

Switch Disconnectors



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Service&Support portal:

www.siemens.com/lowvoltage/technical-support

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Technical specifications

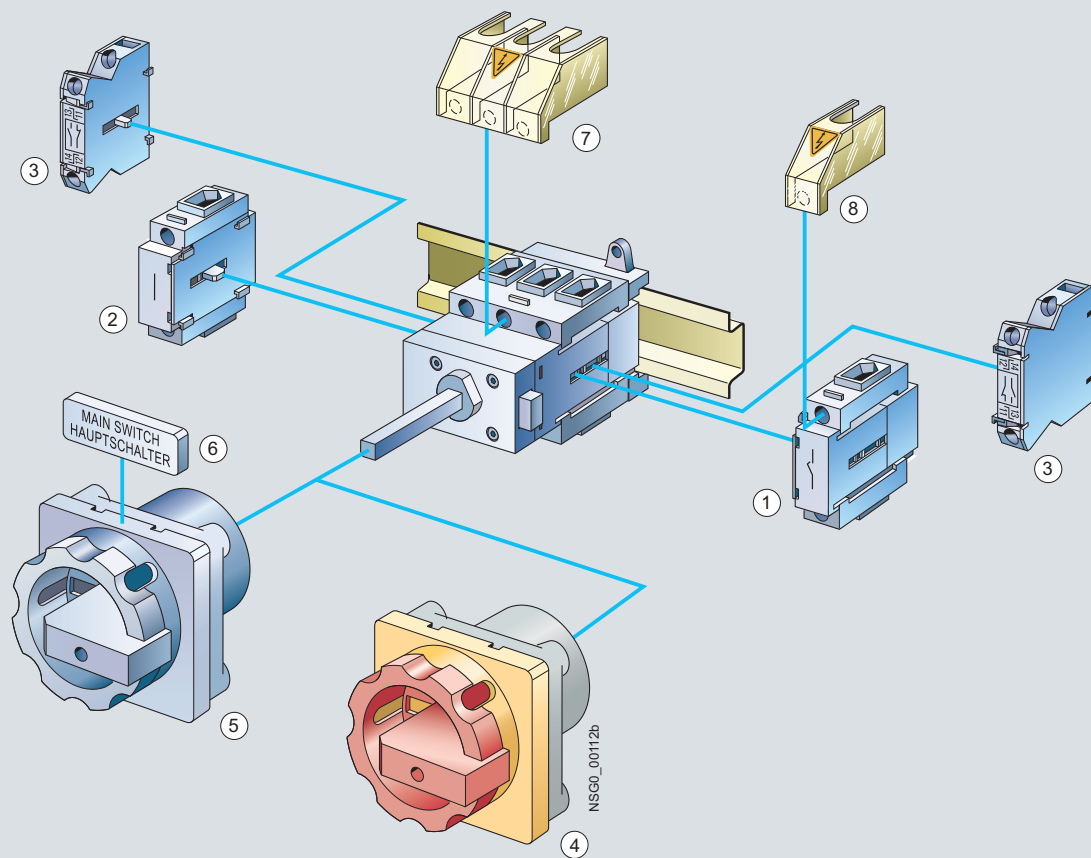
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Switch Disconnectors

Introduction

Overview

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Switch disconnectors			
 3LD	Main control and EMERGENCY-STOP switches from 16 to 250 A • Devices for front mounting, floor mounting with door-coupling rotary operating mechanism, distribution board mounting or in molded-plastic enclosures • Front mounting with four-hole and center hole arrangement • 3, 4 and 6-pole versions • 3 and 4-pole load transfer switches • Solar plant isolators 800 V DC	3LD	7/3
	Switch disconnectors from 100 to 200 A • For floor and distribution board mounting • 2, 3 and 4-pole versions	5TE1	7/27
	Switch disconnectors from 63 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	7/32
	Switch disconnectors from 160 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	7/44
Switch disconnectors with fuses			
 3KL	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 NH and BS 88 fuse systems	3KL, 3KM	7/68
	In-line switch disconnectors with fuses, plug-in type, up to 630 A • 2, 3 and 4-pole versions • Suitable for NH and BS 88 fuse systems • Manually operated or with motorized operating mechanism • Optionally with integrated current transformers, auxiliary switches and electronic fuse monitoring	3NJ62	7/90
Fuse switch disconnectors			
 3NP1	Fuse switch disconnectors 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 variants for floor mounting and 40/60 mm busbar system	3NP1 / 3NP5	7/115
	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	7/148
 3NJ4/3NJ5			

Overview

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

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

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

The 3LD switches for 16 to 250 A are approved according to UL 508 and can be used as "manual motor controllers" and "motor disconnects". In addition, the 3LD switch disconnectors have CCC certification.

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

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

Application

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

They can be used as:

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

Switch Disconnectors

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

Introduction

Design

Design of the contacts

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

Design of rotary operating mechanisms

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

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

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



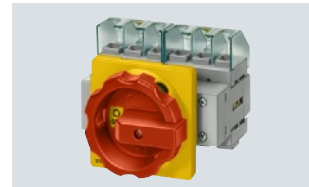
3LD2 704-0TK53 switch for front mounting with rotary operating mechanism



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



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



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



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



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



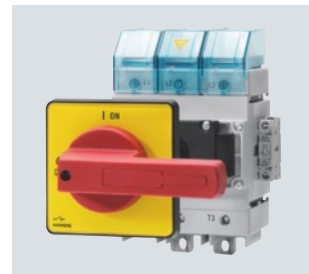
3LD2 264-0TB5 switch in molded-plastic enclosure



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



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



3LD2 418-0TK13 switch for floor mounting, 250 A, with rotary operating mechanism and door coupling

Technical specifications

Standards			DIN VDE 0660, IEC 60947									
Switches			Type	3LD2 0	3LD2 1	3LD2 2	3LD2 5	3LD2 7	3LD2 8	3LD2 3	3LD2 4	
Rated insulation voltage U_i			V	690								
Rated operational voltage U_e			V AC	690								
Rated frequency			Hz	50 ... 60								
Rated impulse withstand voltage U_{imp}			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 ² s	50	50	50	50	50	20	50	50	
Maximum permissible let-through I^2t value			kA ² s	2.5	4	9	21	64	104	185	557	
Permissible let-through current of the fuse			kA	3	3.5	4.5	6	10	10	15	15	
Rated uninterrupted current I_u			A	16	25	32	63	100	125	160	250	
AC-21A load-break switch	Rated operational current I_e	A	16	25	32	63	100	125	160	250		
AC-3 motor load switches	Rating											
In-service switching	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	Rating											
Repair switch	At 220 ... 240 V	kW	4.0	5.0	6.0	11.0	18.5	22.0	45.0	75.0		
frequent, but not in-service switching	At 380 ... 440 V	kW	7.5	9.5	11.5	22.0	37.0	45.0	75.0	132.0		
	At 660/690 V	kW	7.5	9.5	11.5	18.5	30.0	37.0	45.0	55.0		
Power loss per conducting path at I_e			W	0.5	1.1	1.8	4.5	7.5	12.0	36.0	36.0	
Endurance mechanical	Operating cycles		100 000									
Switching frequency			1/h	50								
Permissible ambient temperature			°C	-25 ... +55								
Isolating features			Up to max.	V	690							
Conductor cross-sections for main conductors ¹⁾												
Solid or stranded		mm ²	1 ... 6	1.5 ... 16	1.5 ... 16	2.5 ... 35	4 ... 50	4 ... 50	16 ... 185	16 ... 185		
Finely stranded with end sleeve (max.)		mm ²	4	10	10	16	35	35	150	150		
Conductor cross-sections	Copper cable	AWG	18 ... 10	14 ... 8	14 ... 8	14 ... 6	12 ... 1	12 ... 1				
Torque for terminal		Nm	1.5 ... 2	2 ... 2.5	2 ... 2.5	2.5 ... 3	2.5 ... 3	2.5 ... 3	9.5 ... 10	9.5 ... 10		
Touch protection according to EN 50274			Yes									
Auxiliary switches												
Rated insulation voltage U_i			V	500								
Rated operational voltage U_e			V AC	500								
Rated uninterrupted current I_u			A	10								
Rated operational current I_e , AC-15	At 120 V	A	6									
	At 220 ... 240 V	A	3									
	At 380 ... 415 V	A	1.8									
	At 500 V	A	1.4									
Short-circuit protection, auxiliary switch, max. back-up fuse (gL/gG) A			A	10								
Conductor cross-sections for auxiliary conductors												
Connection type			Terminals									
Solid or stranded		mm ²	2 × (0.75 ... 2.5), 1 × 4									
Finely stranded with end sleeve		mm ²	2 × (0.75 ... 1.5) 1 × 2.5									
Torque for terminal		Nm	0.8									

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

Standards		UL/CSA									
Switches		Type	3LD2 0	3LD2 1	3LD2 2	3LD2 5	3LD2 7	3LD2 8	3LD2 3	3LD2 4	
Rated operational voltage U_o		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 Pilot duty		A 600	--	A 600	A 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)		HP	1	3	3	5	10	15	--	--	
Alternating current motors 40 ... 60 Hz		HP	3	7.5	10 (7.5) ⁽²⁾	15	30	40	40	50	
	240 V	HP	7.5	10	20 (15) ⁽²⁾	40	60	75	75	100	
	480 V	HP	10	15	30 (20) ⁽²⁾	50	75	100	75	75	
	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		AWG	18 ... 10	14 ... 8	14 ... 8	14 ... 6	12 ... 1	12 ... 1	1 ... MCM	400	
Torque		Nm	1.5 ... 2	2 ... 2.5	2 ... 2.5	2.5 ... 3	2.5 ... 3	2.5 ... 3	10	10	

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

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

Switch Disconnectors

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

Front mounting

Selection and ordering data

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

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

- Lockable in 0 position with up to 3 padlocks
- Degree of protection at front side IP65
- All versions with rotary operating mechanism
Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Including terminal cover for the infeed side
- Front plate:
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm × 67 mm
 - 3LD2 5 to 3LD2 8: 90 mm × 90 mm
 - 3LD2 3 to 3LD2 4: 96 mm × 96 mm

Four-hole mounting

 3LD2 203-0TK51	3	--	5.5	7.5	16	▶	3LD2 003-0TK5□	1	1 unit	103	0.204
			7.5	9.5	25	▶	3LD2 103-0TK5□	1	1 unit	103	0.203
			9.5	11.5	32	▶	3LD2 203-0TK5□	1	1 unit	103	0.203
			18.5	22.0	63	▶	3LD2 504-0TK5□	1	1 unit	103	0.423
			30	37.0	100	▶	3LD2 704-0TK5□	1	1 unit	103	0.493
			37	45.0	125		3LD2 804-0TK5□	1	1 unit	103	0.490
			50	75.0	160		3LD2 305-0TK1□	1	1 unit	103	2.085
			110	132.0	250		3LD2 405-0TK1□	1	1 unit	103	2.090
	3 + N	--	5.5	7.5	16	▶	3LD2 003-1TL5□	1	1 unit	103	0.213
			7.5	9.5	25		3LD2 103-1TL5□	1	1 unit	103	0.243
 3LD2 704-0TK53			9.5	11.5	32		3LD2 203-1TL5□	1	1 unit	103	0.239
			18.5	22.0	63		3LD2 504-1TL5□	1	1 unit	103	0.424
			30.0	37.0	100	▶	3LD2 704-0TK5□ +1)	1	1 unit	103	0.493
						▶	3LD9 280-0B	1	1 unit	103	0.099
			37.0	45.0	125		3LD2 804-0TK5□ +1)	1	1 unit	103	0.490
						▶	3LD9 280-0B	1	1 unit	103	0.099
			50	75.0	160		3LD2 305-1TL1□	1	1 unit	103	2.580
			110	132.0	250		3LD2 405-1TL1□	1	1 unit	103	2.592
	3	1 NO + 1 NC	5.5	7.5	16		3LD2 003-1TP5□	1	1 unit	103	0.224
			7.5	9.5	25		3LD2 103-1TP5□	1	1 unit	103	0.221
			9.5	11.5	32		3LD2 203-1TP5□	1	1 unit	103	0.223
			18.5	22.0	63		3LD2 504-1TP5□	1	1 unit	103	0.424
			30.0	37.0	100		3LD2 704-1TP5□	1	1 unit	103	0.513
			37	45.0	125		3LD2 804-1TP5□	1	1 unit	103	0.513
			50.0	75.0	160		3LD2 305-0TK1□ +2)	1	1 unit	103	2.085
						▶	3LD9 200-5B	1	1 unit	103	0.024
			110.0	132.0	250		3LD2 405-0TK1□ +2)	1	1 unit	103	2.090
						▶	3LD9 200-5B	1	1 unit	103	0.024
	3 + N	1 NO + 1 NC	5.5	7.5	16		3LD2 003-2EP5□	1	1 unit	103	0.234
			7.5	9.5	25		3LD2 103-2EP5□	1	1 unit	103	0.255
			9.5	11.5	32		3LD2 203-1TL5□ +2)	1	1 unit	103	0.239
						▶	3LD9 200-5B	1	1 unit	103	0.024
			18.5	22.0	63		3LD2 504-1TP5□ +1)	1	1 unit	103	0.424
						▶	3LD9 250-0BA	1	1 unit	103	0.077
			30.0	37.0	100	▶	3LD2 704-0TK5□ +1)	1	1 unit	103	0.493
						▶	3LD9 280-0B +2)	1	1 unit	103	0.099
						▶	3LD9 200-5B	1	1 unit	103	0.024
			37.0	45.0	125		3LD2 804-0TK5□ +1)	1	1 unit	103	0.490
						▶	3LD9 280-0B +2)	1	1 unit	103	0.099
						▶	3LD9 200-5B	1	1 unit	103	0.024
			50.0	75.0	160		3LD2 305-1TL1□ +2)	1	1 unit	103	2.580
						▶	3LD9 200-5B	1	1 unit	103	0.024
			110.0	132.0	250		3LD2 405-1TL1□ +2)	1	1 unit	103	2.592
						▶	3LD9 200-5B	1	1 unit	103	0.024

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

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

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

Switch Disconnectors

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

Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _{th} / AC-21A							kg
		kW	kW	A							
Main and EMERGENCY-STOP switches with rotary operating mechanism/knob-operated mechanism • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • All versions with rotary operating mechanism Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism • Including terminal cover for the infeed side • Front plate - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm × 67 mm - 3LD2 5 to 3LD2 8: 90 mm × 90 mm - 3LD2 3 to 3LD2 4: 96 mm × 96 mm											
Center-hole mounting Ø 22.5 mm											
	3	--	5.5	7.5	16	3LD2 054-0TK5□		1	1 unit	103	0.207
			7.5	9.5	25	3LD2 154-0TK5□		1	1 unit	103	0.205
			9.5	11.5	32	3LD2 254-0TK5□		1	1 unit	103	0.206
			18.5	22	63	3LD2 555-0TK5□		1	1 unit	103	0.423
	3 + N	--	5.5	7.5	16	3LD2 054-1TL5□		1	1 unit	103	0.216
			7.5	9.5	25	3LD2 154-1TL5□		1	1 unit	103	0.245
			9.5	11.5	32	3LD2 254-1TL5□		1	1 unit	103	0.242
			18.5	22	63	3LD2 555-0TK5□ + ¹⁾		1	1 unit	103	0.423
						3LD9 250-0BA		1	1 unit	103	0.077
	3	1 NO + 1 NC	5.5	7.5	16	3LD2 054-1TP5□		1	1 unit	103	0.225
			7.5	9.5	25	3LD2 154-1TP5□		1	1 unit	103	0.232
			9.5	11.5	32	3LD2 254-0TK5□ + ²⁾		1	1 unit	103	0.206
						3LD9 200-5B		1	1 unit	103	0.024
			18.5	22	63	3LD2 555-0TK5□ + ²⁾		1	1 unit	103	0.423
	3 + N	1 NO + 1 NC	5.5	7.5	16	3LD2 054-2EP5□		1	1 unit	103	0.232
			7.5	9.5	25	3LD2 154-2EP5□		1	1 unit	103	0.290
			9.5	11.5	32	3LD2 254-1TL5□ + ²⁾		1	1 unit	103	0.242
						3LD9 200-5B		1	1 unit	103	0.024
			18.5	22	63	3LD2 555-0TK5□ + ¹⁾		1	1 unit	103	0.423
						3LD9 250-0BA + ²⁾		1	1 unit	103	0.077
						3LD9 200-5B		1	1 unit	103	0.024

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Front mounting

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

Main and EMERGENCY-STOP switches with knob-operated mechanism

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

Four-hole mounting



3LD2 222-0TK11

3	--	7.5	16	3LD2 022-0TK1□	1	1 unit	103	0.181
		9.5	25	3LD2 122-0TK1□	1	1 unit	103	0.181
		11.5	32	3LD2 222-0TK1□	1	1 unit	103	0.180
3 + N	--	7.5	16	3LD2 022-1TL1□	1	1 unit	103	0.191
		9.5	25	3LD2 122-1TL1□	1	1 unit	103	0.213
		11.5	32	3LD2 222-0TK1□ + ¹⁾	1	1 unit	103	0.180
3	1 NO + 1 NC	7.5	16	3LD9 220-0B	1	1 unit	103	0.037
				3LD2 022-0TK1□ + ²⁾	1	1 unit	103	0.181
				3LD9 200-5B	1	1 unit	103	0.024
		9.5	25	3LD2 122-0TK1□ + ²⁾	1	1 unit	103	0.181
				3LD9 200-5B	1	1 unit	103	0.024
		11.5	32	3LD2 222-0TK1□ + ²⁾	1	1 unit	103	0.180
				3LD9 200-5B	1	1 unit	103	0.024
3 + N	1 NO + 1 NC	7.5	16	3LD2 022-1TL1□ + ²⁾	1	1 unit	103	0.191
				3LD9 200-5B	1	1 unit	103	0.024
		9.5	25	3LD2 122-1TL1□ + ²⁾	1	1 unit	103	0.213
				3LD9 200-5B	1	1 unit	103	0.024
		11.5	32	3LD2 222-0TK1□ + ¹⁾	1	1 unit	103	0.180
				3LD9 220-0B	1	1 unit	103	0.037
				3LD9 200-5B	1	1 unit	103	0.024

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

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

Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
		kW	A							kg
Main and EMERGENCY-STOP switches with knob-operated mechanism • Lockable in 0 position (can be modified to I position) with max. 2 padlocks • Degree of protection at front side IP65 • Including terminal cover for the infeed side • Front plate: 48 mm × 48 mm										
Center-hole mounting Ø 22.5 mm										
 3LD2 150-0TK13	3	--	7.5	16	3LD2 050-0TK1□		1	1 unit	103	0.187
			9.5	25	3LD2 150-0TK1□		1	1 unit	103	0.185
			11.5	32	3LD2 250-0TK1□		1	1 unit	103	0.186
	3 + N	--	7.5	16	3LD2 050-1TL1□		1	1 unit	103	0.196
			9.5	25	3LD2 150-0TK1□ ⁺²⁾		1	1 unit	103	0.185
					▶ 3LD9 200-5B		1	1 unit	103	0.024
			11.5	32	3LD2 250-0TK1□ ⁺²⁾		1	1 unit	103	0.186
					▶ 3LD9 200-5B		1	1 unit	103	0.024
	3	1 NO + 1 NC	7.5	16	3LD2 050-0TK1□ ⁺²⁾		1	1 unit	103	0.187
					▶ 3LD9 200-5B		1	1 unit	103	0.024
			9.5	25	3LD2 150-0TK1□ ⁺²⁾		1	1 unit	103	0.185
					▶ 3LD9 200-5B		1	1 unit	103	0.024
			11.5	32	3LD2 250-0TK1□ ⁺²⁾		1	1 unit	103	0.186
					▶ 3LD9 200-5B		1	1 unit	103	0.024
	3 + N	1 NO + 1 NC	7.5	16	3LD2 050-1TL1□ ⁺²⁾		1	1 unit	103	0.196
					▶ 3LD9 200-5B		1	1 unit	103	0.024
			9.5	25	3LD2 150-0TK1□ ⁺¹⁾		1	1 unit	103	0.185
					▶ 3LD9 220-0B ⁺²⁾		1	1 unit	103	0.037
					▶ 3LD9 200-5B		1	1 unit	103	0.024
			11.5	32	3LD2 250-0TK1□ ⁺¹⁾		1	1 unit	103	0.186
					▶ 3LD9 220-0B ⁺²⁾		1	1 unit	103	0.037
					▶ 3LD9 200-5B		1	1 unit	103	0.024

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Front mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _u							kg
		kW	kW	A							
Main and EMERGENCY-STOP switches with rotary operating mechanism/knob-operated mechanism (6-pole) • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • All versions with rotary operating mechanism Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism • Including terminal cover for the infeed side • Front plate - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm × 67 mm - 3LD2 5: 90 mm × 90 mm - 3LD2 3 to 3LD2 4: 96 mm × 96 mm											
Four-hole mounting											
	6	--	7.5	9.5	25	3LD2 103-3VK5□		1	1 unit	103	0.386
			9.5	11.5	32	3LD2 203-3VK5□		1	1 unit	103	0.381
			18.5	22.0	63	3LD2 504-3VK5□		1	1 unit	103	0.751
			50	75	160	3LD2 305-3VK1□		1	1 unit	103	3.940
			110	132	250	3LD2 405-3VK1□		1	1 unit	103	3.949
	6	1 NO + 1 NC	7.5	9.5	25	3LD2 103-4VP5□		1	1 unit	103	0.408
Actuator color Black Red/yellow (EMERGENCY-STOP)											

1
3

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _u							kg
		kW	kW	A							
Changeover switches with knob-operated mechanism • Black actuator • Knob-operated mechanism on 3LD2 3 and 3LD2 4 is lockable, on all other versions it is non-lockable • Degree of protection at front side IP65											
Four-hole mounting											
	3	--	7.5	9.5	25	3LD2 123-7UK01		1	1 unit	103	0.376
			9.5	11.5	32	3LD2 223-7UK01		1	1 unit	103	0.376
			18.5	22.0	63	3LD2 524-7UK01		1	1 unit	103	0.744
			30.0	37.0	100	3LD2 724-7UK01		1	1 unit	103	0.952
			50	75	160	3LD2 305-7UK01		1	1 unit	103	4.340
			110	132	250	3LD2 405-7UK01		1	1 unit	103	4.401
	3 + N		50	75	160	3LD2 305-7UL01		1	1 unit	103	5.885
			110	132	250	3LD2 405-7UL01		1	1 unit	103	5.745

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

Floor mounting

Selection and ordering data

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

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

- With shaft
- Lockable in 0 position with up to 3 padlocks
- Degree of protection at front side IP65
- Door-coupling rotary operating mechanism with integrated tolerance compensation (16 A to 125 A)
- All versions with rotary operating mechanism
- Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism
- Mounting using screws or snap-on mounting on 35 mm standard mounting rail (16 A to 125 A)
- Including terminal cover for the infeed side
- Front plate
 - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm x 67 mm
 - 3LD2 5 to 3LD2 8: 90 mm x 90 mm
 - 3LD2 3 to 3LD2 4: 96 mm x 96 mm
- Mounting dimensions
 - 3LD2 0, 3LD2 1, 3LD2 2: 380 mm
 - 3LD2 5 to 3LD2 8: 390 mm
 - 3LD2 3 to 3LD2 4: 600 mm

Four-hole mounting

 3LD2 213-0TK53	3	--	7.5	16	▶	3LD2 013-0TK5□	1	1 unit	103	0.400
			9.5	25	▶	3LD2 113-0TK5□	1	1 unit	103	0.411
			11.5	32	▶	3LD2 213-0TK5□	1	1 unit	103	0.410
			22	63	▶	3LD2 514-0TK5□	1	1 unit	103	0.641
			37	100	▶	3LD2 714-0TK5□	1	1 unit	103	0.717
			45	125		3LD2 814-0TK5□	1	1 unit	103	0.720
			75	160		3LD2 318-0TK1□	1	1 unit	103	2.360
			132	250		3LD2 418-0TK1□	1	1 unit	103	2.714
	3 + N	--	7.5	16	▶	3LD2 013-1TL5□	1	1 unit	103	0.411
			9.5	25		3LD2 113-1TL5□	1	1 unit	103	0.431
			11.5	32		3LD2 213-1TL5□	1	1 unit	103	0.442
			22	63		3LD2 514-1TL5□	1	1 unit	103	0.713
			37	100	▶	3LD2 714-0TK5□ +1)	1	1 unit	103	0.717
					▶	3LD9 280-0C	1	1 unit	103	0.099
			45	125		3LD2 814-0TK5□ +1)	1	1 unit	103	0.720
					▶	3LD9 280-0C	1	1 unit	103	0.099
			75	160		3LD2 318-1TL1□	1	1 unit	103	2.895
			132	250		3LD2 418-1TL1□	1	1 unit	103	3.226

