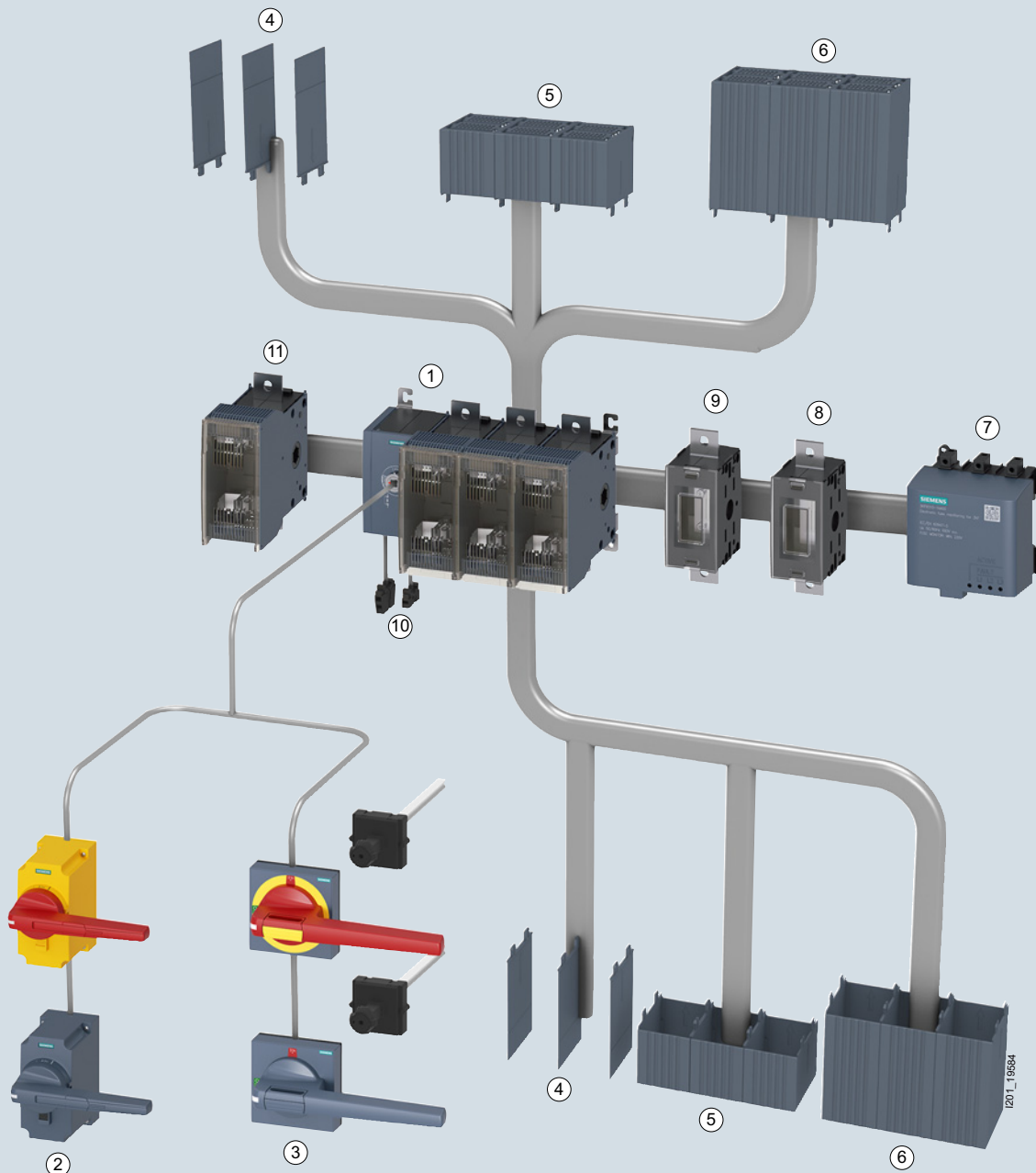
Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

General data

Overview of components and accessories: 3KF switch disconnectors with fuses in size 1



Overview of components and accessories: 3KF switch disconnector with fuses in sizes 2 to 5

- | | |
|--|--|
| ① 3KF switch disconnector with fuses | ⑥ Cable connection cover |
| ② Direct operating mechanism | ⑦ Electronic fuse monitor |
| ③ 8UD door-coupling rotary operating mechanism | ⑧ N/PE terminal (with permanent jumper) |
| ④ Phase barriers | ⑨ Neutral conductor terminal (with removable jumper) |
| ⑤ Cable connection cover, short | ⑩ Auxiliary switch |
| | ⑪ Fourth pole |

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

Technical features

Technical specifications

To some extent, values do not apply to 3KF with rear flat terminals – For details, see Siemens Industry Online Support

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107									
Size		1			2		3	4	5		
General technical details											
Rated uninterrupted current I_u	A	32	63	80	125	160	250	400	630	800	
Conventional free air thermal current $I_{th}^{1)}$	A	32	63	80	125	160	250	400	630	800	
For fuse links acc. to IEC 60269-2		00 and 000					1 and 0	2 and 1	3 and 2		
Rated operational voltage U_e											
• At 50 Hz/60 Hz AC (tolerance up to +10% permissible)	V	690									
• With DC (3 conducting paths series-connected)	V	440									
• At DC (2 conducting paths series-connected)	V	220									
Rated insulation voltage U_i	V	1000									
Rated impulse withstand voltage U_{imp}	kV	12									
Overvoltage category		IV									
Operating and short-circuit behavior											
Rated operational current $I_e^{2)}$											
• At AC-21A, AC-22A, AC-23A, 400 ... 690 V	A	32	63	80	125	160	250	400	630	800	
• At DC-21A, DC-22A, DC-23A, 220 ... 440 V	A	32	63	80	125	160	250	400	630	800	
Motor switching capacity AC-23A ³⁾											
• At 400 V	kW	15	30	37	55	90	132	220	355	400	
• At 500 V	kW	18.5	37	55	75	110	160	280	400	560	
• At 690 V	kW	30	55	75	110	132	250	400	630	800	
Rated short-time withstand current I_{cw} (with t = 1 s, rms value, 690 V AC/440 V DC)	kA	2.5				5	8	12	22		
Rated short-circuit making capacity I_{cm} (at 690 V AC/440 V DC)	kA	3.55				7.65	13.6	24	44		
Rated conditional short-circuit current with fuse ⁴⁾											
• At 400/500 V AC	kA	100									
• At 690 V AC	kA	100								80	
Let-through current I_c combined with fuse ⁴⁾											
• At 400/500 V AC	kA	10.4				18.2	28.7	39.4	58.5		
• At 690 V AC	kA	11.2				16.87	30.31	41.14	49.95		
Let-through I^2t value combined with fuse ⁴⁾											
• At 400/500 V AC	kA ² s	33.2				150.6	437.0	1205	4100		
• At 690 V AC	kA ² s	40.7				89.64	490.1	1300	2050		
Let-through current I_c of usable fuses, max.											
• At 400/500 V AC	kA	11.8				18	33.7	37.1	77.4		
• At 690 V AC	kA	11.5				25.5	37.7	47	65		
Let-through I^2t value of usable fuses, max.											
• At 400/500 V AC	kA ² s	34				223	1500	2150	10400		
• At 690 V AC	kA ² s	55				360	940	2600	7000		
Power loss per pole of the switch at I_{th} (plus fuses)	W	0.4	1.7	2.8	4.2	7.2	15	26	40	50	
Maximum power loss of the usable fuses (per fuse)	W	6.5	7.5	8.5	11	12	25.5	34	48	60	
Service life, operating cycles											
• Mechanical		15000			12000		10000	8000	6000		
• Electrical, at AC-23A, 690 V/50 ... 60 Hz		6000			5000		4000	2000	1000		
• Electrical, at AC-23A, 440 V/50 ... 60 Hz		10000			8000		5000	3000	1500		
• Electrical, at DC-23A, 440 V		1500			1000		500				
Degree of protection (operator side)											
• With masking plate or cable connection cover		IP20									
• Without masking plate or terminal cover		IP20			IP00						
Ambient conditions											
• Ambient temperature during operation	°C	-25 ... +70									
• Ambient temperature during storage	°C	-50 ... +80									
• Mounting position		Any									
Main conductor connections											
Conductor cross-section, max.	mm ²	25			95		240	2 x 150	2 x 300		
Busbar systems, max. dimensions (number x width x thickness)	mm	1 x 9 x 2			1 x 20 x 3		1 x 25 x 3	1 x 30 x 10	1 x 50 x 10		
Tightening torque	Nm	5 ... 6.5			15 ... 22		30 ... 44	30 ... 44	50 ... 75		

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

²⁾ Values valid even at +10% line voltage tolerance in case of AC

³⁾ Values are provided as a guide only and may vary depending on the make of motor

Overview

Devices		Description	Page
Complete assemblies			
	Complete assemblies with direct operating mechanisms	Ready-to-install combinations comprising switch disconnectors and operating mechanisms • 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	7/132
Basic units			
	Front operating mechanisms 3/4-pole up to 690 V AC / 440 V DC	Switch disconnectors with front operating mechanisms without handle • 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	7/133 7/133
	Side operating mechanisms	Switch disconnectors with side operating mechanisms • 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 the right or left-hand side of switch disconnector	7/135
Accessories and spare parts			
	Additional poles	Additional poles for enhanced functionality • 4th contact element (switching pole) • N terminal (neutral conductor terminal with removable jumper) • N/PE terminal (with permanent jumper)	7/137
	Direct operating mechanisms	Different handles for mounting on basic units • Direct operating mechanisms for direct mounting on switch disconnector • Handles available in colors gray or red/yellow	7/138
	Door-coupling rotary operating mechanisms	Different handles for mounting on basic units • Door-coupling rotary operating mechanisms for operation of switch disconnector outside the control cabinet door • Handles available in colors gray or red/yellow	7/139
	Auxiliary switches	Auxiliary switches • 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)	7/143
	Other accessories	• Terminal covers • Phase barriers • Cable connection cover As touch protection for termination area (for installation outside control cabinet) • Mounting bracket for wall mounting (spare part)	7/144

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

Complete assemblies

Selection and ordering data

Rated uninterrupted current I_u A	For LV HRC fuse	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
--	-----------------	------	----	--	-----------------	-------------------------	----	----

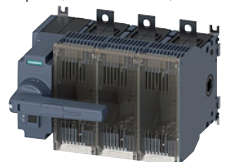
Complete assemblies with direct operating mechanism, gray, front operating mechanism, for LV HRC fuses

The switch disconnectors are designed for floor mounting; size 1 can optionally be mounted on standard mounting rails

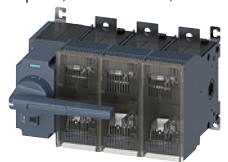
3-pole



3-pole, flat terminal, size 2



3-pole, flat terminal, size 4



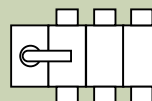
3-pole, flat terminal, size 5



3-pole, box terminal, size 2

Flat terminals

125	00/000	2
160	00/000	2
250	1	3
400	2/1	4
630	3/2	5
800	3/2	5



3KF2312-2LF11	1	1 unit	1DL
3KF2316-2LF11	1	1 unit	1DL
3KF3325-2LF11	1	1 unit	1DL
3KF4340-2LF11	1	1 unit	1DL
3KF5363-2LF11	1	1 unit	1DL
3KF5380-2LF11	1	1 unit	1DL

Box terminals

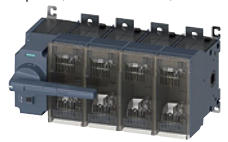
32	00/000	1
63	00/000	1
80	00/000	1

3KF1303-2LB11	1	1 unit	1DL
3KF1306-2LB11	1	1 unit	1DL
3KF1308-2LB11	1	1 unit	1DL

4-pole



4-pole, flat terminal, size 2



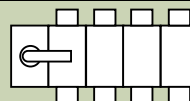
4-pole, flat terminal, size 5



4-pole, box terminal, size 1

Flat terminals

125	00/000	2
160	00/000	2
250	1	3
400	2/1	4
630	3/2	5
800	3/2	5



3KF2412-2LF11	1	1 unit	1DL
3KF2416-2LF11	1	1 unit	1DL
3KF3425-2LF11	1	1 unit	1DL
3KF4440-2LF11	1	1 unit	1DL
3KF5463-2LF11	1	1 unit	1DL
3KF5480-2LF11	1	1 unit	1DL

Box terminals

32	00/000	1
63	00/000	1
80	00/000	1

3KF1403-2LB11	1	1 unit	1DL
3KF1406-2LB11	1	1 unit	1DL
3KF1408-2LB11	1	1 unit	1DL

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Basic units**

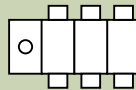
Rated uninter- rupted current I_u A	For LV HRC fuse	Size	Operating mechanism on left			Operating mechanism in center			PU (UNIT, SET, M)	PS	PG
			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU			
			d			d					

Basic units without handle, front operating mechanisms, for LV HRC fuses

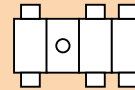
The switch disconnectors are designed for floor mounting;
size 1 can optionally be mounted on standard mounting rails

3-pole3-pole, flat terminal, size 2,
operating mechanism on left3-pole, flat terminal, size 5,
operating mechanism on left3-pole, flat terminal, size 2,
operating mechanism in center3-pole, flat terminal, size 5,
operating mechanism in center3-pole, flat terminal at rear,
size 23-pole, box terminal, size 1,
operating mechanism on left3-pole, box terminal, size 1,
operating mechanism in center**Flat terminals**

125	00/000	2
160	00/000	2
250	1??	3
400	2/1	4
630	3/2	5
800	3/2	5



3KF2312-0LF11
3KF2316-0LF11
3KF3325-0LF11
3KF4340-0LF11
3KF5363-0LF11
3KF5380-0LF11

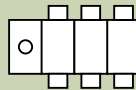


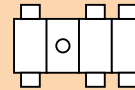
3KF2312-0MF11
3KF2316-0MF11
3KF3325-0MF11
3KF4340-0MF11
3KF5363-0MF11
3KF5380-0MF11

1	1 unit	1DL
1	1 unit	1DL
1	1 unit	1DL
1	1 unit	1DL
1	1 unit	1DL
1	1 unit	1DL

Flat terminals at rear

32	00/000	1
63	00/000	1
125	00/000	2





3KF1303-0MR11
3KF1306-0MR11
3KF2312-0MR11

1	1 unit	1DL
1	1 unit	1DL
1	1 unit	1DL

Box terminals

32	00/000	1
63	00/000	1
80	00/000	1

3KF1303-0LB11
3KF1306-0LB11
3KF1308-0LB11

3KF1303-0MB11
3KF1306-0MB11
3KF1308-0MB11

1	1 unit	1DL
1	1 unit	1DL
1	1 unit	1DL

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

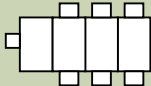
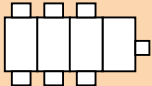
Basic units

				Operating mechanism on left			Operating mechanism in center					
	Rated uninter- rupted current I_u	For LV HRC fuse	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A			d			d					
4-pole												
 4-pole, flat terminal, size 2, operating mechanism on left	Flat terminals											
	125	00/000	2		3KF2412-0LF11			3KF2412-0MF11		1	1 unit	1DL
	160	00/000	2		3KF2416-0LF11			3KF2416-0MF11		1	1 unit	1DL
	250	1	3		3KF3425-0LF11			3KF3425-0MF11		1	1 unit	1DL
	400	2/1	4		3KF4440-0LF11			3KF4440-0MF11		1	1 unit	1DL
	630	3/2	5		3KF5463-0LF11			3KF5463-0MF11		1	1 unit	1DL
 4-pole, flat terminal, size 2, operating mechanism on left	800	3/2	5		3KF5480-0LF11			3KF5480-0MF11		1	1 unit	1DL
 4-pole, flat terminal, size 2, operating mechanism in center												
 4-pole, flat terminal, size 5, operating mechanism in center												
Box terminals												
 4-pole, flat terminal, size 1, operating mechanism on left	32	00/000	1		3KF1403-0LB11			3KF1403-0MB11		1	1 unit	1DL
	63	00/000	1		3KF1406-0LB11			3KF1406-0MB11		1	1 unit	1DL
	80	00/000	1		3KF1408-0LB11			3KF1408-0MB11		1	1 unit	1DL
 4-pole, flat terminal, size 1, operating mechanism in center												

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Basic units**

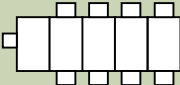
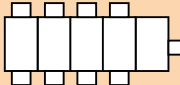
			Operating mechanism on left			Operating mechanism on right					
Rated uninterrupted current I_u	For LV HRC fuse	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A			d			d					
Basic units without handle, side operating mechanisms											
The switch disconnectors with side operating mechanism are suitable for door-coupling rotary operating mechanisms.											
3-pole											
											
Flat terminals											
125	00/000	2		3KF2312-4LF11			3KF2312-4RF11		1	1 unit	1DL
160	00/000	2		3KF2316-4LF11			3KF2316-4RF11		1	1 unit	1DL
250	1	3		3KF3325-4LF11			3KF3325-4RF11		1	1 unit	1DL
400	2/1	4		3KF4340-4LF11			3KF4340-4RF11		1	1 unit	1DL
630	3/2	5		3KF5363-4LF11			3KF5363-4RF11		1	1 unit	1DL
800	3/2	5		3KF5380-4LF11			3KF5380-4RF11		1	1 unit	1DL
											
3-pole, flat terminal, size 5, operating mechanism on left											
											
3-pole, flat terminal, size 2, operating mechanism on right											
											
3-pole, flat terminal, size 5, operating mechanism on right											
											
Box terminals											
32	00/000	1		3KF1303-4LB11			3KF1303-4RB11		1	1 unit	1DL
63	00/000	1		3KF1306-4LB11			3KF1306-4RB11		1	1 unit	1DL
80	00/000	1		3KF1308-4LB11			3KF1308-4RB11		1	1 unit	1DL
											
3-pole, box terminal, size 1, operating mechanism on right											

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

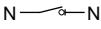
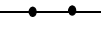
Basic units

Rated uninterrupted current I_u	For LV HRC fuse	Size	Operating mechanism on left			Operating mechanism on right			PU (UNIT, SET, M)	PS	PG
			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SD	Article No. www.siemens.com/ product?Article No.	Price per PU			
A			d			d					
4-pole											
											
Flat terminals											
	125	00/000	2	3KF2412-4LF11			3KF2412-4RF11		1	1 unit	1DL
	160	00/000	2	3KF2416-4LF11			3KF2416-4RF11		1	1 unit	1DL
	250	1	3	3KF3425-4LF11			3KF3425-4RF11		1	1 unit	1DL
	400	2/1	4	3KF4440-4LF11			3KF4440-4RF11		1	1 unit	1DL
	630	3/2	5	3KF5463-4LF11			3KF5463-4RF11		1	1 unit	1DL
	800	3/2	5	3KF5480-4LF11			3KF5480-4RF11		1	1 unit	1DL
3-pole, flat terminal, size 2, operating mechanism on left											
											
3-pole, flat terminal, size 5, operating mechanism on left											
											
4-pole, flat terminal, size 2, operating mechanism on right											
											
4-pole, flat terminal, size 5, operating mechanism on right											
Box terminals											
	32	00/000	1	3KF1403-4LB11			3KF1403-4RB11		1	1 unit	1DL
	63	00/000	1	3KF1406-4LB11			3KF1406-4RB11		1	1 unit	1DL
	80	00/000	1	3KF1408-4LB11			3KF1408-4RB11		1	1 unit	1DL
4-pole, flat terminal, size 1, operating mechanism on right											

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Accessories and spare parts****Selection and ordering data****Additional poles**

Version	For LV HRC fuse	Circuit symbol	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	d					
4th contact element (switching pole) for LV HRC fuses If a 4 th contact element is used in a three-phase four-conductor system with neutral conductor (3 + N), an isolating blade must be used with the neutral conductor.								
								
 3KF9205-0AA00	Flat terminals							
	• For size 2; 3KF2...	00/000		3KF9205-0AA00		1	1 unit	1DL
	• For size 3; 3KF3...	1		3KF9305-0AA00		1	1 unit	1DL
	• For size 4; 3KF4...	2/1		3KF9405-0AA00		1	1 unit	1DL
	• For size 5; 3KF5...	3/2		3KF9505-0AA00		1	1 unit	1DL
 3KF9105-1AA00	Flat terminals at rear							
	• For size 1; 3KF1...	00/000		3KF9105-1AA00		1	1 unit	1DL
	• For size 2; 3KF2...	00/000		3KF9205-1AA00		1	1 unit	1DL
 3KF9105-2AA00	Box terminals							
	• For size 1; 3KF1...	00/000		3KF9105-2AA00		1	1 unit	1DL
Neutral conductor terminals with removable jumper								
								
 3KF9206-0AA00	Flat terminals							
	• For size 2; 3KF2...			3KF9206-0AA00		1	1 unit	1DL
	• For size 3; 3KF3...			3KF9306-0AA00		1	1 unit	1DL
	• For size 4; 3KF4...			3KF9406-0AA00		1	1 unit	1DL
	• For size 5; 3KF5...			3KF9506-0AA00		1	1 unit	1DL
 3KF9106-1AA00	Flat terminals at rear							
	• For size 1; 3KF1...			3KF9106-1AA00		1	1 unit	1DL
	• For size 2; 3KF2...			3KF9206-1AA00		1	1 unit	1DL
 3KF9106-2AA00	Box terminals							
	• For size 1; 3KF1...			3KF9106-2AA00		1	1 unit	1DL

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

Accessories and spare parts

Version	For LV HRC fuse	Circuit symbol	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	d					
N/PE terminals with permanent jumper								
 3KF9206-7AA00	Flat terminals			3KF9206-7AA00		1	1 unit	1DL
	• For size 2; 3KF2... • For size 3; 3KF3... • For size 4; 3KF4... • For size 5; 3KF5...			3KF9306-7AA00		1	1 unit	1DL
				3KF9406-7AA00		1	1 unit	1DL
				3KF9506-7AA00		1	1 unit	1DL
 3KF9106-6AA00	Flat terminals at rear			3KF9106-6AA00		1	1 unit	1DL
	• For size 1; 3KF1... • For size 2; 3KF2...			3KF9206-6AA00		1	1 unit	1DL
 3KF9106-8AA00	Box terminals			3KF9106-8AA00		1	1 unit	1DL
• For size 1; 3KF1...								