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

Switch Disconnectors

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

Floor mounting

	Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
			kW	A							
 3LD2 213-0TK53	3	1 NO + 1 NC	7.5	16	▶	3LD2 013-0TK5□ ⁺²⁾	1	1 unit	103	0.400	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			9.5	25	▶	3LD2 113-0TK5□ ⁺²⁾	1	1 unit	103	0.411	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			11.5	32	▶	3LD2 213-0TK5□ ⁺²⁾	1	1 unit	103	0.410	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			22	63	▶	3LD2 514-0TK5□ ⁺²⁾	1	1 unit	103	0.641	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			37	100	▶	3LD2 714-0TK5□ ⁺²⁾	1	1 unit	103	0.717	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			45	125	▶	3LD2 814-0TK5□ ⁺²⁾	1	1 unit	103	0.720	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			75	160	▶	3LD2 318-0TK1□ ⁺²⁾	1	1 unit	103	2.360	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
			132	250	▶	3LD2 418-0TK1□ ⁺²⁾	1	1 unit	103	2.714	
					▶	3LD9 200-5C	1	1 unit	103	0.024	
3 + N	1 NO + 1 NC	7.5	16	▶	3LD2 013-1TL5□ ⁺²⁾	1	1 unit	103	0.411		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
		9.5	25	▶	3LD2 113-1TL5□ ⁺²⁾	1	1 unit	103	0.431		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
		11.5	32	▶	3LD2 213-1TL5□ ⁺²⁾	1	1 unit	103	0.442		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
		22	63	▶	3LD2 514-1TL5□ ⁺²⁾	1	1 unit	103	0.713		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
		37	100	▶	3LD2 714-0TK5□ ⁺¹⁾	1	1 unit	103	0.717		
				▶	3LD9 280-0C ⁺²⁾	1	1 unit	103	0.099		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
		45	125	▶	3LD2 814-0TK5□ ⁺¹⁾	1	1 unit	103	0.720		
				▶	3LD9 280-0C ⁺²⁾	1	1 unit	103	0.099		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
		75	160	▶	3LD2 318-1TL1□ ⁺²⁾	1	1 unit	103	2.895		
				▶	3LD9 200-5C	1	1 unit	103	0.024		
132	250	▶	3LD2 418-1TL1□ ⁺²⁾	1	1 unit	103	3.226				
		▶	3LD9 200-5C	1	1 unit	103	0.024				

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

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

Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_U							kg
		kW	A							
Main and EMERGENCY-STOP switches with door-coupling rotary operating mechanism • With shaft • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism with integrated tolerance compensation (16 A to 125 A) • All versions with rotary operating mechanism • Exception: 3LD2 3 and 3LD2 4 with knob-operated mechanism • Mounting using screws or snap-on mounting on 35 mm standard mounting rail (16 A to 125 A) • Including terminal cover for the infeed side • Front plate - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm x 67 mm - 3LD2 5 to 3LD2 8: 90 mm x 90 mm - 3LD2 3 to 3LD2 4: 96 mm x 96 mm • Mounting dimensions - 3LD2 0, 3LD2 1, 3LD2 2: 380 mm - 3LD2 5 to 3LD2 8: 390 mm - 3LD2 3 to 3LD2 4: 600 mm										
Center-hole mounting Ø 22.5 mm										
	3	--	7.5	16	3LD2 044-0TK5□		1	1 unit	103	0.435
			9.5	25	3LD2 144-0TK5□		1	1 unit	103	0.434
			11.5	32	3LD2 244-0TK5□		1	1 unit	103	0.432
			22	63	3LD2 545-0TK5□		1	1 unit	103	0.733
	3 + N	--	7.5	16	3LD2 044-1TL5□		1	1 unit	103	0.433
			9.5	25	3LD2 144-1TL5□		1	1 unit	103	0.465
			11.5	32	3LD2 244-1TL5□		1	1 unit	103	0.465
			22	63	3LD2 545-0TK5□ +1)		1	1 unit	103	0.733
3LD2 144-0TK53	3	1 NO + 1 NC	7.5	16	3LD9 250-0CA +2)		1	1 unit	103	0.077
					3LD2 044-0TK5□ +2)		1	1 unit	103	0.435
			9.5	25	3LD9 200-5C +2)		1	1 unit	103	0.024
					3LD2 144-0TK5□ +2)		1	1 unit	103	0.434
					3LD9 200-5C +2)		1	1 unit	103	0.024
			11.5	32	3LD2 244-0TK5□ +2)		1	1 unit	103	0.432
					3LD9 200-5C +2)		1	1 unit	103	0.024
			22	63	3LD2 545-0TK5□ +2)		1	1 unit	103	0.733
					3LD9 200-5C +2)		1	1 unit	103	0.024
			7.5	16	3LD2 044-1TL5□ +2)		1	1 unit	103	0.433
					3LD9 200-5C +2)		1	1 unit	103	0.024
			9.5	25	3LD2 144-1TL5□ +2)		1	1 unit	103	0.465
					3LD9 200-5C +2)		1	1 unit	103	0.024
			11.5	32	3LD2 244-1TL5□ +2)		1	1 unit	103	0.465
					3LD9 200-5C +2)		1	1 unit	103	0.024
			22	63	3LD2 545-0TK5□ +1)		1	1 unit	103	0.733
					3LD9 250-0CA +2)		1	1 unit	103	0.077
					3LD9 200-5C +2)		1	1 unit	103	0.024

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Floor mounting

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _u							kg
		kW	kW	A							
Main and EMERGENCY-STOP switches with door-coupling rotary operating mechanism (6-pole) • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism with integrated tolerance compensation (for 3LD21) • All versions with rotary operating mechanism Exception: 3LD2 3 and 3LD2 4 with door-coupling rotary operating mechanism as selector switch • Mounting using screws or snap-on mounting on 35 mm standard mounting rails • Including terminal cover for the infeed side • Front plate - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm × 67 mm - 3LD2 3, 3LD2 4: 96 mm × 96 mm											

Four-hole mounting



3LD2 113-3VK51

6	--	7.5	9.5	25		3LD2 113-3VK5□		1	1 unit	103	0.597
6	--	50	75	160		3LD2 318-3VK1□		1	1 unit	103	4.450
6	--	110	132	250		3LD2 418-3VK1□		1	1 unit	103	4.530
6	1 NO + 1 NC	9.5	9.5	25		3LD2 113-4VP5□		1	1 unit	103	0.615

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1

3

Number and version of the contacts		Rated data at 50 Hz ... 60 Hz, 380 V ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-3	P/AC-23A	I _u							kg
		kW	kW	A							
Changeover switches with door-coupling rotary operating mechanism • Lockable in 0 position with up to 3 padlocks • Handle and cover black • Door-coupling rotary operating mechanisms as selector switch • Degree of protection at front side IP65											
Four-hole mounting											
3		50	75	160		3LD2 318-7UK01		1	1 unit	103	4.986
3		110	132	250		3LD2 418-7UK01		1	1 unit	103	5.003
3 + N		50	75	160		3LD2 318-7UL01		1	1 unit	103	6.362
3 + N		110	132	250		3LD2 418-7UL01		1	1 unit	103	6.328

Switch Disconnectors

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

Floor mounting

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							kg
		kW	A							
Main and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism The 3LD main and EMERGENCY-STOP switch with defeatable door-coupling rotary operating mechanism enables you to conduct repairs, maintenance work or tests on electrical plants and machines without having to interrupt their operation. With the help of the defeatable door-coupling rotary operating mechanism, an electrician can bypass the interlock in ON position and open the control cabinet door with the plant activated. 3LD main and EMERGENCY-STOP switches with defeatable door-coupling rotary operating mechanism are approved according to UL508. • With 300 mm switch shaft • Lockable in 0 position with up to 3 padlocks • Degree of protection at front side IP65 • Door-coupling rotary operating mechanism with integrated tolerance compensation • Mounting using screws or snap-on mounting on 35 mm standard mounting rails • Including terminal cover for the infeed side • Front plate 65 mm × 65 mm										
Four-hole mounting										
 3LD2 017-0TK..	3	--	7.5	16	3LD2 017-0TK1□		1	1 unit	103	0.426
			11.5	32	3LD2 217-0TK1□		1	1 unit	103	0.420
			22	63	3LD2 517-0TK1□		1	1 unit	103	0.576
	3 + N	--	7.5	16	3LD2 017-1TL1□		1	1 unit	103	0.426
			11.5	32	3LD2 217-1TL1□		1	1 unit	103	0.445
			22	63	3LD2 517-1TL1□		1	1 unit	103	0.397

Actuator color

Black
Red/yellow (EMERGENCY-STOP)

1
3

Switch Disconnectors

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

Floor mounting

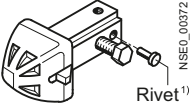
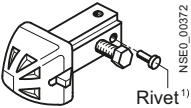
Accessories

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

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

The following components are to be used for this purpose:

- For switch disconnectors with door-coupling rotary operating mechanisms 3LD2 7 and 3LD2 8:
 - 8UC71 10-1BB
 - 8UC71 20-3BB
 - 8UC6 011
- For switch disconnectors with door-coupling rotary operating mechanisms 3LD2 3 and 3LD2 4:
 - 8UC72 10-1BB
 - 8UC72 20-3BB
 - 8UC6 012

	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ²⁾	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms Order No. Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
	Type		mm × mm							kg
Components for 3LD2 7, 3LD2 8										
 8UC71	8UC71	1	6 × 6	Standard	EMERGENCY-STOP	8UC71 10-1BB	1	1 unit	103	0.178
						8UC71 20-3BB	1	1 unit	103	0.204
 8UC60 11	8UC71	1	6 × 6	--		8UC60 11	1	1 unit	103	0.081
Components for 3LD2 3, 3LD2 4										
 8UC72	8UC72	2	8 × 8	Standard	EMERGENCY-STOP	8UC72 10-1BB	1	1 unit	103	0.190
						8UC72 20-3BB	1	1 unit	103	0.186
 8UC60 12	8UC72	2	8 × 8	--		8UC60 12	1	1 unit	103	0.073

¹⁾ Non-interchangeability features.

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

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

Distribution board mounting

Selection and ordering data

Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements	P/AC-23A	I _u							
		kW	A							kg
ON/OFF and EMERGENCY-STOP switches with masking plate and 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 (160 A and 250 A: max. 3) padlocks • Degree of protection at front side IP44 • Including terminal cover for the infeed and outgoing terminal (160 A and 250 A)										
 3LD2 530-0TK13	3	--	7.5	16	3LD2 030-0TK1□		1	1 unit	103	0.169
			9.5	25	3LD2 130-0TK1□		1	1 unit	103	0.165
			11.5	32	3LD2 230-0TK1□		1	1 unit	103	0.166
			22	63	3LD2 530-0TK1□		1	1 unit	103	0.309
			37	100	3LD2 730-0TK1□		1	1 unit	103	0.371
			45	125	3LD2 830-0TK1□		1	1 unit	103	0.370
			75	160	3LD2 330-0TK1□		1	1 unit	103	2.030
 3LD2 330-0TK11	3 + N	--	7.5	16	3LD2 030-1TL1□		1	1 unit	103	0.179
			9.5	25	3LD2 130-0TK1□ + ¹⁾		1	1 unit	103	0.165
					▶ 3LD9 220-0C		1	1 unit	103	0.037
			11.5	32	3LD2 230-0TK1□ + ¹⁾		1	1 unit	103	0.166
					▶ 3LD9 220-0C		1	1 unit	103	0.037
			22	63	3LD2 530-0TK1□ + ¹⁾		1	1 unit	103	0.309
					▶ 3LD9 250-0CA		1	1 unit	103	0.077
			37	100	3LD2 730-0TK1□ + ¹⁾		1	1 unit	103	0.371
					▶ 3LD9 280-0C		1	1 unit	103	0.099
			45	125	3LD2 830-0TK1□ + ¹⁾		1	1 unit	103	0.370
					▶ 3LD9 280-0C		1	1 unit	103	0.099
			75	160	3LD2 330-0TK1□ + ¹⁾		1	1 unit	103	2.030
					▶ 3LD9 240-0C		1	1 unit	103	0.516
			132	250	3LD2 430-0TK1□ + ¹⁾		1	1 unit	103	2.030
					▶ 3LD9 240-0C		1	1 unit	103	0.516

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

Switch Disconnectors

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

Distribution board mounting

	Number and version of the contacts		Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Main contact elements	Auxiliary contact elements	P/AC-23A	I_u							
			kW	A							
 3LD2 530-0TK11	3	1 NO + 1 NC	7.5	16		3LD2 030-0TK1□ +2)		1	1 unit	103	0.169
					▶	3LD9 200-5C		1	1 unit	103	0.024
			9.5	25		3LD2 130-0TK1□ +2)		1	1 unit	103	0.165
					▶	3LD9 200-5C		1	1 unit	103	0.024
			11.5	32		3LD2 230-0TK1□ +2)		1	1 unit	103	0.166
					▶	3LD9 200-5C		1	1 unit	103	0.024
			22	63		3LD2 530-0TK1□ +2)		1	1 unit	103	0.309
					▶	3LD9 200-5C		1	1 unit	103	0.024
			37	100		3LD2 730-0TK1□ +2)		1	1 unit	103	0.371
					▶	3LD9 200-5C		1	1 unit	103	0.024
			45	125		3LD2 830-0TK1□ +2)		1	1 unit	103	0.370
					▶	3LD9 200-5C		1	1 unit	103	0.024
			75	160		3LD2 330-0TK1□ +2)		1	1 unit	103	2.030
					▶	3LD9 200-5C		1	1 unit	103	0.024
			132	250		3LD2 430-0TK1□ +2)		1	1 unit	103	2.030
					▶	3LD9 200-5C		1	1 unit	103	0.024
	3 + N	1 NO + 1 NC	7.5	16		3LD2 030-1TL1□ +2)		1	1 unit	103	0.179
					▶	3LD9 200-5C		1	1 unit	103	0.024
			9.5	25		3LD2 130-0TK1□ +2)		1	1 unit	103	0.165
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 220-0C		1	1 unit	103	0.037
			11.5	32		3LD2 230-0TK1□ +2)		1	1 unit	103	0.166
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 220-0C		1	1 unit	103	0.037
			22	63		3LD2 530-0TK1□ +2)		1	1 unit	103	0.309
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 250-0CA		1	1 unit	103	0.077
			37	100		3LD2 730-0TK1□ +2)		1	1 unit	103	0.371
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 280-0C		1	1 unit	103	0.099
			45	125		3LD2 830-0TK1□ +2)		1	1 unit	103	0.370
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 280-0C		1	1 unit	103	0.099
			75	160		3LD2 330-0TK1□ +2)		1	1 unit	103	2.030
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 240-0C		1	1 unit	103	0.516
			132	250		3LD2 430-0TK1□ +2)		1	1 unit	103	2.030
					▶	3LD9 200-5C +1)		1	1 unit	103	0.024
					▶	3LD9 240-0C		1	1 unit	103	0.516

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

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

Molded-plastic enclosures

Selection and ordering data

Number and version of the contacts		Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Main contact elements	Auxiliary contact elements		P/AC-23A	I_u							
			kW	A							
Main and EMERGENCY-STOP switches											
• With N- and/or PE-/ground base terminals • Lockable in 0 position with up to 3 padlocks • Degree of protection IP65 • Rotary operating mechanisms with center-hole mounting • For floor-mounted auxiliary switches • Metric screw connection											
3	--	PE + N	7.5	16		3LD2 064-0TB5□		1	1 unit	103	0.458
		PE + N	9.5	25		3LD2 164-0TB5□		1	1 unit	103	0.455
		PE + N	11.5	32		3LD2 264-0TB5□		1	1 unit	103	0.458
		PE + N	22	63		3LD2 565-0TB5□		1	1 unit	103	0.933
		PE + N	37	100		3LD2 766-0TB5□		1	1 unit	103	1.930
		PE + N	45	125		3LD2 866-0TB5□		1	1 unit	103	1.974
3 + N	--	PE	7.5	16		3LD2 064-1TC5□		1	1 unit	103	0.463
		PE	9.5	25		3LD2 164-1TC5□		1	1 unit	103	0.478
		PE	11.5	32		3LD2 264-1TC5□		1	1 unit	103	0.489
		PE	22	63		3LD2 565-1TC5□		1	1 unit	103	0.947
		PE + N	37	100		3LD2 766-0TB5□ +1)		1	1 unit	103	1.930
					▶	3LD9 280-0C		1	1 unit	103	0.099
		PE + N	45	125		3LD2 866-0TB5□ +1)		1	1 unit	103	1.974
					▶	3LD9 280-0C		1	1 unit	103	0.099
3	1 NO + 1 NC	N	7.5	16		3LD2 064-1GP5□		1	1 unit	103	0.472
		N	9.5	25		3LD2 164-1GP5□		1	1 unit	103	0.468
		N	11.5	32		3LD2 264-1GP5□		1	1 unit	103	0.473
		N	22	63		3LD2 565-1GP5□		1	1 unit	103	0.890
		N	37	100		3LD2 766-1GP5□		1	1 unit	103	1.904
		N	45	125		3LD2 866-1GP5□		1	1 unit	103	1.901
3 + N	1 NO + 1 NC	PE	7.5	16		3LD2 064-1TC5□ +2)		1	1 unit	103	0.463
					▶	3LD9 200-5C		1	1 unit	103	0.024
		PE	9.5	25		3LD2 164-1TC5□ +2)		1	1 unit	103	0.478
					▶	3LD9 200-5C		1	1 unit	103	0.024
		PE	11.5	32		3LD2 264-1TC5□ +2)		1	1 unit	103	0.489
					▶	3LD9 200-5C		1	1 unit	103	0.024
		PE	22	63		3LD2 565-1TC5□ +2)		1	1 unit	103	0.947
					▶	3LD9 200-5C		1	1 unit	103	0.024
		N	37	100		3LD2 766-1GP5□ +1)		1	1 unit	103	1.904
					▶	3LD9 280-0C		1	1 unit	103	0.099
		N	45	125		3LD2 866-1GP5□ +1)		1	1 unit	103	1.901
					▶	3LD9 280-0C		1	1 unit	103	0.099

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

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

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

Switch Disconnectors

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

Molded-plastic enclosures

Number and version of the contacts		Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements		P/AC-3 kW	P/AC-23A kW	I_U A							kg
Main 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	3LD2 165-3VB5□		1	1 unit	103	0.904
			PE + N	9.5	11.5	32	3LD2 265-3VB5□		1	1 unit	103	0.892
			PE + N	18.5	22.0	63	3LD2 566-3VB5□		1	1 unit	103	2.228
	6	1 NO + 1 NC	N	7.5	9.5	25	3LD2 165-4VD5□		1	1 unit	103	0.873
			N	9.5	11.5	32	3LD2 265-4VD5□		1	1 unit	103	0.881
			PE + N	18.5	22.0	63	3LD2 566-4VD5□		1	1 unit	103	2.220

3LD2 165-3VB53

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

Number and version of the contacts		Base terminal	Rated data at 50 ... 60 Hz, 380 ... 440 V			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Main contact elements	Auxiliary contact elements		P/AC-3 kW	P/AC-23A kW	I_U A							kg
Changeover switches with knob-operated mechanism • With N- and/or PE-/ground base terminals • Black actuator • Lockable in 0 position with up to 3 padlocks (25 A and 32 A) • Metric screw connection • Degree of protection IP65												
	3	--	PE + N	7.5	9.5	25	3LD2 165-7UB01		1	1 unit	103	0.883
			PE + N	9.5	11.5	32	3LD2 265-7UB01		1	1 unit	103	0.890
			PE + N	18.5	22.0	63	3LD2 566-7UB01		1	1 unit	103	2.211
			PE + N	30.0	37.0	100	3LD2 766-7UB01		1	1 unit	103	2.330

3LD2 165-7UB01

Selection and ordering data

Mains voltage	Rated current I_e at 800 V DC		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Max. V DC	DC-21A A	DC-22A A							kg
Solar plant isolators in molded-plastic enclosure - Molded-plastic enclosure IP65 - Metric screw connection (W x H x D) 146 mm x 199 mm x 136 mm - Conductor cross-sections: - Solid and stranded 1.5 ... 16 mm² - Finely stranded with end sleeve max. 10 mm² - Lockable									
800	32	16		3LD2 265-8VQ5-0AF6		1	1 unit	103	0.942



3LD2 265-8VQ5-0AF6

Actuator color

Black

Red/yellow (EMERGENCY-STOP)

1
3

Mains voltage	Rated current I_e at 800 V DC		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Max. V DC	DC-21A A	DC-22A A							kg
Solar plant isolators for distribution board mounting - Conductor cross-sections: - Solid and stranded 1.5 ... 16 mm² - Finely stranded with end sleeve max. 10 mm² - Actuator color: Black									
800	32	16		3LD2 230-8VQ11-0AF6		1	1 unit	103	0.413



3LD2 230-8VQ11-0AF6

Switch Disconnectors

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

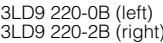
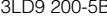
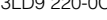
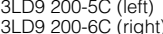
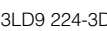
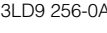
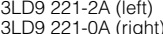
Accessories

Selection and ordering data

Version		DT	3LD2 0		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Order No.	Price per PU		kg			
For front mounting								
	N or PE terminals Through-type	▶	3LD9 200-2B		1	1 unit	103	0.030
Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC		▶	3LD9 200-5B		1	1 unit	103	0.024
	For mounting on the left and/or right, lagging switch-on, with gold-plate contacts for SIMATIC request, leading switch-off • 1 NO + 1 NC		3LD9 200-5BF		1	1 unit	103	0.024
For floor mounting, distribution board mounting or molded-plastic enclosures								
	N or PE terminals Through-type	▶	3LD9 200-2C		1	1 unit	103	0.030
Auxiliary switches For mounting on the left and/or right, lagging switch-on, leading switch-off • 1 NO + 1 NC		▶	3LD9 200-5C		1	1 unit	103	0.024
	• 2 NO	▶	3LD9 200-6C		1	1 unit	103	0.025
	For mounting on the left and/or right, lagging switch-on, with gold-plate contacts for SIMATIC request, leading switch-off • 1 NO + 1 NC		3LD9 200-5CF		1	1 unit	103	0.024
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			3LD9 224-1B 3LD9 224-3B		1 1	1 unit 1 unit	103 103	0.075 0.075
	• For center-hole mounting, including seal and nut - Black - Red/Yellow		3LD9 224-1D 3LD9 224-3D		1 1	1 unit 1 unit	103 103	0.076 0.078
								
	Mounting tools For center-hole mounting with nut		3LD9 256-0A		1	5 units	103	0.020
Switching shafts 6 x 6 mm Length 300 mm Length 600 mm			3LD9 205-0C 3LD9 205-2C		1 1	5 units 5 units	103 103	0.096 0.169
Inscription labels With English/German inscription (MAIN SWITCH/HAUPTSCHALTER) Without inscription			3LD9 286-1A 3LD9 286-4A		1 1	10 units 10 units	103 103	0.005 0.005
	Terminal covers as additional touch protection (also for distribution board mounting) Can be snapped on at top and bottom • 1-pole • 3-/4-pole		3LD9 201-2A 3LD9 201-1A		100 1	4 units 4 units	103 103	0.300 0.007
								