Direct operating mechanisms

Version	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					
Direct operating mechanisms						
 Direct operating mechanism, gray, for size 1	Can be locked with up to max. 3 padlocks					
	Gray					
	• For size 1; 3KF1... • For size 2; 3KF2... • For size 3; 3KF3... • For size 4; 3KF4... • For size 5; 3KF5...	3KF9101-1AA00		1	1 unit	1DL
		3KF9201-1AA00		1	1 unit	1DL
		3KF9301-1AA00		1	1 unit	1DL
		3KF9401-1AA00		1	1 unit	1DL
		3KF9501-1AA00		1	1 unit	1DL
 Direct operating mechanism, red/yellow, for size 1	Red/yellow					
	• For size 1; 3KF1... • For size 2; 3KF2... • For size 3; 3KF3... • For size 4; 3KF4... • For size 5; 3KF5...	3KF9101-2AA00		1	1 unit	1DL
		3KF9201-2AA00		1	1 unit	1DL
		3KF9301-2AA00		1	1 unit	1DL
		3KF9401-2AA00		1	1 unit	1DL
		3KF9501-2AA00		1	1 unit	1DL

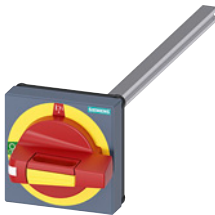
Door-coupling rotary operating mechanismsNote

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

Version	Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm	mm x mm	d					
Door-coupling rotary operating mechanisms, complete								
Labeling TEST - 0 - I • Handle with masking plate • Coupling driver with tolerance compensation • Shaft 300 mm • Labeling Test - 0 - I								
Gray								
• For size 1; 3KF1...	45	8 x 8		8UD1171-2AF21		1	1 unit	1CL
• For size 2; 3KF2...	100	8 x 8		8UD1141-2AF21		1	1 unit	1CL
• For size 3; 3KF3...	100	10 x 10		8UD1141-3AF21		1	1 unit	1CL
• For size 4; 3KF4...	140	10 x 10		8UD1151-3AF21		1	1 unit	1CL
• For size 5; 3KF5...	200	12 x 12		8UD1161-4AF21		1	1 unit	1CL
Red/yellow								
• For size 1; 3KF1...	45	8 x 8		8UD1171-2AF25		1	1 unit	1CL
• For size 2; 3KF2...	100	8 x 8		8UD1141-2AF25		1	1 unit	1CL
• For size 3; 3KF3...	100	10 x 10		8UD1141-3AF25		1	1 unit	1CL
• For size 4; 3KF4...	140	10 x 10		8UD1151-3AF25		1	1 unit	1CL
• For size 5; 3KF5...	200	12 x 12		8UD1161-4AF25		1	1 unit	1CL



Door-coupling rotary operating mechanism, gray, for size 1



Door-coupling rotary operating mechanism, gray, for size 1

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

Accessories and spare parts

Version		Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm x mm	d					
Handles for door-coupling rotary operating mechanisms									
Handles without extension shaft and coupling driver, labeling 0 - I									
• With masking plate • Labeling 0 - I									
Gray									
 Handle, gray, for size 1	• For size 1; 3KF1..	45	--		8UD1771-2AD01		1	1 unit	1CL
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2AD01		1	1 unit	1CL
	• For size 4; 3KF4...	140	--		8UD1851-3AD01		1	1 unit	1CL
	• For size 5; 3KF5...	200	--		8UD1861-4AD01		1	1 unit	1CL
Red/yellow									
 Handle, red/yellow, for size 1	• For size 1; 3KF1..	45	--		8UD1771-2AD05		1	1 unit	1CL
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2AD05		1	1 unit	1CL
	• For size 4; 3KF4...	140	--		8UD1851-3AD05		1	1 unit	1CL
	• For size 5; 3KF5...	200	--		8UD1861-4AD05		1	1 unit	1CL
Handles without extension shaft and coupling driver, labeling Test - 0 - I									
• With masking plate • Labeling Test - 0 - I									
Gray									
 Handle, gray, for size 1	• For size 1; 3KF1..	45	--		8UD1771-2AF01		1	1 unit	1CL
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2AF01		1	1 unit	1CL
	• For size 4; 3KF4...	140	--		8UD1851-3AF01		1	1 unit	1CL
	• For size 5; 3KF5...	200	--		8UD1861-4AF01		1	1 unit	1CL
Red/yellow									
 Handle, red/yellow, for size 1	• For size 1; 3KF1..	45	--		8UD1771-2AF05		1	1 unit	1CL
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2AF05		1	1 unit	1CL
	• For size 4; 3KF4...	140	--		8UD1851-3AF05		1	1 unit	1CL
	• For size 5; 3KF5...	200	--		8UD1861-4AF05		1	1 unit	1CL

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Accessories and spare parts**

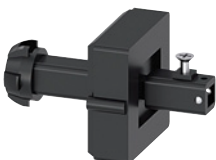
	Version	Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm x mm	d					
 Handle without extension shaft, gray, for sizes 1/2	Handles, illuminated, without extension shaft and coupling driver, labeling 0 - I • With masking plate • Illuminated • Labeling 0 - I								
	Gray								
	• For size 1; 3KF1...	45	--		8UD1771-2CD01		1 1 unit	1CL	
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2CD01		1 1 unit	1CL	
	• For size 4; 3KF4...	140	--		8UD1851-3CD01		1 1 unit	1CL	
	• For size 5; 3KF5...	200	--		8UD1861-4CD01		1 1 unit	1CL	
 Handle without extension shaft, red/yellow, for sizes 1/2	Red/yellow								
	• For size 1; 3KF1...	45	--		8UD1771-2CD05		1 1 unit	1CL	
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2CD05		1 1 unit	1CL	
	• For size 4; 3KF4...	140	--		8UD1851-3CD05		1 1 unit	1CL	
	• For size 5; 3KF5...	200	--		8UD1861-4CD05		1 1 unit	1CL	
 Handle with lighting, without extension shaft, gray, for sizes 1/2	Handles, illuminated, without extension shaft and coupling driver, labeling Test - 0 - I • With masking plate • Illuminated • Labeling Test - 0 - I								
	Gray								
	• For size 1; 3KF1...	45	--		8UD1771-2CF01		1 1 unit	1CL	
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2CF01		1 1 unit	1CL	
	• For size 4; 3KF4...	140	--		8UD1851-3CF01		1 1 unit	1CL	
	• For size 5; 3KF5...	200	--		8UD1861-4CF01		1 1 unit	1CL	
 Handle with lighting, without extension shaft, red/yellow, for sizes 1/2	Red/yellow								
	• For size 1; 3KF1...	45	--		8UD1771-2CF05		1 1 unit	1CL	
	• For sizes 2/3; 3KF2/3...	100	--		8UD1841-2CF05		1 1 unit	1CL	
	• For size 4; 3KF4...	140	--		8UD1851-3CF05		1 1 unit	1CL	
	• For size 5; 3KF5...	200	--		8UD1861-4CF05		1 1 unit	1CL	

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

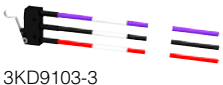
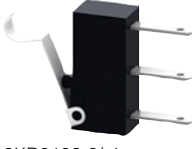
Accessories and spare parts

Version	Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm	mm x mm	d					
Other accessories for door-coupling rotary operating mechanisms, 8UD1 series								
Extension shafts								
300 mm long								
	• For sizes 1/2; 3KF1/2...	--	8 x 8	8UC6032		1	1 unit	1CL
	• For sizes 3/4; 3KF3/4...	--	10 x 10	8UC6033		1	1 unit	1CL
	• For size 5; 3KF5...	--	12 x 12	8UC6034		1	1 unit	1CL
600 mm long								
A shaft jack is required for the 8UD handle when the 600 mm long shaft is used and for size 1.								
	• For sizes 1/2; 3KF1/2...	--	8 x 8	8UC6082		1	1 unit	1CL
	• For sizes 3/4; 3KF3/4...	--	10 x 10	8UC6083		1	1 unit	1CL
	• For size 5; 3KF5...	--	12 x 12	8UC6084		1	1 unit	1CL
Shaft jack for 8UD handle for shaft, 600 mm NEW								
	• For size 1; 3KF1...	--	8 x 8	8UD1900-0FA00		1	1 unit	1CL
Coupling drivers with tolerance compensation								
	For size 1; 3KF1...	--	8 x 8	8UD1900-2GA00		1	1 unit	1CB
	• For size 2; 3KF2...	--	8 x 8	8UD1900-6GA00		1	1 unit	1CL
	• For sizes 3/4; 3KF3/4...	--	10 x 10	8UD1900-3GA00		1	1 unit	1CL
	• For size 5; 3KF5...	--	12 x 12	8UD1900-4GA00		1	1 unit	1CL
Coupling drivers without tolerance compensation								
	• For size 1; 3KF1	--	8 x 8	8UD1900-2HA00		1	1 unit	1CB
	• For size 2; 3KF2...	--	8 x 8	8UD1900-6HA00		1	1 unit	1CL
	• For sizes 3/4; 3KF3/4...	--	10 x 10	8UD1900-3HA00		1	1 unit	1CL
	• For size 5; 3KF5...	--	12 x 12	8UD1900-4HA00		1	1 unit	1CL
Shaft couplings								
	• For size 1/2 3KF1/2...	--	8 x 8	8UC6022		1	1 unit	1CL
	• For sizes 3/4; 3KF3/4...	--	10 x 10	8UC6023		1	1 unit	1CL
	• For size 5; 3KF5...	--	12 x 12	8UC6024		1	1 unit	1CL

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Accessories and spare parts****Auxiliary switches**

	Version	For size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
 3KD9103-3	Auxiliary switches for size 1 With soldered-on 50 cm connecting cables							
	• 1 CO contact	1		3KD9103-1		1	1 unit	1CL
	• 1 CO contact, solid-state compatible	1		3KD9103-3		1	1 unit	1CL
 3KD9103-2/-4	Auxiliary switches for size 1 Without soldered-on connecting cables							
	• 1 CO contact	1		3KD9103-2		1	1 unit	1CL
	• 1 CO contact, solid-state compatible	1		3KD9103-4		1	1 unit	1CL
 3KD9103-5/-6/-7	Auxiliary switch modules for size 1¹⁾							
	• Standard	1		3KD9103-5		1	1 unit	1CL
	• With test function ²⁾	1		3KD9103-6		1	1 unit	1CL
	• With leading NO contact and with test function ²⁾	1		3KD9103-7		1	1 unit	1CL
	Mounting brackets for auxiliary switch modules							
	• For mounting auxiliary switch modules on 3KF switch disconnectors with rear terminal	1		3KF9112-0AB00		1	1 unit	1DL
 3SB3400-0B auxiliary switch  3SB3400-0A auxiliary switch	Auxiliary switches for sizes 2 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							
	• 1 NO	2 to 5	▶	3SB3400-0B		1	1 unit	41J
	• 1 NO with gold-plated contacts	2 to 5		3SB3400-0BA		1	1 unit	41J
	• 1 NC	2 to 5	▶	3SB3400-0C		1	1 unit	41J
	• 1 NC with gold-plated contacts	2 to 5		3SB3400-0CA		1	1 unit	41J
	• 1 NO + 1 NC	2 to 5	▶	3SB3400-0A		1	1 unit	41J
	• 1 NO + 1 NC with gold-plated contacts	2 to 5		3SB3400-0AA		1	1 unit	41J
	• 2 NO	2 to 5		3SB3400-0D		1	1 unit	41J
	• 2 NO with gold-plated contacts	2 to 5		3SB3400-0DA		1	1 unit	41J
	• 2 NC	2 to 5		3SB3400-0E		1	1 unit	41J
	• 2 NC with gold-plated contacts	2 to 5		3SB3400-0EA		1	1 unit	41J

¹⁾ Unit is supplied without auxiliary switches; a maximum of 2 auxiliary switches can be installed. The 3KF9112-0AB00 mounting bracket is additionally required for mounting the auxiliary switch modules with rear terminal.

²⁾ Can only be used with 3KF with front and left operating mechanism.

Fuse monitoring

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
	Electronic fuse monitoring for remote display of tripped fuses Remote display by auxiliary contact (1 CO), Local detection by integrated LED						
	• For all sizes		3KF9010-1AA00		1	1 unit	1DL

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

Accessories and spare parts

Other accessories

		Version	For size/ for fuse LV HRC	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				d					
Phase barriers									
	For 3KF with flat terminals								
	For 3-pole devices (6 units)								
		2		3KD9308-6		1	1 unit	1CL	
		3...4		3KD9408-6		1	1 unit	1CL	
		5		3KD9508-6		1	1 unit	1CL	
	For 4-pole devices (8 units)								
		2		3KD9308-8		1	1 unit	1CL	
		3...4		3KD9408-8		1	1 unit	1CL	
		5		3KD9508-8		1	1 unit	1CL	
	Phase barrier for 3/4-pole units in size 2								
Cable connection covers									
	For 3KD with flat terminals								
	For 3-pole devices (6 units)								
	Standard length								
		2		3KD9304-6		1	1 unit	1CL	
		3		3KF9304-6		1	1 unit	1DL	
		4		3KD9404-6		1	1 unit	1CL	
		5		3KD9504-6		1	1 unit	1CL	
	Short version								
		2		3KD9304-7		1	1 unit	1CL	
		3		3KF9304-7		1	1 unit	1DL	
	4		3KD9404-7		1	1 unit	1CL		
Short version, for size 2 devices with 3 poles									
	For 4-pole devices (8 units)								
	Standard length								
		2		3KD9304-8		1	1 unit	1CL	
		3		3KF9304-8		1	1 unit	1DL	
		4		3KD9404-8		1	1 unit	1CL	
		5		3KD9504-8		1	1 unit	1CL	
	Short version								
		2		3KD9304-5		1	1 unit	1CL	
		3		3KF9304-5		1	1 unit	1DL	
		4		3KD9404-5		1	1 unit	1CL	
Short version, for size 2 devices with 3 poles									

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Accessories and spare parts**

Version		For size/ for fuse LV HRC	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
Spare cable connection cover (1 unit)								
	Standard length		5	3KD9504-1		1	1 unit	1CL
	Short version		2	3KD9304-1		1	1 unit	1CL
			3	3KF9304-1		1	1 unit	1DL
			4	3KD9404-1		1	1 unit	1CL
LV HRC isolating blades								
		with insulated grip lugs						
		LV HRC 000/00		3NG1002		1	3 units	1BM
		LV HRC 1		3NG1202		1	1 unit	1BM
		LV HRC 2		3NG1302		1	1 unit	1BM
		LV HRC 3		3NG1402		1	1 unit	1BM
Blocking pin test function								
		Enables permanent deactivation of the test function for auxiliary switches; it is installed in the operating mechanism module of the 3KF switch disconnector						
		Scope of supply: Blocking pins for 10 3KF switch disconnectors						
			1	3KF9112-1AA00		1	1 unit	1DL
			2 and 4	3KF9412-1AA00		1	1 unit	1DL
			5	3KF9512-1AA00		1	1 unit	1DL
								
								

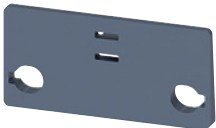
Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW**

Accessories and spare parts

Spare parts

	Version	For size/ for fuse LV HRC	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
All parts are included in scope of supply of the 3KF switch disconnector.								
Mounting brackets¹⁾								
Mounting brackets for one 3KF switch disconnector are included in the scope of supply								
   		1 ¹⁾		3KF9112-0AA00		1	1 unit	1DL
		2 ¹⁾		3KF9212-0AA00		1	1 unit	1DL
		3 and 4		3KF9412-0AA00		1	1 unit	1DL
		5		3KF9512-0AA00		1	1 unit	1DL
Mounting brackets for 3KF switch disconnectors with rear flat terminal²⁾								
Scope of supply: 2 units (2 units are required for one 3KF switch disconnector)		1 and 2		3KF9212-0AB00		1	1 unit	1DL
Slide for mounting on a standard mounting rail								
	- Spare part is included in the scope of supply of the 3KF - Contains 5 parts		1	3KF9112-0BA00		1	1 unit	1DL

¹⁾ Cannot be used for 3KF with rear flat terminal.

²⁾ The 3KF9112-0AB00 mounting bracket is needed if an auxiliary switch module is mounted on a 3KF1 switch disconnector with rear flat terminal (delivered quantity: 1 unit).

Switch Disconnectors

Switch Disconnectors with Fuses

3KF Switch Disconnectors with Fuses up to 800 A **NEW****Accessories and spare parts**

Version	For size/ for fuse LV HRC	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							

All parts are included in scope of supply
of the 3KF switch disconnector.

Fuse covers							
	1		3KF9112-0CA00		1	1 unit	1DL
	2 ¹⁾		3KF9212-0CA00		1	1 unit	1DL
	3		3KF9312-0CA00		1	1 unit	1DL
	4		3KF9412-0CA00		1	1 unit	1DL
	5		3KF9512-0CA00		1	1 unit	1DL

¹⁾ Use 3KF9212-0CB00 fuse cover for 3KF2 with rear terminal.

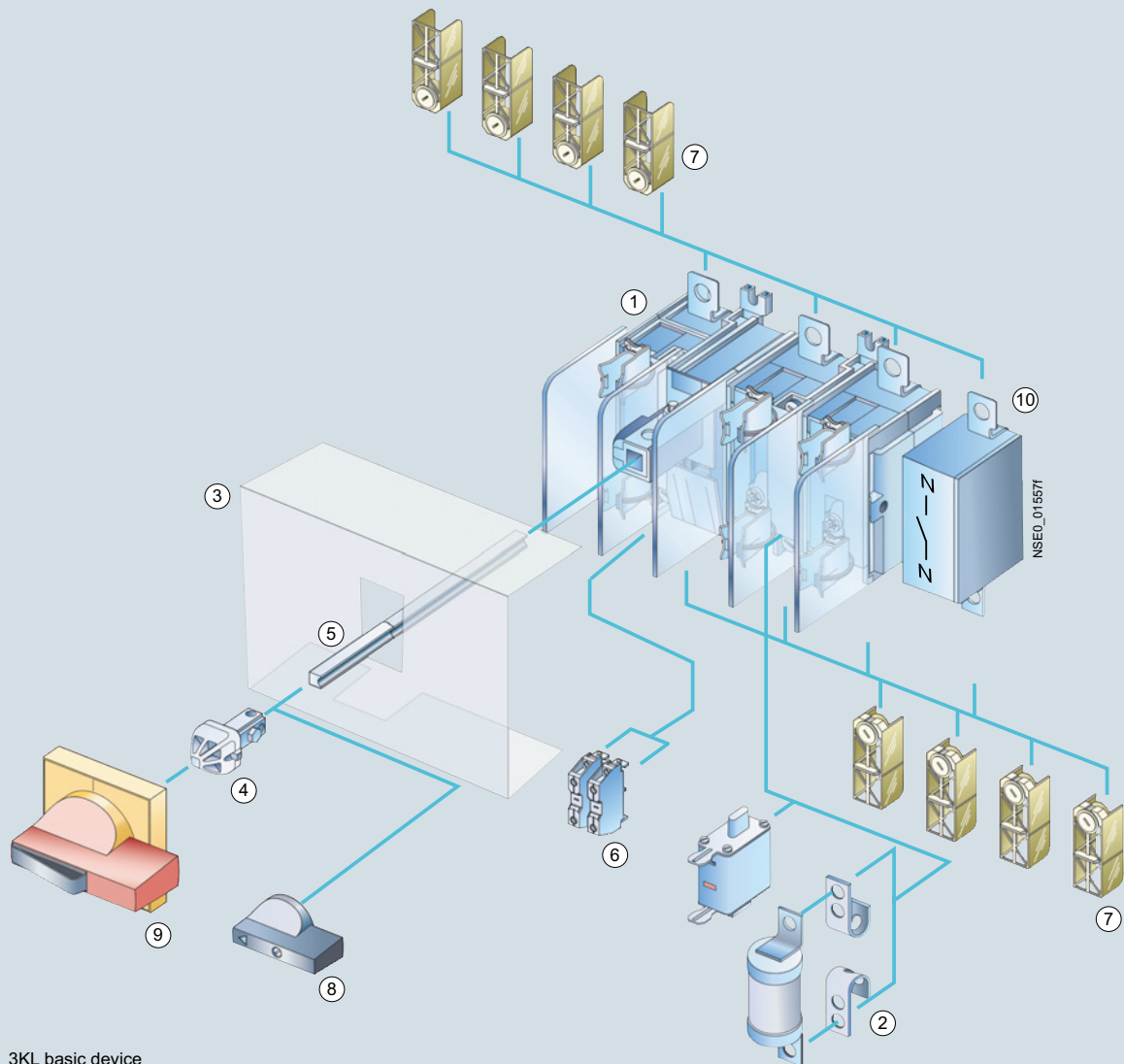
Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Introduction

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-gray) 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 a padlock to prevent 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 SITOP 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.

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 fuses	A	80	160	160	400	400	630 ⁴⁾	800
Max. permissible power loss of the installed fuse • LV-HRC • BS	W W	6 8 (A2/A3)	9 11.5 (A4)	11.5 11.5	32 32	45 45	48 48	62 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 (infeed from the top or bottom) At 400 V AC • Breaking current I_c (at p.f. = 0.35, rms value) • Rated operational current I_o at AC-21A, AC-22A, AC-23A • Motor switching capacity AC-23A	A A kW	500 63 30	1000 125 65	1280 160 80	2000 250 132	3200 400 200	5100 630 ⁶⁾ 335	6400 800 ⁶⁾ 400
At 500 V AC • Breaking current I_c (at p.f. = 0.35, rms value) • Rated operational current I_o at AC-21A, AC-22A, AC-23A • Motor switching capacity AC-23A	A A kW	500 63 40	1000 125 90	1280 160 110	2000 250 185	3200 400 280	5100 630 ⁶⁾ 425	6400 800 ⁶⁾ 500
At 690 V AC • Breaking current I_c (at p.f. = 0.35, rms value) • Rated operational current I_o at AC-21A, AC-22A, AC-23A • Motor switching capacity AC-23A	A A kW	500 63 50	1000 125 110	1280 160 150	2000 250 220	3200 400 375	5100 630 ⁶⁾ 560	6400 800 ⁶⁾ 700
At 440 V DC (3 conducting paths series-connected) ⁷⁾ • Breaking current I_c (L/R = 15 ms) • Rated operational current I_o at DC-23A	A A	250 63	500 125	640 160	1000 ⁸⁾ 250 ¹⁰⁾	1600 400	2520 ⁹⁾ 630 ¹⁰⁾	2520 ⁹⁾ 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 during storage						
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 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) Cable lug, max. conductor cross-section (stranded)	mm mm ²	25 x 9 35	45 x 10 70	45 x 10 120	40 x 12 150	40 x 15 2 x 150 or 1 x 240	40 x 17 2 x 240	40 x 17 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 Cable lug, max. conductor cross-section (stranded)	mm mm ²	-- --	-- --	-- --	20 x 2.5 70	20 x 2.5 120	-- --	-- --

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) DC-22A only (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

Switch Disconnectors with Fuses

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⁾ according to DIN 43620 ²⁾	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A	Size	Operational class					
		d					

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

3-pole for LV HRC fuse systems

63	00 and 000	gG, aM	3KL5030-1GB01	1	1 unit	1CL
125	00 and 000	gG, aM	3KL5230-1GB01	1	1 unit	1CL
160	00 and 000	gG, aM	3KL5330-1GB01	1	1 unit	1CL
250	1 and 2	gG, aM	3KL5530-1GB01	1	1 unit	1CL
400	2 and 1	gG, aM	3KL5730-1GB01	1	1 unit	1CL
630	3 and 2	gG, aM	3KL6130-1GB00	1	1 unit	1CL
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6130-1GB02	1	1 unit	1CL
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6230-1GB02	1	1 unit	1CL

4-pole for LV HRC fuse systems

63	00 and 000	gG, aM	3KL5040-1GB01	1	1 unit	1CL
125	00 and 000	gG, aM	3KL5240-1GB01	1	1 unit	1CL
160	00 and 000	gG, aM	3KL5340-1GB01	1	1 unit	1CL
250	1 and 2	gG, aM	3KL5540-1GB01	1	1 unit	1CL
400	2 and 1	gG, aM	3KL5740-1GB01	1	1 unit	1CL
630	3 and 2	gG, aM	3KL6140-1GB00	1	1 unit	1CL

3-pole for fuses acc. to BS 88

63	Form A2/A3		3KL5030-1GG01	1	1 unit	1CL
125	Form A2/A3		3KL5230-1GG01	1	1 unit	1CL
125	Form A4		3KL5230-1GJ01	1	1 unit	1CL
160	Form A4		3KL5330-1GJ01	1	1 unit	1CL
250	Form B1-B3		3KL5530-1GG01	1	1 unit	1CL
400	Form B1-B3		3KL5730-1GG01	1	1 unit	1CL
630	Form C1-C3		3KL6130-1GG00	1	1 unit	1CL

4-pole for fuses acc. to BS 88

63	Form A2/A3		3KL5040-1GG01	1	1 unit	1CL
125	Form A2/A3		3KL5240-1GG01	1	1 unit	1CL
125	Form A4		3KL5240-1GJ01	1	1 unit	1CL
160	Form A4		3KL5340-1GJ01	1	1 unit	1CL
250	Form B1-B3		3KL5540-1GG01	1	1 unit	1CL
400	Form B1-B3		3KL5740-1GG01	1	1 unit	1CL
630	Form C1-C3		3KL6140-1GG00	1	1 unit	1CL

Basic switch versions without handle

3-pole for LV HRC fuse systems

63	00 and 000	gG, aM	3KL5030-1AB01	1	1 unit	1CL
125	00 and 000	gG, aM	3KL5230-1AB01	1	1 unit	1CL
160	00 and 000	gG, aM	3KL5330-1AB01	1	1 unit	1CL
250	1 and 2	gG, aM	3KL5530-1AB01	1	1 unit	1CL
400	2 and 1	gG, aM	3KL5730-1AB01	1	1 unit	1CL
630	3 and 2	gG, aM	3KL6130-1AB0	1	1 unit	1CL
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6130-1AB02	1	1 unit	1CL
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL6230-1AB02	1	1 unit	1CL

4-pole for LV HRC fuse systems

63	00 and 000	gG, aM	3KL5040-1AB01	1	1 unit	1CL
125	00 and 000	gG, aM	3KL5240-1AB01	1	1 unit	1CL
160	00 and 000	gG, aM	3KL5340-1AB01	1	1 unit	1CL
250	1 and 2	gG, aM	3KL5540-1AB01	1	1 unit	1CL
400	2 and 1	gG, aM	3KL5740-1AB01	1	1 unit	1CL
630	3 and 2	gG, aM	3KL6140-1AB00	1	1 unit	1CL

3-pole for fuses acc. to BS 88

63	Form A2/A3		3KL5030-1AG01	1	1 unit	1CL
125	Form A2/A3		3KL5230-1AG01	1	1 unit	1CL
125	Form A4		3KL5230-1AJ01	1	1 unit	1CL
160	Form A4		3KL5330-1AJ01	1	1 unit	1CL
250	Form B1-B3		3KL5530-1AG01	1	1 unit	1CL
400	Form B1-B3		3KL5730-1AG01	1	1 unit	1CL
630	Form C1-C3		3KL6130-1AG00	1	1 unit	1CL



3KL5230-1AB01



3KL5240-1AB01



3KL5230-1AJ01

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

Footnotes, [see page 7/151](#).

Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Floor mounting

	Rated uninterrupted current I_u	LV HRC fuse links ¹⁾ according to DIN 43620 ²⁾		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		Size	Operational class						
	A			d					
4-pole for fuses acc. to BS 88									
	63	Form A2/A3			3KL5040-1AG01		1	1 unit	1CL
	125	Form A2/A3			3KL5240-1AG01		1	1 unit	1CL
	125	Form A4			3KL5240-1AJ01		1	1 unit	1CL
	160	Form A4			3KL5340-1AJ01		1	1 unit	1CL
	250	Form B1-B3			3KL5540-1AG01		1	1 unit	1CL
	400	Form B1-B3			3KL5740-1AG01		1	1 unit	1CL
	630	Form C1-C3			3KL6140-1AG00		1	1 unit	1CL
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle									
3-pole for LV HRC fuse systems									
	63	00 and 000	gG, aM		8UC7121-3BB10		1	1 unit	1CL
	125	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
	160	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
	250	1 and 2	gG, aM		8UC7323-3BB30		1	1 unit	1CL
	400	2 and 1	gG, aM		8UC7323-3BB30		1	1 unit	1CL
	630	3 and 2	gG, aM		8UC7424-3BB44		1	1 unit	1CL
				▶	8UC9253		1	1 unit	1CL
	800	3 and 2	gG, aM		8UC7424-3BB44		1	1 unit	1CL
				▶	8UC9253		1	1 unit	1CL
4-pole for LV HRC fuse systems									
	63	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
	125	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
	160	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
	250	1 and 2	gG, aM		8UC7323-3BB30		1	1 unit	1CL
	400	2 and 1	gG, aM		8UC7323-3BB30		1	1 unit	1CL
	630	3 and 2	gG, aM		8UC7424-3BB44		1	1 unit	1CL
				▶	8UC9253		1	1 unit	1CL
3-pole for fuses acc. to BS 88									
	63	Form A2/A3			8UC7121-3BB10		1	1 unit	1CL
	125	Form A2/A3			8UC7222-3BB20		1	1 unit	1CL
	125	Form A4			8UC7222-3BB20		1	1 unit	1CL
	160	Form A4			8UC7222-3BB20		1	1 unit	1CL
	250	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL
	400	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL
	630	Form C1-C3			8UC7424-3BB44		1	1 unit	1CL
				▶	8UC9253		1	1 unit	1CL
	800	Form C1-C3			8UC7424-3BB44		1	1 unit	1CL
				▶	8UC9253		1	1 unit	1CL
4-pole for fuses acc. to BS 88									
	63	Form A2/A3			8UC7222-3BB20		1	1 unit	1CL
	125	Form A2/A3			8UC7222-3BB20		1	1 unit	1CL
	125	Form A4			8UC7222-3BB20		1	1 unit	1CL
	160	Form A4			8UC7222-3BB20		1	1 unit	1CL
	250	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL
	400	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL
	630	Form C1-C3			8UC7424-3BB44		1	1 unit	1CL
				▶	8UC9253		1	1 unit	1CL

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

Footnotes for page 7/150 and page 7/151:

- ¹⁾ Silver-plated fuse blades. Silver-plated isolating blades can be used if desired.
- ²⁾ For the assignment of semiconductor fuses, [see page 7/156](#).
- ³⁾ With SITOP 3NE fuse links  us-approved.

Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Front mounting

Selection and ordering data

All switch disconnectors with degree of protection IP00

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

Rated uninterrupted current I_u	LV HRC fuse links ¹⁾ according to DIN 43620 ²⁾	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A	Size	Operational class					
		d					

Assembly kits (IP40) comprising: Lockable handle, cover for LV HRC 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
125	00	gG, aM	3KX3526-3AA	1	1 unit	1CL
160	00	gG, aM	3KX3536-3AA	1	1 unit	1CL
250	1 and 2	gG, aM	3KX3556-3AA	1	1 unit	1CL
400	2 and 1	gG, aM	3KX3556-3AA	1	1 unit	1CL

• EMERGENCY-STOP red handle

63	00	gG, aM	3KX3516-3BA	1	1 unit	1CL
125	00	gG, aM	3KX3526-3BA	1	1 unit	1CL
160	00	gG, aM	3KX3536-3BA	1	1 unit	1CL
250	1 and 2	gG, aM	3KX3556-3BA	1	1 unit	1CL
400	2 and 1	gG, aM	3KX3556-3BA	1	1 unit	1CL

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 7/156](#).

Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Selection and ordering data

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

Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Version		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d				
3KL50 40/3KL52/3KL53							
 3KX3552-3DA01	Terminal covers For 3-pole devices (1 set = 6 units)						
	• 3KL52 • 3KL53	▶	3KX3552-3DA01		1	1 unit	1CL
 3KX35.7-3AA	For 4-pole devices (1 set = 8 units)	▶	3KX3553-3DA01		1	1 unit	1CL
	• 3KL50 40, 3KL52 • 3KL53		3KX3552-3DB01		1	1 unit	1CL
			3KX3553-3DB01		1	1 unit	1CL
	Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶	3KX3527-3AA		1	1 unit	1CL
 3KX3507-0BA01	Cover IP20 For 3KL52 3-pole devices	▶	3KX3527-0CA02		1	1 unit	1CL
	Cover IP20 For 3KL53 3-pole devices	▶	3KX3537-0CA02		1	1 unit	1CL
	Fuse partitions (1 set = 5 units)	▶	3KX3507-0AA01		1	1 unit	1CL
	Lyre-shaped fuse covers (1 set = 6 units)		3KX3507-0BA01		1	1 unit	1CL
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7212-1BB20 8UC7222-3BB20		1 1	1 unit 1 unit	1CL 1CL
	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3536-1AA		1	1 unit	1CL
 3SB1400-0A	Extension shaft 300 mm long		8UC6032		1	1 unit	1CL
	Extension shaft 600 mm long		8UC6082		1	1 unit	1CL
	Shaft connecting pieces		8UC6022		1	1 unit	1CL
	Auxiliary switches 1 NO + 1 NC 1 NO + 1 NC, 20 ms leading		3SB1400-0A 3KX3552-3EA01		1 1	1 unit 1 unit	41J 1CL
	Fuse monitor connections (1 set = 6 units)		3KX3505-0AA		1	1 unit	1CL

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

Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
3KL55/3KL57						
 3KL55.7-3AA	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
	Fuse covers (interlock only detachable in the OFF position)	▶ 3KX3557-3AA		1	1 unit	1CL
	Cover IP20 For 3-pole devices	▶ 3KX3557-0CA02		1	1 unit	1CL
	Fuse partitions (1 set = 5 units)	▶ 3KX3557-0AA01		1	1 unit	1CL
	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
	Operating mechanisms for fixed mounting, size 3 Black handle, shaft 250 mm	▶ 3KX3176-1E		1	1 unit	1CL
	Extension shaft 300 mm long	8UC6033		1	1 unit	1CL
	Extension shaft 600 mm long	8UC6083		1	1 unit	1CL
	Shaft connecting pieces	8UC6023		1	1 unit	1CL
	Auxiliary switches 1 NO + 1 NC 1 NO + 1 NC, 20 ms leading	3SB1400-0A 3KX3552-3EA01		1 1	1 unit 1 unit	41J 1CL
	Fuse monitor connections (1 set = 6 units)	3KX3505-0AA		1	1 unit	1CL
	3KL61/3KL62					
 8UC9253	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
	Fuse covers Cover plate Complete covers ¹⁾	3KX3561-0AA00 3KX3561-1AA00		1 1	1 unit 1 unit	1CL 1CL
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	8UC7414-1BB44 + 8UC9253		1 1	1 unit 1 unit	1CL 1CL
	EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC7424-3BB44 + 8UC9253		1 1	1 unit 1 unit	1CL 1CL
	Operating mechanisms for fixed mounting, size 5 Black handle, shaft 250 mm	▶ 3KX3616-1A		1	1 unit	1CL
	Extension shaft 300 mm long	8UC6034		1	1 unit	1CL
	Extension shaft 600 mm long	8UC6084		1	1 unit	1CL
	Shaft connecting pieces	8UC6024		1	1 unit	1CL
	Auxiliary switches ²⁾ 1 NO + 1 NC	3KX3612-1B		1	1 unit	1CL

¹⁾ Only for LV HRC fuse systems.²⁾ For more 3SB3400-0, contact blocks with other contact types, see Catalog IC 10, chapter 'Commanding and Signaling Devices'.

Switch Disconnectors

Switch Disconnectors with Fuses

3KL Switch Disconnectors with Fuses up to 800 A

Fuses

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.

Note

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

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 A	Rated voltage ³⁾ V AC	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
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

Switch Disconnectors

Switch Disconnectors with Fuses

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 A	Rated voltage ³⁾ V AC	Operational class	Size	Required conductor cross-section C_u mm ²	Type 3KL			Alternative type 3KL		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ⁴⁾ A
3NE1436-0	630	690	gS	3	2x 185	3KL61	3	630	3KL62	3	630
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⁾ For 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).

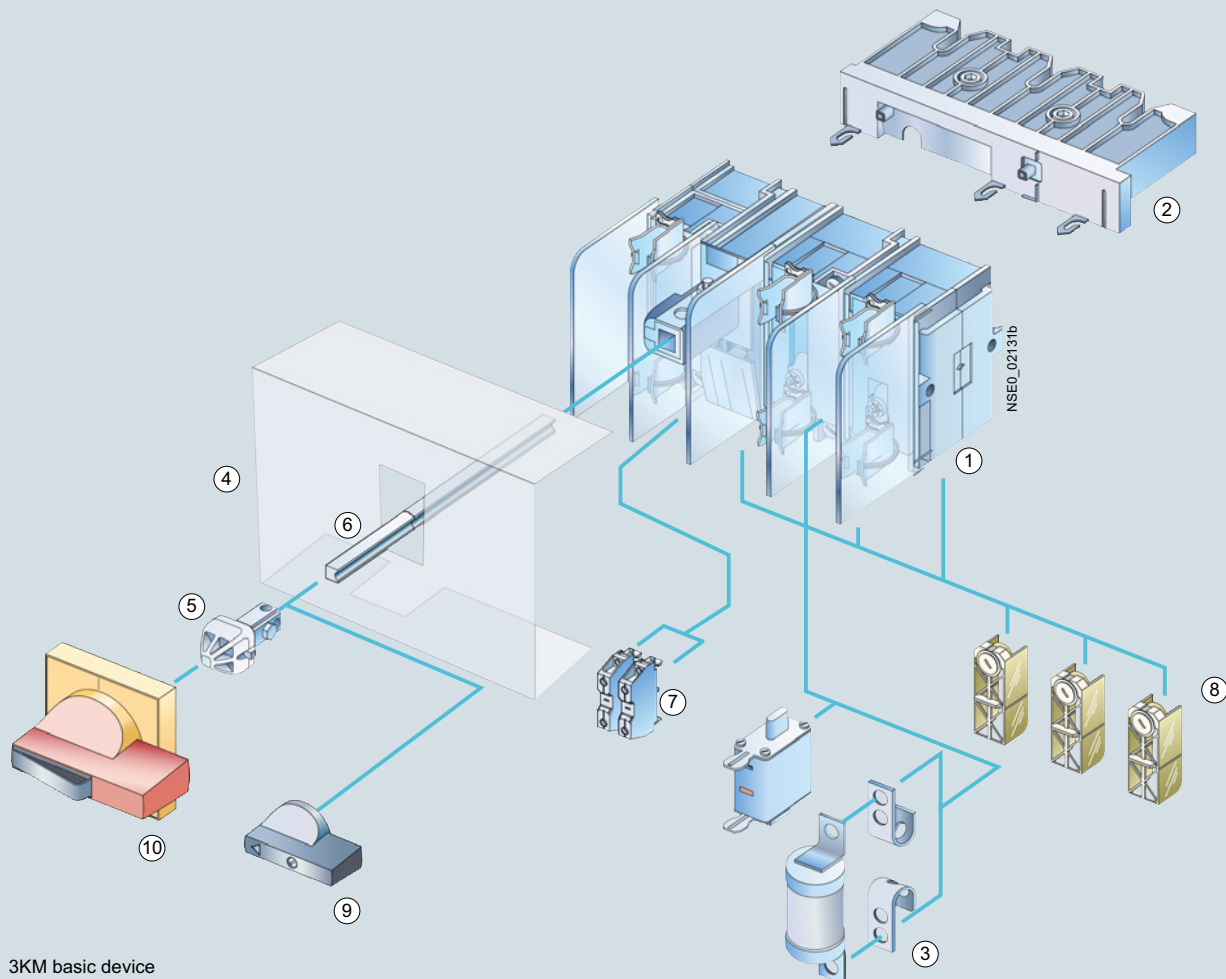
Switch Disconnectors

Switch Disconnectors with Fuses

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

Introduction

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-gray) 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 a padlock to prevent unauthorized reclosing.

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

Application

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 SITOP 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.

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 SITOP 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
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 V V	690 440 (3 conducting paths series-connected) 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 fuses	A	80	160	160	400	400
Max. permissible power loss of the installed fuse						
• LV HRC	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 at 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 at 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 at AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	50	110	150	220	375
At 440 V DC (3 conducting paths series-connected) ⁴⁾						
• Breaking current I_C (L/R = 15 ms)	A	250	500	640	1000 ⁴⁾	1600
• Rated operational current I_e at DC-23A	A	63	125	160	250 ⁵⁾	400
Rated short-time current (1 s current), rms value	kA	2.5	3.2	3.2	8	11
Permissible ambient temperature	°C °C	-25 ... +55 for operation ⁶⁾ -50 ... +80 during storage				
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 at I_{th} (plus power loss of the fuses)	W	8.5	22	36	33	86
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
Cable lug, max. conductor cross-section (stranded)	mm ²	35	70	120	150	2 x 150 or 1 x 240
Busbar systems, max. dimensions (W x T)	mm	25 x 9	45 x 10	45 x 10	40 x 12	40 x 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 x 2.5	20 x 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.

Switch Disconnectors

Switch Disconnectors with Fuses

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

For snapping onto busbar system

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 A	LV HRC fuse links ¹⁾ according to DIN 43620 ²⁾ Size	Operational class	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
--	---	----------------------	----	--	-----------------	----------------------------	----	----

Complete versions with 8UC7 door-coupling rotary operating mechanism

3-pole for LV HRC fuse systems

- (black handle)

63	00 and 000	gG, aM		3KM5030-1GB01		1	1 unit	1CL
125	00 and 000	gG, aM		3KM5230-1GB01		1	1 unit	1CL
160	00 and 000	gG, aM		3KM5330-1GB01		1	1 unit	1CL
250	1 and 2	gG, aM		3KM5530-1GB01		1	1 unit	1CL
400	2 and 1	gG, aM		3KM5730-1GB01		1	1 unit	1CL

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
125	Form A4			3KM5230-1GJ01		1	1 unit	1CL
160	Form A4			3KM5330-1GJ01		1	1 unit	1CL
250	Form B1-B3			3KM5530-1GG01		1	1 unit	1CL
400	Form B1-B3			3KM5730-1GG01		1	1 unit	1CL

Basic switch versions without handle

3-pole for LV HRC fuse systems

63	00 and 000	gG, aM		3KM5030-1AB01		1	1 unit	1CL
125	00 and 000	gG, aM		3KM5230-1AB01		1	1 unit	1CL
160	00 and 000	gG, aM		3KM5330-1AB01		1	1 unit	1CL
250	1 and 2	gG, aM		3KM5530-1AB01		1	1 unit	1CL
400	2 and 1	gG, aM		3KM5730-1AB01		1	1 unit	1CL

3KM5330-1AB01
with fuses

3-pole for fuses acc. to BS 88

63	Form A2/A3			3KM5030-1AG01		1	1 unit	1CL
125	Form A2/A3			3KM5230-1AG01		1	1 unit	1CL
125	Form A4			3KM5230-1AJ01		1	1 unit	1CL
160	Form A4			3KM5330-1AJ01		1	1 unit	1CL
250	Form B1-B3			3KM5530-1AG01		1	1 unit	1CL
400	Form B1-B3			3KM5730-1AG01		1	1 unit	1CL

3KM5530-1AG01
with fuses

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



8UC7121-3BB10

63	00 and 000	gG, aM		8UC7121-3BB10		1	1 unit	1CL
125	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
160	00 and 000	gG, aM		8UC7222-3BB20		1	1 unit	1CL
250	1 and 2	gG, aM		8UC7323-3BB30		1	1 unit	1CL
400	2 and 1	gG, aM		8UC7323-3BB30		1	1 unit	1CL

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

63	Form A2/A3			8UC7121-3BB10		1	1 unit	1CL
125	Form A2/A3			8UC7222-3BB20		1	1 unit	1CL
125	Form A4			8UC7222-3BB20		1	1 unit	1CL
160	Form A4			8UC7222-3BB20		1	1 unit	1CL
250	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL
400	Form B1-B3			8UC7323-3BB30		1	1 unit	1CL

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 7/163](#).

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

Selection and ordering data

Version		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
3KM50							
	Terminal covers For 3-pole devices (1 set = 6 units)	►	3KX3552-3DA01		1	1 unit	1CL
	Fuse covers (interlock only detachable in the OFF position)	►	3KX3517-3AA		1	1 unit	1CL
	Fuse partitions (1 set = 5 units)	►	3KX3507-0AA01		1	1 unit	1CL
	Lyre-shaped fuse covers (1 set = 6 units)		3KX3507-0BA01		1	1 unit	1CL
Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm			8UC7111-1BB10		1	1 unit	1CL
			8UC7121-3BB10		1	1 unit	1CL
Operating mechanisms for fixed mounting Black handle, shaft 250 mm			► 3KX3516-1AA		1	1 unit	1CL
Extension shaft 300 mm long			8UC6031		1	1 unit	1CL
Extension shaft 600 mm long			8UC6081		1	1 unit	1CL
Shaft connecting pieces			8UC6021		1	1 unit	1CL
Auxiliary switches 1 NO + 1 NC			3SB1400-0A		1	1 unit	41J
Fuse monitor connections (1 set = 6 units)			3KX3505-0AA		1	1 unit	1CL
3KM52/3KM53							
	Terminal covers For 3-pole devices (1 set = 6 units)	►	3KX3552-3DA01		1	1 unit	1CL
		►	3KX3553-3DA01		1	1 unit	1CL
	Fuse covers¹⁾ (interlock only detachable in the OFF position)	►	3KX3527-3AA		1	1 unit	1CL
	Fuse partitions (1 set = 5 units)	►	3KX3507-0AA01		1	1 unit	1CL
	Lyre-shaped fuse covers (1 set = 6 units)		3KX3507-0BA01		1	1 unit	1CL
Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm			8UC7212-1BB20		1	1 unit	1CL
			8UC7222-3BB20		1	1 unit	1CL
Operating mechanisms for fixed mounting Black handle, shaft 250 mm			► 3KX3536-1AA		1	1 unit	1CL

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

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 3SB1400-0A	Extension shaft 300 mm long		8UC6032		1	1 unit	1CL
	Extension shaft 600 mm long		8UC6082		1	1 unit	1CL
	Shaft connecting pieces		8UC6022		1	1 unit	1CL
	Auxiliary switches						
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J
	20 ms leading, 1 NO + 1 NC		3KX3552-3EA01		1	1 unit	1CL
	Fuse monitor connections (1 set = 6 units)		3KX3505-0AA		1	1 unit	1CL
3KM55/3KM57							
 3KX35.7-3AA	Terminal covers						
	For 3-pole devices (1 set = 6 units)	►	3KX3557-3DA01		1	1 unit	1CL
	For 4-pole devices (1 set = 8 units)		3KX3557-3DB01		1	1 unit	1CL
	Fuse covers (interlock only detachable in the OFF position)	►	3KX3557-3AA		1	1 unit	1CL
 3KX3557-0AA01	Fuse partitions (1 set = 5 units)	►	3KX3557-0AA01		1	1 unit	1CL
 3KX3176-1E	Door-coupling rotary operating mechanisms IP65						
	Black handle, shaft 300 mm		8UC7313-1BB30		1	1 unit	1CL
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC7323-3BB30		1	1 unit	1CL
	Operating mechanisms for fixed mounting, size 3	►	3KX3176-1E		1	1 unit	1CL
	Black handle, shaft 250 mm						
 3SB1400-0A	Extension shaft 300 mm long		8UC6033		1	1 unit	1CL
	Extension shaft 600 mm long		8UC6083		1	1 unit	1CL
	Shaft connecting pieces		8UC6023		1	1 unit	1CL
	Auxiliary switches						
	1 NO + 1 NC		3SB1400-0A		1	1 unit	41J
	20 ms leading, 1 NO + 1 NC		3KX3552-3EA01		1	1 unit	1CL
	Fuse monitor connections (1 set = 6 units)		3KX3505-0AA		1	1 unit	1CL

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⁾ V AC	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KM			Alternative type 3KM		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ⁴⁾ 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	--	--	--

Switch Disconnectors

Switch Disconnectors with Fuses

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

Fuses

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⁾ V AC	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KM			Alternative type 3KM		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ⁴⁾ 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⁾ For 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).

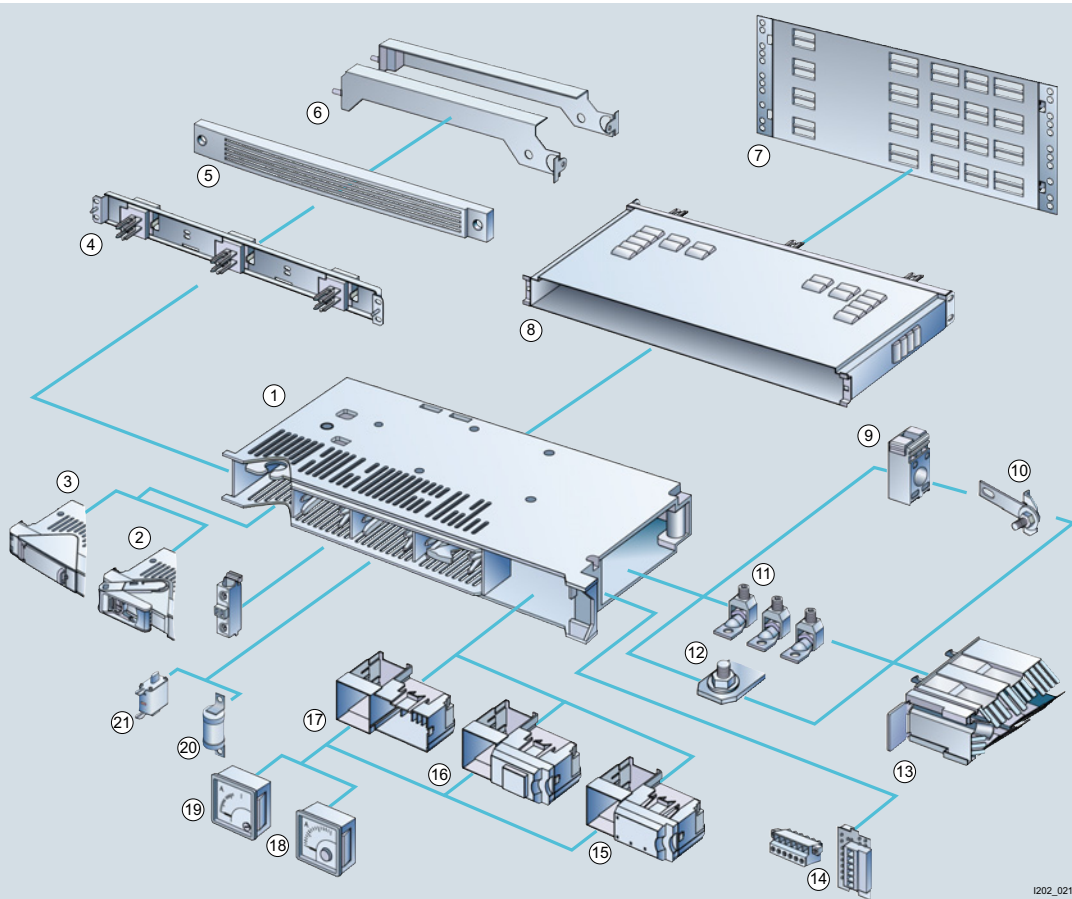
⁵⁾ The fuse can also be operated at a higher rated uninterrupted current than the 125 A current of the 3KM52. However, in this case, the 3KM52 must not be switched under load (utilization category AC-20).

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

I202_02142

- | | |
|---|---|
| ① 3NJ62 switch disconnector basic device here in size 00, open, without front cover | ⑪ Connection terminals |
| ② Manual operating mechanism | ⑫ Stud terminal |
| ③ Motorized operating mechanism | ⑬ Terminal cover |
| ④ Connection module | ⑭ Multifunction plug |
| ⑥ Blanking cover | ⑮ Holder for measuring device with electronic fuse monitoring (EFM 10) |
| ⑤ Guide rails | ⑯ Holder for measuring device with electronic fuse monitoring (EFM 20/25) |
| ⑦ Busbar cover | ⑰ Holder for measuring device without EFM |
| ⑧ Contact extension | ⑱ Bimetal current measuring device |
| ⑨ Current transformer | ⑲ Moving-iron current measuring device |
| ⑩ Current transformer bar | ⑳ BS fuse |
| | ㉑ LV HRC fuse |
| | ㉒ Auxiliary switch |

Switch Disconnectors

Switch Disconnectors with Fuses

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

Introduction

Benefits

Key advantages for switchboard manufacturers thanks 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 with a depth > 400 mm, 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:

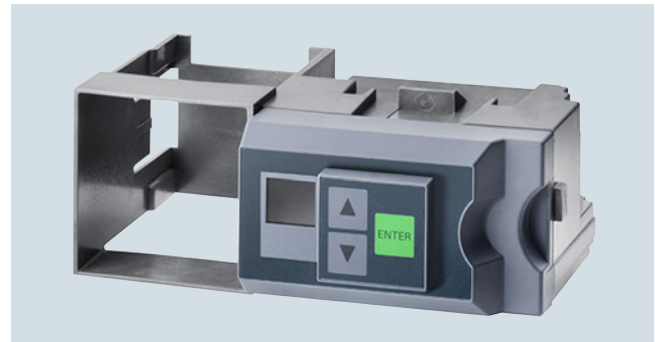
- For use up to 690 V AC
- Operational voltage < 20 V
- Display: Ready-to-run
- Individual fault display per phase
- 1 CO contact as centralized fault signaling unit

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), undervoltage/overvoltage detection



EFM10 electronic fuse monitoring device



EFM20/25 electronic fuse monitoring device

Technical specifications

Main devices of sizes 00 and 1

Size		00								1					
Switch disconnectors with fuses type 3NJ62...	LV HRC			...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	
	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 50/60 Hz 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		
Service life															
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 position		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.

Switch Disconnectors

Switch Disconnectors with Fuses

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

Introduction

Main devices of sizes 2 and 3

Size		2				3						
Switch disconnectors with fuses type 3NJ62...	LV HRC	...22-3 ...22-4		...23-1 ...24-1 ...24-2	...23-3 ...23-4		...32-3 ...32-4		...33-1 ...34-1 ...34-2		...33-3 ...33-4	
		...82-3 ...82-4			...83-3 ...83-4		...92-3 ...92-4		...94-1 ...94-2		...93-3 ...93-4 ...33-3 ...33-4	
	BS											
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 acc. to IEC 60269/ BS88		A	400				630		500	630	500	
For fuse links acc. 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 50/60 Hz 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
Service life												
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 position			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 DIN 46235 (Cu) and DIN 46239 (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

Switch Disconnectors with Fuses

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 devices, 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 or 500 A)	°C	- 5 ... + 35		
Degree of protection in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V AC Hz	230 ... 690 50/60		
Voltage limits	%	±15		
Signaling relay acc. to IEC 60947-5-1	A kV V	$I_{th} = 1.5$ $U_{imp} = 4$ $U_i = 250$		
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 devices, 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 or 500 A)	°C	- 5 ... + 35		
Degree of protection in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V AC Hz	230 ... 690 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 kV V	$I_{th} = 1.5$ $U_{imp} = 4$ $U_i = 250$		
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 aLgG		

Electronic fuse monitoring devices, 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 or 500 A)	°C	- 5 ... + 35		
Degree of protection 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 kV V	$I_{th} = 1.5$ $U_{imp} = 4$ $U_i = 250$		
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	1.2 times Double		
• Moving-iron measuring instruments			
• Bi-metal measuring instruments			
Slave pointer	-- 15		
• Moving-iron measuring instruments	min		
• Bi-metal measuring instruments	min		
Power consumption	0.6 1		
• Moving-iron measuring instruments	VA		
• Bi-metal measuring instruments	VA		

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)		1600 200		
Operating cycles total				
Operating cycles under load				
Signal duration	s	Min. 0.5 or continuous signal		

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC fuse links

Selection and ordering data

	Rated current I_n	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
2-pole, high breaking capacity H								
	Manually operated							
	160	00		3NJ6202-3AA0□-0AA0		1	1 unit	1DL
	250	1		3NJ6212-3AA0□-0AA0		1	1 unit	1DL
	400	2		3NJ6222-3AA0□-0AA0		1	1 unit	1DL
	630	3		3NJ6232-3AA0□-0AA0		1	1 unit	1DL
	Manually operated, EFM 25							
	160	00		3NJ6202-3AE0□-0AA0		1	1 unit	1DL
	250	1		3NJ6212-3AE0□-0AA0		1	1 unit	1DL
	400	2		3NJ6222-3AE0□-0AA0		1	1 unit	1DL
	630	3		3NJ6232-3AE0□-0AA0		1	1 unit	1DL
	Motorized operating mechanism							
	160	00		3NJ6202-4AA0□-0AA0		1	1 unit	1DL
	250	1		3NJ6212-4AA0□-0AA0		1	1 unit	1DL
	400	2		3NJ6222-4AA0□-0AA0		1	1 unit	1DL
	630	3		3NJ6232-4AA0□-0AA0		1	1 unit	1DL
	Motorized operating mechanism, EFM 25							
	160	00		3NJ6202-4AE0□-0AA0		1	1 unit	1DL
	250	1		3NJ6212-4AE0□-0AA0		1	1 unit	1DL
	400	2		3NJ6222-4AE0□-0AA0		1	1 unit	1DL
	630	3		3NJ6232-4AE0□-0AA0		1	1 unit	1DL
3-pole, standard breaking capacity S								
	Manually operated							
	160	00		3NJ6203-1AA0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-1AA0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-1AA0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-1AA0□-□□□□		1	1 unit	1DL
	Manually operated, EFM 10							
	160	00		3NJ6203-1AB0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-1AB0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-1AB0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-1AB0□-□□□□		1	1 unit	1DL
	Manually operated, EFM 20							
	160	00		3NJ6203-1AC0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-1AC0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-1AC0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-1AC0□-□□□□		1	1 unit	1DL
3-pole, high breaking capacity H								
	Manually operated							
	160	00		3NJ6203-3AA0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-3AA0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-3AA0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-3AA0□-□□□□		1	1 unit	1DL
	Manually operated, EFM 10							
	160	00		3NJ6203-3AB0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-3AB0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-3AB0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-3AB0□-□□□□		1	1 unit	1DL
	Manually operated, EFM 20							
	160	00		3NJ6203-3AC0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-3AC0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-3AC0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-3AC0□-□□□□		1	1 unit	1DL
	Motorized operating mechanism							
	160	00		3NJ6203-4AA0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-4AA0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-4AA0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-4AA0□-□□□□		1	1 unit	1DL
	Motorized operating mechanism, EFM 10							
	160	00		3NJ6203-4AB0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-4AB0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-4AB0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-4AB0□-□□□□		1	1 unit	1DL
	Motorized operating mechanism, EFM 20							
	160	00		3NJ6203-4AC0□-□□□□		1	1 unit	1DL
	250	1		3NJ6213-4AC0□-□□□□		1	1 unit	1DL
	400	2		3NJ6223-4AC0□-□□□□		1	1 unit	1DL
	630	3		3NJ6233-4AC0□-□□□□		1	1 unit	1DL

Standard Article No. supplement
(for more Article No. supplements, [see page 7/174](#))

Without auxiliary switches, ammeters or current transformers

Article No. supplement

Add. price

0 0AA0

None

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC fuse links

Rated current I_n	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A		d					
4-pole, standard breaking capacity S							
Manually operated							
160	00		3NJ6204-1AA0□-□□□□		1	1 unit	1DL
250	1		3NJ6214-1AA0□-□□□□		1	1 unit	1DL
400	2		3NJ6224-1AA0□-□□□□		1	1 unit	1DL
630	3		3NJ6234-1AA0□-□□□□		1	1 unit	1DL
Manually operated, EFM 10							
160	00		3NJ6204-1AB0□-□□□□		1	1 unit	1DL
250	1		3NJ6214-1AB0□-□□□□		1	1 unit	1DL
400	2		3NJ6224-1AB0□-□□□□		1	1 unit	1DL
630	3		3NJ6234-1AB0□-□□□□		1	1 unit	1DL
Manually operated, EFM 20							
160	00		3NJ6204-1AC0□-□□□□		1	1 unit	1DL
250	1		3NJ6214-1AC0□-□□□□		1	1 unit	1DL
400	2		3NJ6224-1AC0□-□□□□		1	1 unit	1DL
630	3		3NJ6234-1AC0□-□□□□		1	1 unit	1DL
Motorized operating mechanism							
160	00		3NJ6204-2AA0□-□□□□		1	1 unit	1DL
250	1		3NJ6214-2AA0□-□□□□		1	1 unit	1DL
400	2		3NJ6224-2AA0□-□□□□		1	1 unit	1DL
630	3		3NJ6234-2AA0□-□□□□		1	1 unit	1DL
Motorized operating mechanism, EFM 10							
160	00		3NJ6204-2AB0□-□□□□		1	1 unit	1DL
250	1		3NJ6214-2AB0□-□□□□		1	1 unit	1DL
400	2		3NJ6224-2AB0□-□□□□		1	1 unit	1DL
630	3		3NJ6234-2AB0□-□□□□		1	1 unit	1DL
Motorized operating mechanism, EFM 20							
160	00		3NJ6204-2AC0□-□□□□		1	1 unit	1DL
250	1		3NJ6214-2AC0□-□□□□		1	1 unit	1DL
400	2		3NJ6224-2AC0□-□□□□		1	1 unit	1DL
630	3		3NJ6234-2AC0□-□□□□		1	1 unit	1DL
Article No. supplement				Additional price			
Standard Article No. supplement (for more Article No. supplements, see page 7/174) Without auxiliary switches, ammeters or current transformers				 0 0AA0			
				None			

7

Switch Disconnectors

Switch Disconnectors with Fuses

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

For BS fuse links

Selection and ordering data

Rated current I_n	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A		d					
2-pole, high breaking capacity H							
Manually operated							
160	00T ¹⁾		3NJ6262-3AA0□-0AA0		1	1 unit	1DL
250	B2		3NJ6272-3AA0□-0AA0		1	1 unit	1DL
400	B4		3NJ6282-3AA0□-0AA0		1	1 unit	1DL
630	3T ¹⁾		3NJ6292-3AA0□-0AA0		1	1 unit	1DL
Manually operated, EFM 25							
160	00T ¹⁾		3NJ6262-3AE0□-0AA0		1	1 unit	1DL
250	B2		3NJ6272-3AE0□-0AA0		1	1 unit	1DL
400	B4		3NJ6282-3AE0□-0AA0		1	1 unit	1DL
630	3T ¹⁾		3NJ6292-3AE0□-0AA0		1	1 unit	1DL
Motorized operating mechanism							
160	00T ¹⁾		3NJ6262-4AA0□-0AA0		1	1 unit	1DL
250	B2		3NJ6272-4AA0□-0AA0		1	1 unit	1DL
400	B4		3NJ6282-4AA0□-0AA0		1	1 unit	1DL
630	3T ¹⁾		3NJ6292-4AA0□-0AA0		1	1 unit	1DL
Motorized operating mechanism, EFM 25							
160	00T ¹⁾		3NJ6262-4AE0□-0AA0		1	1 unit	1DL
250	B2		3NJ6272-4AE0□-0AA0		1	1 unit	1DL
400	B4		3NJ6282-4AE0□-0AA0		1	1 unit	1DL
630	3T ¹⁾		3NJ6292-4AE0□-0AA0		1	1 unit	1DL
3-pole, high breaking capacity H							
Manually operated							
63	A3		3NJ6243-3AA0□-□□□□		1	1 unit	1DL
100	A3		3NJ6253-3AA0□-□□□□		1	1 unit	1DL
160	00T ¹⁾		3NJ6263-3AA0□-□□□□		1	1 unit	1DL
250	B2		3NJ6273-3AA0□-□□□□		1	1 unit	1DL
400	B4		3NJ6283-3AA0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6293-3AA0□-□□□□		1	1 unit	1DL
Manually operated, EFM 10							
160	00T ¹⁾		3NJ6263-3AB0□-□□□□		1	1 unit	1DL
250	B2		3NJ6273-3AB0□-□□□□		1	1 unit	1DL
400	B4		3NJ6283-3AB0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6293-3AB0□-□□□□		1	1 unit	1DL
Manually operated, EFM 20							
160	00T ¹⁾		3NJ6263-3AC0□-□□□□		1	1 unit	1DL
250	B2		3NJ6273-3AC0□-□□□□		1	1 unit	1DL
400	B4		3NJ6283-3AC0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6293-3AC0□-□□□□		1	1 unit	1DL
Motorized operating mechanism							
160	00T ¹⁾		3NJ6263-4AA0□-□□□□		1	1 unit	1DL
250	B2		3NJ6273-4AA0□-□□□□		1	1 unit	1DL
400	B4		3NJ6283-4AA0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6293-4AA0□-□□□□		1	1 unit	1DL
Motorized operating mechanism, EFM 10							
160	00T ¹⁾		3NJ6263-4AB0□-□□□□		1	1 unit	1DL
250	B2		3NJ6273-4AB0□-□□□□		1	1 unit	1DL
400	B4		3NJ6283-4AB0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6293-4AB0□-□□□□		1	1 unit	1DL
Motorized operating mechanism, EFM 20							
160	00T ¹⁾		3NJ6263-4AC0□-□□□□		1	1 unit	1DL
250	B2		3NJ6273-4AC0□-□□□□		1	1 unit	1DL
400	B4		3NJ6283-4AC0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6293-4AC0□-□□□□		1	1 unit	1DL

Standard Article No. supplement
(for more Article No. supplements, [see page 7/174](#))

Without auxiliary switches, ammeters or current transformers

Article No. supplement

Additional
price



None

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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For BS fuse links

Rated current I_n	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A		d					
4-pole, standard breaking capacity S							
Manually operated							
160	00T ¹⁾		3NJ6264-1AA0□-□□□□		1	1 unit	1DL
250	B2		3NJ6274-1AA0□-□□□□		1	1 unit	1DL
400	B4		3NJ6284-1AA0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6294-1AA0□-□□□□		1	1 unit	1DL
Manually operated, EFM 10							
160	00T ¹⁾		3NJ6264-1AB0□-□□□□		1	1 unit	1DL
250	B2		3NJ6274-1AB0□-□□□□		1	1 unit	1DL
400	B4		3NJ6284-1AB0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6294-1AB0□-□□□□		1	1 unit	1DL
Manually operated, EFM 20							
160	00T ¹⁾		3NJ6264-1AC0□-□□□□		1	1 unit	1DL
250	B2		3NJ6274-1AC0□-□□□□		1	1 unit	1DL
400	B4		3NJ6284-1AC0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6294-1AC0□-□□□□		1	1 unit	1DL
Motorized operating mechanism							
160	00T ¹⁾		3NJ6264-2AA0□-□□□□		1	1 unit	1DL
250	B2		3NJ6274-2AA0□-□□□□		1	1 unit	1DL
400	B4		3NJ6284-2AA0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6294-2AA0□-□□□□		1	1 unit	1DL
Motorized operating mechanism, EFM 10							
160	00T ¹⁾		3NJ6264-2AB0□-□□□□		1	1 unit	1DL
250	B2		3NJ6274-2AB0□-□□□□		1	1 unit	1DL
400	B4		3NJ6284-2AB0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6294-2AB0□-□□□□		1	1 unit	1DL
Motorized operating mechanism, EFM 20							
160	00T ¹⁾		3NJ6264-2AC0□-□□□□		1	1 unit	1DL
250	B2		3NJ6274-2AC0□-□□□□		1	1 unit	1DL
400	B4		3NJ6284-2AC0□-□□□□		1	1 unit	1DL
630	3T ¹⁾		3NJ6294-2AC0□-□□□□		1	1 unit	1DL
Article No. supplement				Additional price			
Standard Article No. supplement (for more Article No. supplements, see page 7/174)				None			
Without auxiliary switches, ammeters or current transformers							

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

Switch Disconnectors

Switch Disconnectors with Fuses

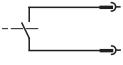
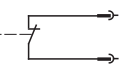
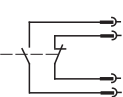
3NJ62 In-Line Switch Disconnectors with Fuses up to 630 A

For LV HRC and BS fuse links

Options

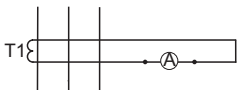
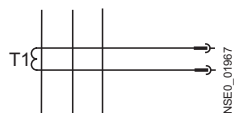
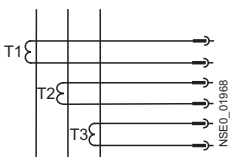
1st Article No. supplement:

Auxiliary switch wired to multi-function plug

		SD	Article No. supplement 3NJ62 ...-...-□-....	Additional price	PS
		d	↑		
	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

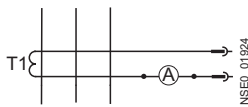
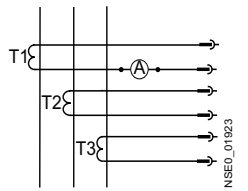
Ammeters		Current transformers		SD	Article No. supplement 3NJ62 ..-.....-□□□□ ↑↑↑↑↑	Additional price	PS	
	Primary current A	Secondary current A	Accuracy class					
					d			
For sizes 00 and 00T								
Without		Without	Without	Without	▶	0 A A 0	None	1 unit
1 current transformer to 1 ammeter								
	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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

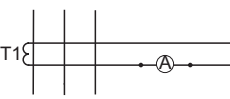
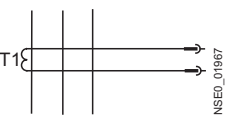
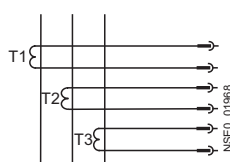
		Ammeters	Current transformers		SD	Article No. supplement 3NJ62 ...-.....-□□□□ ↑↑↑↑↑	Additional price	PS
			Primary current A	Secondary current A				
For sizes 00 and 00T (continued)								
	1 current transformer to 1 ammeter and multi-function plug							
	Moving iron	50	1	1		1EB1	✓	1 unit
	Moving iron	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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

	Ammeters	Current transformers			SD	Article No. supplement 3NJ62□□□□ ↑↑↑↑	Additional price	PS
		Primary current	Secondary current	Accuracy class				
		A	A					
For sizes 1 and B2								
	Without	Without	Without	Without	▶	0 A A 0	None	1 unit
 NSE0_01925	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
	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	
 NSE0_01967	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	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
	 NSE0_01968	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	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

Switch Disconnectors

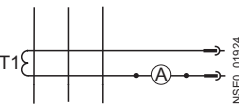
Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

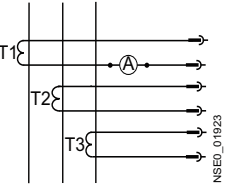
Ammeters	Current transformers			SD	Article No. supplement 3NJ62 ...-...-□□□□	Additional price	PS
	Primary current A	Secondary current A	Accuracy class				

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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

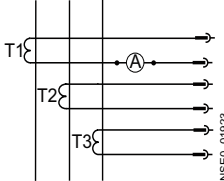
Ammeters		Current transformers			SD	Article No. supplement	Additional price	PS	
		Primary current	Secondary current	Accuracy class		3NJ62□□□□			
		A	A		d	↑↑↑↑			
For sizes 2 and B4									
	Without	Without	Without			0AA0	None	1 unit	
1 current transformer to 1 ammeter									
	Moving iron	300	1	1		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	

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

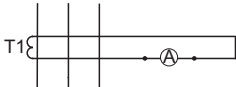
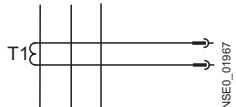
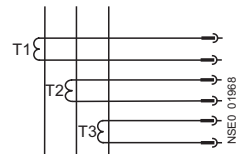
	Ammeters	Current transformers			SD	Article No. supplement 3NJ62 ...-.....-□□□□	Additional price	PS
		Primary current	Secondary current	Accuracy class				
		A	A	d				
For sizes 2 and B4 (continued)								
	3 current transformers to 1 ammeter and multi-function plug							
	Moving iron	300	1	1		1FH1	✓	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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

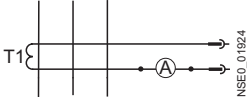
Ammeters		Current transformers		Accuracy class	SD	Article No. supplement 3NJ62 ..-....-□□□□ ↑↑↑↑↑	Additional price	PS
	Primary current A	Secondary current A						
For sizes 3 and 3T								
	Without	Without	Without	Without	▶	0AA0	None	1 unit
1 current transformer to 1 ammeter								
	Moving iron	300	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
	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								
	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								
	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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

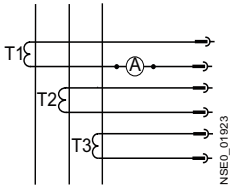
	Ammeters	Current transformers			SD	Article No. supplement 3NJ62 ..-.....-□□□□	Additional price	PS
		Primary current A	Secondary current A	Accuracy class				
					d	↑↑↑↑↑		
For sizes 3 and 3T (continued)								
1 current transformer to 1 ammeter and multi-function plug								
	Moving iron	400	1	1		1EH1	✓	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

Switch Disconnectors

Switch Disconnectors with Fuses

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

For LV HRC and BS fuse links

Ammeters	Current transformers			SD	Article No. supplement 3NJ62 ...-.....-□□□□	Additional price	PS
	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	

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

Selection and ordering data

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					
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
 3NJ6923-1BA00		Single terminal for 4-pole devices, 10 ... 95 mm ² (1 set = 4 units)	3NJ6924-1BA00	1	1 unit	1DL
Terminal covers						
 3NJ6923-1DA00		For 2/3-pole devices	3NJ6923-1DA00	1	1 unit	1DL
		Only for 4 th pole	3NJ6904-1DA00	1	1 unit	1DL
Contact extensions						
 3NJ6923-1EB00		3-pole	3NJ6923-1EB00	1	1 unit	1DL
		4-pole	3NJ6924-1EB00	1	1 unit	1DL
Electronic fuse monitoring and line monitoring devices						
 3NJ6923-3FB00		EFM 10, fuse monitoring for AC networks	3NJ6920-3FB00	1	1 unit	1DL
		EFM 20, fuse monitoring and line monitoring for AC networks	3NJ6920-3FC00	1	1 unit	1DL
		EFM 25, fuse monitoring and line monitoring for DC networks	3NJ6920-3FE00	1	1 unit	1DL
 3NJ6923-3FC00						
Auxiliary switches						
 3NJ6920-2BB00		1 NO contact (1 NO) with cover	3NJ6920-2BB00	1	1 unit	1DL
		1 NO contact (1 NO)	3NJ6900-2BC00	1	1 unit	1DL
		1 NC contact (1 NC) with cover	3NJ6920-2CB00	1	1 unit	1DL
		1 NC contact (1 NC)	3NJ6900-2CC00	1	1 unit	1DL
 3NJ6900-2BC00						
Current transformers for main devices and contact extensions						
 3NJ6920-3BD11		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" .				
		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
		100 A/1 A Class 1 2.5 VA, Ø 21 mm	3NJ6920-3BD11	1	1 unit	1DL
		100 A/1 A Class 0.5 1.5 VA, Ø 21 mm	3NJ6920-3BD12	1	1 unit	1DL
		100 A/1 A Class 0.5 calibrated 1.5 VA, Ø 14 mm	3NJ6920-3BD13	1	1 unit	1DL
		100 A/5 A Class 1 2.5 VA, Ø 21 mm	3NJ6920-3BD21	1	1 unit	1DL
		100 A/5 A Class 0.5 1.5 VA, Ø 21 mm	3NJ6920-3BD22	1	1 unit	1DL
		100 A/5 A Class 0.5 calibrated 1.5 VA, Ø 14 mm	3NJ6920-3BD23	1	1 unit	1DL
		150 A/1 A Class 1 2.5 VA, Ø 21 mm	3NJ6920-3BE11	1	1 unit	1DL
		150 A/1 A Class 0.5 1.5 VA, Ø 21 mm	3NJ6920-3BE12	1	1 unit	1DL
		150 A/1 A Class 0.5 calibrated 2.5 VA, Ø 14 mm	3NJ6920-3BE13	1	1 unit	1DL
		150 A/5 A Class 1 1.5 VA, Ø 21 mm	3NJ6920-3BE21	1	1 unit	1DL
		150 A/5 A Class 0.5 1.5 VA, Ø 21 mm	3NJ6920-3BE22	1	1 unit	1DL
		150 A/5 A Class 0.5 calibrated 2.5 VA, Ø 14 mm	3NJ6920-3BE23	1	1 unit	1DL

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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
	For 3 current transformers		3NJ6920-3DC00		1	1 unit	1DL
	For 4 current transformers ¹⁾		3NJ6920-3DD00		1	1 unit	1DL
 3NJ6920-3DC00	Current transformer busbars for current transformers with feed-through opening Ø 14 mm						
	For 1 current transformer		3NJ6920-3DE00		1	1 unit	1DL
	For 3 current transformers		3NJ6920-3DF00		1	1 unit	1DL
	For 4 current transformers ¹⁾		3NJ6920-3DG00		1	1 unit	1DL
 3NJ6900-4GA00	Holders for ammeters		3NJ6900-4GA00		1	1 unit	1DL
	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
	100 A/1 A	0.6 VA	3NJ6900-4HD11		1	1 unit	1DL
 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
	100 A/5 A	0.6 VA	3NJ6900-4HD21		1	1 unit	1DL
	150 A/5 A	0.6 VA	3NJ6900-4HE21		1	1 unit	1DL
 3NJ6900-4H...	Bi-metal measuring instruments with slave pointer for measurements on transformer x/1 A with 1.2-times overload						
	50 A/1 A	1 VA	3NJ6900-4HB12		1	1 unit	1DL
	100 A/1 A	1 VA	3NJ6900-4HD12		1	1 unit	1DL
	150 A/1 A	1 VA	3NJ6900-4HE12		1	1 unit	1DL
 3NJ6900-4H...	Bi-metal measuring instruments with slave pointer for measurements on transformer x/5 A with 1.2-times overload						
	50 A/5 A	1 VA	3NJ6900-4HB22		1	1 unit	1DL
	100 A/5 A	1 VA	3NJ6900-4HD22		1	1 unit	1DL
	150 A/5 A	1 VA	3NJ6900-4HE22		1	1 unit	1DL
 3NJ6920-3EB00	Multi-function plugs						
	6 x 2.5 mm ² , with fixing screws		3NJ6920-3EB00		1	1 unit	1DL
	8 x 2.5 mm ² , without fixing screws		3NJ6920-3ED00		1	1 unit	1DL
	10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws		3NJ6920-3EE00		1	1 unit	1DL
 3NJ6923-4BB00	Front panels						
	For NH: 3NJ6203-1AA... and 3NJ6203-3AA... without/with EFM		3NJ6923-4BB00		1	1 unit	1DL
	For BS: 3NJ6203-1AA... and 3NJ6203-3AA... without/with EFM		3NJ6923-4BC00		1	1 unit	1DL

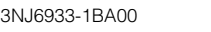
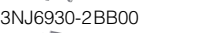
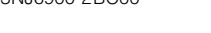
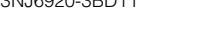
¹⁾ Not available in combination with multi-function plugs.