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

Accessories

Version		DT	3LD2 1 and 3LD2 2		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			Order No.	Price per PU	kg			
For front mounting								
	4th contact (N conductor)	▶	3LD9 220-0B	1	1 unit	103	0.037	
	Leading switch-on, lagging switch-off							
	N or PE terminals	▶	3LD9 220-2B	1	1 unit	103	0.034	
	Through-type							
	Auxiliary switches							
	For mounting on the left and/or right, lagging switch-on, leading switch-off	▶	3LD9 200-5B	1	1 unit	103	0.024	
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request		3LD9 200-5BF	1	1 unit	103	0.024	
	• 1 NO + 1 NC							
For floor mounting, distribution board mounting or molded-plastic enclosures								
	4th contact (N conductor)	▶	3LD9 220-0C	1	1 unit	103	0.037	
	Leading switch-on, lagging switch-off							
	N or PE terminals	▶	3LD9 220-2C	1	1 unit	103	0.034	
	Through-type							
	Auxiliary switches							
	For mounting on the left and/or right, lagging switch-on, leading switch-off	▶	3LD9 200-5C	1	1 unit	103	0.024	
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request	▶	3LD9 200-6C	1	1 unit	103	0.025	
	• 1 NO + 1 NC		3LD9 200-5CF	1	1 unit	103	0.024	
For front and floor mounting								
	Rotary operating mechanisms							
	Lockable in 0 position with up to 3 padlocks							
	• For four-hole mounting		3LD9 224-1B	1	1 unit	103	0.075	
	- Black		3LD9 224-3B	1	1 unit	103	0.075	
	- Red/Yellow							
	• For center-hole mounting, including seal and nut		3LD9 224-1D	1	1 unit	103	0.076	
	- Black		3LD9 224-3D	1	1 unit	103	0.078	
	- Red/Yellow							
	Mounting tools							
	For center-hole mounting with nut		3LD9 256-0A	1	5 units	103	0.020	
	Switching shafts 6 x 6 mm							
	Length 300 mm		3LD9 205-0C	1	5 units	103	0.096	
	Length 600 mm		3LD9 205-2C	1	5 units	103	0.169	
	Inscription labels							
	With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)		3LD9 286-1A	1	10 units	103	0.005	
	Without inscription		3LD9 286-4A	1	10 units	103	0.005	
	Terminal covers as additional touch protection (also for distribution board mounting)							
	Can be snapped on at top and bottom		3LD9 221-2A	100	4 units	103	0.400	
	• 1-pole		3LD9 221-0A	1	4 units	103	0.009	
	• 3-pole							

Switch Disconnectors

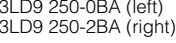
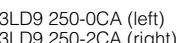
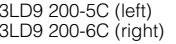
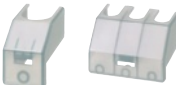
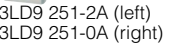
3LD Main Control and EMERGENCY-STOP Switches up to 250 A

Accessories

Version		DT	3LD2 3 and 3LD2 4		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			Order No.	Price per PU	kg			
For front mounting								
	4th contact (N conductor)	▶	3LD9 240-0B	1	1 unit	103	0.525	
	Leading switch-on, lagging switch-off							
	N or PE terminals	▶	3LD9 240-2B	1	1 unit	103	0.490	
	Through-type							
Auxiliary switches								
For mounting on the left and/or right, lagging switch-on, leading switch-off								
	• 1 NO + 1 NC	▶	3LD9 200-5B	1	1 unit	103	0.024	
	• For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request							
	• 1 NO + 1 NC		3LD9 200-5BF	1	1 unit	103	0.024	
For floor and distribution board mounting								
	Coupling piece 		3LD9 242-4F	1	5 units	103	0.040	
no ON-lock								
	4th contact (N conductor)	▶	3LD9 240-0C	1	1 unit	103	0.516	
	Leading switch-on, lagging switch-off							
	N or PE terminals	▶	3LD9 240-2C	1	1 unit	103	0.464	
	Through-type							
Auxiliary switches								
For mounting on the left and/or right, lagging switch-on, leading switch-off								
	• 1 NO + 1 NC	▶	3LD9 200-5C	1	1 unit	103	0.024	
	• 2 NO	▶	3LD9 200-6C	1	1 unit	103	0.025	
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request							
	• 1 NO + 1 NC		3LD9 200-5CF	1	1 unit	103	0.024	
For front and floor mounting								
Knob-operated mechanism								
Lockable in 0 position with up to 3 padlocks								
	• For four-hole mounting, including seal							
	- Black		3LD9 243-1B	1	1 unit	103	0.216	
	- Red/Yellow		3LD9 243-3B	1	1 unit	103	0.220	
Switching shafts 8 x 8 mm								
Length 300 mm			3LD9 245-0C	1	5 units	103	0.160	
Length 600 mm			3LD9 245-2C	1	5 units	103	0.300	
Inscription labels								
With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)			3LD9 286-1A	1	10 units	103	0.005	
Without inscription			3LD9 286-4A	1	10 units	103	0.005	
Terminal covers as additional touch protection (also for distribution board mounting)								
Can be snapped on at top and bottom								
	• 1-pole		3LD9 241-2A	1	4 units	103	0.017	

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

Accessories

Version	DT	3LD2 5	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Order No.	Price per PU			kg
For front mounting						
	4th contact (N conductor)	▶ 3LD9 250-0BA	1	1 unit	103	0.077
	Leading switch-on, lagging switch-off					
	N or PE terminals	▶ 3LD9 250-2BA	1	1 unit	103	0.069
	Through-type					
Auxiliary switches						
	For mounting on the left and/or right, lagging switch-on, leading switch-off	▶ 3LD9 200-5B	1	1 unit	103	0.024
	• 1 NO + 1 NC					
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request	▶ 3LD9 200-5BF	1	1 unit	103	0.024
	• 1 NO + 1 NC					
For floor mounting, distribution board mounting or molded-plastic enclosures						
	4th contact (N conductor)	▶ 3LD9 250-0CA	1	1 unit	103	0.077
	Leading switch-on, lagging switch-off					
	N or PE terminals	▶ 3LD9 250-2CA	1	1 unit	103	0.070
	Through-type					
Auxiliary switches						
	For mounting on the left and/or right, lagging switch-on, leading switch-off	▶ 3LD9 200-5C	1	1 unit	103	0.024
	• 1 NO + 1 NC	▶ 3LD9 200-6C	1	1 unit	103	0.025
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request	▶ 3LD9 200-5CF	1	1 unit	103	0.024
	• 1 NO + 1 NC					
For front and floor mounting						
Rotary operating mechanisms						
	Lockable in 0 position with up to 3 padlocks					
	• For four-hole mounting, including seal					
	- Black	3LD9 284-1B	1	1 unit	103	0.146
	- Red/Yellow	3LD9 284-3B	1	1 unit	103	0.150
	• For center-hole mounting, including seal and nut					
	- Black	3LD9 284-1D	1	1 unit	103	0.152
	- Red/Yellow	3LD9 284-3D	1	1 unit	103	0.155
Mounting tools						
	For center-hole mounting with nut	3LD9 256-0A	1	5 units	103	0.020
Switching shafts 6 x 6 mm						
	Length 300 mm	3LD9 205-0C	1	5 units	103	0.096
	Length 600 mm	3LD9 205-2C	1	5 units	103	0.169
Inscription labels						
	With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)	3LD9 286-1A	1	10 units	103	0.005
	Without inscription	3LD9 286-4A	1	10 units	103	0.005
Terminal covers as additional touch protection (also for distribution board mounting)						
	Can be snapped on at top and bottom					
	• 1-pole	3LD9 251-2A	100	4 units	103	0.500
	• 3-pole	3LD9 251-0A	1	4 units	103	0.009

Switch Disconnectors

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

Accessories

Version		DT	3LD2 7 and 3LD2 8		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			Order No.	Price per PU	kg			
For front mounting								
	4th contact (N conductor)	▶	3LD9 280-0B	1	1 unit	103	0.099	
	Leading switch-on, lagging switch-off							
	N or PE terminals	▶	3LD9 280-2B	1	1 unit	103	0.089	
	Through-type							
Auxiliary switches								
	For mounting on the left and/or right, lagging switch-on, leading switch-off	▶	3LD9 200-5B	1	1 unit	103	0.024	
	• 1 NO + 1 NC							
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request	▶	3LD9 200-5BF	1	1 unit	103	0.024	
	• 1 NO + 1 NC							
For floor mounting, distribution board mounting or molded-plastic enclosures								
	4th contact (N conductor)	▶	3LD9 280-0C	1	1 unit	103	0.099	
	Leading switch-on, lagging switch-off							
	N or PE terminals	▶	3LD9 280-2C	1	1 unit	103	0.090	
	Through-type							
Auxiliary switches								
	For mounting on the left and/or right, lagging switch-on, leading switch-off	▶	3LD9 200-5C	1	1 unit	103	0.024	
	• 1 NO + 1 NC							
	• 2 NO	▶	3LD9 200-6C	1	1 unit	103	0.025	
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plate contacts for SIMATIC request							
	• 1 NO + 1 NC		3LD9 200-5CF	1	1 unit	103	0.024	
For front and floor mounting								
	rotary operating mechanisms for four-hole mounting							
	Lockable in 0 position with up to 3 padlocks, including seal							
	• Black		3LD9 284-1B	1	1 unit	103	0.146	
	• Red/Yellow		3LD9 284-3B	1	1 unit	103	0.150	
Switching shafts 6 x 6 mm								
	Length 300 mm		3LD9 205-0C	1	5 units	103	0.096	
	Length 600 mm		3LD9 205-2C	1	5 units	103	0.169	
Inscription labels								
	With English/German inscription (MAIN SWITCH/HAUPTSCHALTER)		3LD9 286-1A	1	10 units	103	0.005	
	Without inscription		3LD9 286-4A	1	10 units	103	0.005	
Terminal covers as additional touch protection (also for distribution board mounting)								
	Can be snapped on at top and bottom							
	• 1-pole (1 pack = 4 units)		3LD9 281-2A	1	4 units	103	0.021	

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

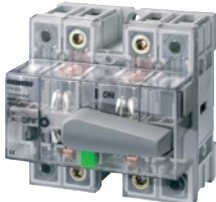
				5TE1 .1	5TE1 .2	5TE1 .3	5TE1 .4
Standards				IEC/EN 60947-3, UL 508			
Approvals				UL508 for the following types: 5TE1 320, 5TE1 330, 5TE1 340, 5TE1 420, 5TE1 430 and 5TE1 440. UL File No. E302554			
Rated operational current I_e With utilization category AC-21A	Per conduct. path At $U_e =$	400 V	A	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	
	2 poles in series	220 V	A	--		100	
	4 poles in series	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
Conventional thermal current I_{th}		At 40 °C, 50 °C and 60 °C	A	100	125	160	200
Rated making capacity		At 415 V AC-23A	A	1875		3200	4000
Rated breaking capacity		At 415 V AC-23A	A	1000		1920	2400
Rated ultimate short-circuit breaking capacity I_{cm}		Per conduct. path At $U_e =$	400 V 415 V 500 V 690 V	kA kA kA kA	10 10 6.7 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 • AWG cables • Copper busbars			mm ² AWG mm ²	6 ... 50 10 ... 1/0 --		-- 8 max. 20 × 6	
Endurance		Electrical Mechanical	Switching cycles	1500 20000		1000 10000	
According 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		Rating	hp	--	10	25	30
UL 508 Manual motor controller 480 V		Rating	hp	--	20	15	15
UL 508 Short-circuit at 480 V		With Class H or K5 fuses	kA	--	10		
		With J fuses	kA	--	50		

Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

Selection and ordering data

Version	I_e A AC	U_e V AC	Width TE	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 Switch disconnectors, lockable, with gray knob and transparent enclosure, mounting depth 92 mm	2 NO				5TE1 210		1	1 unit	029	0.485
	100	690	5		5TE1 220		1	1 unit	029	0.492
	125									
	160		8		5TE1 230		1	1 unit	029	0.646
	200				5TE1 240		1	1 unit	029	0.655
	3 NO				5TE1 310		1	1 unit	029	0.533
	100	690	5		5TE1 320		1	1 unit	029	0.541
	125									
	160		8		5TE1 330		1	1 unit	029	0.694
	200				5TE1 340		1	1 unit	029	0.697
	4 NO				5TE1 410		1	1 unit	029	0.602
	100	690	5		5TE1 420		1	1 unit	029	0.591
	125									
	160		8		5TE1 430		1	1 unit	029	0.774
	200				5TE1 440		1	1 unit	029	0.794
	3 NO with N-conductor through-type terminal				5TE1 610		1	1 unit	029	0.592
	100	690	5		5TE1 620		1	1 unit	029	0.606
	125									
	160		8		5TE1 630		1	1 unit	029	0.791
	200				5TE1 640		1	1 unit	029	0.789
 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				5TE1 315		1	1 unit	029	0.545
	100	690	5		5TE1 325		1	1 unit	029	0.550
	125									
	160		8		5TE1 335		1	1 unit	029	0.693
	200				5TE1 345		1	1 unit	029	0.722
	4 NO				5TE1 415		1	1 unit	029	0.596
	100	690	5		5TE1 425		1	1 unit	029	0.609
	125									
	160		8		5TE1 435		1	1 unit	029	0.803
	200				5TE1 445		1	1 unit	029	0.806

Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

Accessories

	Version	I_e A AC	U_e V AC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Terminal covers Sealable for 100 A and 125 A load disconnect switches for 160 A and 200 A load disconnect switches				5TE9 000		1	1 unit	029	0.043
					5TE9 001		1	1 unit	029	0.037
	Cage terminals for 160 A and 200 A load disconnect switches, 14.5 mm terminal diameter for 35 mm ² cables, hexagonal socket head screw 5 mm 1 set = 3 units 1 set = 4 units				5TE9 003		1	1 set	029	0.245
					5TE9 004		1	1 set	029	0.323
	Auxiliary switches Can be mounted optionally left or right or both sides (2 off); minimum contact load 24 V, 50 mA 1 CO 2 CO	6	230		5TE9 005		1	1 unit	029	0.042
					5TE9 006		1	1 unit	029	0.048
	Locking units For up to three padlocks with max. Ø 8 mm				5TE9 014		1	1 unit	029	0.017
	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				5TE9 015		1	1 set	029	0.078
	Rotary actuators 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				5TE9 010		1	1 unit	029	0.177
					5TE9 011		1	1 unit	029	0.234
					5TE9 012		1	1 unit	029	0.175
					5TE9 013		1	1 unit	029	0.234

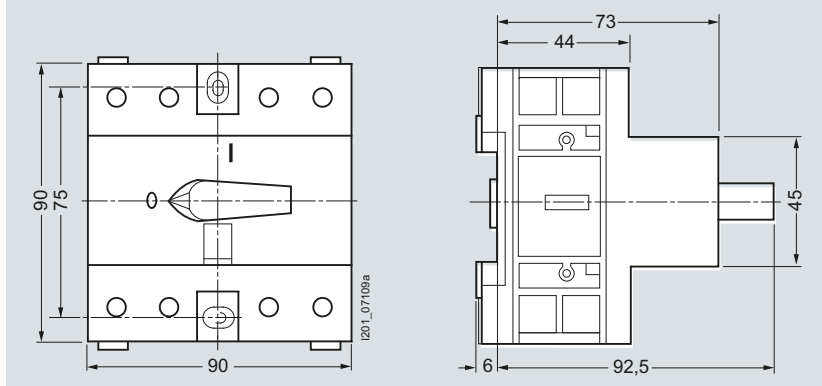
Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

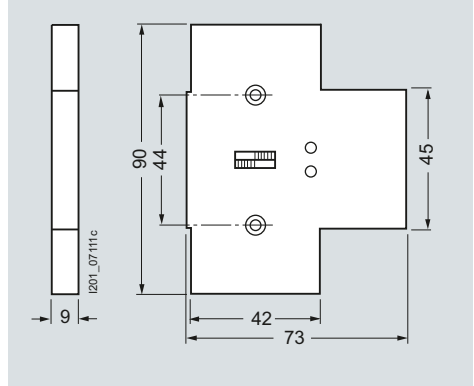
Dimensional drawings

5TE1 switch disconnectors, 100 A and 125 A



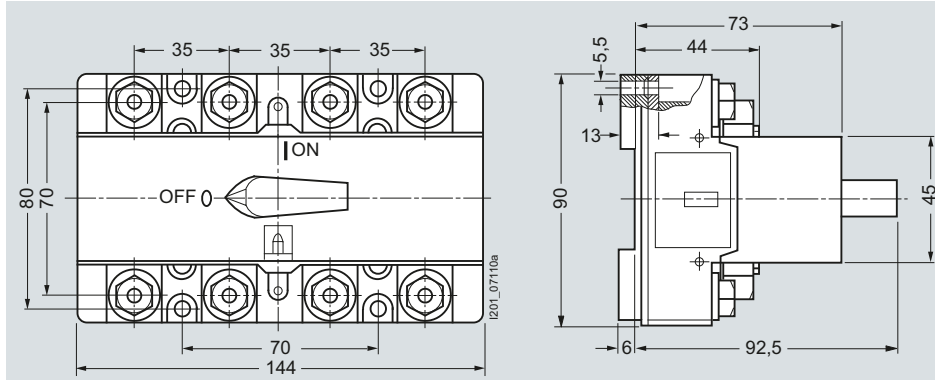
5TE1 210 5TE1 310 5TE1 410 5TE1 610
5TE1 220 5TE1 315 5TE1 415 5TE1 620
5TE1 320 5TE1 420
5TE1 325 5TE1 425

5TE9 auxiliary switches



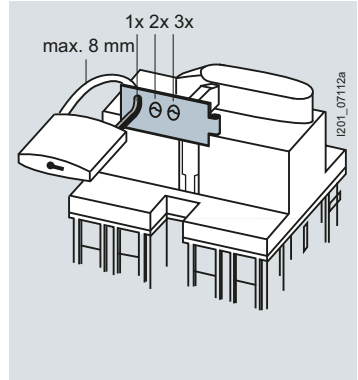
5TE9 005
5TE9 006

5TE1 switch disconnectors, 160 A and 200 A

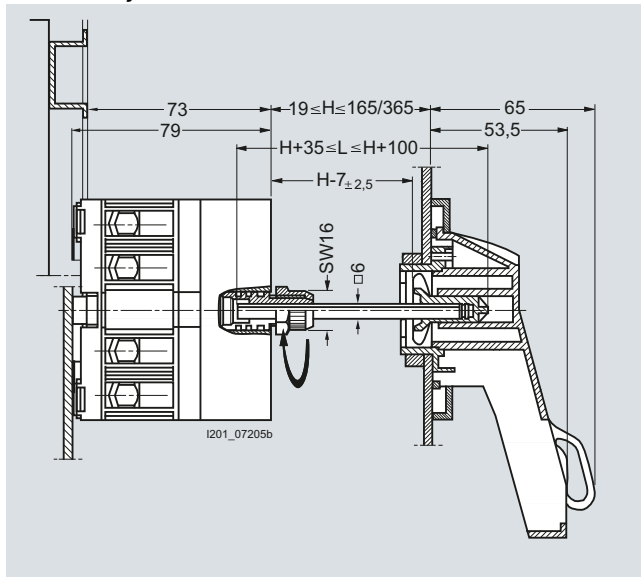


5TE1 230 5TE1 330 5TE1 430 5TE1 630
5TE1 240 5TE1 335 5TE1 435 5TE1 640
5TE1 340 5TE1 440
5TE1 345 5TE1 445

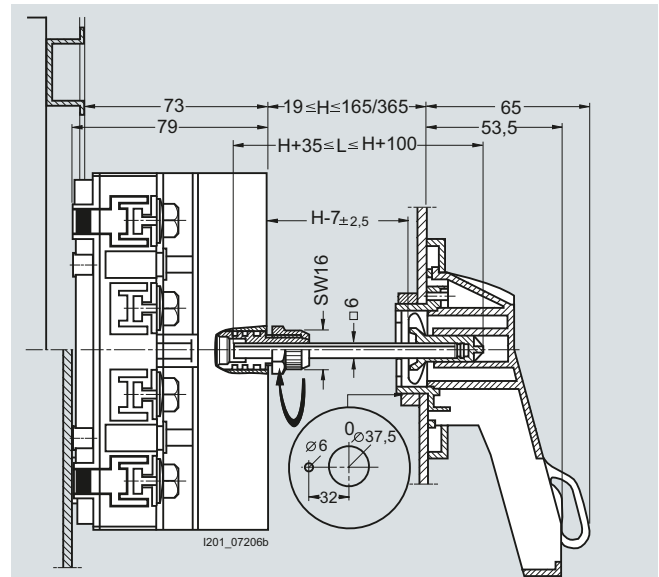
5TE9 014 locking units



5TE9 rotary actuators with extension shaft



With switch disconnectors 100 A and 125 A
5TE9 010, 5TE9 011,
5TE9 012, 5TE9 013
It is possible to open the door in a disconnected state.



With switch disconnectors 160 A and 200 A
5TE9 010, 5TE9 011,
5TE9 012, 5TE9 013
It is possible to open the door in a disconnected state.

Switch Disconnectors

5TE1 Switch Disconnectors up to 200 A

General data

Circuit diagrams

Graphic symbols



5TE1 210
5TE1 220
5TE1 230
5TE1 240



5TE1 310
5TE1 320
5TE1 330
5TE1 340



5TE1 410
5TE1 420
5TE1 430
5TE1 440



5TE1 610
5TE1 620
5TE1 630
5TE1 640



5TE1 315
5TE1 325
5TE1 335
5TE1 345



5TE1 415
5TE1 425
5TE1 435
5TE1 445

5TE9 auxiliary switches



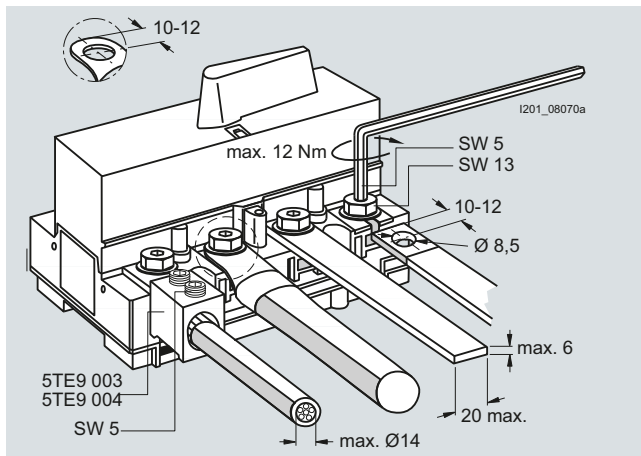
5TE9 005



5TE9 006

More information

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



Design

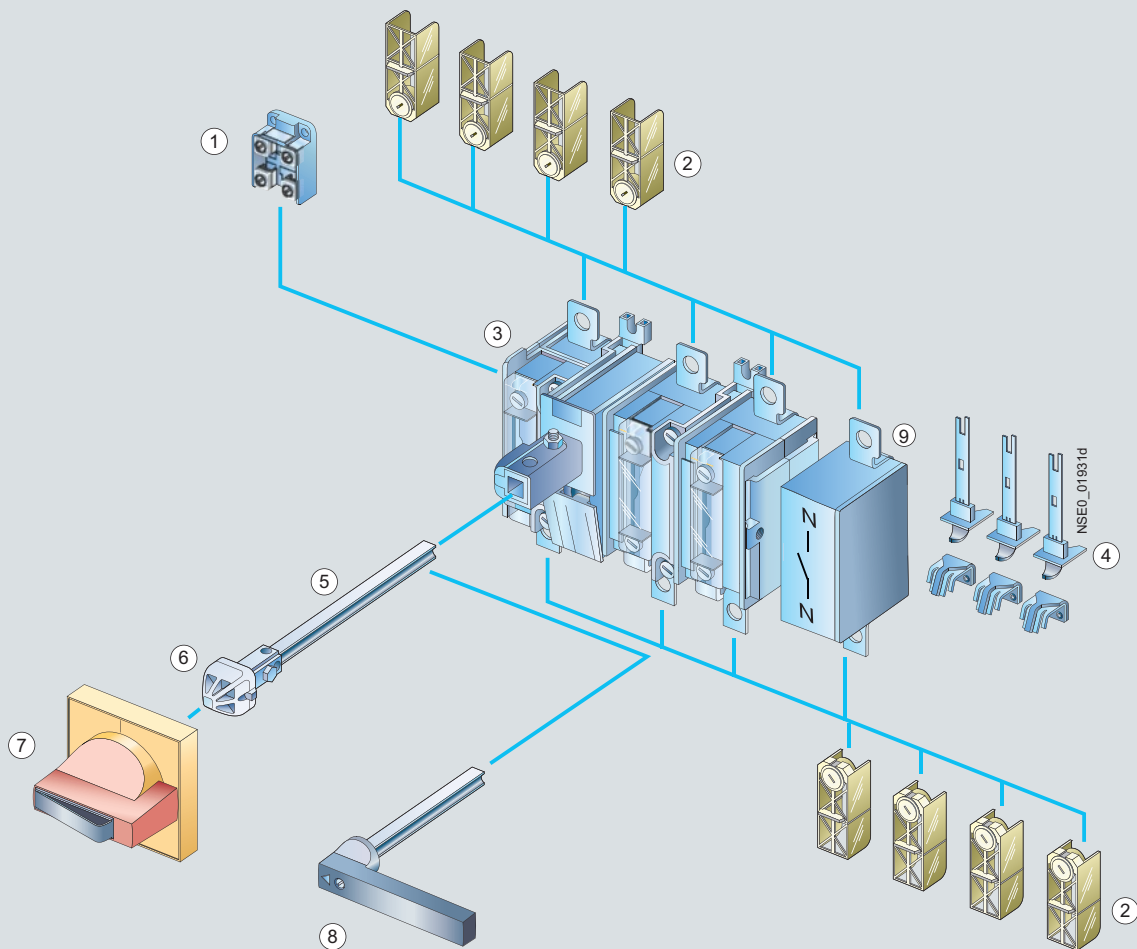
- From 160 A: supplied with one terminal cover
- 160 A and 200 A: version for connection with cable lug
- Screw fixing on base plate
- Installation on standard mounting rail to EN 60715, which is raised at least 5 mm from the base plate.