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

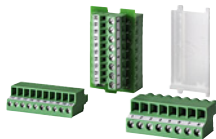
Version		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
		d						
For sizes 1 and B2								
		Terminals Single terminal for 2/3-pole devices, 16 ... 300 mm ² (1 set = 3 units) Single terminal for 4-pole devices, 16 ... 300 mm ² (1 set = 4 units)		3NJ6933-1BA00		1	1 unit	1DL
				3NJ6934-1BA00		1	1 unit	1DL
		Terminal covers For 2/3-pole devices Internal terminal covers for 2/3-pole devices Only for 4 th pole		3NJ6933-1DA01 3NJ6933-1DB00 3NJ6904-1DA00		1 1 1	1 unit 1 unit 1 unit	1DL 1DL 1DL
				3NJ6933-1DB00				
				3NJ6904-1DA00				
		Contact extensions 3-pole 4-pole		3NJ6933-1EB00 3NJ6934-1EB00		1 1	1 unit 1 unit	1DL 1DL
				3NJ6934-1EB00				
		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 3NJ6930-3FC00 3NJ6930-3FE00		1 1 1	1 unit 1 unit 1 unit	1DL 1DL 1DL
				3NJ6930-3FB00				
				3NJ6930-3FC00				
				3NJ6930-3FE00				
		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 3NJ6900-2BC00 3NJ6930-2CB00 3NJ6900-2CC00		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL
				3NJ6930-2BB00				
				3NJ6900-2BC00				
				3NJ6930-2CB00				
				3NJ6900-2CC00				
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
For sizes 1 and B2 (continued)							
 3NJ6930-3DB00  3NJ6930-3DC00  3NJ6930-3DD00	Current transformer busbars for current transformers with feed-through opening $\varnothing$ 21 mm For 1 current transformer For 3 current transformers For 4 current transformers ¹⁾		3NJ6930-3DB00 3NJ6930-3DC00 3NJ6930-3DD00		1 1 1	1 unit 1 unit 1 unit	1DL 1DL 1DL
	Holders for ammeters For sizes 00, 1, 2, 3		3NJ6900-4GA00		1	1 unit	1DL
	Ammeters Moving-iron measuring instruments for measurements on transformer x/1 A with double overload 50 A/1 A 0.6 VA 100 A/1 A 0.6 VA 150 A/1 A 0.6 VA 200 A/1 A 0.6 VA 250 A/1 A 0.6 VA		3NJ6900-4HB11 3NJ6900-4HD11 3NJ6900-4HE11 3NJ6900-4HF11 3NJ6900-4HG11		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL 1DL
	Moving-iron measuring instruments for measurements on transformer x/5 A with double overload 50 A/5 A 0.6 VA 100 A/5 A 0.6 VA 150 A/5 A 0.6 VA 200 A/5 A 0.6 VA 250 A/5 A 0.6 VA		3NJ6900-4HB21 3NJ6900-4HD21 3NJ6900-4HE21 3NJ6900-4HF21 3NJ6900-4HG21		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL 1DL
 3NJ6900-4H...	Bi-metal measuring instruments with slave pointer for measurements on transformer x/1 A with 1.2-times overload 50 A/1 A 1 VA 100 A/1 A 1 VA 150 A/1 A 1 VA 200 A/1 A 1 VA 250 A/1 A 1 VA		3NJ6900-4HB12 3NJ6900-4HD12 3NJ6900-4HE12 3NJ6900-4HF12 3NJ6900-4HG12		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL 1DL
	Bi-metal measuring instruments with slave pointer for measurements on transformer x/5 A with 1.2-times overload 50 A/5 A 1 VA 100 A/5 A 1 VA 150 A/5 A 1 VA 200 A/5 A 1 VA 250 A/5 A 1 VA		3NJ6900-4HB22 3NJ6900-4HD22 3NJ6900-4HE22 3NJ6900-4HF22 3NJ6900-4HG22		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL 1DL
 3NJ6920-3EB00  3NJ6940-3EE00	Multi-function plugs 6 x 2.5 mm ² , with fixing screws 8 x 2.5 mm ² , without fixing screws 10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws		3NJ6920-3EB00 3NJ6920-3ED00 3NJ6920-3EE00		1 1 1	1 unit 1 unit 1 unit	1DL 1DL 1DL
	Front panels For NH: 3NJ6213-1AA... and 3NJ6213-3AA... without/with EFM For BS: 3NJ6213-1AA... and 3NJ6213-3AA... without/with EFM		3NJ6933-4BB00 3NJ6933-4BC00		1 1	1 unit 1 unit	1DL 1DL

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

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

Version		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
For sizes 2, 3, B4 and 3T							
 3NJ6943-1CA00	Terminals						
	Double terminals for 2/3-pole devices, 2 x (16 mm ² ... 300 mm ² , 1 set = 6 units)		3NJ6943-1CA00		1	1 unit	1DL
 3NJ6943-1DA00	Terminal covers						
	For 2/3-pole devices		3NJ6943-1DA00		1	1 unit	1DL
	Only for 4 th pole		3NJ6904-1DA00		1	1 unit	1DL
 3NJ6944-1EB00	Contact extensions						
	3-pole		3NJ6943-1EB00		1	1 unit	1DL
	4-pole		3NJ6944-1EB00		1	1 unit	1DL
 3NJ6923-3FB00	Electronic fuse monitoring and line monitoring devices						
	EFM 10, fuse monitoring for AC networks		3NJ6940-3FB00		1	1 unit	1DL
	EFM 20, fuse monitoring and line monitoring for AC networks		3NJ6940-3FC00		1	1 unit	1DL
 3NJ6923-3FC00			3NJ6940-3FE00		1	1 unit	1DL
	EFM 25, fuse monitoring and line monitoring for DC networks						
 3NJ6940-2BB00	Auxiliary switches						
	1 NO contact (1 NO) with cover		3NJ6940-2BB00		1	1 unit	1DL
	1 NO contact (1 NO)		3NJ6900-2BC00		1	1 unit	1DL
	1 NC contact (1 NC) with cover		3NJ6940-2CB00		1	1 unit	1DL
 3NJ6900-2BC00			3NJ6900-2CC00		1	1 unit	1DL
	1 NC contact (1 NC)						
 3NJ6940-3B...	Current transformers for main devices and contact extensions						
	300 A/1 A	Class 1	5 VA	3NJ6940-3BH11	1	1 unit	1DL
	300 A/1 A	Class 0.5	5 VA	3NJ6940-3BH12	1	1 unit	1DL
	300 A/1 A	Class 0.5 calibrated	5 VA	3NJ6940-3BH13	1	1 unit	1DL
	300 A/5 A	Class 1	5 VA	3NJ6940-3BH21	1	1 unit	1DL
	300 A/5 A	Class 0.5	5 VA	3NJ6940-3BH22	1	1 unit	1DL
	300 A/5 A	Class 0.5 calibrated	5 VA	3NJ6940-3BH23	1	1 unit	1DL
	400 A/1 A	Class 1	5 VA	3NJ6940-3BJ11	1	1 unit	1DL
	400 A/1 A	Class 0.5	5 VA	3NJ6940-3BJ12	1	1 unit	1DL
	400 A/1 A	Class 0.5 calibrated	5 VA	3NJ6940-3BJ13	1	1 unit	1DL
	400 A/5 A	Class 1	5 VA	3NJ6940-3BJ21	1	1 unit	1DL
	400 A/5 A	Class 0.5	5 VA	3NJ6940-3BJ22	1	1 unit	1DL
	400 A/5 A	Class 0.5 calibrated	5 VA	3NJ6940-3BJ23	1	1 unit	1DL
	500 A/1 A	Class 1	5 VA	3NJ6940-3BK11	1	1 unit	1DL
	500 A/1 A	Class 0.5	5 VA	3NJ6940-3BK12	1	1 unit	1DL
	500 A/1 A	Class 0.5 calibrated	5 VA	3NJ6940-3BK13	1	1 unit	1DL
	500 A/5 A	Class 1	5 VA	3NJ6940-3BK21	1	1 unit	1DL
	500 A/5 A	Class 0.5	5 VA	3NJ6940-3BK22	1	1 unit	1DL
	500 A/5 A	Class 0.5 calibrated	5 VA	3NJ6940-3BK23	1	1 unit	1DL
	600 A/1 A	Class 1	5 VA	3NJ6940-3BL11	1	1 unit	1DL
	600 A/1 A	Class 0.5	5 VA	3NJ6940-3BL12	1	1 unit	1DL
	600 A/1 A	Class 0.5 calibrated	5 VA	3NJ6940-3BL13	1	1 unit	1DL
	600 A/5 A	Class 1	5 VA	3NJ6940-3BL21	1	1 unit	1DL
	600 A/5 A	Class 0.5	5 VA	3NJ6940-3BL22	1	1 unit	1DL
	600 A/5 A	Class 0.5 calibrated	5 VA	3NJ6940-3BL23	1	1 unit	1DL

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

Switch Disconnectors

Switch Disconnectors with Fuses

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

Accessories

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
For sizes 2, 3, B4 and 3T (continued)							
	Holders for ammeters		3NJ6900-4GA00		1	1 unit	1DL
	For sizes 00, 1, 2, 3						
	Ammeters						
	Moving-iron measuring instruments for measuring input on transformer x/1 A with double overload						
	300 A/1 A	0.6 VA	3NJ6900-4HH11		1	1 unit	1DL
	400 A/1 A	0.6 VA	3NJ6900-4HJ11		1	1 unit	1DL
	500 A/1 A	0.6 VA	3NJ6900-4HK11		1	1 unit	1DL
	600 A/1 A	0.6 VA	3NJ6900-4HL11		1	1 unit	1DL
	Moving-iron measuring instruments for measuring input on transformer x/5 A with double overload						
	300 A/5 A	0.6 VA	3NJ6900-4HH21		1	1 unit	1DL
	400 A/5 A	0.6 VA	3NJ6900-4HJ21		1	1 unit	1DL
	500 A/5 A	0.6 VA	3NJ6900-4HK21		1	1 unit	1DL
	600 A/5 A	0.6 VA	3NJ6900-4HL21		1	1 unit	1DL
	Bi-metal measuring instruments with slave pointer for measurements on transformer x/1 A with 1.2-times overload						
	300 A/1 A	1 VA	3NJ6900-4HH12		1	1 unit	1DL
	400 A/1 A	1 VA	3NJ6900-4HJ12		1	1 unit	1DL
	500 A/1 A	1 VA	3NJ6900-4HK12		1	1 unit	1DL
	600 A/1 A	1 VA	3NJ6900-4HL12		1	1 unit	1DL
	Bi-metal measuring instruments with slave pointer for measurements on transformer x/5 A with 1.2-times overload						
	300 A/5 A	1 VA	3NJ6900-4HH22		1	1 unit	1DL
	400 A/5 A	1 VA	3NJ6900-4HJ22		1	1 unit	1DL
	500 A/5 A	1 VA	3NJ6900-4HK22		1	1 unit	1DL
	600 A/5 A	1 VA	3NJ6900-4HL22		1	1 unit	1DL
	Multi-function plugs						
	8 x 2.5 mm ² , with fixing screws		3NJ6940-3EC00		1	1 unit	1DL
	8 x 2.5 mm ² , without fixing screws		3NJ6940-3ED00		1	1 unit	1DL
	12 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws		3NJ6940-3EF00		1	1 unit	1DL
	Front panels						
	For NH: 3NJ6223-1AA... and 3NJ6223-3AA... without/with EFM		3NJ6943-4BB00		1	1 unit	1DL
	For BS: 3NJ6223-1AA... and 3NJ6223-3AA... without/with EFM		3NJ6943-4BC00		1	1 unit	1DL
	For NH: 3NJ6233-1AA... and 3NJ6233-3AA... without/with EFM		3NJ6953-4BB00		1	1 unit	1DL
For BS: 3NJ6233-1AA... and 3NJ6233-3AA... without/with EFM			3NJ6953-4BC00		1	1 unit	1DL

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

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Common accessories						
	Busbar covers					
3NJ6916-4EA00	Mounting height 200 mm, IP20	3NJ6916-4EA00		1	1 unit	1CL
	Blanking covers					
3NJ6900-4CB00	Mounting height 50 mm, IP41	3NJ6900-4CB00		1	1 unit	1DL
	Connection modules					
3NJ6915-3BA00	For power takeoff from field distribution bus up to 400 A	3NJ6915-3BA00		1	1 unit	1CL
	Guide rails					
3NJ6900-4FB00	Overall depth 200 mm (1 x left and 1 x right)	3NJ6900-4FB00		1	1 unit	1DL
3NJ6900-4FC00	Overall depth 400 mm (1 x left and 1 x right)	3NJ6900-4FC00		1	1 unit	1DL
	LV HRC fuse puller tongs					
	For NH00	XPT:8PT9624		1	1 unit	1EA
	For NH1, 2, 3	XPT:8PT9625		1	1 unit	1EA
	Locking devices for padlocks					
	For all devices	3NJ6900-4LL		1	1 unit	1DL

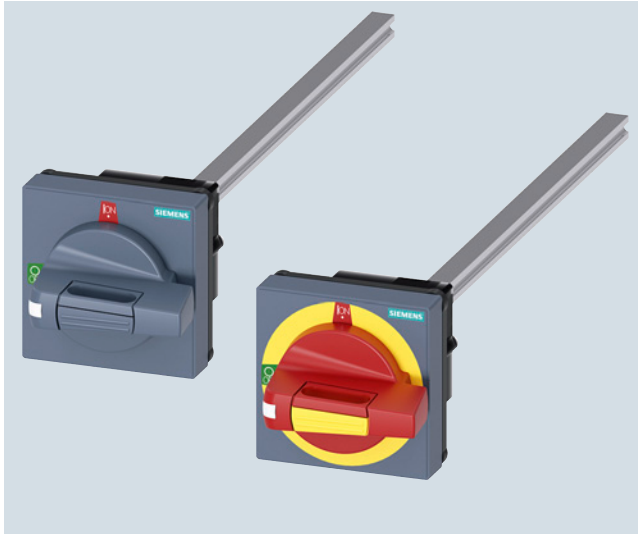
Switch Disconnectors

Door-Coupling Rotary Operating Mechanisms

8UD1 Door-Coupling Rotary Operating Mechanisms

For 3KD and 3KF 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-gray
- 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

Lockability

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

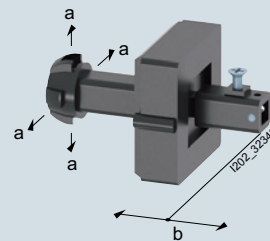
In order to ensure that, when installing switches and door-coupling operating mechanisms, all components are assembled in the correct position with respect to one another, the components are provided with non-interchangeability features (rivet and lug).

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

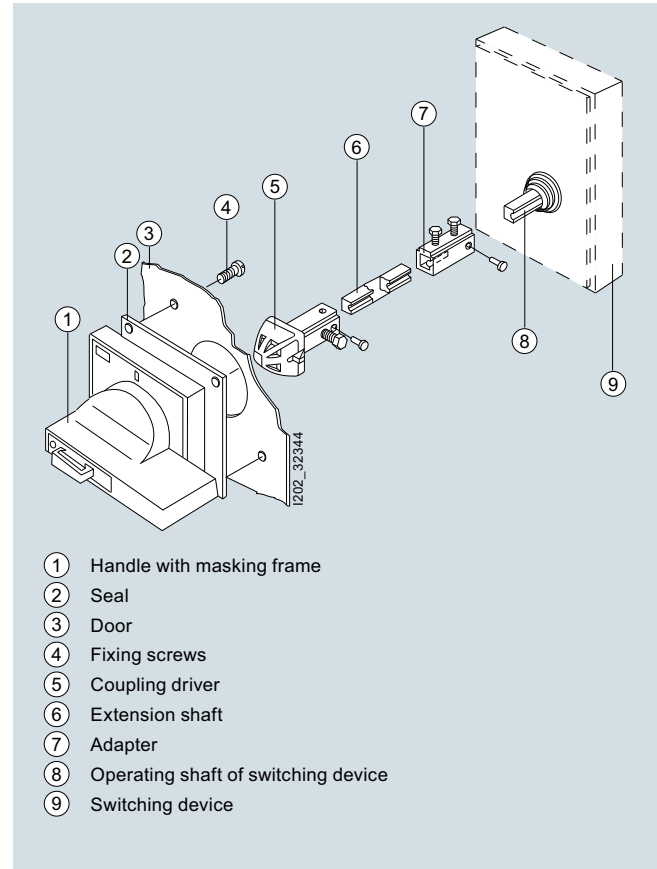
The temperature range for operation of the rotary operating mechanisms is between -25 °C and +60 °C.

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.

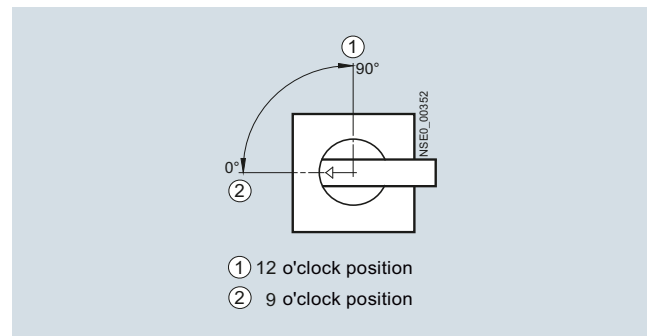
Operating mechanisms for 3KD switch disconnectors do not have a shaft coupling since the extension shaft is fitted directly into the switch. Extension shafts with a length of 600 mm are also available.



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

Door-Coupling Rotary Operating Mechanisms

8UD1 Door-Coupling Rotary Operating Mechanisms

For 3KD and 3KF 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

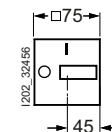
Labeling 0-I

3KD....-M/N

16 ... 200

8 x 8

3



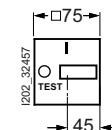
Labeling TEST-0-I

3KD....-M/N

16 ... 200

8 x 8

3



8UD1 for 3KD switch disconnectors size 3

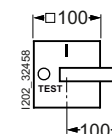
Labeling TEST-0-I

3KD....-P

200 ... 400

8 x 8

7.5



8UD1 for 3KD switch disconnectors size 4

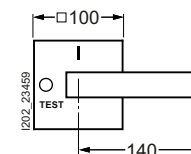
Labeling TEST-0-I

3KD....-Q

500 ... 800

10 x 10

16



8UD1 for 3KD switch disconnectors size 5

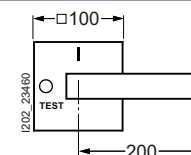
Labeling TEST-0-I

3KD....-R

1000 ... 1600

12 x 12

30



Switch DisconnectorsDoor-Coupling Rotary Operating Mechanisms
8UD1 Door-Coupling Rotary Operating Mechanisms

For 3KD and 3KF switch disconnectors

Version	SD	Rotary operating mechanisms, complete	PU (UNIT, SET, M)	PS	PG	Individual parts			
						Handles illuminated/ without illumination Other handles see page 7/73 Article No.	Coupling drivers with tolerance compensation/ without tolerance compensation Article No.	Extension shaft length 300 mm/ length 600 mm Article No.	Shaft coupling Article No.
	d	Article No. www.siemens.com/product?Article No.							
Standard		8UD1171-2AD11	1	1 unit	1CL	8UD1771-2CD01/ 8UD1771-2AD01	□ 8 mm 8UD1900-2GA00 8UD1900-2HA00	□ 8 mm 8UC6032/ 8UC6082	□ 8 by 8 mm 8UC6022
EMERGENCY-STOP		8UD1171-2AD15	1	1 unit	1CL	8UD1771-2CD05 8UD1771-2AD05	8UD1900-2GA00 8UD1900-2HA00	8UC6032/ 8UC6082	8UC6022
Standard		8UD1171-2AF21	1	1 unit	1CL	8UD1771-2CF01/ 8UD1771-2AF01	□ 8 mm 8UD1900-2GA00/ 8UD1900-2HA00	□ 8 mm 8UC6032/ 8UC6082	□ 8 by 8 mm 8UC6022
EMERGENCY-STOP		8UD1171-2AF25	1	1 unit	1CL	8UD1771-2CF05/ 8UD1771-2AF05	8UD1900-2GA00 8UD1900-2HA00	8UC6032/ 8UC6082	8UC6022
Standard		8UD1141-2AF21	1	1 unit	1CL	8UD1841-2CF01/ 8UD1841-2AF01	□ 8 mm 8UD1900-6GA00/ 8UD1900-6HA00	□ 8 mm 8UC6032/ 8UC6082	□ 8 by 8 mm 8UC6022
EMERGENCY-STOP		8UD1141-2AF25	1	1 unit	1CL	8UD1841-2CF05/ 8UD1841-2AF05	8UD1900-6GA00/ 8UD1900-6HA00	8UC6032/ 8UC6082	8UC6022
Standard		8UD1151-3AF21	1	1 unit	1CL	8UD1851-3CF01/ 8UD1851-3AF01	□ 10 mm 8UD1900-3GA00/ 8UD1900-3HA00	□ 10 mm 8UC6033/ 8UC6083	□ 10 by 10 mm 8UC6023
EMERGENCY-STOP		8UD1151-3AF25	1	1 unit	1CL	8UD1851-3CF05/ 8UD1851-3AF05	8UD1900-3GA00/ 8UD1900-3HA00	8UC6033/ 8UC6083	8UC6023
Standard		8UD1161-4AF21	1	1 unit	1CL	8UD1861-4CF01/ 8UD1861-4AF01	□ 12 mm 8UD1900-4GA00/ 8UD1900-4HA00	□ 12 mm 8UC6034/ 8UC6084	□ 12 by 12 mm 8UC6024
EMERGENCY-STOP		8UD1161-4AF25	1	1 unit	1CL	8UD1861-4CF05/ 8UD1861-4AF05	8UD1900-4GA00/ 8UD1900-4HA00	8UC6034/ 8UC6084	8UC6024

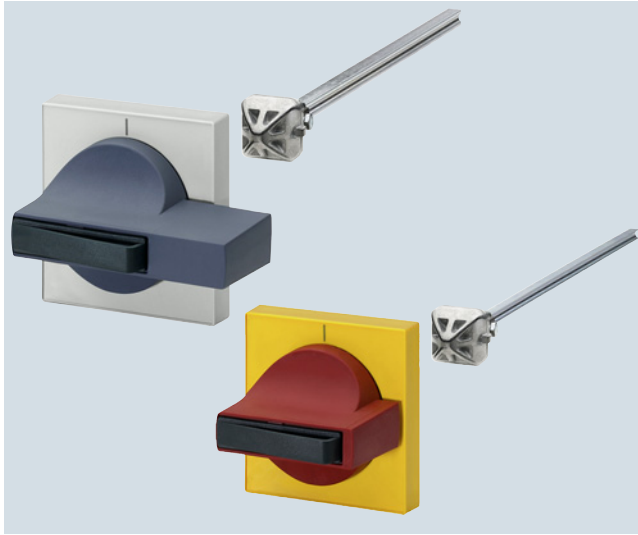
Switch Disconnectors

Door-Coupling Rotary Operating Mechanisms

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-gray
- EMERGENCY-STOP version: Masking plates in yellow with black inscription, handles in red

Available sizes

Rotary operating mechanisms	Size	Rated torque ¹⁾	Shaft profile	Masking plate
		Nm	mm x mm	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 switch disconnectors.