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Introduction

Overview



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

- ⑧ 8UC9 handle for fixed mounting in standard version (black) or EMERGENCY-STOP version (red).
- ⑨ 4. 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 2 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 switchgear. 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.

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

Additional data, see catalog LV 10.2, chapter 18 "Distribution Boards" and chapter 19 "Terminal Blocks".

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_e								
50/60 Hz AC	V	690						
DC	V	440 (3 conducting paths series-connected)						
	V	220 (2 conducting paths series-connected)						
	V	110 (1 conducting path)						
Rated short-circuit making capacity I_{cm} with upstream 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 690 V AC, rms value								
Max. rated current I_n of the fuses	A	63	80	160	160	400	400	630
Permissible let-through current of the fuses	kA	8	10	17	17	30 ⁵⁾	30 ⁵⁾	40 ⁵⁾
Maximum permissible let-through I^2t value	kA ² s	55	55	223	223	1000	1000	2600
Permissible let-through current of an upstream circuit breaker	kA	7	8	8	15	25	25	32
At 50/60 Hz 690 V AC, peak value								
Rated short-circuit making capacity without fuses	kA	7	7	7	9	20	25	35
At AC 50 Hz/60 Hz 690 V, peak value								
Breaking capacity (infeed from the top or bottom)								
At 400 V AC								
• Breaking current I_c (at p.f. = 0.35, rms value)	A	500	650	1000	1280	2000	3200	5040
• Rated operational current I_e at								
- AC-21A, AC-22A, AC-23A	A	63	80	125	160	250	400	630 ⁶⁾
• Motor switching capacity AC-23A	kW	30	40	65	80	132	200	350
At 500 V AC								
• Breaking current I_c (at p.f. = 0.35, rms value)	A	500	640	1000	1280	2000	3200	3200
• Rated operational current I_e at								
- AC-21A, AC-22A	A	63	80	125	160	250	400	630
- AC-23A	A	63	80	125	160	250	400	400
• Motor switching capacity AC-23A	kW	40	50	90	110	185	280	280
At 690 V AC								
• Breaking current I_c (at p.f. = 0.35, rms value)	A	500	500	1000	1280	2000	3200	3200
• Rated operational current I_e at								
- AC-21A, AC-22A	A	63	80	125	160	250	400	630
- AC-23A	A	63	63	125	160	250	400	400
• Motor switching capacity AC-23A	kW	50	50	110	150	220	375	375
At 440 V DC (3 conducting paths series-connected) ⁷⁾								
• Breaking current I_c (L/R = 15 ms)	A	250	260	500	640	1000 ⁸⁾	1600	1600
• Rated operational current I_e at DC-23A	A	63	63	125	160	250 ⁹⁾	400	400
Rated short-time current I_{cw} (1 s current, rms value)	kA	2.5	2.5	3.2	3.2	8	11	15
Permissible ambient temperature	°C	-25 ... +55 for operation ³⁾						
	°C	-50 ... +80 when stored						
Mechanical endurance, operating cycles		15 000	15 000	15 000	15 000	12 000	12 000	12 000
Degree of protection		IP00/IP20 (from the operator side, with busbar and terminal covers)						
Power loss of the switch disconnector at I_{th}	W	7	12	22	22	33	72	170
Main conductor connections								
Busbar systems, max. dimensions (W x T)	mm	25 x 9	25 x 9	45 x 10	45 x 10	40 x 12	40 x 12	40 x 15
Cable lug, max. conductor cross-section (stranded)	mm ²	35	35	70	120	150	2 x 150 or 1 x 240	2 x 240
Tightening torque	Nm	6 ... 7.5	6 ... 7.5	7 ... 10	18 ... 22	35 ... 45	35 ... 45	35 ... 45
Terminal screws		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 switchgear protection fuse.

⁶⁾ AC-23B.

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

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

⁹⁾ At 440 V DC-22A, at 220 V DC-23A.

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Introduction

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107			
Type		3KE42	3KE43	3KE44	3KE45
Rated uninterrupted current I_u	A	250	400	630	1000
Rated insulation voltage U_i	V	1000 AC, 1200 DC			
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8
Rated operational voltage U_e					
50/60 Hz AC	V	690			
DC	V	440 (3 conducting paths series-connected)			
	V	220 (2 conducting paths series-connected)			
Rated short-circuit making capacity I_{cm}	kA	35	35	60	60
At 50/60 Hz 690 V AC, peak value					
Rated short-circuit making capacity with upstream fuses	kA	105	105	105	84
At 50/60 Hz 690 V AC, peak value					
Rated conditional short-circuit current with upstream fuses	A	50	50	50	40
At 50/60 Hz 690 V AC (rms value)					
Maximum permissible let-through I^2t value	kA ² s	2150	2150	5400	19000
Permissible let-through current of an upstream circuit breaker					
At 50/60 Hz 690 V AC, peak value	kA	35	35	60	60
Max. rated current I_n of the fuse	A	400	400	630	1000
Permissible let-through current of the fuses (peak value)	kA	38	38	60	75
Breaking capacity (infeed from the top or bottom)					
At 400 V AC					
• Breaking current I_c (at p.f. = 0.35, rms value)	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 (at p.f. = 0.35, rms value)	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 (at p.f. = 0.35, rms value)	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}	kA	12.5	12.5	21	21
(1 s current, rms value)					
Permissible ambient temperature	°C	-25 ... +55 for operation			
	°C	-50 ... +80 when stored			
Mechanical endurance, operating cycles		10 000			
Degree of protection		IP00			
Power loss of the switch disconnector at I_{th}	W	15	33	78	180
Main conductor connections					
Busbar systems, max. dimensions (W x T)	mm	25 x 10	25 x 10	2 x 40 x 10	2 x 40 x 10
Cable lug, max. conductor cross-section (stranded)	mm ²	2 x 150	2 x 150, 1 x 240	2 x 240	2 x 240

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Application

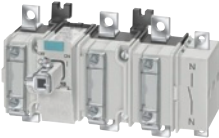
3KA switch disconnectors are implemented as main control switches and EMERGENCY-STOP switches for normal switching duty and isolation of main circuits and auxiliary circuits. Another field of application is the switching of induction motors and other loads in the event of maintenance and repair.

Main 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

Conductor connecting screws are included in the scope of supply.

	Rated uninterrupted current I_U	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A								
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)								
3-pole for motor loads and for power distribution								
63			3KA50 30-1GE01		1	1 unit	103	1.372
80			3KA51 30-1GE01		1	1 unit	103	1.365
125			3KA52 30-1GE01		1	1 unit	103	2.217
160			3KA53 30-1GE01		1	1 unit	103	2.264
250			3KA55 30-1GE01		1	1 unit	103	5.387
400			3KA57 30-1GE01		1	1 unit	103	10.284
630			3KA58 30-1GE01		1	1 unit	103	6.065
4-pole¹⁾ for power distribution								
63			3KA50 40-1GE01		1	1 unit	103	2.449
80			3KA51 40-1GE01		1	1 unit	103	2.474
125			3KA52 40-1GE01		1	1 unit	103	2.455
160			3KA53 40-1GE01		1	1 unit	103	0.002
250			3KA55 40-1GE01		1	1 unit	103	5.979
400			3KA57 40-1GE01		1	1 unit	103	10.824
630			3KA58 40-1GE01		1	1 unit	103	6.570
Basic switch versions without handle								
3-pole for motor loads and for power distribution								
 3KA53 30-1AE01	63		3KA50 30-1AE01		1	1 unit	103	0.905
	80		3KA51 30-1AE01		1	1 unit	103	0.903
	125		3KA52 30-1AE01		1	1 unit	103	1.874
	160		3KA53 30-1AE01		1	1 unit	103	1.997
	250		3KA55 30-1AE01		1	1 unit	103	4.450
	400		3KA57 30-1AE01		1	1 unit	103	4.582
	630		3KA58 30-1AE01		1	1 unit	103	5.096
4-pole¹⁾ for power distribution								
 3KA53 40-1AE01	63		3KA50 40-1AE01		1	1 unit	103	2.080
	80		3KA51 40-1AE01		1	1 unit	103	2.113
	125		3KA52 40-1AE01		1	1 unit	103	2.105
	160		3KA53 40-1AE01		1	1 unit	103	2.220
	250		3KA55 40-1AE01		1	1 unit	103	4.970
	400		3KA57 40-1AE01		1	1 unit	103	5.120
	630		3KA58 40-1AE01		1	1 unit	103	5.641
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions w/o handle								
3-pole for motor loads and for power distribution								
 8UC71 21-3BB10	63		8UC71 21-3BB10		1	1 unit	103	0.368
	80		8UC71 21-3BB10		1	1 unit	103	0.368
	125		8UC72 22-3BB20		1	1 unit	103	0.423
	160		8UC72 22-3BB20		1	1 unit	103	0.423
	250		8UC73 23-3BB30		1	1 unit	103	1.000
	400		8UC73 23-3BB30		1	1 unit	103	1.000
	630		8UC73 23-3BB30		1	1 unit	103	1.000
4-pole¹⁾ for power distribution								
	63		8UC72 22-3BB20		1	1 unit	103	0.423
	80		8UC72 22-3BB20		1	1 unit	103	0.423
	125		8UC72 22-3BB20		1	1 unit	103	0.423
	160		8UC72 22-3BB20		1	1 unit	103	0.423
	250		8UC73 23-3BB30		1	1 unit	103	1.000
	400		8UC73 23-3BB30		1	1 unit	103	1.000
	630		8UC73 23-3BB30		1	1 unit	103	1.000

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

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

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

	Rated uninterrupted current I_u	DT	3-pole, assembly kits for mounting in control cabinet side panels		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	A		Assembly kits (front IP40)		Order No.	Price per PU		kg	
			Comprising: Lockable handle and three terminal covers for the infeed side						
Black handle									
	63		3KX3 516-2AA	1	1 unit	103	0.580		
	80		3KX3 516-2AA	1	1 unit	103	0.580		
	125		3KX3 536-2AA	1	1 unit	103	0.828		
	160		3KX3 536-2AA	1	1 unit	103	0.828		
	250		3KX3 556-2AA	1	1 unit	103	1.567		
	400		3KX3 556-2AA	1	1 unit	103	1.567		
	630		3KX3 556-2AA	1	1 unit	103	1.567		
	EMERGENCY-STOP red handle								
	63		3KX3 516-2BA	1	1 unit	103	0.587		
	80		3KX3 516-2BA	1	1 unit	103	0.587		
	125		3KX3 536-2BA	1	1 unit	103	0.832		
	160		3KX3 536-2BA	1	1 unit	103	0.832		
250		3KX3 556-2BA	1	1 unit	103	1.550			
400		3KX3 556-2BA	1	1 unit	103	1.550			
630		3KX3 556-2BA	1	1 unit	103	1.550			

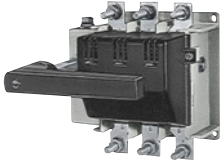
3KA53 30-1AE01 with
3KX3 536-2AA

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
conductor connecting screws are included in the scope of supply**

Rated uninterrupted current I_u	DT	3-pole, operating mechanism and actuation from the front Direct operating mechanisms	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
Complete versions with black handle						
 250 400 630 1000		3KE42 30-0BA	1	1 unit	103	3.828
		3KE43 30-0BA	1	1 unit	103	4.157
		3KE44 30-0BA	1	1 unit	103	7.252
		3KE45 30-0BA	1	1 unit	103	7.764
Basic switch versions without handle						
250		3KE42 30-0AA	1	1 unit	103	3.886
400		3KE43 30-0AA	1	1 unit	103	3.810
630		3KE44 30-0AA	1	1 unit	103	6.876
1000		3KE45 30-0AA	1	1 unit	103	7.430
EMERGENCY-STOP red handles + coupling sockets for basic switch versions without handle						
250		8UC93 71 + 3KX2 210-0H	1	1 unit	103	0.142
			1	1 unit	103	0.274
400		8UC93 71 + 3KX2 210-0H	1	1 unit	103	0.142
			1	1 unit	103	0.274
630		8UC93 75 + 3KX2 210-0H	1	1 unit	103	0.180
			1	1 unit	103	0.274
1000		8UC93 75 + 3KX2 210-0H	1	1 unit	103	0.180
			1	1 unit	103	0.274
Rated uninterrupted current I_u	DT	3-pole, operating mechanism and actuation from the front Door-coupling rotary operating mechanisms (lockable)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)						
250		3KE42 30-0GA	1	1 unit	103	4.983
400		3KE43 30-0GA	1	1 unit	103	5.046
630		3KE44 30-0GA	1	1 unit	103	7.740
1000		3KE45 30-0GA	1	1 unit	103	8.267
Basic switch versions without handle						
250		3KE42 30-0AA	1	1 unit	103	3.886
400		3KE43 30-0AA	1	1 unit	103	3.810
630		3KE44 30-0AA	1	1 unit	103	6.876
1000		3KE45 30-0AA	1	1 unit	103	7.430
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle						
250, 400, 630, 1000		8UC73 24-3BB44	1	1 unit	103	1.186

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	DT	3-pole, rear operating mechanism and actuation	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	Order No.	Price per PU				kg
Basic switch versions without handle						
Direct operating mechanisms						
250		3KE42 30-0CA	1	1 unit	103	4.964
400		3KE43 30-0CA	1	1 unit	103	4.946
630		3KE44 30-0CA	1	1 unit	103	7.377
1000		3KE45 30-0CA	1	1 unit	103	7.907
Direct operating mechanisms (lockable)						
250		3KE42 30-0CA	1	1 unit	103	4.964
400		3KE43 30-0CA	1	1 unit	103	4.946
630		3KE44 30-0CA	1	1 unit	103	7.377
1000		3KE45 30-0CA	1	1 unit	103	7.907
Handles (black) + masking plates + display plates (silver) for basic switch versions without handle						
Direct operating mechanisms						
250		8UC93 70	1	1 unit	103	0.132
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 31-0B	1	1 unit	103	0.010
400		8UC93 70	1	1 unit	103	0.132
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 31-0B	1	1 unit	103	0.010
630		8UC93 74	1	1 unit	103	0.150
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 31-0B	1	1 unit	103	0.010
1000		8UC93 74	1	1 unit	103	0.150
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 31-0B	1	1 unit	103	0.010
Direct operating mechanisms (lockable)						
250		8UC93 70	1	1 unit	103	0.132
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 31-0B	1	1 unit	103	0.010
400		8UC93 70	1	1 unit	103	0.132
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 31-0B	1	1 unit	103	0.010
630		8UC93 74	1	1 unit	103	0.150
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 31-0B	1	1 unit	103	0.010
1000		8UC93 74	1	1 unit	103	0.150
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 31-0B	1	1 unit	103	0.010

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Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Floor mounting

Rated uninterrupted current I_u	DT	3-pole, rear operating mechanism and actuation	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
EMERGENCY-STOP red handles + masking plates + display plates (yellow) for basic switch versions without handle						
Direct operating mechanisms						
250		8UC93 71	1	1 unit	103	0.142
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 33-0B	1	1 unit	103	0.010
400		8UC93 71	1	1 unit	103	0.142
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 33-0B	1	1 unit	103	0.010
630		8UC93 75	1	1 unit	103	0.180
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 33-0B	1	1 unit	103	0.010
1000		8UC93 75	1	1 unit	103	0.180
		+ 8UB95 30	1	1 unit	103	0.028
		+ 8UC96 33-0B	1	1 unit	103	0.010
Direct operating mechanisms (lockable)						
250		8UC93 71	1	1 unit	103	0.142
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 33-0B	1	1 unit	103	0.010
400		8UC93 71	1	1 unit	103	0.142
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 33-0B	1	1 unit	103	0.010
630		8UC93 75	1	1 unit	103	0.180
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 33-0B	1	1 unit	103	0.010
1000		8UC93 75	1	1 unit	103	0.180
		+ 8UC95 63	1	1 unit	103	0.270
		+ 8UC96 33-0B	1	1 unit	103	0.010

Rated uninterrupted current I_u	DT	3-pole, rear rotary operating mechanisms (lockable) Door-coupling rotary operating mechanisms (lockable)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A		Order No.	Price per PU			kg
Basic switch versions without handle						
250		3KE42 30-0CA	1	1 unit	103	4.964
400		3KE43 30-0CA	1	1 unit	103	4.946
630		3KE44 30-0CA	1	1 unit	103	7.377
1000		3KE45 30-0CA	1	1 unit	103	7.907
8UC7 door-coupling rotary operating mechanisms (black handle) for basic switch versions without handle						
250, 400, 630, 1000		8UC73 14-1BB44	1	1 unit	103	1.170
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle						
250, 400, 630, 1000		8UC73 24-3BB44	1	1 unit	103	1.186

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Molded-plastic enclosures

Benefits

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

Application

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

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

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

Selection and ordering data

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

¹⁾ With PE/ground or N terminal.

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

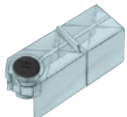
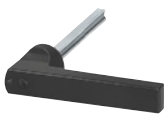
³⁾ At ambient temperatures up to 35 °C.

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

Selection and ordering data

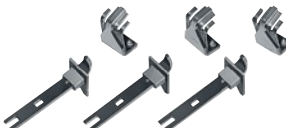
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KA50 30/3KA51 30							
	▶	Terminal covers For 3-pole devices (1 set = 6 units) For 4-pole devices (1 set = 8 units)	3KX3 552-3DA01 3KX3 552-3DB01	1 1	1 unit 1 unit	103 103	0.078 0.107
		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC71 11-1BB10 8UC71 21-3BB10	1 1	1 unit 1 unit	103 103	0.358 0.368
	▶	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	3KX3 516-1AA	1	1 unit	103	0.102
3KX3 516-1AA		Extension shaft 300 mm long	8UC60 31	1	1 unit	103	0.068
		Extension shaft 600 mm long	8UC60 81	1	1 unit	103	0.136
		Shaft connecting pieces	8UC60 21	1	1 unit	103	0.027
		Auxiliary switches 1 NO + 1 NC	3SB14 00-0A	1	1 unit	41J	0.019
		2 NO	3SB14 00-0G	1	1 unit	41J	0.019
		2 NC	3SB14 00-0H	1	1 unit	41J	0.020
3SB14 00-0A							
3KA50 40/3KA51 40/3KA52/3KA53							
	▶	Terminal covers For 3-pole 3KA52 devices (1 set = 6 units) For 3KA53	3KX3 552-3DA01 3KX3 553-3DA01	1 1	1 unit 1 unit	103 103	0.078 0.151
	▶	For 4-pole 3KA52 devices (1 set = 8 units) For 3KA53	3KX3 552-3DB01 3KX3 553-3DB01	1 1	1 unit 1 unit	103 103	0.107 0.174
		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC72 12-1BB20 8UC72 22-3BB20	1 1	1 unit 1 unit	103 103	0.424 0.423
	▶	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	3KX3 536-1AA	1	1 unit	103	0.150
8UC72 12-1BB20		Extension shaft 300 mm long	8UC60 32	1	1 unit	103	0.135
		Extension shaft 600 mm long	8UC60 82	1	1 unit	103	0.265
		Shaft connecting pieces	8UC60 22	1	1 unit	103	0.022
		Auxiliary switches 1 NO + 1 NC	3SB14 00-0A	1	1 unit	41J	0.019
		2 NO	3SB14 00-0G	1	1 unit	41J	0.019
		2 NC	3SB14 00-0H	1	1 unit	41J	0.020
		1 NO + 1 NC, 20 ms leading	3KX3 552-3EA01	1	1 unit	103	0.022
3SB14 00-0A							
3KA55/3KA57/3KA58							
	▶	Terminal covers For 3-pole devices (1 set = 6 units) For 4-pole devices (1 set = 8 units)	3KX3 557-3DA01 3KX3 557-3DB01	1 1	1 unit 1 unit	103 103	0.316 0.389
		Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC73 13-1BB30 8UC73 23-3BB30	1 1	1 unit 1 unit	103 103	0.998 1.000
	▶	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	3KX3 176-1E	1	1 unit	103	0.287
		Extension shaft 300 mm long	8UC60 33	1	1 unit	103	0.215
3KX3 176-1E		Extension shaft 600 mm long	8UC60 83	1	1 unit	103	0.424
		Shaft connecting pieces	8UC60 23	1	1 unit	103	0.083
		Auxiliary switches 1 NO + 1 NC	3SB14 00-0A	1	1 unit	41J	0.019
		2 NO	3SB14 00-0G	1	1 unit	41J	0.019
		2 NC	3SB14 00-0H	1	1 unit	41J	0.020
		1 NO + 1 NC, 20 ms leading	3KX3 552-3EA01	1	1 unit	103	0.022
3SB14 00-0A							

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KE42/3KE43								
 3KX2 210-0D	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		3KX2 210-0D		1	1 unit	103	2.450
	Door-coupling rotary operating mechanisms IP65 Black handle for changeover switch with break-before-make feature, shaft 300 mm		8UC74 14-1BF44		1	1 unit	103	1.208
	Direct operating mechanisms Handle (black) for fixed mounting		8UC93 81		1	1 unit	103	0.270
	Changeover switches without break-before-make feature Switch I ON – Switch II OFF Switch I ON – Switch II ON Switch I OFF – Switch II ON		3KX2 210-0E		1	1 unit	103	2.451
	Door-coupling rotary operating mechanisms IP65 Black handle for changeover switch without break-before-make feature, shaft 300 mm		8UC74 14-1FG44		1	1 unit	103	1.113
	Direct operating mechanisms Handle (black) for fixed mounting		8UC93 81		1	1 unit	103	0.270
	Parallel switches Switch I ON – Switch II ON Switch I OFF – Switch II OFF		3KX2 250-1A		1	1 unit	103	0.760
	Door-coupling rotary operating mechanisms IP65 Handle (black), shaft 300 mm		8UC74 14-1BB44		1	1 unit	103	1.228
	EMERGENCY-STOP door-coupling rotary operating mechanisms IP65 Handle (red), shaft 300 mm		8UC74 24-3BB44		1	1 unit	103	1.200
 3KX3 557-3DA01	Further accessories							
	Terminal covers (1 set = 6 units)		3KX3 557-3DA01		1	1 unit	103	0.316
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC73 14-1BB44 8UC73 24-3BB44		1 1	1 unit 1 unit	103 103	1.170 1.186
	Extension shaft 300 mm long		8UC60 34		1	1 unit	103	0.316
	Extension shaft 600 mm long		8UC60 84		1	1 unit	103	0.628
	Auxiliary switches with switching cam 1 NO + 1 NC (complete mounting kit)		3KX2 231-1A		1	1 unit	103	0.051
	Grounding brackets		3KX2 252-1A		1	1 unit	103	0.049
	Arc chutes (spare part with 3 arc-splitter assemblies)		3KY2 202-0B		1	1 unit	103	0.650
	Arcing contacts (spare part with 3 fixed and 3 movable contacts)		3KY2 204-0A		1	1 unit	103	0.201
	 3KY2 204-0A							

Switch Disconnectors

3KA, 3KE Switch Disconnectors up to 1000 A

Accessories

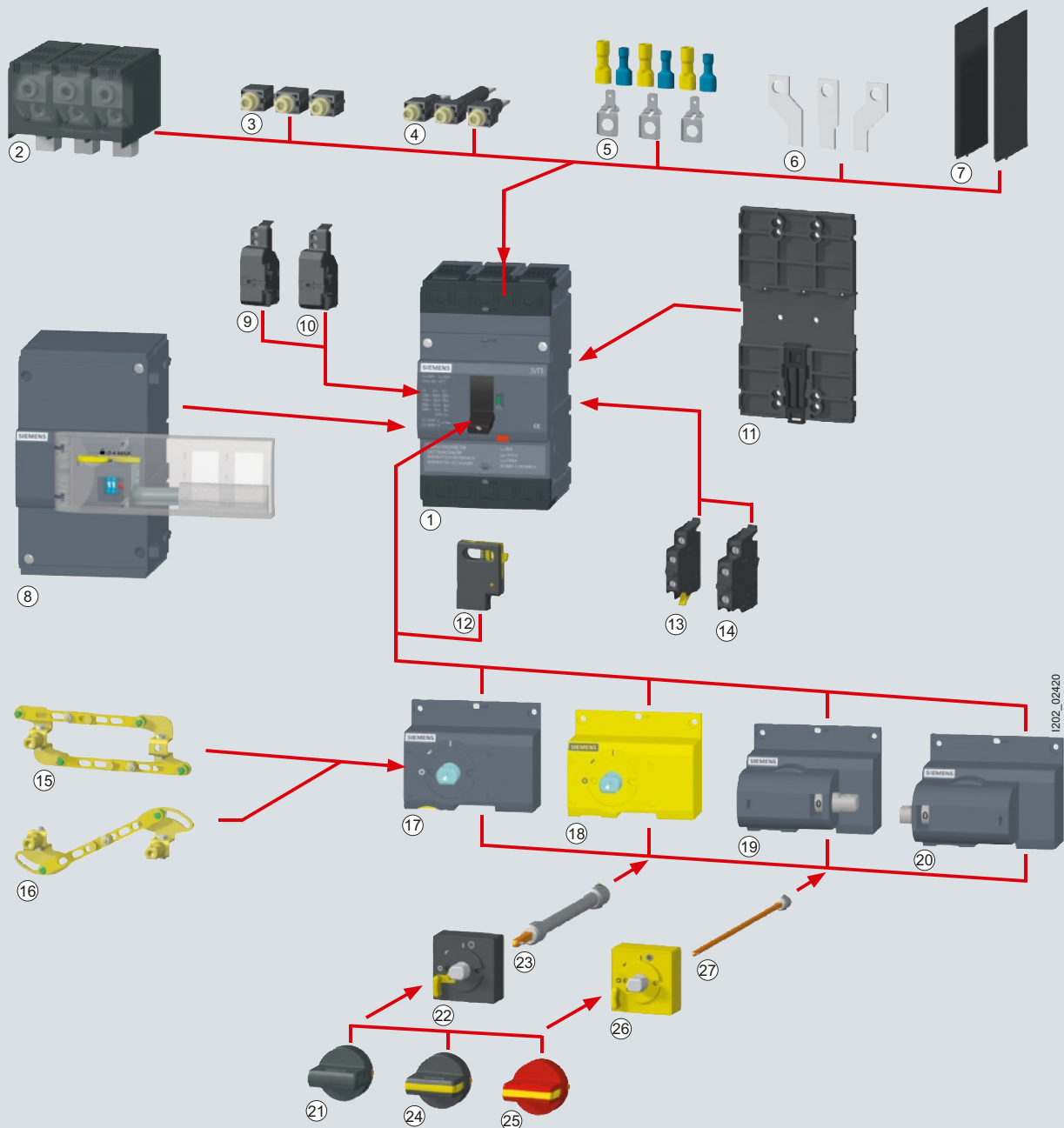
Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KE44/3KE45								
 3KX2 210-0D	Changeover switches							
	Changeover switches with break-before-make feature Switch I ON – Switch II OFF Switch I OFF – Switch II OFF Switch I OFF – Switch II ON		3KX2 210-0D		1	1 unit	103	2.450
	Door-coupling rotary operating mechanisms IP65 Black handle for changeover switch with break-before-make feature, shaft 300 mm		8UC74 14-1BF44		1	1 unit	103	1.208
	Direct operating mechanisms Handle (black) for fixed mounting		8UC93 81		1	1 unit	103	0.270
	Changeover switches without break-before-make feature Switch I ON – Switch II OFF Switch I ON – Switch II ON Switch I OFF – Switch II ON		3KX2 210-0E		1	1 unit	103	2.451
	Door-coupling rotary operating mechanisms IP65 Black handle for changeover switch without break-before-make feature, shaft 300 mm		8UC74 14-1FG44		1	1 unit	103	1.113
	Direct operating mechanisms Handle (black) for fixed mounting		8UC93 81		1	1 unit	103	0.270
	Parallel switches Switch I ON – Switch II ON Switch I OFF – Switch II OFF		3KX2 250-1A		1	1 unit	103	0.760
	Door-coupling rotary operating mechanisms IP65 Handle (black), shaft 300 mm		8UC74 14-1BB44		1	1 unit	103	1.228
	EMERGENCY-STOP door-coupling rotary operating mechanisms IP65 Handle (red), shaft 300 mm		8UC74 24-3BB44		1	1 unit	103	1.200
	Direct operating mechanisms Handle (black) for fixed mounting		8UC93 81		1	1 unit	103	0.270
	Further accessories							
	Terminal covers (top and bottom)		3KX2 252-0C		1	1 unit	103	0.418
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC73 14-1BB44 8UC73 24-3BB44		1 1	1 unit 1 unit	103 103	1.170 1.186
 3KX2 231-1A	Extension shaft 300 mm long		8UC60 34		1	1 unit	103	0.316
	Extension shaft 600 mm long		8UC60 84		1	1 unit	103	0.628
	Auxiliary switches 1 NO + 1 NC (complete mounting kit)		3KX2 231-1A		1	1 unit	103	0.051
	Grounding brackets		3KX2 252-1A		1	1 unit	103	0.049
 3KY2 232-0A	Arc chutes (spare part with 3 arc-splitter assemblies)		3KY2 232-0A		1	1 unit	103	1.031
	Arcing contacts Spare part with 3 fixed and 3 movable contacts		3KY2 234-0A		1	1 unit	103	0.110

Switch Disconnectors

3VT switch disconnectors up to 1600 A

Introduction

Overview



- | | | |
|--|--|--|
| ① Switch disconnector | ⑩ Undervoltage release | ⑲ Lateral manual operating mechanism (right) |
| ② Circular conductor terminal | ⑪ Adapter to install on 35 mm DIN rail | ⑳ Lateral manual operating mechanism (left) |
| ③ Front connection | ⑫ Locking 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 manual operating mechanism | ㉖ Coupling driver |
| ⑨ Shunt release | ⑱ Front manual operating mechanism | ㉗ Extension shaft |

The 3VT switch disconnectors are a derivative of the corresponding 3VT circuit breakers. This has the advantage that they can be equipped with accessory components in a wide range of ways.

The only difference between this version of the switch connectors and the circuit breakers is the absence of a release. They can be used up to a rated voltage of 690 V AC and 440 V DC.

Switch Disconnectors

3VT switch disconnectors up to 1600 A

Introduction

Application

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

As three and four-pole versions, they ensure making and breaking of the specified rated current under load. At the same time, they constitute a safety isolating function and isolating distance in all low-voltage circuits.

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

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

Technical specifications



Rated current	A	160	250	630	1000	1600
Number of poles		3 and 4	3 and 4	3 and 4	3	3
Rated insulation voltage	V	690				
Utilization category		AC-23B DC-23B				
Rated short-time withstand current I_{cw}	kA _{rms} /1s	2	3	7.5	15	20
Rated short-circuit making capacity I_{cm}/U_e						
• At 415 V AC	kA	2.8	4.26	12.5	30	40
• At 440 V DC	kA	2.8	4.26	12.5	30	40
Endurance						
• Mechanical		20 000	30 000	20 000	10 000	10 000
• Electrical		6 000	3 000	5 000	4 000	4 000

Switch Disconnectors

3VT switch disconnectors up to 1600 A

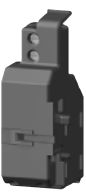
3VT1 switch disconnectors up to 160 A

Selection and ordering data

Version	Rated current I_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
A								
3VT1 switch disconnectors								
Switch disconnectors								
	3-pole	160	3VT1 716-2DE36-0AA0		1	1 unit	193	1.015
	4-pole	160	3VT1 716-2EE46-0AA0		1	1 unit	193	1.317

Accessories

Auxiliary switches and auxiliary releases

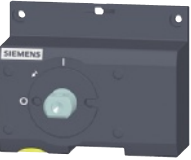
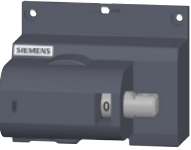
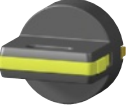
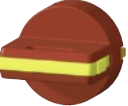
Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
V	Hz							
Auxiliary switches								
	CO contacts							
	• 60 ... 250 AC/DC	50/60	3VT9 100-2AB10		1	1 unit	193	0.020
	• 5 ... 60 AC/DC	50/60	3VT9 100-2AB20		1	1 unit	193	0.019
Alarm switches								
	CO contacts							
	• 60 ... 250 AC/DC	50/60	3VT9 100-2AH10		1	1 unit	193	0.024
	• 5 ... 60 AC/DC	50/60	3VT9 100-2AH20		1	1 unit	193	0.020
Shunt releases								
	• 24, 48 AC/DC	50/60	3VT9 100-1SC00		1	1 unit	193	0.093
	• 110, 230 AC/110, 220 DC	50/60	3VT9 100-1SD00		1	1 unit	193	0.093
	• 230, 400 AC/220 DC	50/60	3VT9 100-1SE00		1	1 unit	193	0.093
Undervoltage releases								
	• 24, 48 AC	50/60	3VT9 100-1UC00		1	1 unit	193	0.094
	• 110, 230 AC	50/60	3VT9 100-1UD00		1	1 unit	193	0.093
	• 230, 400 AC	50/60	3VT9 100-1UE00		1	1 unit	193	0.096
	• 24, 48 DC	--	3VT9 100-1UU00		1	1 unit	193	0.095
	• 110, 220 DC	--	3VT9 100-1UV00		1	1 unit	193	0.094

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Manual operating mechanisms

Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Manual operating mechanisms								
Rotary operating mechanisms								
	• Interlocking not available	Gray	3VT9 100-3HA10		1	1 unit	193	0.127
	• Lockable with padlock	Gray	3VT9 100-3HA20		1	1 unit	193	0.122
	• Lockable with padlock	Yellow	3VT9 100-3HB20		1	1 unit	193	0.134
	• For lateral operation, mounted on left side, interlocking not available	Gray	3VT9 100-3HC10		1	1 unit	193	0.194
	• For lateral operation, mounted on right side, interlocking not available	Gray	3VT9 100-3HD10		1	1 unit	193	0.192
Handle for manual operating mechanism								
	• Interlocking not available	Black	3VT9 100-3HE10		1	1 unit	193	0.022
	• Lockable with padlock	Black	3VT9 100-3HE20		1	1 unit	193	0.021
	• Lockable with padlock	Red	3VT9 100-3HF20		1	1 unit	193	0.021
Coupling drivers for door-coupling operating mechanism								
For use with black handle 3VT9 100-3HE..								
	• Degree of protection IP40	Black	3VT9 100-3HG10		1	1 unit	193	0.095
	• Degree of protection IP66	Black	3VT9 100-3HG20		1	1 unit	193	0.098
For use with red handle 3VT9 100-3HF20								
	• Degree of protection IP40	Yellow	3VT9 100-3HH10		1	1 unit	193	0.097
	• Degree of protection IP66	Yellow	3VT9 100-3HH20		1	1 unit	193	0.097
Extension shafts								
	• Length 350 mm, can be shortened		3VT9 100-3HJ10		1	1 unit	193	0.134
	• Length 199 ... 352 mm, extendable		3VT9 100-3HJ20		1	1 unit	193	0.114

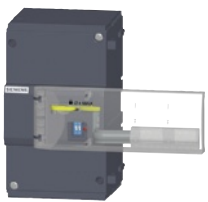
Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Mechanical interlocks								
 Mechanical interlocks			3VT9 100-8LA00		1	1 unit	193	0.119
Mechanical parallel switching								
 Mechanical parallel switching			3VT9 100-8LB00		1	1 unit	193	0.137

Motorized operating mechanisms

Rated operational voltage U_s V	Frequency Hz	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Motorized operating mechanisms, lateral mounting								
 With locking mechanism for 3 padlocks								
24 AC/DC ¹⁾	50/60		3VT9 100-3MA00		1	1 unit	193	0.875
48 AC/DC	50/60		3VT9 100-3MB00		1	1 unit	193	0.867
110 AC/DC	50/60		3VT9 100-3MD00		1	1 unit	193	0.901
230 V AC/220 DC	50/60		3VT9 100-3ME00		1	1 unit	193	0.917
Accessories for motorized operating mechanisms								
 Extension cables for motorized operating mechanism 12 cables, length 60 cm			3VT9 100-3MF00		1	1 unit	193	0.054

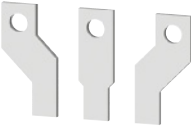
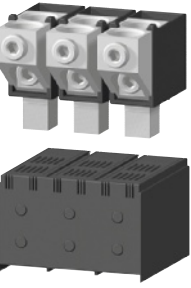
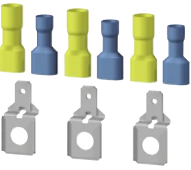
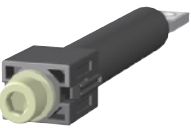
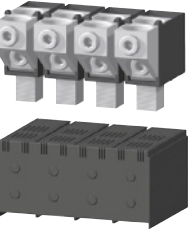
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Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Connection accessories

	Version	Conductor cross-sections mm ²	Connection type	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Connection combinations										
Connection combinations for 3-pole version										
	Front connecting bars For increased pole spacing	1.5 ... 2.5; 4 ... 6	Al/Cu busbars, cable lugs		3VT9 100-4ED30		1	1 unit	193	0.110
	Front terminals	--	Al/Cu busbars, cable lugs		3VT9 100-4TA30		1	1 unit	193	0.057
	Rear terminals	--	Al/Cu busbars, cable lugs		3VT9 100-4RC30		1	1 unit	193	0.184
	Multiple feed-in terminals Terminal covers, degree of protection IP20 (included in scope of supply)	2 x 25 ... 120	Cu/Al cables		3VT9 100-4TF30		1	1 unit	193	0.252
	Auxiliary conductor terminals	1.5 ... 2.5; 4 ... 6	Flexible Cu conductor		3VT9 100-4TN30		1	1 unit	193	0.029
Terminals for 4-pole version										
	Front terminals For 4th pole (for use with con- nection combination 3VT9 100-4TA30)	--	Al/Cu busbars, cable lugs		3VT9 100-4TA00		1	1 unit	193	0.044
	Rear terminals For 4th pole (for use with con- nection combination 3VT9 100-4RC30)	--	Al/Cu busbars, cable lugs		3VT9 100-4RC00		1	1 unit	193	0.089
	Multiple feed-in terminals Terminal covers, degree of protection IP20 (included in scope of supply)	2 x 25 ... 120	Cu/Al cables		3VT9 100-4TF40		1	1 unit	193	0.324
	Auxiliary conductor terminals For 4th pole (for use with con- nection combination 3VT9 100-4TN30)	1.5 ... 2.5; 4 ... 6	Flexible Cu conductor		3VT9 100-4TN00		1	1 unit	193	0.017

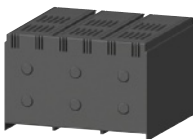
* You can order this quantity or a multiple thereof.

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT1 switch disconnectors up to 160 A

Mounting accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Mounting accessories							
	Phase barriers						
	Included in scope of supply of switch disconnector. If infeed is from below, the units 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	3VT9 100-8CE30 3VT9 100-8CE00	1 1	1 unit 1 unit	193 193	0.038 0.025	
	Terminal covers, degree of protection IP20						
	Increases degree of protection of connection point to IP20, e.g. when used with cable lugs. • for 3-pole version • for 4-pole version	3VT9 100-8CA30 3VT9 100-8CA40	1 1	1 unit 1 unit	193 193	0.091 0.106	
	Locking devices for knob						
	• Allows the switch disconnector to be locked in the "manual off" position. • Locking is by means of a padlock with a diameter of up to 3 ... 4 mm.	3VT9 100-3HL00	1	1 unit	193	0.015	
Mounting adapters							
	3-pole version						
	For mounting on a 35 mm standard mounting rail	3VT9 100-4PP30	1	1 unit	193	0.078	

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Selection and ordering data

Version	Rated current I_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A							kg
Switching units								
	Switch disconnectors							
	3-pole	250	3VT2 725-2DE36-0AA0		1	1 unit	193	3.510
	4-pole	250	3VT2 725-2EE46-0AA0		1	1 unit	193	4.300

Accessories

Auxiliary switches and auxiliary releases

Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
V	Hz							kg
Auxiliary switches and alarm switches								
	Individual NO contacts							
	60 ... 500 AC/DC	50/60	3VT9 300-2AC10		1	1 unit	193	0.034
	5 ... 60 AC/DC	50/60	3VT9 300-2AC20		1	1 unit	193	0.035
	Individual NC contacts							
	60 ... 500 AC/DC	50/60	3VT9 300-2AD10		1	1 unit	193	0.043
	5 ... 60 AC/DC	50/60	3VT9 300-2AD20		1	1 unit	193	0.038
	Double contacts (2 x NO contacts)							
	60 ... 500 AC/DC	50/60	3VT9 300-2AE10		1	1 unit	193	0.048
	5 ... 60 AC/DC	50/60	3VT9 300-2AE20		1	1 unit	193	0.047
	Double contacts (NO contact and NC contact)							
	60 ... 500 AC/DC	50/60	3VT9 300-2AF10		1	1 unit	193	0.048
	5 ... 60 AC/DC	50/60	3VT9 300-2AF20		1	1 unit	193	0.045
	Double contacts (2 x NC contacts)							
	AC/DC 60 ... 500	50/60	3VT9 300-2AG10		1	1 unit	193	0.049
	5 ... 60 AC/DC	50/60	3VT9 300-2AG20		1	1 unit	193	0.048
	CO contacts							
	60 ... 250 AC/DC	50/60	3VT9 300-2AH10		1	1 unit	193	0.037
	5 ... 60 AC/DC	50/60	3VT9 300-2AH20		1	1 unit	193	0.028
	Leading contacts							
	60 ... 500 AC/DC	50/60	3VT9 300-2AJ00		1	1 unit	193	0.090

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

	Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	V	Hz							
Shunt releases									
	24, 40, 48 AC/DC	50/60		3VT9 300-1SC00		1	1 unit	193	0.155
	110 AC/DC	50/60		3VT9 300-1SD00		1	1 unit	193	0.150
	230, 400, 500 AC/220 DC	50/60		3VT9 300-1SE00		1	1 unit	193	0.151
Undervoltage releases									
	24, 40, 48 AC/DC	50/60		3VT9 300-1UC00		1	1 unit	193	0.151
	110 AC/DC	50/60		3VT9 300-1UD00		1	1 unit	193	0.145
	230, 400, 500 AC/220 DC	50/60		3VT9 300-1UE00		1	1 unit	193	0.149
	With leading contact¹⁾								
	24, 40, 48 AC/DC	50/60		3VT9 300-1UC10		1	1 unit	193	0.161
	110 AC/DC	50/60		3VT9 300-1UD10		1	1 unit	193	0.157
	230, 400, 500 AC/220 DC	50/60		3VT9 300-1UE10		1	1 unit	193	0.160

¹⁾ Not suitable for 3VT9 200-3M..0 motorized operating mechanism.

Manual operating mechanisms

	Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms									
	• Interlocking not available	Gray		3VT9 200-3HA10		1	1 unit	193	0.255
	• Lockable with padlock	Gray		3VT9 200-3HA20		1	1 unit	193	0.265
	• Lockable with padlock	Yellow label		3VT9 200-3HB20		1	1 unit	193	0.264
	• For lateral operation, mounted on left side, interlocking not available	Gray		3VT9 200-3HC10		1	1 unit	193	0.480
	• For lateral operation, mounted on right side, interlocking not available	Gray		3VT9 200-3HD10		1	1 unit	193	0.478
Handle for manual operating mechanism									
	• Interlocking not available	Black		3VT9 300-3HE10		1	1 unit	193	0.077
	• Lockable with padlock	Black		3VT9 300-3HE20		1	1 unit	193	0.081
	• Lockable with padlock	Red		3VT9 300-3HF20		1	1 unit	193	0.081
Coupling drivers for door-coupling operating mechanism									
For use with black handle 3VT9 300-3HE..									
	• Degree of protection IP40	Black		3VT9 300-3HG10		1	1 unit	193	0.208
	• Degree of protection IP66	Black		3VT9 300-3HG20		1	1 unit	193	0.202
For use with red handle 3VT9 300-3HF20									
	• Degree of protection IP40	Yellow		3VT9 300-3HH10		1	1 unit	193	0.201
	• Degree of protection IP66	Yellow		3VT9 300-3HH20		1	1 unit	193	0.206

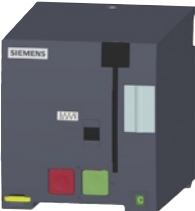
Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Extension shafts								
	• Length 365 mm, can be shortened		3VT9 300-3HJ10		1	1 unit	193	0.208
	• Length 245 ... 410 mm, extendable		3VT9 300-3HJ20		1	1 unit	193	0.261
								

Motorized operating mechanisms

	Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	V	Hz							kg
Motorized operating mechanisms with stored-energy mechanism									
	With locking mechanism for 3 padlocks, degree of protection IP00								
	24 AC/DC	50/60		3VT9 200-3MJ00		1	1 unit	193	7.750
	48 AC/DC	50/60		3VT9 200-3ML00		1	1 unit	193	1.544
	110 AC/DC	50/60		3VT9 200-3MN00		1	1 unit	193	1.570
	230 AC/220 DC	50/60		3VT9 200-3MQ00		1	1 unit	193	1.558
Motorized operating mechanism with counter									
	24 AC/DC	50/60		3VT9 200-3MJ10		1	1 unit	193	1.567
	48 AC/DC	50/60		3VT9 200-3ML10		1	1 unit	193	1.577
	110 AC/DC	50/60		3VT9 200-3MN10		1	1 unit	193	1.579
	230 AC/220 DC	50/60		3VT9 200-3MQ10		1	1 unit	193	1.579
Accessories for motorized operating mechanisms									
	Counter with cable, length 110 cm			3VT9 300-3MF10		1	1 unit	193	0.078
	Extension cables for motorized operating mechanism, 12 cables, length 60 cm			3VT9 300-3MF00		1	1 unit	193	0.068
									

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Mounting accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	Weight per PU approx. kg
Plug-in base assembly kits						
	3-pole	3VT9 200-4PA30		1	1 unit	193
	4-pole	3VT9 200-4PA40		1	1 unit	193
Withdrawable version						
	3-pole	3VT9 200-4WA30		1	1 unit	193
	4-pole	3VT9 200-4WA40		1	1 unit	193

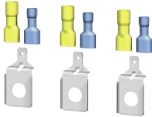
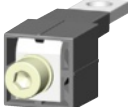
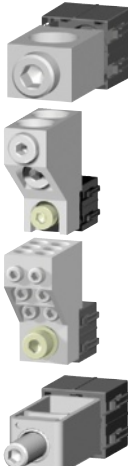
Connection accessories

Version	Conductor cross-section S mm ²	Connection type	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Connection combinations									
Connection combinations for 3-pole version									
	Front connecting bars								
	For increased pole spacing, short	--	Al/Cu busbars/ cable lugs, flexibars	3VT9 200-4ED30		1	1 unit	193	0.303
	For increased pole spacing, long	--	Al/Cu busbars/ cable lugs, flexibars	3VT9 200-4EE30		1	1 unit	193	0.483
	Front terminals	--	Al/Cu busbars/ cable lugs, flexibars	3VT9 200-4TA30		1	1 unit	193	0.123
	Rear terminals	--	Al/Cu busbars/ cable lugs	3VT9 200-4RC30		1	1 unit	193	0.268
Multiple feed-in terminals¹⁾									
	For 1 cable	1 x 25 ... 150	Cu/Al cables	3VT9 215-4TD30		1	1 unit	193	0.205
		1 x 150 ... 240	Cu/Al cables	3VT9 224-4TD30		1	1 unit	193	0.369
	For 2 cables	2 x 25 ... 150	Cu/Al cables	3VT9 215-4TF30		1	1 unit	193	0.482
		2 x 150 ... 240	Cu/Al cables	3VT9 224-4TF30		1	1 unit	193	0.626
	For 6 cable	6 x 6 ... 35	Cu/Al cables	3VT9 203-4TF30		1	1 unit	193	0.307

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

	Version	Conductor cross-section S mm ²	Connection type	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Auxiliary conductor terminals	1.5 ... 2.5; 4 ... 6	Flexible Cu conductor		3VT9 200-4TN30		1	1 unit	193	0.028
	Box terminals	16 ... 150	Cu cables, flexibars		3VT9 200-4TC30		1	1 unit	193	0.245
	Terminals for 4-pole version									
	Rear terminals	--	Al/Cu busbars/ cable lugs		3VT9 200-4RC00		1	1 unit	193	0.089
	Multiple feed-in terminals									
	For 1 cable	1 x 25 ... 150	Cu/Al cables		3VT9 215-4TD00		1	1 unit	193	0.076
		1 x 150 ... 240	Cu/Al cables		3VT9 224-4TD00		1	1 unit	193	0.128
	For 2 cables	2 x 25 ... 150	Cu/Al cables		3VT9 215-4TF00		1	1 unit	193	0.195
		2 x 150 ... 240	Cu/Al cables		3VT9 224-4TF00		1	1 unit	193	0.214
	For 6 cable	6 x 6 ... 35	Cu/Al cables		3VT9 203-4TF00		1	1 unit	193	0.115
	Box terminals	16 ... 150	Cu cables, flexibars		3VT9 200-4TC00		1	1 unit	193	0.096

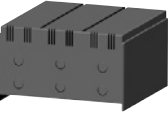
¹⁾ Use terminal cover 3VT9 200-8CB30 to increase termination point protection to IP20.