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

Lockability

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

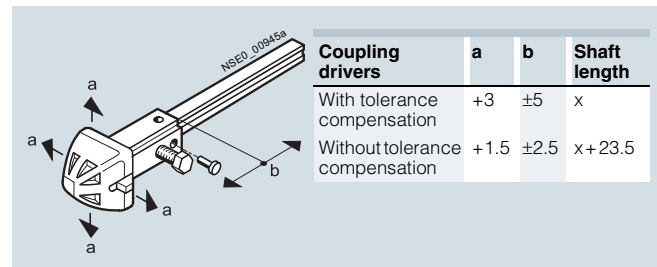
In order to ensure that, when installing switches and door-coupling operating mechanisms, all components are assembled in the correct position with respect to one another, the components are provided with non-interchangeability features (rivet and lug).

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.

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

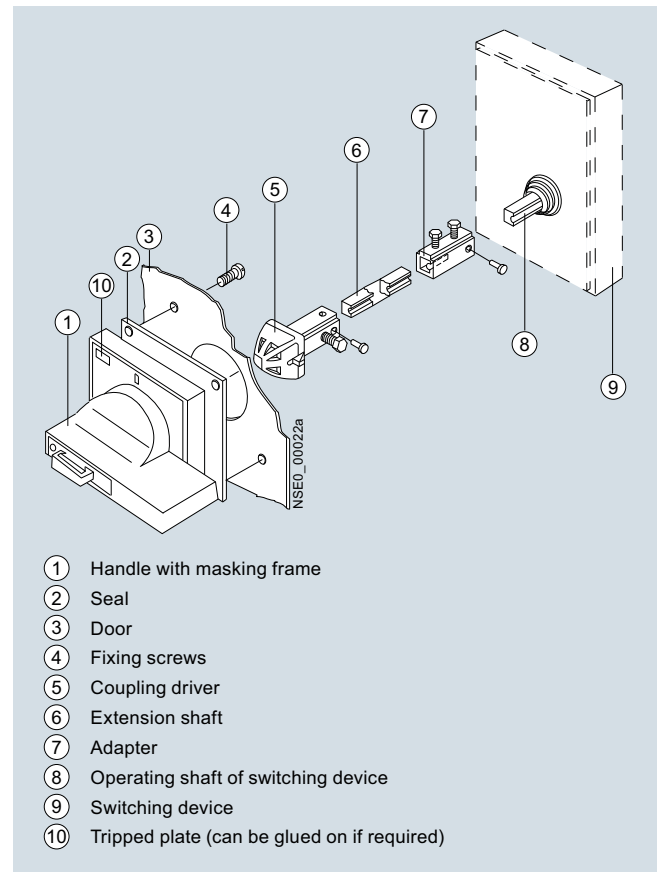
The temperature range for operation of the rotary operating mechanisms is between -25 °C and +60 °C.

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.

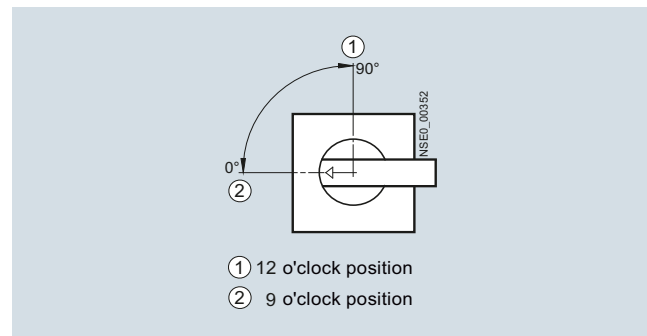
Operating mechanisms for 3KA / 3KL / 3KM switch disconnectors do not have a shaft coupling since the extension shaft is fitted directly into the switch. Extension shafts with a length of 600 mm are also available.



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

Door-Coupling Rotary Operating Mechanisms

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
------------------	---------------	--------------------------------------	--------	-----------------------------	------------------------------------

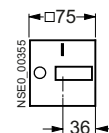
Type	A	mm	Nm	Size
------	---	----	----	------

8UC71



For switch disconnectors with or without fuses

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

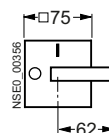


8UC72



For switch disconnectors with or without fuses

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

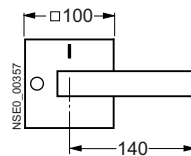


8UC73



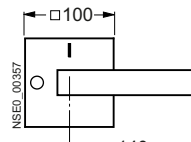
For switch disconnectors with or without fuses

3KL55, 3KM55	250	10 x 10	16
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
3KE43	400	12 x 12	15
3KE44	630	12 x 12	24
3KE45	1000	12 x 12	24

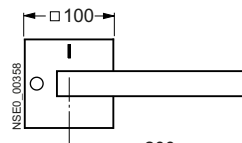


8UC74



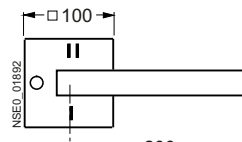
For switch disconnectors with fuses

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



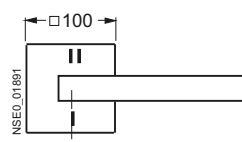
For switch disconnectors as changeover switches with break-before-make feature

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



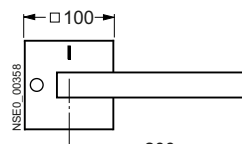
For switch disconnectors as changeover switches without make-before-break feature³⁾

3KE42 (2 units)	250	12 x 12	40
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
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 7/198.

³⁾ The door interlocking plate must be removed.

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

Switch DisconnectorsDoor-Coupling Rotary Operating Mechanisms
8UC7 Door-Coupling Rotary Operating Mechanisms

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

Version	SD	Rotary operating mechanisms, complete	PU (UNIT, SET, M)	PS	PG	Individual parts			
						Handle with masking plate	Coupling drivers	Extension shaft length 300 mm	Shaft coupling
d		Article No. www.siemens.com/product?Article No.	Price per PU			Article No.	Article No.	Article No.	Article No.
Standard Standard ⁴⁾ EMERGENCY-STOP		8UC7111-1BB10	1	1 unit	1CL 8UC7110-1BB	□ 6 mm	8UC6011	□ 6 mm	8UC6031
		8UC7161-1BB10	1	1 unit	1CL 8UC7110-1BB	8UC6016	8UC6031	Not required	Not required
		8UC7121-3BB10	1	1 unit	1CL 8UC7120-3BB	8UC6011	8UC6031	Not required	Not required
Standard Standard ⁴⁾ EMERGENCY-STOP		8UC7212-1BB20	1	1 unit	1CL 8UC7210-1BB	□ 8 mm	8UC6012	□ 8 mm	8UC6032
		8UC7262-1BB20	1	1 unit	1CL 8UC7210-1BB	8UC6017	8UC6032	Not required	Not required
		8UC7222-3BB20	1	1 unit	1CL 8UC7220-3BB	8UC6012	8UC6032	Not required	Not required
Standard EMERGENCY-STOP		8UC7313-1BB30	1	1 unit	1CL 8UC7310-1BB	□ 10 mm	8UC6013	□ 10 mm	8UC6033
		8UC7323-3BB30	1	1 unit	1CL 8UC7320-3BB	8UC6013	8UC6033	Not required	Not required
Standard EMERGENCY-STOP		8UC7314-1BB44	1	1 unit	1CL 8UC7310-1BB	□ 12 mm	8UC6014	□ 12 mm	8UC6034
		8UC7324-3BB44	1	1 unit	1CL 8UC7320-3BB	8UC6014	8UC6034	□ 12 mm by 12 mm	8UC6024
Standard EMERGENCY-STOP		8UC7414-1BB44	1	1 unit	1CL 8UC7410-1BB	□ 12 mm	8UC6014	□ 12 mm	8UC6034
		8UC7424-3BB44	1	1 unit	1CL 8UC7420-3BB	8UC6014	8UC6034	□ 12 mm by 12 mm	8UC6024
Standard		8UC7414-1BF44	1	1 unit	1CL 8UC7410-1BF	□ 12 mm	8UC6014	□ 12 mm	8UC6034
								□ 12 mm by 12 mm	8UC6024
Standard		8UC7414-1FG44	1	1 unit	1CL 8UC7410-1FG	□ 12 mm	8UC6014	□ 12 mm	8UC6034
								□ 12 mm by 12 mm	8UC6024
Standard		8UC7414-1BB44	1	1 unit	1CL 8UC7410-1BB	□ 12 mm	8UC6014	□ 12 mm	8UC6034
								□ 12 mm by 12 mm	8UC6024

Switch Disconnectors

Door-Coupling Rotary Operating Mechanisms

8UC7 Door-Coupling Rotary Operating Mechanisms

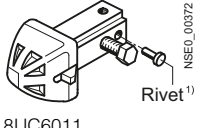
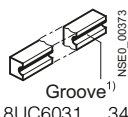
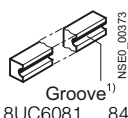
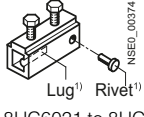
Individual parts

Selection and ordering data

	Switching device	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ⁴⁾	SD	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	PG
	Type	Type		mm x mm		d					
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 8UC7120-3BB		1 1	1 unit 1 unit	1CL 1CL
 8UC74	3KL52, 3KM52, 3KL53, 3KM53, 3KA52, 3KA53	8UC72	2	8 x 8	Standard EMERGENCY-STOP		8UC7210-1BB 8UC7220-3BB		1 1	1 unit 1 unit	1CL 1CL
 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 8UC7320-3BB		1 1	1 unit 1 unit	1CL 1CL
 8UC74	3KL61, 3KL62	8UC74	4	12 x 12	Standard EMERGENCY-STOP		8UC7410-1BB 8UC7420-3BB		1 1	1 unit 1 unit	1CL 1CL
	3KE42, 3KE43, 3KE44, 3KE45	8UC74 ³⁾	4	12 x 12	Standard Standard Standard		8UC7410-1BF 8UC7410-1FG 8UC7410-1BB		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL

	Rotary operating mechanisms	Cross-section of the actuating shaft	SD	Individual parts for 8UC6 door-coupling rotary operating mechanisms Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Type	mm x mm	d					

Coupling drivers, extension shafts, shaft couplings and reducers

Coupling drivers for 3K								
 8UC6011	8UC71	6 x 6		8UC6011		1	1 unit	1CL
	8UC71 ²⁾	6 x 6		8UC6016		1	1 unit	1CL
	8UC72	8 x 8		8UC6012		1	1 unit	1CL
	8UC72 ²⁾	8 x 8		8UC6017		1	1 unit	1CL
	8UC73	10 x 10		8UC6013		1	1 unit	1CL
	8UC73/74	12 x 12		8UC6014		1	1 unit	1CL
Extension shafts 300 mm long								
 8UC6031 ... 34	8UC71	6 x 6		8UC6031		1	1 unit	1CL
	8UC72	8 x 8		8UC6032		1	1 unit	1CL
	8UC73	10 x 10		8UC6033		1	1 unit	1CL
	8UC73/74	12 x 12		8UC6034		1	1 unit	1CL
Extension shafts 600 mm long								
 8UC6081 ... 84	8UC71	6 x 6		8UC6081		1	1 unit	1CL
	8UC72	8 x 8		8UC6082		1	1 unit	1CL
	8UC73	10 x 10		8UC6083		1	1 unit	1CL
	8UC73/74	12 x 12		8UC6084		1	1 unit	1CL
Shaft couplings								
 8UC6021 to 8UC6024	8UC71	6 x 6		8UC6021		1	1 unit	1CL
	8UC72	8 x 8		8UC6022		1	1 unit	1CL
	8UC73	10 x 10		8UC6023		1	1 unit	1CL
	8UC73/74	12 x 12		8UC6024		1	1 unit	1CL
	8UC74(3KL61)	12 x 12		8UC9253		1	1 unit	1CL
Reducers								
 8UC7058	8UC71	8 x 8 by 6 x 6		8UC7058		1	1 unit	1CL
	8UC72	12 x 12 by 8 x 8		8UC7050		1	1 unit	1CL

¹⁾ Non-interchangeability features.

²⁾ Shortened coupling driver with reduced tolerance compensation.

³⁾ For switch disconnectors as changeover switches in various versions, see page 7/196.

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

Switch Disconnectors

Door-Coupling Rotary Operating Mechanisms

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⁾	Size of the operating mechanism	Color of handle	SD	Operating mechanisms for fixed mounting	PU (UNIT, SET, M)	PS	PG
	Type	mm x mm	Nm			d	Article No. www.siemens.com/product?Article No. Price per PU			
 8UC9354	3KA50, 3KA51, 3KL50, 3KM50	6 x 6	4	1	Black	2)	8UC9354	1	1 unit	1CL
 8UC9360	3KA50, 3KA51, 3KL50, 3KM50	6 x 6	7.5	2	Black	2)	8UC9360	1	1 unit	1CL
 8UC9362	3KA52, 3KA53, 3KL52, 3KM52, 3KL53, 3KM53	8 x 8	7.5	2	Black Red		8UC9362 8UC9363	1 1	1 unit 1 unit	1CL 1CL
 8UC9365	3KA55, 3KA57, 3KA58, 3KL55, 3KM55, 3KL57, 3KM57	10 x 10	16	3	Black Red		8UC9365 8UC9366	1 1	1 unit 1 unit	1CL 1CL
 8UC9374	3KE42, 3KE43	12 x 12	16	3	Black Red	3) 3)	8UC9370 8UC9371	1 1	1 unit 1 unit	1CL 1CL
 8UC9381	3KE44, 3KE45	12 x 12	30	4	Black Red	3) 3)	8UC9374 8UC9375	1 1	1 unit 1 unit	1CL 1CL
	3KL61	12 x 12	55	5	Black Red		8UC9381 8UC9382	1 1	1 unit 1 unit	1CL 1CL

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.

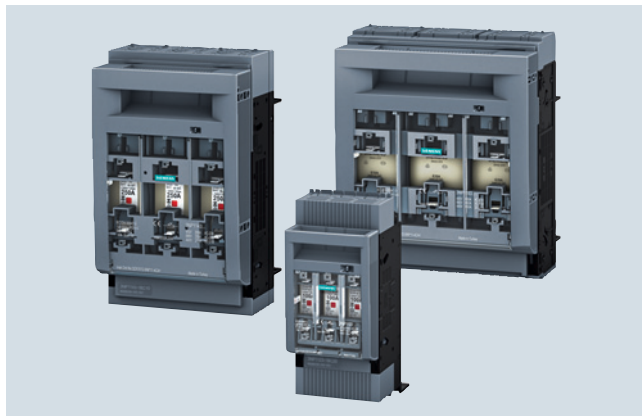
Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Introduction

Overview

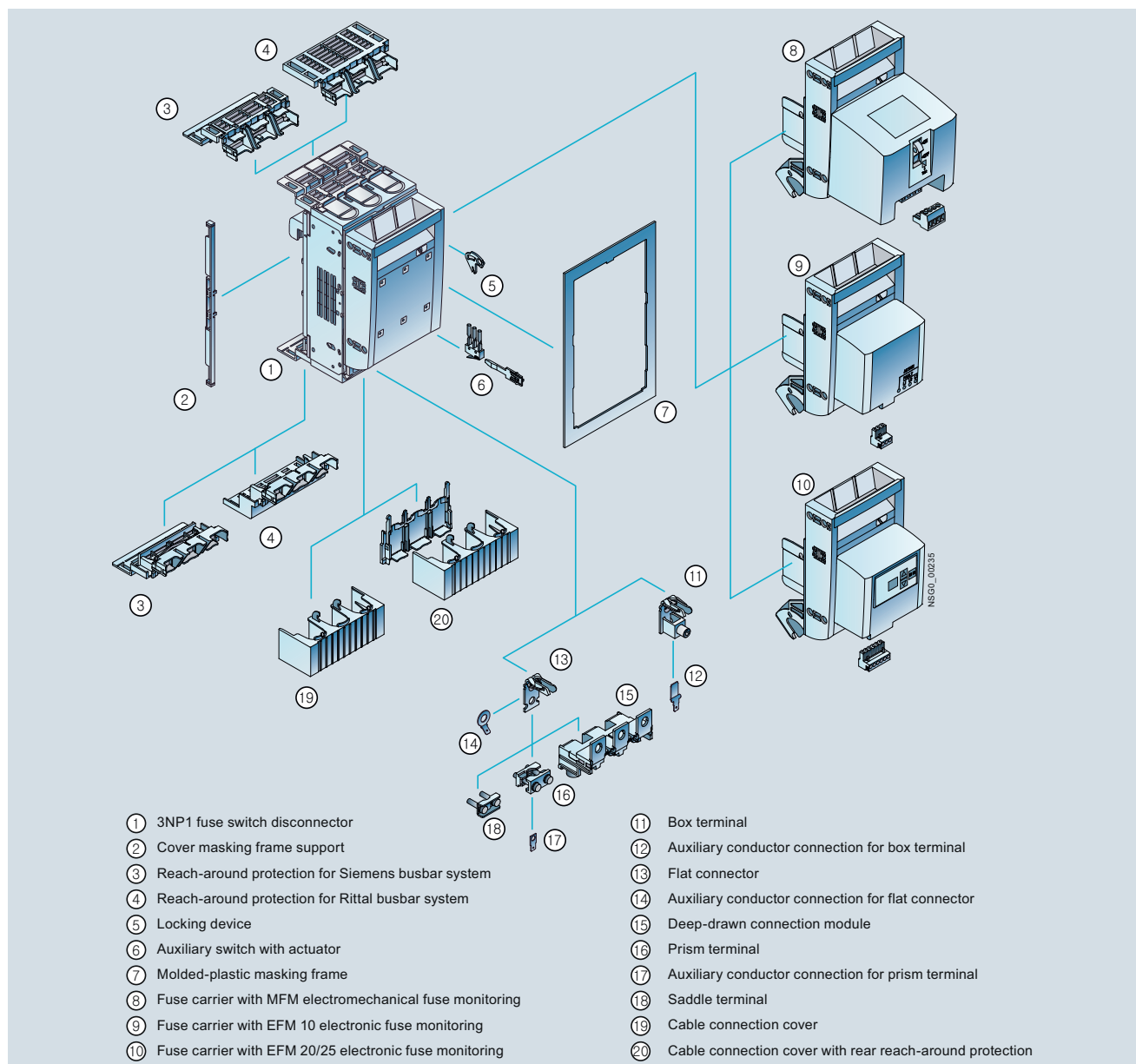


3NP1 fuse switch disconnectors

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



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.

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

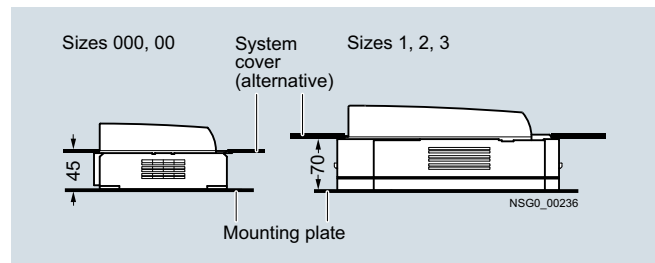
Standards and regulations

The 3NP1 fuse switch disconnectors are compliant with:

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

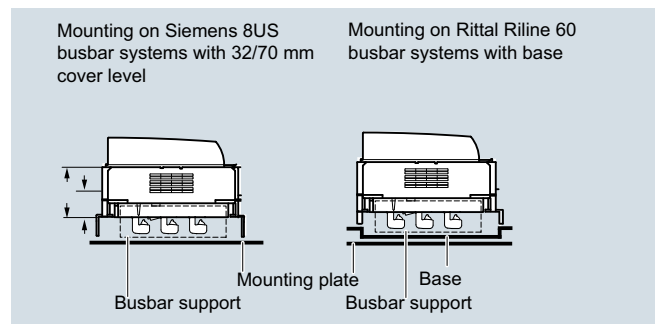
Mounting

Floor mounting



3NP1 fuse switch disconnector for floor mounting

Busbar mounting



3NP1 fuse switch disconnector for busbar mounting

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Introduction

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
• At DC (3 conducting paths series-connected)	V	440	440	440	440	440
• At DC (2 conducting paths series-connected)	V	220/240	220/240	220/240	220/240	220/240
• For utilization category AC-20B or DC-20B	Max. V	1000	1000	1000	1000	1000
Rated insulation voltage U_i²⁾	V	1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8	8
Rated cond. 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-21B	690 V AC A	160	160	250	400	630
• At AC-22B	690 V AC A	50	125	250	400	500
• At AC-23B	690 V AC A	25	35	100	125	200
• At DC-21B (2 conducting paths series-connected)	240 V DC A	160	160	250	400	630
• At DC-22B (2 conducting paths series-connected)	240 V DC A	100	160	250	400	630
• At DC-23B (2 conducting paths series-connected)	240 V DC A	80	100	200	250	400
• At DC-21B (3 conducting paths series-connected)	440 V DC A	100	160	250	400	630
• At DC-22B (3 conducting paths series-connected)	440 V DC A	50	125	200	315	500
• At DC-23B (3 conducting 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)						
Without molded-plastic masking frame/cable lug cover		IP30 (switch closed) / IP20 (switch open)				
With molded-plastic masking frame/cable lug cover		IP40 (switch closed) / IP20 (switch open)				
Power loss of 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 terminal	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 position		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 7/217.

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

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Floor mounting

Selection and ordering data

	Rated current I_u	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
For 45 mm cover level								
	Basic units							
	Flat terminals							
	160	00	▶	3NP1133-1CA10		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000	▶	3NP1123-1CA20		1	1 unit	1DL
	160	00	▶	3NP1133-1CA20		1	1 unit	1DL
With MFM electromechanical fuse monitoring								
	Flat terminals							
	160	00		3NP1133-1CA11		1	1 unit	1DL
	Box terminals							
	160	00		3NP1133-1CA21		1	1 unit	1DL
With EFM 10 electronic fuse monitoring								
	Flat terminals							
	160	00		3NP1133-1CA12		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000		3NP1123-1CA22		1	1 unit	1DL
	160	00		3NP1133-1CA22		1	1 unit	1DL
With EFM 20 electronic fuse monitoring and line monitoring								
	Flat terminals							
	160	00		3NP1133-1CA13		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000		3NP1123-1CA23		1	1 unit	1DL
	160	00		3NP1133-1CA23		1	1 unit	1DL

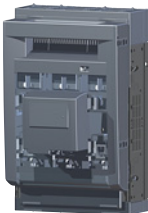
¹⁾ 160 A available in combination with feeder terminal 3NP1923-1BD00.