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT2 switch disconnectors up to 250 A

Further accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Phase barriers Included in scope of supply of switching unit. If infeed is from below, the units 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		3VT9 300-8CE30		1	1 unit	193	0.081
			3VT9 300-8CE00		1	1 unit	193	0.044
	Terminal covers, degree of protection IP20 Increases degree of protection of connection point to IP20 when using circular conductor terminals 3VT9 224-4TD30, 3VT9 215-4TF30, 3VT9 224-4TF30 or 3VT9 203-4TF30, designed for fixed-mounted, plug-in and withdrawable versions. • 3-pole version • 4-pole version		3VT9 200-8CB30		1	1 unit	193	0.140
			3VT9 200-8CB40		1	1 unit	193	0.205
	Locking devices for knob • 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 up to 6 mm.		3VT9 200-3HL00		1	1 unit	193	0.022
	Sealing devices Sealing for: • Overcurrent releases • Accessory compartment covers • Terminal covers • Manual operating mechanisms • Motorized operating mechanisms		3VT9 200-8BN00		1	1 unit	193	0.013
	Connecting cable For connecting switch disconnector accessories for withdrawable versions (can also be used for plug-in and fixed-mounted versions)		3VT9 300-4PL00		1	1 unit	193	0.168
	Position signaling switches For indicating the position of the switch disconnector in plug-in or withdrawable devices		3VT9 300-4WL00		1	1 unit	193	0.048
	Coding sets Prevents use of the wrong switching unit in plug-in or withdrawable devices		3VT9 200-4WN00		1	1 unit	193	0.015
	Covers for pushbuttons For motorized operating mechanisms; the cover may be equipped with a sealing device.		3VT9 300-3MF20		1	1 unit	193	0.016

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Selection and ordering data

Version	Rated current I_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A							kg

Switching units



Switch disconnectors

3-pole	630		3VT3 763-2DE36-0AA0		1	1 unit	193	6.197
4-pole	630		3VT3 763-2EE46-0AA0		1	1 unit	193	7.718

Accessories

Auxiliary switches and auxiliary releases

Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
V	Hz							kg

Auxiliary switches and alarm switches

Individual NO contacts

60 ... 500 AC/DC	50/60		3VT9 300-2AC10		1	1 unit	193	0.034
5 ... 60 AC/DC	50/60		3VT9 300-2AC20		1	1 unit	193	0.035



Individual NC contacts

60 ... 500 AC/DC	50/60		3VT9 300-2AD10		1	1 unit	193	0.043
5 ... 60 AC/DC	50/60		3VT9 300-2AD20		1	1 unit	193	0.038



Double contacts (2 x NO contacts)

60 ... 500 AC/DC	50/60		3VT9 300-2AE10		1	1 unit	193	0.048
5 ... 60 AC/DC	50/60		3VT9 300-2AE20		1	1 unit	193	0.047



Double contacts (NO contact and NC contact)

60 ... 500 AC/DC	50/60		3VT9 300-2AF10		1	1 unit	193	0.048
5 ... 60 AC/DC	50/60		3VT9 300-2AF20		1	1 unit	193	0.045

Double contacts (2 x NC contacts)

60 ... 500 AC/DC	50/60		3VT9 300-2AG10		1	1 unit	193	0.049
5 ... 60 AC/DC	50/60		3VT9 300-2AG20		1	1 unit	193	0.048



CO contacts

60 ... 250 AC/DC	50/60		3VT9 300-2AH10		1	1 unit	193	0.037
5 ... 60 AC/DC	50/60		3VT9 300-2AH20		1	1 unit	193	0.028



Leading contacts

60 ... 500 AC/DC	50/60		3VT9 300-2AJ00		1	1 unit	193	0.090
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Switch Disconnectors

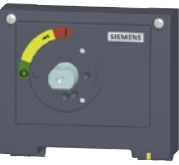
3VT switch disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

	Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	V	Hz							
Shunt releases									
	24, 40, 48 AC/DC	50/60		3VT9 300-1SC00		1	1 unit	193	0.155
	110 AC/DC	50/60		3VT9 300-1SD00		1	1 unit	193	0.150
	230, 400, 500 AC/220 DC	50/60		3VT9 300-1SE00		1	1 unit	193	0.151
Undervoltage releases									
	24, 40, 48 AC/DC	50/60		3VT9 300-1UC00		1	1 unit	193	0.151
	110 AC/DC	50/60		3VT9 300-1UD00		1	1 unit	193	0.145
	230, 400, 500 AC/220 DC	50/60		3VT9 300-1UE00		1	1 unit	193	0.149
	with leading contact ¹⁾								
	24, 40, 48 AC/DC	50/60		3VT9 300-1UC10		1	1 unit	193	0.161
	110 AC/DC	50/60		3VT9 300-1UD10		1	1 unit	193	0.157
	230, 400, 500 AC/220 DC	50/60		3VT9 300-1UE10		1	1 unit	193	0.160

¹⁾ Not suitable for 3VT9 300-3M..0 motorized operating mechanism.

Manual operating mechanisms

	Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms									
	Rotary operating mechanisms								
	• Interlocking not available	Gray		3VT9 300-3HA10		1	1 unit	193	0.319
	• Lockable with padlock	Gray		3VT9 300-3HA20		1	1 unit	193	0.345
	• Lockable with padlock	Yellow label		3VT9 300-3HB20		1	1 unit	193	0.326
	• For lateral operation, mounted on left side, interlocking not available	Gray		3VT9 300-3HC10		1	1 unit	193	0.517
	• For lateral operation, mounted on right side, interlocking not available	Gray		3VT9 300-3HD10		1	1 unit	193	0.521
Handle for manual operating mechanism									
	• Interlocking not available	Black		3VT9 300-3HE10		1	1 unit	193	0.077
	• Lockable with padlock	Black		3VT9 300-3HE20		1	1 unit	193	0.081
	• Lockable with padlock	Red		3VT9 300-3HF20		1	1 unit	193	0.081
Coupling drivers for door-coupling operating mechanism									
	For use with black handle 3VT9 300-3HE10 or 3VT9 300-3HE20								
	• Degree of protection IP40	Black		3VT9 300-3HG10		1	1 unit	193	0.208
	• Degree of protection IP66	Black		3VT9 300-3HG20		1	1 unit	193	0.202
	For use with red handle 3VT9 300-3HF20								
	• Degree of protection IP40	Yellow		3VT9 300-3HH10		1	1 unit	193	0.201
	• Degree of protection IP66	Yellow		3VT9 300-3HH20		1	1 unit	193	0.206

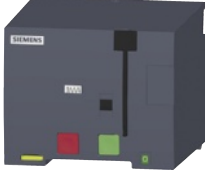
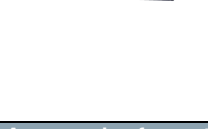
Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Version	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Extension shafts								
	• Length 365 mm, can be shortened		3VT9 300-3HJ10		1	1 unit	193	0.208
	• Length 245 ... 410 mm, extendable		3VT9 300-3HJ20		1	1 unit	193	0.261
								

Motorized operating mechanisms

Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
V	Hz							
Motorized operating mechanism with stored-energy mechanism								
	With locking mechanism for 3 padlocks, degree of protection IP00							
	24 AC/DC ¹⁾	50/60	3VT9 300-3MJ00		1	1 unit	193	1.701
	48 AC/DC	50/60	3VT9 300-3ML00		1	1 unit	193	1.721
	110 AC/DC	50/60	3VT9 300-3MN00		1	1 unit	193	1.724
	230 V AC/220 DC	50/60	3VT9 300-3MQ00		1	1 unit	193	1.728
	Motorized operating mechanism with counter							
	24 AC/DC ¹⁾	50/60	3VT9 300-3MJ10		1	1 unit	193	1.748
	48 AC/DC	50/60	3VT9 300-3ML10		1	1 unit	193	1.883
	110 AC/DC	50/60	3VT9 300-3MN10		1	1 unit	193	1.759
	230 V AC/220 DC	50/60	3VT9 300-3MQ10		1	1 unit	193	1.815
Accessories for motorized operating mechanisms								
	Counter with cable length 110 cm		3VT9 300-3MF10		1	1 unit	193	0.078
								
Extension cables for motorized operating mechanism 12 cables, length 60 cm			3VT9 300-3MF00		1	1 unit	193	0.068

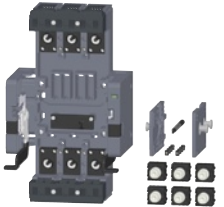
* You can order this quantity or a multiple thereof.

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Mounting accessories

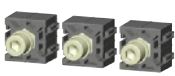
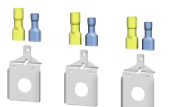
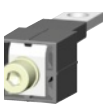
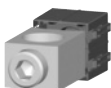
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Plug-in base assembly kits							
	3-pole	3VT9 300-4PA30		1	1 unit	193	3.230
	4-pole	3VT9 300-4PA40		1	1 unit	193	4.183
Withdrawable version							
	3-pole	3VT9 300-4WA30		1	1 unit	193	5.007
	4-pole	3VT9 300-4WA40		1	1 unit	193	5.827

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Connection accessories

	Version	Max. permissible cross-section S mm ²	Connection type	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection combinations										
	Connection combinations for 3-pole version									
	Front connecting bars									
	For increased pole spacing, short	--	Al/Cu busbars/ cable lugs, flexibars		3VT9 300-4ED30		1	1 unit	193	0.507
	For increased pole spacing, long	--	Al/Cu busbars/ cable lugs, flexibars		3VT9 300-4EE30		1	1 unit	193	0.647
	Front terminals									
	Included in scope of supply of all switching units	--	Al/Cu busbars/ cable lugs, flexibars		3VT9 300-4TA30		1	1 unit	193	0.205
	Rear terminals									
		--	Al/Cu busbars, cable lugs		3VT9 300-4RC30		1	1 unit	193	0.556
	Multiple feed-in terminals¹⁾									
	For 1 cable	1 x 25 ... 150	Cu/Al cables		3VT9 315-4TD30		1	1 unit	193	0.313
		1 x 150 ... 240	Cu/Al cables		3VT9 324-4TD30		1	1 unit	193	0.311
	For 2 cables	2 x 25 ... 150	Cu/Al cables		3VT9 315-4TF30		1	1 unit	193	0.924
		2 x 150 ... 240	Cu/Al cables		3VT9 324-4TF30		1	1 unit	193	0.840
	For 6 cable	6 x 6 ... 35	Cu/Al cables		3VT9 303-4TF30		1	1 unit	193	0.308
	Auxiliary conductor terminals									
	1.5 ... 2.5; 4 ... 6		Flexible Cu conductor		3VT9 300-4TN30		1	1 unit	193	0.033
	Box terminals									
	35 ... 240		Cu cables, flexibars		3VT9 300-4TC30		1	1 unit	193	0.470
	Terminals for 4-pole version									
	Rear terminals									
		--	Al/Cu busbars, cable lugs		3VT9 300-4RC00		1	1 unit	193	0.210
	Multiple feed-in terminals									
	For 1 cable	1 x 25 ... 150	Cu/Al cables		3VT9 315-4TD00		1	1 unit	193	0.133
		1 x 150 ... 240	Cu/Al cables		3VT9 324-4TD00		1	1 unit	193	0.118
	For 2 cables	2 x 25 ... 150	Cu/Al cables		3VT9 315-4TF00		1	1 unit	193	0.318
		2 x 150 ... 240	Cu/Al cables		3VT9 324-4TF00		1	1 unit	193	0.286
	For 6 cable	6 x 6 ... 35	Cu/Al cables		3VT9 303-4TF00		1	1 unit	193	0.119
	Box terminals									
	35 ... 240		Cu cables, flexibars		3VT9 300-4TC00		1	1 unit	193	0.171

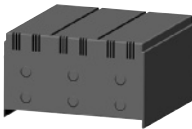
¹⁾ Use terminal cover 3VT9 300-8CB30 to increase termination point protection to IP20.

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT3 switch disconnectors up to 630 A

Further accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Phase barriers Included in scope of supply of switching unit. If infeed is from below, the units 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		3VT9 300-8CE30		1	1 unit	193	0.081
			3VT9 300-8CE00		1	1 unit	193	0.044
	Terminal covers, degree of protection IP20 Increases degree of protection of connection point to IP20 when using block terminals 3VT9 224-4TD30, 3VT9 215-4TF30, 3VT9 224-4TF30 or 3VT9 203-4TF30, designed for fixed-mounted, plug-in and withdrawable versions. • 3-pole version • 4-pole version		3VT9 300-8CB30		1	1 unit	193	0.217
			3VT9 300-8CB40		1	1 unit	193	0.289
	Locking devices for knob • 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 up to 6 mm.		3VT9 300-3HL00		1	1 unit	193	0.027
	Sealing devices Sealing for: • Overcurrent releases • Accessory compartment covers • Terminal covers • Manual operating mechanisms • Motorized operating mechanisms		3VT9 200-8BN00		1	1 unit	193	0.013
	Connecting cable For connecting switch disconnector accessories for withdrawable versions (can also be used for plug-in and fixed-mounted versions)		3VT9 300-4PL00		1	1 unit	193	0.168
	Position signaling switches For indicating the position of the switch disconnector in plug-in or withdrawable devices		3VT9 300-4WL00		1	1 unit	193	0.048
	Coding sets Prevents use of the wrong switching unit in plug-in or withdrawable devices		3VT9 300-4WN00		1	1 unit	193	0.017
	Covers for pushbuttons For motorized operating mechanisms; the cover may be equipped with a sealing device.		3VT9 300-3MF20		1	1 unit	193	0.016

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT4 switch disconnectors up to 1000 A

Selection and ordering data									
Version		Rated current I_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		A							
Switching units									
Fixed-mounted version									
	3-pole	1000		3VT4 710-2DE36-0AA0		1	1 unit	193	18.808

For accessories [see "3VT5 switch disconnectors up to 1600 A" on next page](#)

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Selection and ordering data

Version	Rated current I_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A							
Switching units								
Fixed-mounted version								
	3-pole	1600	3VT5 716-2DE36-0AA0		1	1 unit	193	21.142

Accessories

Auxiliary switches and shunt releases

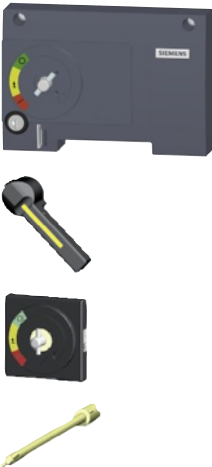
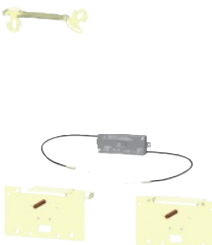
Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
V	Hz							
Auxiliary switches and alarm switches								
	2 x NC, 2 x NO							
	60 ... 500 AC / 60 ... 240 DC	50/60	3VT9 500-2AF10		1	1 unit	193	0,065
	5 ... 60 AC/DC	50/60	3VT9 500-2AF20		1	1 unit	193	0,069
Shunt releases								
	24 AC/DC	50/60	3VT9 500-1SF00		1	1 unit	193	0.229
	48 AC/DC	50/60	3VT9 500-1SG00		1	1 unit	193	0.223
	110 AC/DC	50/60	3VT9 500-1SH00		1	1 unit	193	0.230
	230 AC/220 DC	50/60	3VT9 500-1SJ00		1	1 unit	193	0.231
	400 AC	50/60	3VT9 500-1SK00		1	1 unit	193	0.233
	500 AC	50/60	3VT9 500-1SL00		1	1 unit	193	0.237
Undervoltage releases								
	24 AC/DC	50/60	3VT9 500-1UF00		1	1 unit	193	0.236
	48 AC/DC	50/60	3VT9 500-1UG00		1	1 unit	193	0.243
	110 AC/DC	50/60	3VT9 500-1UH00		1	1 unit	193	0.238
	230 AC/220 DC	50/60	3VT9 500-1UJ00		1	1 unit	193	0.241
	400 AC	50/60	3VT9 500-1UK00		1	1 unit	193	0.237
	500 AC	50/60	3VT9 500-1UL00		1	1 unit	193	0.236

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Manual operating mechanisms

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Rotary operating mechanisms							
	Rotary operating mechanisms • Lockable with padlock	3VT9 500-3HA10		1	1 unit	193	1.160
	Actuator lever Lockable with padlock • Black • Red	3VT9 500-3HE10 3VT9 500-3HF10		1 1	1 unit 1 unit	193 193	0.290 0.294
	Coupling drivers • IP44 degree of protection • Degree of protection IP66	3VT9 500-3HG10 3VT9 500-3HG20		1 1	1 unit 1 unit	193 193	0.280 0.295
	Extension shaft Length 365 mm	3VT9 500-3HJ10		1	1 unit	193	0.359
	Mechanical interlocks						
	Mechanical interlock for manual operating mechanism For switch disconnectors, fixed-mounted versions Both switch disconnectors must be equipped with one manual operating mechanism and one knob as a minimum.	3VT9 500-8LA00		1	1 unit	193	0.178
	Mechanical interlock by means of Bowden wire Mechanical interlock by means of Bowden wire is intended for withdrawable and fixed-mounted versions • For switch disconnectors, fixed-mounted versions	3VT9 500-8LC10		1	1 unit	193	2.808

Motorized operating mechanisms

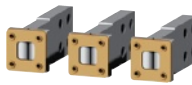
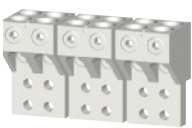
Rated operational voltage U_s	Frequency	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
V	Hz							
Motorized operating mechanisms								
	Motorized operating mechanism 110 AC/DC 50/60 230 V AC/220 DC 50/60		3VT9 500-3MN00		1	1 unit	193	4.446
			3VT9 500-3MQ00		1	1 unit	193	4.479
	Motorized operating mechanism with counter 110 AC/DC 50/60 230 V AC/220 DC 50/60		3VT9 500-3MN10		1	1 unit	193	4.619
			3VT9 500-3MQ10		1	1 unit	193	4.490

Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Connection accessories

	Version	Max. permissible cross-section S mm ²	Cable type	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection combinations										
	Box terminals, double	2 x 70 ... 240	Cu/Al cables		3VT9 524-4TG30		1	1 unit	193	1.413
	In order to connect four 70 ... 240 mm ² cables, two 3VT9 524-4TG30 connection combinations can be used. Not for switching unit 3VT4 710-3AA30-0AA0.									
	Box terminals	70 ... 240 mm	Cu/Al cables		3VT9 524-4TF30		1	1 unit	193	0.756
	In order to connect three 70 ... 240 mm ² cables it is possible to combine connection combinations 3VT9 524-4TF30 and 3VT9 524-4TF30 with one another.									
	Rear terminals									
	• Up to 1000 A	--	Busbars		3VT9 400-4RC30		1	1 unit	193	1.416
	• Up to 1600 A	--	Busbars		3VT9 500-4RC30		1	1 unit	193	2.677
	Front terminals For withdrawable version	--	Busbars		3VT9 500-4EF30		1	1 unit	193	2.616
	Rear terminals For withdrawable version	--	Busbars		3VT9 500-4RD30		1	1 unit	193	3.200
Terminals for circular conductors										
	• For 2 cables	150 ... 300	Cu/Al cables		3VT9 532-4TF30		1	1 unit	193	1,050
	• For 3 cables	150 ... 300	Cu/Al cables		3VT9 533-4TF30		1	1 unit	193	1.965
	• For 4 cables	150 ... 300	Cu/Al cables		3VT9 534-4TF30		1	1 unit	193	1.835

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Switch Disconnectors

3VT switch disconnectors up to 1600 A

3VT5 switch disconnectors up to 1600 A

Further accessories

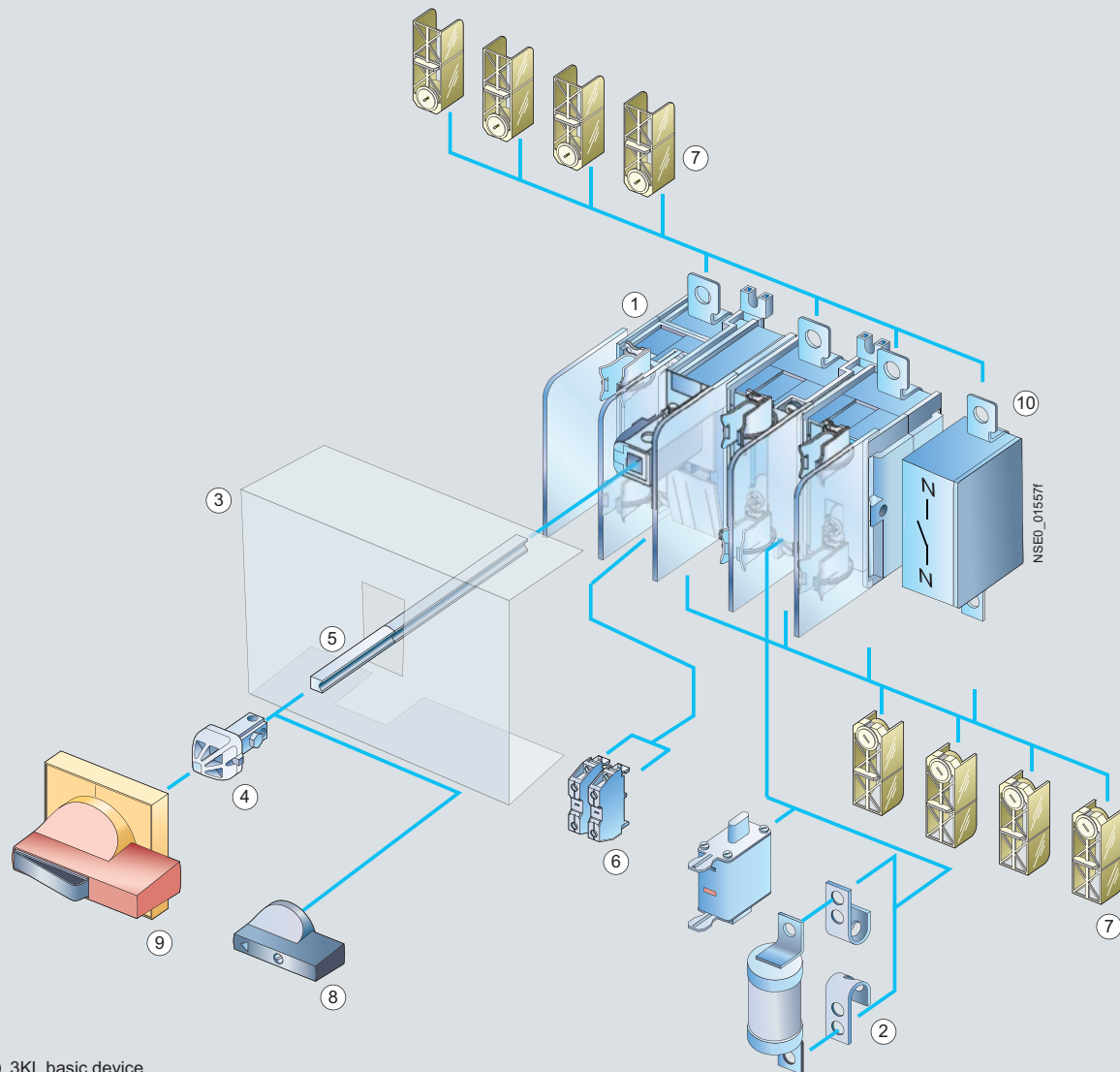
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Accessories							
	Phase barriers In the case of a reversed connection (supply via terminals 2, 4 and 6) the phase barriers must also be installed on the underside. Not included in all switching units for the fixed-mounted version. For switching units, fixed-mounted versions	3VT9 500-8CE30	1	1 unit	193	0.273	
	For withdrawable versions	3VT9 500-8CF30	1	1 unit	193	0.243	
	Terminal covers Increases the degree of protection to IP20. Designed for withdrawable versions with front terminals. To improve safety during maintenance of the electrical device, we recommend installation of a terminal cover on both sides of the withdrawable device. - For fixed-mounted versions with rear terminals - For withdrawable versions with front terminals	3VT9 500-8CD30 3VT9 500-8CC30	1 1	1 unit 1 unit	193 193	0.403 0.225	
	Insulator seals Designed for fixed-mounted and withdrawable versions of switching units with rear terminals. The insulation seals are used to insulate the connection combinations for rear connection of the switchgear. Installation is recommended for all connection combinations with rear terminals. For rear terminals	3VT9 500-8CG30	1	1 unit	193	0.178	
	Locking devices for knob Allows switch disconnector to be locked in the "manual off" position. For locking purposes up to three padlocks with a max. diameter of 4 ... 6 mm can be used.	3VT9 500-3HL00	1	1 unit	193	0,052	
	Sealing devices Sealing for: - Overcurrent releases - Accessory compartment covers	3VT9 500-8BN00	1	1 unit	193	0,016	
	Fixing screws For withdrawable versions	3VT9 500-4SA40	1	1 unit	193	0.110	
	Covers for pushbuttons In the case of motorized operating mechanisms the cover is sealable.	3VT9 500-3MF20	1	1 unit	193	0,032	

Switch Disconnectors

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-grey) or EMERGENCY-STOP version (red/yellow)
- ⑩ 4th pole (optional)

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

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

Application

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

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

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Introduction

Technical specifications

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

¹⁾ Technical specifications for approval on request.

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

³⁾ 110 V (one conducting path).

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

⁵⁾ With 3ND1 switchgear protection fuse.

⁶⁾ AC-23B.

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

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

⁹⁾ Only DC-22A (L/R = 2.5 ms).

¹⁰⁾ At 440 V DC-22A, at 220 V DC-23A.

Note:

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

Switch Disconnectors

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 included in the scope of supply.

Rated uninterrupted current I_u	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A	Size	Operational class						kg
Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)								
3-pole for NH fuse systems								
63	00 and 000	gG, aM	3KL50 30-1GB01		1	1 unit	103	1.469
125	00 and 000	gG, aM	3KL52 30-1GB01		1	1 unit	103	2.369
160	00 and 000	gG, aM	3KL53 30-1GB01		1	1 unit	103	2.500
250	1 and 2	gG, aM	3KL55 30-1GB01		1	1 unit	103	6.043
400	2 and 1	gG, aM	3KL57 30-1GB01		1	1 unit	103	6.248
630	3 and 2	gG, aM	3KL61 30-1GB00		1	1 unit	113	18.680
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL61 30-1GB02		1	1 unit	113	16.207
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL62 30-1GB02		1	1 unit	113	17.271
4-pole for NH fuse systems								
63	00 and 000	gG, aM	3KL50 40-1GB01		1	1 unit	103	2.578
125	00 and 000	gG, aM	3KL52 40-1GB01		1	1 unit	103	2.592
160	00 and 000	gG, aM	3KL53 40-1GB01		1	1 unit	103	2.733
250	1 and 2	gG, aM	3KL55 40-1GB01		1	1 unit	103	6.618
400	2 and 1	gG, aM	3KL57 40-1GB01		1	1 unit	103	6.836
630	3 and 2	gG, aM	3KL61 40-1GB00		1	1 unit	113	17.340
3-pole for fuses acc. to BS 88								
63	Form A2/A3		3KL50 30-1GG01		1	1 unit	103	1.391
125	Form A2/A3		3KL52 30-1GG01		1	1 unit	103	2.325
125	Form A4		3KL52 30-1GJ01		1	1 unit	103	2.351
160	Form A4		3KL53 30-1GJ01		1	1 unit	103	2.522
250	Form B1-B3		3KL55 30-1GG01		1	1 unit	103	4.500
400	Form B1-B3		3KL57 30-1GG01		1	1 unit	103	6.538
630	Form C1-C3		3KL61 30-1GG00		1	1 unit	113	17.880
800	Form C1-C3		3KL62 30-1GG00		1	1 unit	113	16.576
4-pole for fuses acc. to BS 88								
63	Form A2/A3		3KL50 40-1GG01		1	1 unit	103	2.529
125	Form A2/A3		3KL52 40-1GG01		1	1 unit	103	2.522
125	Form A4		3KL52 40-1GJ01		1	1 unit	103	2.603
160	Form A4		3KL53 40-1GJ01		1	1 unit	103	2.749
250	Form B1-B3		3KL55 40-1GG01		1	1 unit	103	6.616
400	Form B1-B3		3KL57 40-1GG01		1	1 unit	103	7.090
630	Form C1-C3		3KL61 40-1GG00		1	1 unit	113	16.996
Basic switch versions without handle								
3-pole for NH fuse systems								
63	00 and 000	gG, aM	3KL50 30-1AB01		1	1 unit	103	1.014
125	00 and 000	gG, aM	3KL52 30-1AB01		1	1 unit	103	1.965
160	00 and 000	gG, aM	3KL53 30-1AB01		1	1 unit	103	2.140
250	1 and 2	gG, aM	3KL55 30-1AB01		1	1 unit	103	5.044
400	2 and 1	gG, aM	3KL57 30-1AB01		1	1 unit	103	5.390
630	3 and 2	gG, aM	3KL61 30-1AB0		1	1 unit	113	17.640
630 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL61 30-1AB02		1	1 unit	113	14.720
800 ³⁾	3 and 2 ³⁾	gG, aM ³⁾	3KL62 30-1AB02		1	1 unit	113	16.120
4-pole for NH fuse systems								
63	00 and 000	gG, aM	3KL50 40-1AB01		1	1 unit	103	2.169
125	00 and 000	gG, aM	3KL52 40-1AB01		1	1 unit	103	2.125
160	00 and 000	gG, aM	3KL53 40-1AB01		1	1 unit	103	2.344
250	1 and 2	gG, aM	3KL55 40-1AB01		1	1 unit	103	5.577
400	2 and 1	gG, aM	3KL57 40-1AB01		1	1 unit	103	5.880
630	3 and 2	gG, aM	3KL61 40-1AB00		1	1 unit	113	16.520
3-pole for fuses acc. to BS 88								
63	Form A2/A3		3KL50 30-1AG01		1	1 unit	103	0.975
125	Form A2/A3		3KL52 30-1AG01		1	1 unit	103	1.939
125	Form A4		3KL52 30-1AJ01		1	1 unit	103	1.975
160	Form A4		3KL53 30-1AJ01		1	1 unit	103	2.170
250	Form B1-B3		3KL55 30-1AG01		1	1 unit	103	5.051
400	Form B1-B3		3KL57 30-1AG01		1	1 unit	103	5.666
630	Form C1-C3		3KL61 30-1AG00		1	1 unit	113	15.075
800	Form C1-C3		3KL62 30-1AG00		1	1 unit	113	10.100



Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO signaling contact, [see chapter 5 "Fuse Systems"](#).

Footnotes [see page 7/71](#).

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Floor mounting

	Rated uninterrupted current I_u	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	Size	Operational class							kg
	4-pole for fuses acc. to BS 88									
	63	Form A2/A3			3KL50 40-1AG01		1	1 unit	103	2.075
	125	Form A2/A3			3KL52 40-1AG01		1	1 unit	103	2.161
	125	Form A4			3KL52 40-1AJ01		1	1 unit	103	2.230
	160	Form A4			3KL53 40-1AJ01		1	1 unit	103	2.390
	250	Form B1-B3			3KL55 40-1AG01		1	1 unit	103	5.624
	400	Form B1-B3			3KL57 40-1AG01		1	1 unit	103	6.134
3KL52 40-1AJ01 with fuses	630	Form C1-C3			3KL61 40-1AG00		1	1 unit	113	17.020
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle										
	3-pole for NH fuse systems									
	63	00 and 000	gG, aM		8UC71 21-3BB10		1	1 unit	103	0.368
	125	00 and 000	gG, aM		8UC72 22-3BB20		1	1 unit	103	0.423
	160	00 and 000	gG, aM		8UC72 22-3BB20		1	1 unit	103	0.423
	250	1 and 2	gG, aM		8UC73 23-3BB30		1	1 unit	103	1.000
	400	2 and 1	gG, aM		8UC73 23-3BB30		1	1 unit	103	1.000
	630	3 and 2	gG, aM		8UC74 24-3BB44		1	1 unit	103	1.200
					+ 8UC92 53		1	1 unit	103	0.113
	800	3 and 2	gG, aM		8UC74 24-3BB44		1	1 unit	103	1.200
					+ 8UC92 53		1	1 unit	103	0.113
	4-pole for NH fuse systems									
	63	00 and 000	gG, aM		8UC72 22-3BB20		1	1 unit	103	0.423
	125	00 and 000	gG, aM		8UC72 22-3BB20		1	1 unit	103	0.423
	160	00 and 000	gG, aM		8UC72 22-3BB20		1	1 unit	103	0.423
250	1 and 2	gG, aM		8UC73 23-3BB30		1	1 unit	103	1.000	
400	2 and 1	gG, aM		8UC73 23-3BB30		1	1 unit	103	1.000	
630	3 and 2	gG, aM		8UC74 24-3BB44		1	1 unit	103	1.200	
				+ 8UC92 53		1	1 unit	103	0.113	
3-pole for fuses acc. to BS 88										
63	Form A2/A3				8UC71 21-3BB10		1	1 unit	103	0.368
125	Form A2/A3				8UC72 22-3BB20		1	1 unit	103	0.423
125	Form A4				8UC72 22-3BB20		1	1 unit	103	0.423
160	Form A4				8UC72 22-3BB20		1	1 unit	103	0.423
250	Form B1-B3				8UC73 23-3BB30		1	1 unit	103	1.000
400	Form B1-B3				8UC73 23-3BB30		1	1 unit	103	1.000
630	Form C1-C3				8UC74 24-3BB44		1	1 unit	103	1.200
					+ 8UC92 53		1	1 unit	103	0.113
800	Form C1-C3				8UC74 24-3BB44		1	1 unit	103	1.200
					+ 8UC92 53		1	1 unit	103	0.113
4-pole for fuses acc. to BS 88										
63	Form A2/A3				8UC72 22-3BB20		1	1 unit	103	0.423
125	Form A2/A3				8UC72 22-3BB20		1	1 unit	103	0.423
125	Form A4				8UC72 22-3BB20		1	1 unit	103	0.423
160	Form A4				8UC72 22-3BB20		1	1 unit	103	0.423
250	Form B1-B3				8UC73 23-3BB30		1	1 unit	103	1.000
400	Form B1-B3				8UC73 23-3BB30		1	1 unit	103	1.000
630	Form C1-C3				8UC74 24-3BB44		1	1 unit	103	1.200
					+ 8UC92 53		1	1 unit	103	0.113

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

Footnotes for pages 7/70 and 7/71:

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

²⁾ For the assignment of semiconductor fuses see page 7/75.

³⁾ With SITOR 3NE fuse links cULus-approved.

Switch Disconnectors

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 included in the scope of supply.

Rated uninterrupted current I_u	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A	Size	Operational class						kg
Assembly kits (IP40) comprising: lockable handle, cover for NH fuse systems (locked in ON state) and three terminal covers for infeed side for basic switch versions without handle								
3-pole, assembly kits for mounting in control cabinet side panels								
• Black handle								
63	00	gG, aM	3KX3 516-3AA		1	1 unit	103	0.667
125	00	gG, aM	3KX3 526-3AA		1	1 unit	103	0.840
160	00	gG, aM	3KX3 536-3AA		1	1 unit	103	0.850
250	1 and 2	gG, aM	3KX3 556-3AA		1	1 unit	103	1.670
400	2 and 1	gG, aM	3KX3 556-3AA		1	1 unit	103	1.670
• EMERGENCY-STOP red handle								
63	00	gG, aM	3KX3 516-3BA		1	1 unit	103	0.625
125	00	gG, aM	3KX3 526-3BA		1	1 unit	103	0.800
160	00	gG, aM	3KX3 536-3BA		1	1 unit	103	0.870
250	1 and 2	gG, aM	3KX3 556-3BA		1	1 unit	103	1.670
400	2 and 1	gG, aM	3KX3 556-3BA		1	1 unit	103	1.670

Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO signaling contact, [see chapter 5 "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 7/75](#).

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

Selection and ordering data

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
3KL50 30								
	Terminal covers For 3-pole devices (1 set = 6 units)	▶	3KX3 552-3DA01		1	1 unit	103	0.078
	Fuse covers (interlock only detachable in the OFF position)	▶	3KX3 517-3AA		1	1 unit	103	0.065
3KX3 5.7-3AA								
	Cover IP20 For 3-pole devices	▶	3KX3 507-0CA02		1	1 unit	103	0.530
3KX3 507-0BA01								
	Fuse partitions (1 set = 5 units)	▶	3KX3 507-0AA01		1	1 unit	103	0.040
	Lyre-shaped fuse covers (1 set = 6 units)		3KX3 507-0BA01		1	1 unit	103	0.032
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC71 11-1BB10 8UC71 21-3BB10		1 1	1 unit 1 unit	103 103	0.358 0.368
	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3 516-1AA		1	1 unit	103	0.102
	Extension shaft 300 mm long		8UC60 31		1	1 unit	103	0.068
	Extension shaft 600 mm long		8UC60 81		1	1 unit	103	0.136
	Shaft connecting pieces		8UC60 21		1	1 unit	103	0.027
	Auxiliary switches 1 NO + 1 NC 2 NO 2 NC		3SB14 00-0A 3SB14 00-0G 3SB14 00-0H		1 1 1	1 unit 1 unit 1 unit	41J 41J 41J	0.019 0.019 0.020
3SB14 00-0A								
	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA		1	1 unit	103	0.022
3KL50 40/3KL52/3KL53								
	Terminal covers For 3-pole devices (1 set = 6 units)		3KX3 552-3DA01		1	1 unit	103	0.078
3KX3 552-3DA01	• 3KL52	▶	3KX3 552-3DA01		1	1 unit	103	0.078
	• 3KL53	▶	3KX3 553-3DA01		1	1 unit	103	0.151
	For 4-pole devices (1 set = 8 units)							
	• 3KL50 40, 3KL52		3KX3 552-3DB01		1	1 unit	103	0.107
	• 3KL53		3KX3 553-3DB01		1	1 unit	103	0.174
	Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶	3KX3 527-3AA		1	1 unit	103	0.070
3KX3 5.7-3AA								
	Cover IP20 For 3KL52 3-pole devices	▶	3KX3 527-0CA02		1	1 unit	103	0.745
	Cover IP20 For 3KL53 3-pole devices	▶	3KX3 537-0CA02		1	1 unit	103	0.725
	Fuse partitions (1 set = 5 units)	▶	3KX3 507-0AA01		1	1 unit	103	0.040
	Lyre-shaped fuse covers (1 set = 6 units)		3KX3 507-0BA01		1	1 unit	103	0.032
3KX3 507-0BA01								

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

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3SB14 00-0A	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC72 12-1BB20		1	1 unit	103	0.424
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC72 22-3BB20		1	1 unit	103	0.423
	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶	3KX3 536-1AA		1	1 unit	103	0.150
	Extension shaft 300 mm long		8UC60 32		1	1 unit	103	0.135
	Extension shaft 600 mm long		8UC60 82		1	1 unit	103	0.265
	Shaft connecting pieces		8UC60 22		1	1 unit	103	0.022
	Auxiliary switches 1 NO + 1 NC		3SB14 00-0A		1	1 unit	41J	0.019
	2 NO		3SB14 00-0G		1	1 unit	41J	0.019
	2 NC		3SB14 00-0H		1	1 unit	41J	0.020
	1 NO + 1 NC, 20 ms leading		3KX3 552-3EA01		1	1 unit	103	0.022
 3KX3 557-3AA	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA		1	1 unit	103	0.022
	3KL55/3KL57							
	Terminal covers For 3-pole devices (1 set = 6 units)	▶	3KX3 557-3DA01		1	1 unit	103	0.316
	For 4-pole devices (1 set = 8 units)		3KX3 557-3DB01		1	1 unit	103	0.389
	Fuse covers (interlock only detachable in the OFF position)	▶	3KX3 557-3AA		1	1 unit	103	0.231
	Cover IP20 For 3-pole devices	▶	3KX3 557-0CA02		1	1 unit	103	1.255
	Fuse partitions (1 set = 5 units)	▶	3KX3 557-0AA01		1	1 unit	103	0.122
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC73 13-1BB30		1	1 unit	103	0.998
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC73 23-3BB30		1	1 unit	103	1.000
	Operating mechanisms for fixed mounting, size 3 Black handle, shaft 250 mm	▶	3KX3 176-1E		1	1 unit	103	0.287
 3KX3 176-1E	Extension shaft 300 mm long		8UC60 33		1	1 unit	103	0.215
	Extension shaft 600 mm long		8UC60 83		1	1 unit	103	0.424
	Shaft connecting pieces		8UC60 23		1	1 unit	103	0.083
	Auxiliary switches 1 NO + 1 NC		3SB14 00-0A		1	1 unit	41J	0.019
	2 NO		3SB14 00-0G		1	1 unit	41J	0.019
	2 NC		3SB14 00-0H		1	1 unit	41J	0.020
	1 NO + 1 NC, 20 ms leading		3KX3 552-3EA01		1	1 unit	103	0.022
	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA		1	1 unit	103	0.022
	3KL61/3KL62							
	Terminal covers For 3-pole devices (1 set = 6 units)	▶	3KX3 561-3DA01		1	1 unit	103	0.282
 8UC92 53	For 4-pole devices (1 set = 8 units)		3KX3 561-3DB01		1	1 unit	103	0.360
	Fuse covers Cover plate		3KX3 561-0AA00		1	1 unit	113	0.372
	Complete covers ¹⁾		3KX3 561-1AA00		1	1 unit	113	0.408
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm		8UC74 14-1BB44		1	1 unit	103	1.228
		▶	+ 8UC92 53		1	1 unit	103	0.113
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC74 24-3BB44		1	1 unit	103	1.200
		▶	+ 8UC92 53		1	1 unit	103	0.113
	Operating mechanisms for fixed mounting, size 5 Black handle, shaft 250 mm	▶	3KX3 616-1A		1	1 unit	103	0.500
	Extension shaft 300 mm long		8UC60 34		1	1 unit	103	0.316
	Extension shaft 600 mm long		8UC60 84		1	1 unit	103	0.628
	Shaft connecting pieces		8UC60 24		1	1 unit	103	0.078
	Auxiliary switches²⁾ 1 NO + 1 NC		3KX3 612-1B		1	1 unit	113	0.130

¹⁾ Only for NH fuse systems

²⁾ For more 3SB34 00-0, contact blocks with other contact types, see catalog IC 10, chapter 10 "Pushbutton Units and Indicator Lights"

Switch Disconnectors

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 5](#). LV HRC design fuses for SITOR semiconductor protection 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 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 fuses for 3KL fuse switch disconnectors: Assignment table

SITOR fuse data						Permissible rated currents of fuse when installed in 3KL for floor mounting					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu	Type 3KL			Alternative type - 3KL		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ³⁾
	A	V AC			mm ²			A			A
3NC2 423..	150	500	gR	3	70	3KL61	3	145	3KL62	3	150
3NC2 425..	200	500	gR	3	95	3KL61	3	180	3KL62	3	190
3NC2 427..	250	500	gR	3	120	3KL61	3	225	3KL62	3	240
3NC2 428..	300	500	gR	3	185	3KL61	3	255	3KL62	3	270
3NC2 431..	350	500	gR	3	240	3KL61	3	330	3KL62	3	345
3NC2 432..	400	500	aR	3	240	3KL61	3	400	3KL62	3	400
3NC3 336-1	630	1000	aR	3	2x (40x5)	3KL62	3	500	3KL61	3	480
3NC3 337-1	710	1000	aR	3	2x (50x5)	3KL62	3	540	--	--	--
3NC3 338-1	800	1000	aR	3	2x (40x8)	3KL62	3	600	--	--	--
3NC3 340-1	900	1000	aR	3	2x (40x8)	3KL62	3	650	--	--	--
3NC3 341-1	1000	1000	aR	3	2x (50x8)	3KL62	3	720	--	--	--
3NC3 342-1	1100	800	aR	3	2x (50x8)	3KL62	3	800	--	--	--
3NC3 343-1	1250	800	aR	3	2x (50x8)	3KL62	3	800	--	--	--
3NC3 430-1	315	1250	aR	3	2x95	3KL61	3	285	3KL62	3	300
3NC3 432-1	400	1250	aR	3	2x120	3KL61	3	365	3KL62	3	380
3NC3 434-1	500	1250	aR	3	2x150	3KL61	3	425	3KL62	3	450
3NC3 436-1	630	1250	aR	3	2x (40x5)	3KL61	3	500	3KL62	3	540
3NC3 438-1	800	1100	aR	3	2x (40x8)	3KL62	3	650	--	--	--
3NC8 423..	150	660	gR	3	70	3KL61	3	135	3KL62	3	140
3NC8 425..	200	660	gR	3	95	3KL61	3	180	3KL62	3	190
3NC8 427..	250	660	gR	3	120	3KL61	3	225	3KL62	3	240
3NC8 431..	350	660	gR	3	240	3KL61	3	300	3KL62	3	315
3NC8 434..	500	660	gR	3	2x 150	3KL61	3	425	3KL62	3	450
3NC8 444..	1000	600	aR	3	2x (60x6)	3KL62	3	800	3KL61	3	630
3NE1 020-2	80	690	gR	00	25	3KL52	00	80	3KL53	00	80
3NE1 021-0	100	690	gS	00	35	3KL52	00	100	3KL53	00	100
3NE1 021-2	100	690	gR	00	35	3KL52	00	100	3KL53	00	100
3NE1 022-0	125	690	gS	00	50	3KL52	00	125	3KL53	00	125
3NE1 022-2	125	690	gR	00	50	3KL52	00	125	3KL53	00	125
3NE1 224-0	160	690	gS	1	70	3KL55	1	160	3KL57	2	160
3NE1 224-2/-3	160	690	gR	1	70	3KL55	1	160	3KL57	2	160
3NE1 225-0	200	690	gS	1	95	3KL55	1	200	3KL57	2	200
3NE1 225-2/-3	200	690	gR	1	95	3KL55	1	200	3KL57	2	200
3NE1 227-0	250	690	gS	1	120	3KL55	1	250	3KL57	2	250
3NE1 227-2/-3	250	690	gR	1	120	3KL55	1	245	3KL57	2	250
3NE1 230-0	315	690	gS	1	2x 70	3KL57	2	315	--	--	--
3NE1 230-2/-3	315	690	gR	1	2x 70	3KL57	2	280	--	--	--
3NE1 331-0	350	690	gS	2	2x 95	3KL57	2	330	3KL61	3	350
3NE1 331-2/-3	350	690	gR	2	2x 95	3KL57	2	300	3KL61	3	350
3NE1 332-0	400	690	gS	2	2x 95	3KL57	2	375	3KL61	3	400
3NE1 332-2/-3	400	690	gR	2	2x 95	3KL57	2	340	3KL61	3	400
3NE1 333-0	450	690	gS	2	2x 120	3KL61	3	450	3KL62	3	450
3NE1 333-2/-3	450	690	gR	2	2x 120	3KL61	3	450	3KL62	3	450
3NE1 334-0	500	690	gS	2	2x 120	3KL61	3	500	3KL62	3	500
3NE1 334-2/-3	500	690	gR	2	2x 120	3KL61	3	500	3KL62	3	500
3NE1 435-0	560	690	gS	3	2x 150	3KL61	3	560	3KL62	3	560
3NE1 435-2/-3	560	690	gR	3	2x 150	3KL61	3	560	3KL62	3	560