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Floor mounting

	Rated current I_N	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
For 70 mm cover level								
	Basic units							
	Flat terminals							
	250	1	►	3NP1143-1DA10		1	1 unit	1DL
	400	2	►	3NP1153-1DA10		1	1 unit	1DL
	630	3	►	3NP1163-1DA10		1	1 unit	1DL
	Box terminals							
	250	1		3NP1143-1DA20		1	1 unit	1DL
	400	2		3NP1153-1DA20		1	1 unit	1DL
	630	3		3NP1163-1DA20		1	1 unit	1DL
	With MFM electromechanical fuse monitoring							
	Flat terminals							
	250	1		3NP1143-1DA11		1	1 unit	1DL
	400	2		3NP1153-1DA11		1	1 unit	1DL
	630	3		3NP1163-1DA11		1	1 unit	1DL
	Box terminals							
	250	1		3NP1143-1DA21		1	1 unit	1DL
	400	2		3NP1153-1DA21		1	1 unit	1DL
	630	3		3NP1163-1DA21		1	1 unit	1DL
	With EFM 10 electronic fuse monitoring							
	Flat terminals							
	250	1		3NP1143-1DA12		1	1 unit	1DL
	400	2		3NP1153-1DA12		1	1 unit	1DL
	630	3		3NP1163-1DA12		1	1 unit	1DL
	Box terminals							
	250	1		3NP1143-1DA22		1	1 unit	1DL
	400	2		3NP1153-1DA22		1	1 unit	1DL
	630	3		3NP1163-1DA22		1	1 unit	1DL
	With EFM 20 electronic fuse monitoring and line monitoring							
	Flat terminals							
	250	1		3NP1143-1DA13		1	1 unit	1DL
	400	2		3NP1153-1DA13		1	1 unit	1DL
	630	3		3NP1163-1DA13		1	1 unit	1DL
	Box terminals							
	250	1		3NP1143-1DA23		1	1 unit	1DL
	400	2		3NP1153-1DA23		1	1 unit	1DL
	630	3		3NP1163-1DA23		1	1 unit	1DL

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Selection and ordering data

Rated current I_u	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A		d					
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
Box terminals							
100 ²⁾	000		3NP1123-1BB20		1	1 unit	1DL
160	00		3NP1133-1BB20		1	1 unit	1DL
With MFM electromechanical fuse monitoring							
Flat terminals							
160	00		3NP1133-1BB11		1	1 unit	1DL
Box terminals							
160	00		3NP1133-1BB21		1	1 unit	1DL
With EFM 10 electronic fuse monitoring							
Flat terminals							
160	00		3NP1133-1BB12		1	1 unit	1DL
Box terminals							
100 ²⁾	000		3NP1123-1BB22		1	1 unit	1DL
160	00		3NP1133-1BB22		1	1 unit	1DL
With EFM 20 electronic fuse monitoring and line monitoring							
Flat terminals							
160	00		3NP1133-1BB13		1	1 unit	1DL
Box terminals							
100 ²⁾	000		3NP1123-1BB23		1	1 unit	1DL
160	00		3NP1133-1BB23		1	1 unit	1DL



3NP1133-1BB20



3NP1133-1BB21



3NP1133-1BB22



3NP1133-1BB23

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

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

	Rated current I_N	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
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
	Box terminals							
	100 ²⁾	000		3NP1123-1JB20		1	1 unit	1DL
	160	00		3NP1133-1JB20		1	1 unit	1DL
3NP1133-1JB20								
	With MFM electromechanical fuse monitoring							
	Flat terminals							
	160	00		3NP1133-1JB11		1	1 unit	1DL
	Box terminals							
	160	00		3NP1133-1JB21		1	1 unit	1DL
3NP1133-1JB21								
	With EFM 10 electronic fuse monitoring							
	Flat terminals							
	160	00		3NP1133-1JB12		1	1 unit	1DL
	Box terminals							
	100 ²⁾	000		3NP1123-1JB22		1	1 unit	1DL
	160	00		3NP1133-1JB22		1	1 unit	1DL
3NP1133-1JB22								
	With EFM 20 electronic fuse monitoring and line monitoring							
	Flat terminals							
	160	00		3NP1133-1JB13		1	1 unit	1DL
	Box terminals							
	100 ²⁾	000		3NP1123-1JB23		1	1 unit	1DL
	160	00		3NP1133-1JB23		1	1 unit	1DL
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

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

Selection and ordering data

	Rated current I_{u}	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
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
	250	1	▶	3NP1143-1BC10		1	1 unit	1DL
	400	2		3NP1153-1BC10		1	1 unit	1DL
	630	3		3NP1163-1BC10		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000	▶	3NP1123-1BC20		1	1 unit	1DL
	160	00	▶	3NP1133-1BC20		1	1 unit	1DL
	250	1	▶	3NP1143-1BC20		1	1 unit	1DL
	400	2		3NP1153-1BC20		1	1 unit	1DL
	630	3		3NP1163-1BC20		1	1 unit	1DL
	With MFM electromechanical fuse monitoring							
	Flat terminals							
	160	00		3NP1133-1BC11		1	1 unit	1DL
	250	1		3NP1143-1BC11		1	1 unit	1DL
	400	2		3NP1153-1BC11		1	1 unit	1DL
	630	3		3NP1163-1BC11		1	1 unit	1DL
	Box terminals							
	160	00		3NP1133-1BC21		1	1 unit	1DL
	250	1		3NP1143-1BC21		1	1 unit	1DL
	400	2		3NP1153-1BC21		1	1 unit	1DL
	630	3		3NP1163-1BC21		1	1 unit	1DL
	With EFM 10 electronic fuse monitoring							
	Flat terminals							
	160	00		3NP1133-1BC12		1	1 unit	1DL
	250	1		3NP1143-1BC12		1	1 unit	1DL
	400	2		3NP1153-1BC12		1	1 unit	1DL
	630	3		3NP1163-1BC12		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000		3NP1123-1BC22		1	1 unit	1DL
	160	00		3NP1133-1BC22		1	1 unit	1DL
	250	1		3NP1143-1BC22		1	1 unit	1DL
	400	2		3NP1153-1BC22		1	1 unit	1DL
	630	3		3NP1163-1BC22		1	1 unit	1DL
	With EFM 20 electronic fuse monitoring and line monitoring							
	Flat terminals							
	160	00		3NP1133-1BC13		1	1 unit	1DL
	250	1		3NP1143-1BC13		1	1 unit	1DL
	400	2		3NP1153-1BC13		1	1 unit	1DL
	630	3		3NP1163-1BC13		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000		3NP1123-1BC23		1	1 unit	1DL
	160	00		3NP1133-1BC23		1	1 unit	1DL
	250	1		3NP1143-1BC23		1	1 unit	1DL
	400	2		3NP1153-1BC23		1	1 unit	1DL
	630	3		3NP1163-1BC23		1	1 unit	1DL

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

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

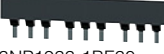
	Rated current I_N	Size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A		d					
With reach-around protection suitable for Rittal RiLine60 busbar system with base								
 3NP1133-1JC20	Basic units							
	Flat terminals							
	160	00		3NP1133-1JC10		1	1 unit	1DL
	250	1		3NP1143-1JC10		1	1 unit	1DL
	400	2		3NP1153-1JC10		1	1 unit	1DL
	630	3		3NP1163-1JC10		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000		3NP1123-1JC20		1	1 unit	1DL
	160	00		3NP1133-1JC20		1	1 unit	1DL
	250	1		3NP1143-1JC20		1	1 unit	1DL
	400	2		3NP1153-1JC20		1	1 unit	1DL
	630	3		3NP1163-1JC20		1	1 unit	1DL
	With MFM electromechanical fuse monitoring							
	Flat terminals							
 3NP1133-1JC21	160	00		3NP1133-1JC11		1	1 unit	1DL
	250	1		3NP1143-1JC11		1	1 unit	1DL
	400	2		3NP1153-1JC11		1	1 unit	1DL
	630	3		3NP1163-1JC11		1	1 unit	1DL
	Box terminals							
	160	00		3NP1133-1JC21		1	1 unit	1DL
	250	1		3NP1143-1JC21		1	1 unit	1DL
	400	2		3NP1153-1JC21		1	1 unit	1DL
	630	3		3NP1163-1JC21		1	1 unit	1DL
	With EFM 10 electronic fuse monitoring							
	Flat terminals							
	160	00		3NP1133-1JC12		1	1 unit	1DL
	250	1		3NP1143-1JC12		1	1 unit	1DL
	400	2		3NP1153-1JC12		1	1 unit	1DL
	630	3		3NP1163-1JC12		1	1 unit	1DL
	Box terminals							
 3NP1133-1JC22	100 ¹⁾	000		3NP1123-1JC22		1	1 unit	1DL
	160	00		3NP1133-1JC22		1	1 unit	1DL
	250	1		3NP1143-1JC22		1	1 unit	1DL
	400	2		3NP1153-1JC22		1	1 unit	1DL
	630	3		3NP1163-1JC22		1	1 unit	1DL
	With EFM 20 electronic fuse monitoring and line monitoring							
	Flat terminals							
	160	00		3NP1133-1JC13		1	1 unit	1DL
	250	1		3NP1143-1JC13		1	1 unit	1DL
	400	2		3NP1153-1JC13		1	1 unit	1DL
	630	3		3NP1163-1JC13		1	1 unit	1DL
	Box terminals							
	100 ¹⁾	000		3NP1123-1JC23		1	1 unit	1DL
	160	00		3NP1133-1JC23		1	1 unit	1DL
	250	1		3NP1143-1JC23		1	1 unit	1DL
	400	2		3NP1153-1JC23		1	1 unit	1DL
	630	3		3NP1163-1JC23		1	1 unit	1DL

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.

Selection and ordering data

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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 three-phase busbar - For connection of copper conductors		3NP1923-1BD00	1	1 unit	1DL
	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
 3NP1923-1BE20	Covering caps For 1 blank space on a three-phase busbar (1 set = 20 units)		3NP1923-1BF10	1	1 unit	1DL
 3NP1923-1BF10	Three-phase busbar $I_U = \text{max. } 225 \text{ A}$ - For 2x NH000 - For 3x NH000 - For 4x NH000		3NP1923-1BF20	1	1 unit	1DL
 3NP1933-1BF30			3NP1923-1BF30	1	1 unit	1DL
			3NP1923-1BF40	1	1 unit	1DL
 3NP1933-1BF50	Link rail , $I_U = \text{max. } 225 \text{ A}$ For three-phase busbars		3NP1923-1BF50	1	1 unit	1DL
 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		3NP1923-1BG40	1	1 unit	1DL

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
For size 000 (continued)							
 3NP1923-1CA10			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 • For Siemens 8US system • For Rittal system Cable connection covers Only for busbar systems 40 mm / 60 mm, top and bottom				
 3NP1923-1CB00			3NP1923-1CA10 3NP1923-1CA20 3NP1923-1CB00 11 unit1DL 11 unit1DL 11 unit1DL				
 3NP1923-1CF00			Masking frame supports (1 set = 2 units) 3NP1923-1CF00 11 unit1DL				
 3NP1923-1DA00			Covers External dimensions (H x W) 215 x 130 mm 3NP1923-1DA00 11 unit1DL				
 3NP1923-1EA00			Fixing kits For 1 standard mounting rail ▶3NP1923-1EA00 11 unit1DL				
 3NP1920-1FA00			Auxiliary switches 1 CO 1 CO contact, solid-state compatible ▶3NP1920-1FA00 3NP1920-1FB00 11 unit1DL 11 unit1DL				
 3NP1923-1GA00			Fuse carriers Spare part, included in scope of delivery of the 3NP1, fuse monitoring can be retrofitted by replacing the fuse carrier • Standard • With EFM 10 electronic fuse monitoring • With EFM 20 electronic fuse monitoring and line monitoring • With EFM 25 electronic fuse monitoring and line monitoring 3NP1923-1GA00 3NP1923-1GA00 3NP1923-1GB20 3NP1923-1GB30 3NP1923-1GB50 11 unit1DL 11 unit1DL 11 unit1DL 11 unit1DL 11 unit1DL				
 3NP1900-1HA00			Locking devices (1 set = 10 units) 3NP1900-1HA00 11 unit1DL				

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

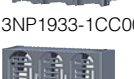
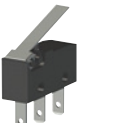
Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
For size 00						
 3NP1933-1BA00  3NP1933-1BB10  3NP1933-1BC00  3NP1933-1BE10  3NP1923-1BE20  3NP1933-1BG10  3NP1933-1BG30  3NP1933-1BG40	Connection methods Saddle terminals , 1.5 ... 70 mm ² (1 set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

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
For size 00 (continued)						
Device covers, auxiliary switches						
Reach-around protection for busbar mounting						
 3NP1933-1CA10	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					
	- For Siemens 8US system - For Rittal system	3NP1933-1CA10 3NP1933-1CA20		1 1	1 unit 1 unit	1DL 1DL
 3NP1933-1CB00	Cable connection covers (at top and bottom) For flat terminal	▶ 3NP1933-1CB00		1	1 unit	1DL
 3NP1933-1CC00	Cable connection covers with rear reach-around protection in case of busbar mounting (at top and bottom) For flat terminal	▶ 3NP1933-1CC00		1	1 unit	1DL
 3NP1933-1CD00	Cable connection covers with rear reach-around protection in case of floor mounting (at top and bottom) For flat terminal	▶ 3NP1933-1CD00		1	1 unit	1DL
 3NP1933-1CF00	Masking frame supports (1 set = 2 units)	3NP1933-1CF00		1	1 unit	1DL
 3NP1933-1DA00	Covers External dimensions (H x W) 215 x 130 mm	3NP1933-1DA00		1	1 unit	1DL
 3NP1933-1EB00	Fixing kits For 2 standard mounting rails 125/150 mm	▶ 3NP1933-1EB00		1	1 unit	1DL
 3NP1930-1FB00	Auxiliary switches 1 CO contact 1 CO contact, solid-state compatible	▶ 3NP1930-1FA00 3NP1930-1FB00		1 1	1 unit 1 unit	1DL 1DL
 3NP1933-1GB10	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 EFM 10 electronic fuse monitoring - With EFM 20 electronic fuse monitoring and line monitoring - With EFM 25 electronic fuse monitoring and line monitoring	3NP1933-1GA00 3NP1933-1GB10 3NP1933-1GB20 3NP1933-1GB30 3NP1933-1GB50		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL 1DL
	Locking devices (1 set = 10 units)	3NP1900-1HA00		1	1 unit	1DL

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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
	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
	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
	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
 3NP1943-1BG10	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
 3NP1943-1BG30	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
 3NP1943-1BG40						

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
For size 1 (continued)						
Device covers, auxiliary switches						
 3NP1943-1CA10	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					
		3NP1943-1CA10		1	1 unit	1DL
 3NP1943-1CB00	Cable connection covers (at top and bottom) ▶					
		3NP1943-1CB00		1	1 unit	1DL
 3NP1943-1CD00	Cable connection covers ▶ With rear reach-around protection (at top and bottom)					
		3NP1943-1CD00		1	1 unit	1DL
 3NP1943-1CF00	Masking frame supports (1 set = 2 units)					
		3NP1943-1CF00		1	1 unit	1DL
 3NP1943-1DA00	Covers External dimensions (H x W) 375 x 220 mm					
		3NP1943-1DA00		1	1 unit	1DL
 3NP1943-1EB00	Fixing kits For 2 standard mounting rails 125/150 mm					
		3NP1943-1EB00		1	1 unit	1DL
 3NP1940-1FA00	Auxiliary switches ▶ 1 CO contact 1 CO contact, solid-state compatible					
		3NP1940-1FA00		1	1 unit	1DL
 3NP1943-1GB20	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 EFM 10 electronic fuse monitoring • With EFM 20 electronic fuse monitoring and line monitoring • With EFM 25 electronic fuse monitoring and line monitoring					
		3NP1943-1GA00		1	1 unit	1DL
		3NP1943-1GB10		1	1 unit	1DL
		3NP1943-1GB20		1	1 unit	1DL
		3NP1943-1GB30		1	1 unit	1DL
		3NP1943-1GB50		1	1 unit	1DL
	Locking devices (1 set = 10 units)					
		3NP1900-1HA00		1	1 unit	1DL

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

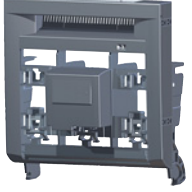
Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
For size 2						
 3NP1953-1BA00  3NP1953-1BB10  3NP1953-1BB20  3NP1943-1BG10  3NP1953-1BG30  3NP1953-1BG40	Connection methods Saddle terminals , 120 ... 240 mm ² (1 set = 3 units) • For 3NP1153 with flat terminal • For connection of copper conductors Prism terminals single, 120 ... 240 mm ² (1 set = 3 units) • For 3NP1153 with flat terminal • For connection of copper or aluminum conductors 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					
	Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A For flat terminal (1 set = 3 units) 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) Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm; max. 5 A For box terminal (1 set = 3 units)					
	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 • For Siemens 8US system • For Rittal system Cable connection covers (at top and bottom) Cable connection covers With rear reach-around protection (at top and bottom) Masking frame supports (1 set = 2 units) Covers External dimensions (H x W) 375 x 245 mm Auxiliary switches 1 CO contact 1 CO contact, solid-state compatible					
	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 EFM 10 electronic fuse monitoring • With EFM 20 electronic fuse monitoring and line monitoring • With EFM 25 electronic fuse monitoring and line monitoring Locking devices (1 set = 10 units)					
	3NP1953-1CA10 3NP1953-1CB00 3NP1940-1FA00 3NP1953-1GB30					
	3NP1953-1BA00 3NP1953-1BB10 3NP1953-1BB20 3NP1943-1BG10 3NP1953-1BG30 3NP1953-1BG40 3NP1953-1CA10 3NP1953-1CB00 3NP1940-1FA00 3NP1953-1GB30					
	3NP1953-1BA00 3NP1953-1BB10 3NP1953-1BB20 3NP1943-1BG10 3NP1953-1BG30 3NP1953-1BG40 3NP1953-1CA10 3NP1953-1CB00 3NP1940-1FA00 3NP1953-1GB30					
	3NP1953-1BA00 3NP1953-1BB10 3NP1953-1BB20 3NP1943-1BG10 3NP1953-1BG30 3NP1953-1BG40 3NP1953-1CA10 3NP1953-1CB00 3NP1940-1FA00 3NP1953-1GB30					
	3NP1953-1BA00 3NP1953-1BB10 3NP1953-1BB20 3NP1943-1BG10 3NP1953-1BG30 3NP1953-1BG40 3NP1953-1CA10 3NP1953-1CB00 3NP1940-1FA00 3NP1953-1GB30					
	3NP1953-1BA00 3NP1953-1BB10 3NP1953-1BB20 3NP1943-1BG10 3NP1953-1BG30 3NP1953-1BG40 3NP1953-1CA10 3NP1953-1CB00 3NP1940-1FA00 3NP1953-1GB30					

Switch Disconnectors

Fuse Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
For size 3							
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
	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
	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
	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
	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
	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
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 • For Siemens 8US system • For Rittal system		3NP1963-1CA10 3NP1963-1CA20		1 1	1 unit 1 unit	1DL 1DL
	Cable connection covers (at top and bottom)	►	3NP1963-1CB00		1	1 unit	1DL
	Cable connection cover With rear reach-around protection (at top and bottom)	►	3NP1963-1CD00		1	1 unit	1DL
Masking frame supports (1 set = 2 units)							
	Covers External dimensions (H x W) 375 x 290 mm		3NP1963-1DA00		1	1 unit	1DL
	Auxiliary switches 1 CO contact 1 CO contact, solid-state compatible	►	3NP1940-1FA00 3NP1940-1FB00		1 1	1 unit 1 unit	1DL 1DL
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 EFM 10 electronic fuse monitoring • With EFM 20 electronic fuse monitoring and line monitoring • With EFM 25 electronic fuse monitoring and line monitoring		3NP1963-1GA00 3NP1963-1GB10 3NP1963-1GB20 3NP1963-1GB30 3NP1963-1GB50		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	1DL 1DL 1DL 1DL 1DL
Locking devices (1 set = 10 units)							
			3NP1900-1HA00		1	1 unit	1DL

Switch Disconnectors

Fuse 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⁾ V AC	Operational class	Size	Required conductor cross-section Cu mm ²	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ^{4) 5)} 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

Minimum order quantity (PS) or a multiple thereof can be ordered.

Switch Disconnectors

Fuse 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⁾ V AC	Operational class	Size	Required conductor cross-section Cu mm ²	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ⁴⁾ A	Type	Size	Permissible load current ^{4) 5)} 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

Fuse 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⁾ 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⁾ 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.

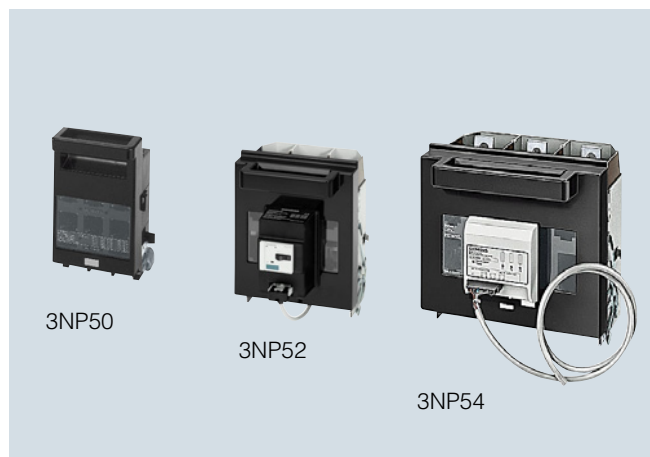
Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Introduction

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

Fuse 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 • 50/60 Hz AC • DC	V V	690 440 (3 conducting paths series-connected), 220 (2 conducting paths series-connected, with fuse monitoring through 3RV)							
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 cond. 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⁾									
• At 500 V AC (peak value)	Size kA	00 6	1 17		2 17		3 17		
Rated making and breaking capacity²⁾ (infeed from top or bottom) ³⁾									
Breaking current I_c	Size	00	1		0		2		
• At p.f. = 0.35, rms value at 500 V	A	1300	2500		1600		4000		
• At p.f. = 0.35, rms value at 690 V	A	800	1280		1000		2520		
• At p.f. = 0.35 and 400 V AC, with fuse links, rms value	A	1600	2500		1600		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		
• At AC-21B, AC-22B, AC-23B at 500 V AC, with fuse links	A	160	250		160		400		
• At AC-21B, AC-22B at AC 690 V	A	160	250		160		400		
• At AC-23B at AC 690 V	A	100	160		125		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		
• Rated operational current I_e at DC-23B	A	160	250		160		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 • Without molded-plastic masking frame		IP00, for 3NP52 with terminal clamp connection, degree of protection IP10							
• With molded-plastic masking frame with closed fuse carrier on the operator side		IP30							
• With molded-plastic masking frame with open fuse carrier		IP10							
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) • Pressed cable lugs acc. to DIN 46235 (conductor cross-section, stranded) • Busbars (usable busbar width)		mm ² mm ² mm	2.5 ... 120 16 ... 70 16 ... 22		6 ... 150 16 ... 150 22 ... 30		6 ... 240 16 ... 240 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 • Flat plug-in terminals (DIN 46244)		A	The same voltage potential must be applied to the NO and NC contacts 16/6 A 6.3 ... 0.8						
Permissible mounting position		Vertical or horizontal installation (switching capacity may be reduced with horizontal installation)							
Signaling contact for electronic fuse monitoring • Rated operational current I_e at 250 V, DC-13 • Rated operational current I_e at 240 V, AC-15 • Thermal free-air rated current I_{th}		A A A	1 NO + 1 NC 0.27 1.5 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 monitoring devices 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 7/230.

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

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Floor mounting

Selection and ordering data

	Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches at the switch disconnectors	SD	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	PG
	A			Version	d					
Completely compartmentalized, with high speed closing feature										
 3NP5060-0CA00	160	Flat terminals ¹⁾	00	Without ²⁾ 1 NO + 1 NC	▶	3NP5060-0CA00		1	1 unit	1CL
						3NP5060-0CA10		1	1 unit	1CL
		Clamp terminals	00	Without ²⁾ 1 NO + 1 NC		3NP5060-0CB00		1	1 unit	1CL
						3NP5060-0CB10		1	1 unit	1CL
 3NP5260-0CA00	250	Flat terminals	1	Without 1 NO + 1 NC	▶	3NP5260-0CA00		1	1 unit	1CL
						3NP5260-0CA10		1	1 unit	1CL
		Clamp terminals	1	Without 1 NO + 1 NC		3NP5260-0CB00		1	1 unit	1CL
						3NP5260-0CB10		1	1 unit	1CL
 3NP5360-0CA00	400	Flat terminals	2	Without 1 NO + 1 NC	▶	3NP5360-0CA00		1	1 unit	1CL
						3NP5360-0CA10		1	1 unit	1CL
 3NP5460-0CA00	630	Flat terminals	3	Without 1 NO + 1 NC	▶	3NP5460-0CA00		1	1 unit	1CL
						3NP5460-0CA10		1	1 unit	1CL

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 7/228, Accessories](#).

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

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Selection and ordering data -

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches at the switch disconnectors Version	SD	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	PG
A				d					

Completely compartmentalized, with high speed closing feature¹⁾**For busbars with a width of 12 mm and a thickness of 5 mm or 10 mm**

160	Flat terminals	00	Without 1 NO + 1 NC	3NP5065-1CF00 3NP5065-1CF10	1	1 unit	1CL
	Clamp terminals	00	Without 1 NO + 1 NC	3NP5065-1CG00 3NP5065-1CG10	1	1 unit	1CL

¹⁾ For accessories and more devices on busbar systems, see page 7/228, [Accessories](#).

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

Overview

Note:

For disconnector versions "for installation in any distribution board" and busbar adapters, [see page 7/229](#).

Switch Disconnectors

Fuse 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		SD	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS	PG
A			At switch disconnectors	At circuit breakers	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

**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
			1 NO + 1 NC	2 NO		3NP5060-0EA26	1	1 unit	1CL
	Clamp terminals	00	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5060-0EB86	1	1 unit	1CL
			1 NO + 1 NC	2 NO		3NP5060-0EB26	1	1 unit	1CL
	Flat terminals	1	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5260-0EA86	1	1 unit	1CL
			1 NO + 1 NC	2 NO		3NP5260-0EA26	1	1 unit	1CL
250	Clamp terminals	1	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5260-0EB86	1	1 unit	1CL
			1 NO + 1 NC	2 NO		3NP5260-0EB26	1	1 unit	1CL
	Flat terminals	2	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5360-0EA86	1	1 unit	1CL
			1 NO + 1 NC	2 NO		3NP5360-0EA26	1	1 unit	1CL
	Clamp terminals	3	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5460-0EA86	1	1 unit	1CL
			1 NO + 1 NC	2 NO		3NP5460-0EA26	1	1 unit	1CL



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 7/228, Accessories.

For 40 mm busbar system

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches		SD	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS	PG
A			At switch disconnectors	At circuit breakers	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

**Completely compartmentalized, with high speed closing feature
with fuse monitoring by SIRIUS circuit breakers¹⁾****For busbars with a width of 12 mm and a 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
			1 NO + 1 NC	2 NO		3NP5065-1EF26	1	1 unit	1CL
	Clamp terminals	00	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5065-1EG86	1	1 unit	1CL
			1 NO + 1 NC	2 NO		3NP5065-1EG26	1	1 unit	1CL

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

For 60 mm busbar systemNote:

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

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

With fuse monitoring

Fuse monitoring by electronic fuse monitoring devices

Floor mounting

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches		SD	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS	PG
A			At switch disconnectors	At fuse monitoring devices	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

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

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

With plug-in connection for connecting cables from auxiliary switches
(approx. 1 m long) to the fuse monitoring device,

- Status indicator: Green LED illuminated,
- Fault indication: Green LED flashing,
- Fuse failure: Red LED (display per phase)



3NP5060-0HA13



3NP5260-0HA13



3NP5360-0HA13



3NP5460-0HA13

160	Flat terminals ¹⁾	00	1 NO + 1 NC	2 NO + 1 NC	3NP5060-0HA13	1	1 unit	1CL
	Clamp terminals	00	1 NO + 1 NC	2 NO + 1 NC	3NP5060-0HB13	1	1 unit	1CL
250	Flat terminals	1	1 NO + 1 NC	2 NO + 1 NC	3NP5260-0HA13	1	1 unit	1CL
400	Flat terminals	2	1 NO + 1 NC	2 NO + 1 NC	3NP5360-0HA13	1	1 unit	1CL
630	Flat terminals	3	1 NO + 1 NC	2 NO + 1 NC	3NP5460-0HA13	1	1 unit	1CL

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 7/228, Accessories.

Switch Disconnectors

Fuse 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		SD	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS	PG
			At switch disconnectors	At fuse monitoring devices					
A			Version	Version	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

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

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

For busbars with a width of 12 mm and thickness of 5 mm or 10 mm

160 Flat terminals 00 1 NO + 1 NC 2 NO + 1 NC



3NP5065-1HF13

3NP5065-1HF13

1 1 unit 1CL

For 60 mm busbar systemNote:

For disconnector versions "for installation in any distribution
board" and busbar adapters, [see page 7/229](#).

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Accessories

Selection and ordering data

Version	For fuse switch disconnectors	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							
Fuse carriers							
	3NP506-.C..0		3NY1074		1	1 unit	1CL
	3NP5260-.C..0		3NY1371		1	1 unit	1CL
	3NP5360-.C..0		3NY1372		1	1 unit	1CL
	3NP5460-.C..0		3NY1373		1	1 unit	1CL
	With fuse monitoring by 3RV1 circuit breakers (with auxiliary switch 1 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP506-.E..6 3NP5260-.E..6 3NP5360-.E..6 3NP5460-.E..6	3NY1420 3NY1421 3NY1422 3NY1423		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
	Connector and connecting cable 1 m long	3NP5 with 3RV1	3NY1910		1	1 unit	1CL
	3 m long		3NY1911		1	1 unit	1CL
	With electronic fuse monitoring for 400 V ... 500 V (with auxiliary switch 1 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP506-.H.13 3NP5260-.H.13 3NP5360-.H.13 3NP5460-.H.13	3NY1513-0 3NY1513-2 3NY1513-3 3NY1513-4		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
	Connector and connecting cable (6-pole) 3 m long	3NP5 with EFM	3NY1915		1	1 unit	1CL
Auxiliary switch 1 NO + 1 NC							
	With actuating cams, screws and washers (mounting kit)	3NP50 ¹⁾	3NY3033		1	1 unit	1CL
	With fixing bracket and screws (mounting kit)	3NP52 ... 3NP54	3NY3034		1	1 unit	1CL
Arc chutes							
	(3 units each are required for 3NP52, 3NP53 and 3NP54)	3NP50 3NP52 3NP53, 3NP54	3NY4031 3NY4011 3NY4012		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
							
Molded-plastic masking frames							
As replacement for		300 x 220 mm	3NY1210	3NY1102	1	1 unit	1CL
masking frames from		300 x 245 mm	3NY1211	3NY1103	1	1 unit	1CL
assembly kits for flush		300 x 290 mm	3NY1212	3NY1104	1	1 unit	1CL
mounting (without fixing							
brackets and small							
components)							

¹⁾ If retrofitted, drill holes are required.

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Accessories

Assembly kits for distribution systems

	Version	For fuse switch disconnectors	Dimensions	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm	d					
For installation in any distribution board									
 3NY1107  3NY1106  3NY1212  3TX6546-3B  3NY1907  8US1210-4AG00	Molded-plastic masking frames		Height x width						
	For installation in cabinet	3NP50 with and without auxiliary switch	215 x 135		3NY1105		1	1 unit	1CL
	For installation in metal front panels	With auxiliary switch	215 x 135		3NY1115		1	1 unit	1CL
		With and without auxiliary switch	220 x 160		3NY1125		1	1 unit	1CL
	For covering connection terminals	3NP50 with and without auxiliary switch	265 x 135		3NY1107		1	1 unit	1CL
	For covering cable lug connections	3NP50 with and without auxiliary switch	290 x 135		3NY1106		1	1 unit	1CL
 3NY1212  3TX6546-3B  3NY1907  8US1210-4AG00	Assembly kits for flush mounting		290 x 135		3NY1116		1	1 unit	1CL
	With molded-plastic masking frame, fixing brackets and small components; for disconnectors with and without auxiliary switches	3NP50 with and without auxiliary switch	290 x 135		3NY1108		1	1 unit	1CL
	Covers for cable lug connections	3NP5060	250 x 149		3NY1208		1	1 unit	1CL
		3NP5260	300 x 220		3NY1210		1	1 unit	1CL
		3NP5360	300 x 245		3NY1211		1	1 unit	1CL
		3NP5460	300 x 290		3NY1212		1	1 unit	1CL
	Can be screwed onto free screw end to protect against accidental touch (1 set = 6 units)	3NP52	99		3NY1241		1	1 unit	1CL
		3NP53/3NP54	95		3TX6546-3B		1	1 unit	41B
			120		3NY1245		1	1 unit	1CL
	Clamp terminals (1 set = 3 units)	3NP50	Conductor cross-section 2.5 ... 50 mm ² ¹⁾		3NY1903		1	1 unit	1CL
		3NP52	35 ... 120 mm ²		3NY1907		1	1 unit	1CL
	Busbar adapters		Busbar width						
	For 60 mm busbar system	3NP50	108		8US1291-4SB00		1	1 unit	1CU
		3NP52, 3NP53, 3NP54 ²⁾	250 (length 320 mm, M10 terminal screws, connecting cables must be manufactured)		8US1210-4AG00		1	1 unit	1CU

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

Switch Disconnectors

Fuse Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Fuses

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.

Note

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

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⁾	Operational class	Size	Required conductor cross-section Cu	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ⁴⁾	Type	Size	Permissible load current ⁴⁾
	A	V AC			mm ²			A			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

Switch Disconnectors

Fuse 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

Fuse 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).

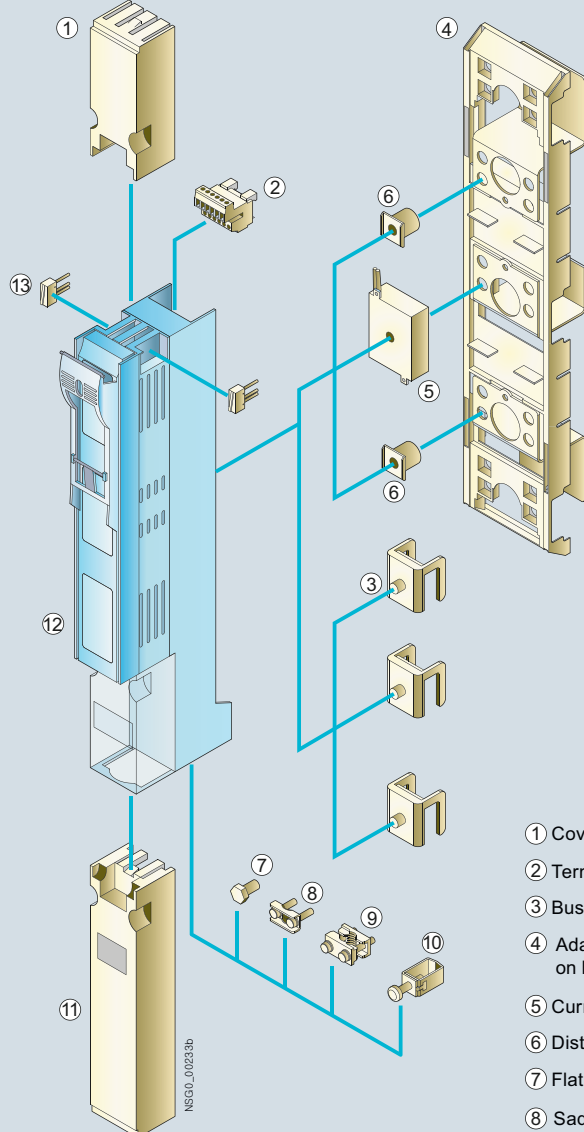
⁵⁾ The fuse can also be operated at a higher rated uninterrupted current than the 630 A current of the 3NP54. However, in this case, the 3NP54 must not be switched under load (utilization category AC-20).

Overview

3NJ4/3NJ5 fuse switch disconnectors

All key product features at a glance

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

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

- | | |
|--|--|
| ① Cover | ⑨ Prism terminal |
| ② Terminal strip | ⑩ Box terminal |
| ③ Busbar terminal | ⑪ Cover |
| ④ Adapter for screw fixing on busbar systems | ⑫ 3NJ4/5 fuse switch disconnector Basic device size 00 |
| ⑤ Current transformer | ⑬ Auxiliary switch mounting kit |
| ⑥ Distance compensation | |
| ⑦ Flat connector | |
| ⑧ Saddle terminal | |

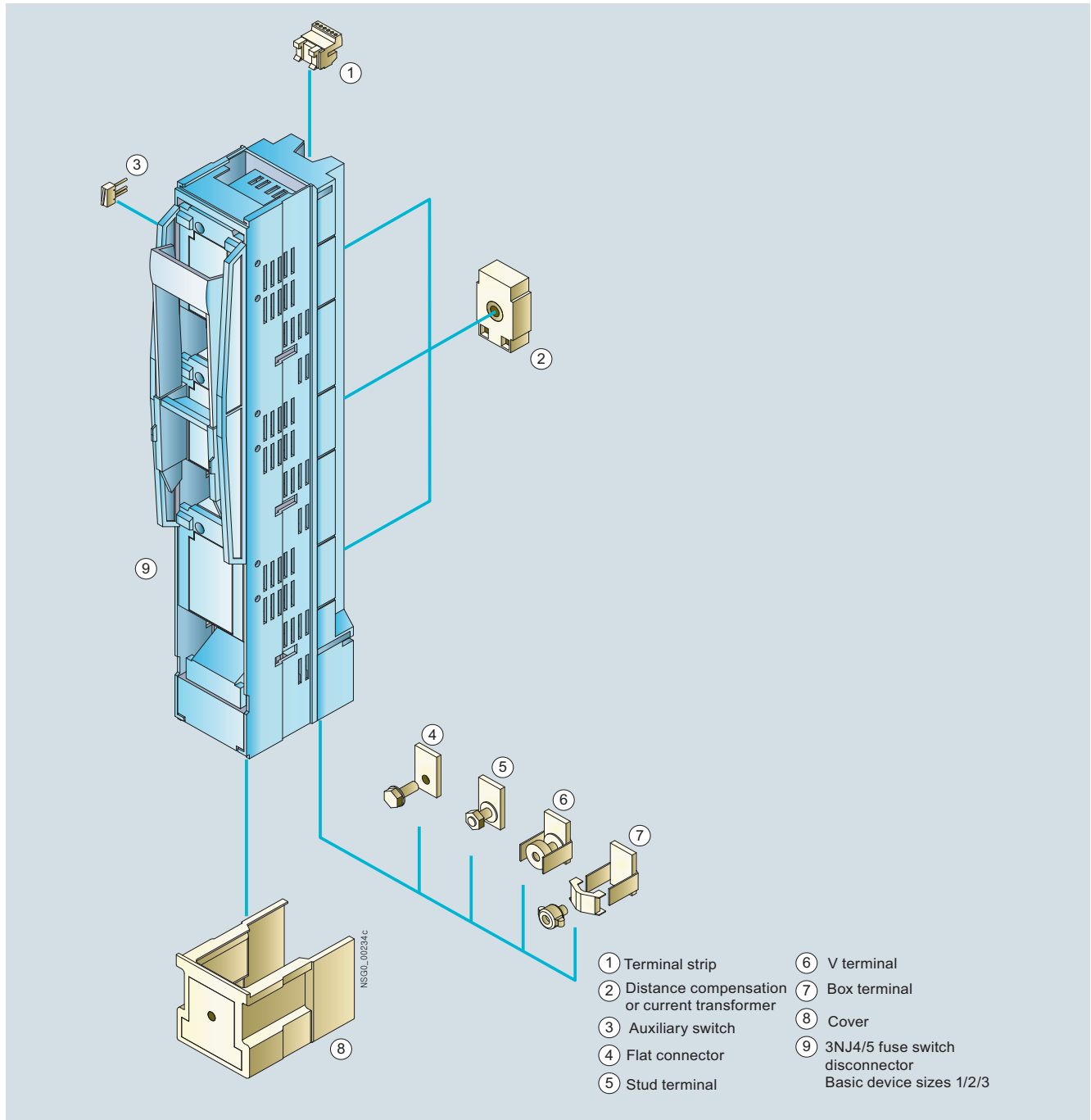
Switch Disconnectors

Fuse Switch Disconnectors

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

Introduction

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



Benefits

Parking position

For maintenance, e.g. of 1-pole switchable in-line fuse switch disconnectors – sizes 1 to 3 – and for 3-pole switchable in-line fuse switch disconnectors – size 00 – the fuse carriers 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 single-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 three-phase equipment.*

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 × 3	2 × 3	
Free-air with isolating blade, I_n	A		160	250	400	630	1250	630	800	2 × 630	2 × 800	
gTr according to VDE 0636-2011, I_{rat}	A		--	--	--	--	--	1000	1250	2 × 800	2 × 1000	
gTr according to VDE 0636-2011, S_n	kVA		--	--	--	--	1154	722	909	2 × 577	2 × 722	
			--	--	--	--	800	500	630	2 × 400	2 × 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 × 630	2 × 800	
AC-22B	400 V AC	A	160	250	400	630	1250	630	800	2 × 630	2 × 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 × 577	2 × 722	
Rated operational current I_e for isolating blades												
At AC-22B	400 V AC	A	--	--	--	--	--	1000	1250	2 × 800	2 × 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 conducting 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 × M12	2 × M12	3 × M12	4 × M12
Flat bars	mm		20	30	30	30	80	80 × 10	80 × 10	--	--	
Cable lug, max. conductor cross-section (stranded)	mm ²		95	240	240	240	2 × 300	2 × 300	2 × 300	3 × 300 4 × 185	4 × 300 4 × 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 busbars	Nm		16 ... 18	35 ... 40	35 ... 40	35 ... 40	50 ... 60	35 ... 40	35 ... 40	35 ... 40	35 ... 40	

Switch Disconnectors

Fuse Switch Disconnectors

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

1-pole switchable

Selection and ordering data

	Rated operational current I_e	For fuse links acc. to IEC 60269-1	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 con- ductor material	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	Size	mm			d					

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
	250	1	185	M10 flat connector	Cu/Al ³⁾		3NJ4121-3BF01		1	1 unit	1DL
	400	2 and 1	185	M12 flat connector	Cu/Al ³⁾		3NJ4131-3BF01		1	1 unit	1DL
	630	3 and 2	185	M12 flat connector	Cu/Al ³⁾		3NJ4141-3BF01		1	1 unit	1DL
	1250	4a	185	M16 × 60 stud terminal	Cu/Al ³⁾		3NJ5643-0BB00		1	1 unit	1DL

3NJ4101-3BF01



3NJ4121-3BF01

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
	400	2 and 1	185	M12 flat connector	Cu/Al ³⁾		3NJ4131-3BF11		1	1 unit	1DL
	630	3 and 2	185	M12 flat connector	Cu/Al ³⁾		3NJ4141-3BF11		1	1 unit	1DL

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

Fuse Switch Disconnectors

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

3-pole switchable

Selection and ordering data

	Rated operational current I_e	For fuse links acc. to IEC 60269-1	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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	Size	mm			d					
In-line fuse switch disconnectors, 3-pole switchable											
	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾		3NJ4103-3BF02		1	1 unit	1DL
				F70 box terminal	Cu		3NJ4103-3BR02		1	1 unit	1DL
	160	00 and 000	185 ³⁾	M8 flat connector	Cu/Al ²⁾		3NJ4103-3BF01		1	1 unit	1DL
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3BF01		1	1 unit	1DL
				M12 stud terminal	Cu/Al ²⁾		3NJ4123-3BJ01		1	1 unit	1DL
				V terminal	Cu/Al ²⁾		3NJ4123-3BT01		1	1 unit	1DL
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3BF01		1	1 unit	1DL
				M12 stud terminal	Cu/Al ²⁾		3NJ4133-3BJ01		1	1 unit	1DL
				V terminal	Cu/Al ²⁾		3NJ4133-3BT01		1	1 unit	1DL
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3BF01		1	1 unit	1DL
				M12 stud terminal	Cu/Al ²⁾		3NJ4143-3BJ01		1	1 unit	1DL
				V terminal	Cu/Al ²⁾		3NJ4143-3BT01		1	1 unit	1DL
In-line fuse switch disconnectors, 3-pole switchable, with electronic fuse monitoring (EFM)											
	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾		3NJ4103-3CF02		1	1 unit	1DL
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3CF01		1	1 unit	1DL
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3CF01		1	1 unit	1DL
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3CF01		1	1 unit	1DL
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
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3BF11		1	1 unit	1DL
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3BF11		1	1 unit	1DL
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3BF11		1	1 unit	1DL
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
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ4123-3CF11		1	1 unit	1DL
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ4133-3CF11		1	1 unit	1DL
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ4143-3CF11		1	1 unit	1DL
In-line fuse switch disconnectors, 3-pole switchable, for secondary-side fusing of transformers and incoming block											
Transformer apparent power	Rated apparent power of the gTr fuses	Busbar center-to- center spacing	Rated current of gTr fuses	Rated operational current I_e with disconnecting blades 3NJ4914-8BA00		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
kVA	kVA	mm	A	A		d					
	500	500	185	722	1000	Cu/Al ²⁾	3NJ4153-3BF01		1	1 unit	1DL
	630	630	185	909	1250	Cu/Al ²⁾	3NJ4183-3BF01		1	1 unit	1DL
	800	2 x 400	185	2 x 577	1600	Cu/Al ²⁾	3NJ4163-3BF01		1	1 unit	1DL
	1000	2 x 500	185	2 x 722	2000	Cu/Al ²⁾	3NJ4173-3BF01		1	1 unit	1DL

3NJ4163-3BF01

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.

Switch Disconnectors

Fuse Switch Disconnectors

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

Accessories

Selection and ordering data

Version	For in-line fuse switch disconnectors or dimensions	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Covers							
 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
 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
 3NJ4912-1AA01	Covers¹⁾ Sizes 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
 3NJ4912-1EA00	Covers Size 3 For double in-line disconnectors	3NJ414	3NJ4912-1EA00		1	1 unit	1DL
 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
 3NJ4912-2AA00	Blanking covers For panel cutout 633 mm long	50 mm wide	3NJ4912-2AA00		1	1 unit	1DL
 3NJ4912-2BA00	For panel cutout 633 mm long	100 mm wide	3NJ4912-2BA00		1	1 unit	1DL
 3NJ4912-2CA00	For panel cutout 299 mm long	50 mm wide	3NJ4912-2CA00		1	1 unit	1DL

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

Fuse Switch Disconnectors

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

Accessories

Version	For in-line fuse switch disconnectors or dimensions	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 3NJ4912-2DA00	Lateral masking frame supports For NH00 ... NH3, 3 clips with T profile	Length 665 mm	3NJ4912-2DA00		1	2 units	1DL
 3NJ4918-0AA00	Fixing clips 2 units per side, for fixing the cover of the control panel front (1 set = 4 units, including fixing accessories)	3NJ41	3NJ4918-0AA00		1	1 unit	1DL
 1201_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 50 mm wide		3NJ4912-3AA00		1	1 unit	1DL
	② Busbar center-to-center spacing 185 mm 100 mm wide		3NJ4912-3BA01		1	1 unit	1DL
	③ Busbar center-to-center spacing 100 mm 50 mm wide		3NJ4912-3CA00		1	1 unit	1DL
 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	3NJ4103-3BF02, 3NJ4103-3BR02, 3NJ4103-3CF02, 3NJ4103-3BF12, 3NJ4103-3CF12	3NJ4918-0DA02		1	1 unit	1DL
	• 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	3NJ4103-3BF01, 3NJ4101-3BF01	3NJ5930-3BB		1	1 unit	1DL
	• 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	3NJ4103-3BF02 3NJ4103-3BR02 3NJ4103-3CF02 3NJ4103-3BF12 3NJ4103-3CF12	3NJ4918-0DB02		1	1 unit	1DL
	• 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	3NJ4918-0EA00		1	1 unit	1DL
 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

Switch Disconnectors

Fuse Switch Disconnectors

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

Accessories

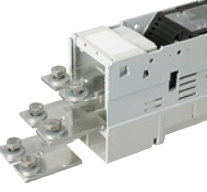
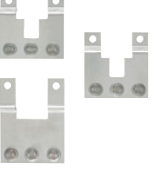
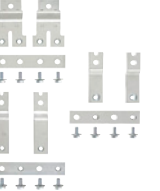
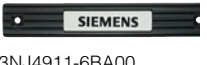
	Version	For in-line fuse switch disconnectors or dimensions	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
	Busbar supports For 100 mm and 185 mm center-to-center spacing, for screwing on of busbars	3NJ41 and 3NJ5		3NJ5974-0AB		1	1 unit	1DL
3NJ5974-0AB								
	Grounding kit with connecting cable 25 mm²	3NJ414 to 3NJ418		3NJ4910-1AA00		1	1 unit	1DL
3NJ4910-1AA00								
	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
3NJ4911-3AA00								
	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
3NJ4911-3BA01								
	Saddle terminals Cu connector 1.5 ... 70 mm ² (1 set = 3 units)	3NJ4103		3NJ4911-4AA00		1	1 unit	1DL
3NJ4911-4AA00								
	Prism terminal assembly kits Al/Cu connector 10 ... 70 mm ² (1 set = 3 units)	3NJ4103 3NJ4101		3NJ4911-1AA00		1	1 unit	1DL
3NJ4911-1AA00								
	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
3NJ4911-2BQ00								

Switch Disconnectors

Fuse Switch Disconnectors

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

Accessories

Version	For in-line fuse switch disconnectors or dimensions	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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
 3NJ4911-5BA00	2 x 300 mm ² / 3x 120 mm ² With M12 screws	3NJ412 to 3NJ414	3NJ4911-5BA00		1	1 unit	1DL
 3NJ4911-5CA00	1 x 400 mm ² With M16 screws	3NJ412 to 3NJ414	3NJ4911-5CA00		1	1 unit	1DL
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
 3NJ4911-6BA00	Mechanical coupling of operating handles, required in addition for coupling two switch disconnectors	3NJ413 3NJ414	3NJ4911-6CA00		1	1 unit	1DL
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
 3NJ4911-6BA00	Mechanical coupling of operating handles, required in addition for coupling two switch disconnectors	3NJ413 3NJ414	3NJ4911-6CA00		1	1 unit	1DL
 3NJ4913-6AA02	Auxiliary switch mounting kit 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
	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

Switch Disconnectors

Fuse Switch Disconnectors

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

Accessories

Version	For in-line fuse switch disconnectors or dimensions	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Current transformers .../5 A							
 3NJ4915-1FB20	100/5 A, Cl. 0.5, 1.0 VA	3NJ4103	3NJ4915-1EB10		1	1 unit	1DL
	100/5 A, Cl. 1, 1.5 VA	3NJ4103	3NJ4915-1EB20		1	1 unit	1DL
	150/5 A, Cl. 0.5, 1.5 VA	3NJ4103	3NJ4915-1FB10		1	1 unit	1DL
	150/5 A, Cl. 0.5 calibrated, 1.5 VA	3NJ4103	3NJ4915-1FB11		1	1 unit	1DL
	150/5 A, Cl. 1, 2.5 VA	3NJ4103	3NJ4915-1FB20		1	1 unit	1DL
	75/5 A, Cl. 1, 1.5 VA	3NJ412 to 3NJ414	3NJ4915-2DB20		1	1 unit	1DL
	100/5 A, Cl. 0.5, 1.0 VA	3NJ412 to 3NJ414	3NJ4915-2EB10		1	1 unit	1DL
	100/5 A, Cl. 1, 2.0 VA	3NJ412 to 3NJ414	3NJ4915-2EB20		1	1 unit	1DL
	150/5 A, Cl. 0.5, 1.5 VA	3NJ412 to 3NJ414	3NJ4915-2FB10		1	1 unit	1DL
	150/5 A, Cl. 1, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2FB20		1	1 unit	1DL
 3NJ4915-2HB20	250/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2GB10		1	1 unit	1DL
	250/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2GB11		1	1 unit	1DL
	250/5 A, Cl. 1, 3.75 VA	3NJ412 to 3NJ414	3NJ4915-2GB20		1	1 unit	1DL
	400/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2HB10		1	1 unit	1DL
	400/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2HB11		1	1 unit	1DL
	400/5 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2HB20		1	1 unit	1DL
	500/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2JB10		1	1 unit	1DL
	500/5 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2JB20		1	1 unit	1DL
	600/5 A, Cl. 0.5, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2KB10		1	1 unit	1DL
	600/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ412 to 3NJ414	3NJ4915-2KB11		1	1 unit	1DL
	600/5 A, Cl. 1, 5.0 VA	3NJ412 to 3NJ414	3NJ4915-2KB20		1	1 unit	1DL

Note

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

Switch Disconnectors

Fuse Switch Disconnectors

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

Notes