Switch Disconnectors

3KL Switch Disconnectors with Fuses up to 800 A

Fuses

SITOR fuse data						Permissible rated currents of fuse when installed in 3KL for floor mounting					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KL			Alternative type - 3KL		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ³⁾
	A	V AC						A			A
3NE1 436-0	630	690	gS	3	2x 185	3KL61	3	630	3KL62	3	630
3NE1 436-2/-3	630	690	gR	3	2x 185	3KL61	3	615	3KL62	3	630
3NE1 437-0	710	690	gS	3	2x (40x5)	3KL61	3	630	3KL62	3	710
3NE1 437-1	710	600	gR	3	2x (40x5)	3KL61	3	630	3KL62	3	710
3NE1 437-2/-3	710	690	gR	3	2x (40x5)	3KL61	3	630	3KL62	3	700
3NE1 438-0	800	690	gS	3	2x (50x5)	3KL61	3	630	3KL62	3	800
3NE1 438-1	800	600	gR	3	2x (50x5)	3KL61	3	630	3KL62	3	800
3NE1 438-2/-3	800	690	gR	3	2x (50x5)	3KL61	3	630	3KL62	3	760
3NE1 447-2/-3	670	690	gR	3	2x (40x5)	3KL61	3	630	3KL62	3	670
3NE1 448-2/-3	850	690	gR	3	2x (40x8)	3KL61	3	630	3KL62	3	790
3NE1 802-0	40	690	gS	000	10	3KL50	00	40	3KL52	00	40
3NE1 803-0	35	690	gS	000	6	3KL50	00	35	3KL52	00	35
3NE1 813-0	16	690	gS	000	1.5	3KL50	00	16	3KL52	00	16
3NE1 814-0	20	690	gS	000	2.5	3KL50	00	20	3KL52	00	20
3NE1 815-0	25	690	gS	000	4	3KL50	00	25	3KL52	00	25
3NE1 817-0	50	690	gS	000	10	3KL50	00	50	3KL52	00	50
3NE1 818-0	63	690	gS	000	16	3KL50	00	63	3KL52	00	63
3NE1 820-0	80	690	gS	000	25	3KL52	00	80	--	--	--
3NE3 221	100	1000	aR	1	35	3KL55	1	90	3KL57	2	95
3NE3 222	125	1000	aR	1	50	3KL55	1	110	3KL57	2	115
3NE3 224	160	1000	aR	1	70	3KL55	1	140	3KL57	2	150
3NE3 225	200	1000	aR	1	95	3KL55	1	175	3KL57	2	180
3NE3 227	250	1000	aR	1	120	3KL55	1	210	3KL57	2	220
3NE3 230-0B	315	1000	aR	1	185	3KL57	2	240	--	--	--
3NE3 231	350	1000	aR	1	240	3KL57	2	265	--	--	--
3NE3 232-0B	400	1000	aR	1	240	3KL57	2	290	--	--	--
3NE3 233	450	1000	aR	1	2x 150	3KL57	2	320	--	--	--
3NE3 332-0B	400	1000	aR	2	240	3KL61	3	340	3KL62	3	360
3NE3 333	450	1000	aR	2	2x 150	3KL61	3	380	3KL62	3	400
3NE3 334-0B	500	1000	aR	2	2x 150	3KL61	3	440	3KL62	3	470
3NE3 335	560	1000	aR	2	2x 185	3KL61	3	500	3KL62	3	530
3NE3 336	630	1000	aR	2	2x 185	3KL61	3	540	3KL62	3	580
3NE3 337-8	710	900	aR	2	2x (40x5)	3KL61	3	600	3KL62	3	640
3NE3 338-8	800	800	aR	2	2x 240	3KL61	3	630	3KL62	3	720
3NE3 340-8	900	690	aR	2	2x (40x8)	3KL61	3	630	3KL62	3	800
3NE4 101	32	1000	gR	0	6	3KL55	1	32	--	--	--
3NE4 102	40	1000	gR	0	10	3KL55	1	40	--	--	--
3NE4 117	50	1000	gR	0	10	3KL55	1	50	--	--	--
3NE4 118	63	1000	aR	0	16	3KL55	1	63	--	--	--
3NE4 120	80	1000	aR	0	25	3KL55	1	80	--	--	--
3NE4 121	100	1000	aR	0	35	3KL55	1	95	--	--	--
3NE4 122	125	1000	aR	0	50	3KL55	1	120	--	--	--
3NE4 124	160	1000	aR	0	70	3KL55	1	150	--	--	--
3NE4 327-0B	250	800	aR	2	150	3KL57	2	175	3KL61	3	200
3NE4 330-0B	315	800	aR	2	240	3KL57	2	230	3KL61	3	260
3NE4 333-0B	450	800	aR	2	2x (30x5)	3KL57	2	340	3KL61	3	370
3NE4 334-0B	500	800	aR	2	2x (30x5)	3KL61	3	425	3KL62	3	450
3NE4 337	710	800	aR	2	2x (50x5)	3KL61	3	600	3KL62	3	630
3NE8 015-1	25	690	gR	00	4	3KL50	00	25	3KL52	00	25
3NE8 003-1	35	690	gR	00	6	3KL50	00	33	3KL52	00	35
3NE8 017-1	50	690	gR	00	10	3KL50	00	45	3KL52	00	50
3NE8 018-1	63	690	gR	00	16	3KL50	00	54	3KL52	00	60
3NE8 020-1	80	690	aR	00	25	3KL52	00	68	--	--	--
3NE8 021-1	100	690	aR	00	35	3KL52	00	89	--	--	--
3NE8 022-1	125	690	aR	00	50	3KL52	00	106	--	--	--
3NE8 024-1	160	690	aR	00	70	3KL52	00	130 ⁴⁾	--	--	--

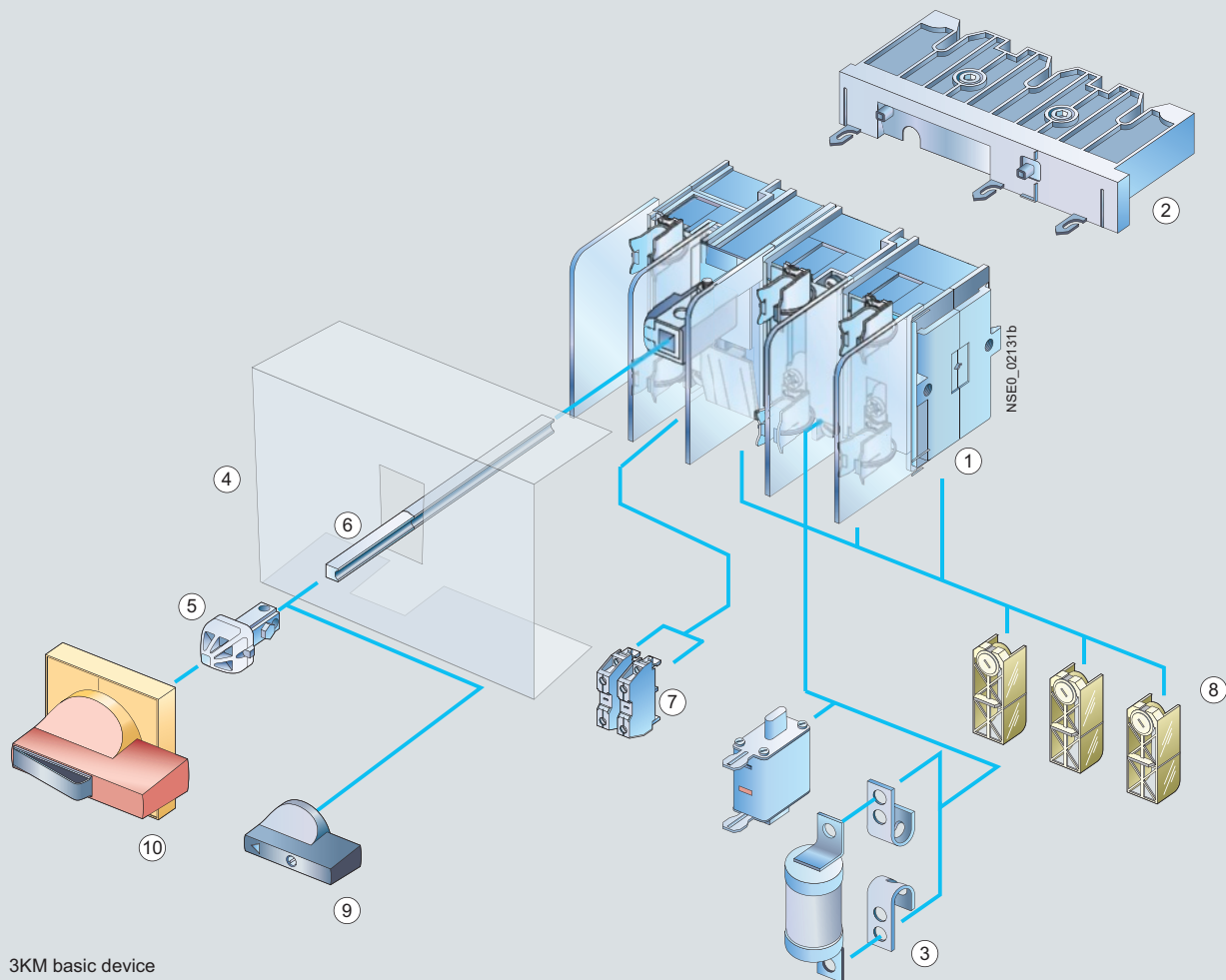
¹⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE4 1 fuses should only be switched occasionally and only at zero current.

²⁾ 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.

³⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

⁴⁾ The fuse can also be operated at a higher rated uninterrupted current than the 125 A current of the 3KL52. However, in this case, the 3KL52 must not be switched under load (utilization category AC-20)

Overview



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

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

Optional

- ⑧ Single-pole terminal cover from 63 A to 630 A, IP20 (vertical to operator side)
- ⑨ 8UC9 knob for fixed mounting in standard version (black) or EMERGENCY-STOP version (red), or
- ⑩ 8UC7 door-coupling rotary operating mechanism in standard version (ti-grey) or EMERGENCY-STOP version (red/yellow)

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

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

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

Application

3KM switch disconnectors with fuses protect against overload and short-circuits as main control and EMERGENCY-STOP switches of switchgear 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.

Switch Disconnectors

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

Introduction

Technical specifications

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107				
Type		3KM50	3KM52	3KM53	3KM55	3KM57
Rated uninterrupted current I_u For fuse links according to DIN 43620, (when 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 the fuses	A	80	160	160	400	400
Max. permissible power loss of the installed fuse						
• NH	W	6	9	11.5	32	45
• BS	W	8 (A2/A3)	11.5 (A4)	11.5	32	45
Permissible let-through current of the fuses	kA	8	17	17	30 ³⁾	30 ³⁾
Maximum permissible let-through I^2t value	kA ² s	55	223	223	1000	1000
Breaking capacity (inferred from the top or bottom)						
At 400 V AC						
• Breaking current I_c (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	30	65	80	132	200
At 500 V AC						
• Breaking current I_c (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	40	90	110	185	280
At 690 V AC						
• Breaking current I_c (at p.f. = 0.35, rms value)	A	500	1000	1280	2000	3200
• Rated operational current I_e with AC-21A, AC-22A, AC-23A	A	63	125	160	250	400
• Motor switching capacity AC-23A	kW	50	110	150	220	375
At 440 V DC (3 conducting paths series-connected) ⁴⁾						
• Breaking current I_c (L/R = 15 ms)	A	250	500	640	1000 ⁴⁾	1600
• Rated operational current I_e 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 when stored				
Mechanical endurance , operating cycles		15000	15000	15000	12000	12000
Degree of protection		IP00/IP20 (from the operator side, with fuse and terminal covers)				
Power loss of the switch disconnector at I_{th} (plus power loss of the fuses)	W	8.5	22	36	33	86
Main conductor connections						
Busbar systems, max. dimensions (W × T)	mm	25 × 9	45 × 10	45 × 10	40 × 12	40 × 15
Cable lug, max. conductor cross-section (stranded)	mm ²	35	70	120	150	2 ∞ 150 or 1 × 240
Busbar systems, max. dimensions (W × T)	mm	25 × 9	45 × 10	45 × 10	40 × 12	40 × 15
Tightening torque	Nm	6 ... 7.5	7 ... 10	18 ... 22	35 ... 45	35 ... 45
Terminal screws		M6	M6	M8	M10	M10
Protective conductor connections						
Flat bars	mm	--	--	--	20 × 2.5	20 × 2.5
Cable lug, max. conductor cross-section (stranded)	mm ²	--	--	--	70	120

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

²⁾ 110 V (one conducting path).

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

⁴⁾ At 440 V L/R = 4 ms, at 220 V L/R = 1 ms.

⁵⁾ At 440 V DC-22A, at 220 V DC-23A.

⁶⁾ 3ND1 switchgear protection fuse.

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 included in the scope of supply.**

Rated uninterrupted current I_U	LV HRC fuse links ¹⁾ acc. to DIN 43620 ²⁾	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
A	Size	Operational class						
8UC7 complete versions with door-coupling rotary operating mechanisms								
3-pole for NH fuse systems								
• (black handle)								
63	00 and 000	gG, aM	3KM50 30-1GB01		1	1 unit	103	1.855
125	00 and 000	gG, aM	3KM52 30-1GB01		1	1 unit	103	2.796
160	00 and 000	gG, aM	3KM53 30-1GB01		1	1 unit	103	2.857
250	1 and 2	gG, aM	3KM55 30-1GB01		1	1 unit	103	6.528
400	2 and 1	gG, aM	3KM57 30-1GB01		1	1 unit	103	6.829
3-pole for fuses acc. to BS 88								
• Complete versions with 8UC7 door-coupling rotary operating mechanism (black handle)								
125	Form A2/A3		3KM52 30-1GG01		1	1 unit	103	2.747
125	Form A4		3KM52 30-1GJ01		1	1 unit	103	2.821
160	Form A4		3KM53 30-1GJ01		1	1 unit	103	2.933
250	Form B1-B3		3KM55 30-1GG01		1	1 unit	103	6.571
400	Form B1-B3		3KM57 30-1GG01		1	1 unit	103	7.110
Basic switch versions without handle								
3-pole for NH fuse systems								
63	00 and 000	gG, aM	3KM50 30-1AB01		1	1 unit	103	1.507
125	00 and 000	gG, aM	3KM52 30-1AB01		1	1 unit	103	2.415
160	00 and 000	gG, aM	3KM53 30-1AB01		1	1 unit	103	2.505
250	1 and 2	gG, aM	3KM55 30-1AB01		1	1 unit	103	5.598
400	2 and 1	gG, aM	3KM57 30-1AB01		1	1 unit	103	5.894
3-pole for fuses acc. to BS 88								
63	Form A2/A3		3KM50 30-1AG01		1	1 unit	103	1.450
125	Form A2/A3		3KM52 30-1AG01		1	1 unit	103	2.335
125	Form A4		3KM52 30-1AJ01		1	1 unit	103	2.400
160	Form A4		3KM53 30-1AJ01		1	1 unit	103	2.507
250	Form B1-B3		3KM55 30-1AG01		1	1 unit	103	5.689
400	Form B1-B3		3KM57 30-1AG01		1	1 unit	103	6.250
8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate) for basic switch versions without handle								
63	00 and 000	gG, aM	8UC71 21-3BB10		1	1 unit	103	0.368
125	00 and 000	gG, aM	8UC72 22-3BB20		1	1 unit	103	0.423
160	00 and 000	gG, aM	8UC72 22-3BB20		1	1 unit	103	0.423
250	1 and 2	gG, aM	8UC73 23-3BB30		1	1 unit	103	1.000
400	2 and 1	gG, aM	8UC73 23-3BB30		1	1 unit	103	1.000
• 8UC7 EMERGENCY-STOP door-coupling rotary operating mechanisms (red handle, yellow indicator plate)								
63	Form A2/A3		8UC71 21-3BB10		1	1 unit	103	0.368
125	Form A2/A3		8UC72 22-3BB20		1	1 unit	103	0.423
125	Form A4		8UC72 22-3BB20		1	1 unit	103	0.423
160	Form A4		8UC72 22-3BB20		1	1 unit	103	0.423
250	Form B1-B3		8UC73 23-3BB30		1	1 unit	103	1.000
400	Form B1-B3		8UC73 23-3BB30		1	1 unit	103	1.000



3KM53 30-1AB01 with fuses



3KM55 30-1AG01 with fuses



8UC71 21-3BB10

Fuse monitoring through 5TT3 170 safety monitor with a floating 1 NO signaling contact, [see chapter 5 "Fuse Systems"](#).

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

²⁾ For assignment of semiconductor fuses [see page 7/82](#)

Switch Disconnectors

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

Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
3KM50							
 3KX3 5.7-3AA	Terminal covers For 3-pole devices (1 set = 6 units)	▶ 3KX3 552-3DA01		1	1 unit	103	0.078
	Fuse covers (interlock only detachable in the OFF position)	▶ 3KX3 517-3AA		1	1 unit	103	0.065
 3KX3 507-0BA01	Fuse partitions (1 set = 5 units)	▶ 3KX3 507-0AA01		1	1 unit	103	0.040
	Lyre-shaped fuse covers (1 set = 6 units)	3KX3 507-0BA01		1	1 unit	103	0.032
 3SB14 00-0A	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	8UC71 11-1BB10		1	1 unit	103	0.358
	EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC71 21-3BB10		1	1 unit	103	0.368
	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶ 3KX3 516-1AA		1	1 unit	103	0.102
	Extension shaft 300 mm long	8UC60 31		1	1 unit	103	0.068
	Extension shaft 600 mm long	8UC60 81		1	1 unit	103	0.136
	Shaft connecting pieces	8UC60 21		1	1 unit	103	0.027
	Auxiliary switches 1 NO + 1 NC	3SB14 00-0A		1	1 unit	41J	0.019
	2 NO	3SB14 00-0G		1	1 unit	41J	0.019
	2 NC	3SB14 00-0H		1	1 unit	41J	0.020
	Fuse monitor connections (1 set = 6 units)	3KX3 505-0AA		1	1 unit	103	0.022
3KM52/3KM53							
 3KX3 5.7-3AA	Terminal covers For 3-pole devices (1 set = 6 units)	3KM52 ▶ 3KX3 552-3DA01 3KM53 ▶ 3KX3 553-3DA01		1	1 unit	103	0.078
	Fuse covers¹⁾ (interlock only detachable in the OFF position)	▶ 3KX3 527-3AA		1	1 unit	103	0.070
 3KX3 507-0BA01	Fuse partitions (1 set = 5 units)	▶ 3KX3 507-0AA01		1	1 unit	103	0.040
	Lyre-shaped fuse covers (1 set = 6 units)	3KX3 507-0BA01		1	1 unit	103	0.032
	Door-coupling rotary operating mechanisms IP65 Black handle, shaft 300 mm	8UC72 12-1BB20		1	1 unit	103	0.424
	EMERGENCY-STOP (yellow/red), shaft 300 mm	8UC72 22-3BB20		1	1 unit	103	0.423
	Operating mechanisms for fixed mounting Black handle, shaft 250 mm	▶ 3KX3 536-1AA		1	1 unit	103	0.150

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

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

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Extension shaft 300 mm long		8UC60 32		1	1 unit	103	0.135
	Extension shaft 600 mm long		8UC60 82		1	1 unit	103	0.265
	Shaft connecting pieces		8UC60 22		1	1 unit	103	0.022
	Auxiliary switches							
	1 NO + 1 NC		3SB14 00-0A		1	1 unit	41J	0.019
	2 NO		3SB14 00-0G		1	1 unit	41J	0.019
	2 NC		3SB14 00-0H		1	1 unit	41J	0.020
	1 NO + 1 NC, 20 ms leading		3KX3 552-3EA01		1	1 unit	103	0.022
	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA		1	1 unit	103	0.022
3KM55/3KM57								
	Terminal covers							
	For 3-pole devices (1 set = 6 units)	►	3KX3 557-3DA01		1	1 unit	103	0.316
	For 4-pole devices (1 set = 8 units)		3KX3 557-3DB01		1	1 unit	103	0.389
	Fuse covers (interlock only detachable in the OFF position)	►	3KX3 557-3AA		1	1 unit	103	0.231
	Fuse partitions (1 set = 5 units)	►	3KX3 557-0AA01		1	1 unit	103	0.122
	Door-coupling rotary operating mechanisms IP65							
	Black handle, shaft 300 mm		8UC73 13-1BB30		1	1 unit	103	0.998
	EMERGENCY-STOP (yellow/red), shaft 300 mm		8UC73 23-3BB30		1	1 unit	103	1.000
	Operating mechanisms for fixed mounting, size 3	►	3KX3 176-1E		1	1 unit	103	0.287
	Black handle, shaft 250 mm							
	Extension shaft 300 mm long		8UC60 33		1	1 unit	103	0.215
	Extension shaft 600 mm long		8UC60 83		1	1 unit	103	0.424
	Shaft connecting pieces		8UC60 23		1	1 unit	103	0.083
	Auxiliary switches							
	1 NO + 1 NC		3SB14 00-0A		1	1 unit	41J	0.019
	2 NO		3SB14 00-0G		1	1 unit	41J	0.019
	2 NC		3SB14 00-0H		1	1 unit	41J	0.020
	1 NO + 1 NC, 20 ms leading		3KX3 552-3EA01		1	1 unit	103	0.022
	Fuse monitor connections (1 set = 6 units)		3KX3 505-0AA		1	1 unit	103	0.022

Switch Disconnectors

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

Fuses

Overview

The 3KM switch disconnectors with fuses are suitable for all fuses in LV HRC design, [see chapter 5](#).

LV HRC design fuses for SITOR semiconductor protection 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 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 fuses for 3KM fuse switch disconnectors: Assignment table

SITOR fuse data						Permissible rated currents of fuse when installed in 3KM for busbar mounting					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu	Type 3KM			Alternative type 3KM		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ³⁾
	A	V AC			mm ²			A			A
3NE1 020-2	80	690	gR	00	25	3KM52	00	80	3KM53	00	80
3NE1 021-0	100	690	gS	00	35	3KM52	00	100	3KM53	00	100
3NE1 021-2	100	690	gR	00	35	3KM52	00	100	3KM53	00	100
3NE1 022-0	125	690	gS	00	50	3KM52	00	125	3KM53	00	125
3NE1 022-2	125	690	gR	00	50	3KM52	00	125	3KM53	00	125
3NE1 224-0	160	690	gS	1	70	3KM55	1	160	3KM57	2	160
3NE1 224-2/-3	160	690	gR	1	70	3KM55	1	160	3KM57	2	160
3NE1 225-0	200	690	gS	1	95	3KM55	1	200	3KM57	2	200
3NE1 225-2/-3	200	690	gR	1	95	3KM55	1	200	3KM57	2	200
3NE1 227-0	250	690	gS	1	120	3KM55	1	250	3KM57	2	250
3NE1 227-2/-3	250	690	gR	1	120	3KM55	1	245	3KM57	2	250
3NE1 230-0	315	690	gS	1	2x 70	3KM57	2	315	--	--	--
3NE1 230-2/-3	315	690	gR	1	2x 70	3KM57	2	280	--	--	--
3NE1 331-0	350	690	gS	2	2x 95	3KM57	2	330	--	--	--
3NE1 331-2/-3	350	690	gR	2	2x 95	3KM57	2	300	--	--	--
3NE1 332-0	400	690	gS	2	2x 95	3KM57	2	375	--	--	--
3NE1 332-2/-3	400	690	gR	2	2x 95	3KM57	2	315	--	--	--
3NE1 333-0	450	690	gS	2	2x 120	3KM57	2	400	--	--	--
3NE1 333-2/-3	450	690	gR	2	2x 120	3KM57	2	325	--	--	--
3NE1 334-0	500	690	gS	2	2x 120	3KM57	2	400	--	--	--
3NE1 334-2/-3	500	690	gR	2	2x 120	3KM57	2	350	--	--	--
3NE1 802-0	40	690	gS	000	10	3KM50	00	40	3KM52	00	40
3NE1 803-0	35	690	gS	000	6	3KM50	00	35	3KM52	00	35
3NE1 813-0	16	690	gS	000	1.5	3KM50	00	16	3KM52	00	16
3NE1 814-0	20	690	gS	000	2.5	3KM50	00	20	3KM52	00	20
3NE1 815-0	25	690	gS	000	4	3KM50	00	25	3KM52	00	25
3NE1 817-0	50	690	gS	000	10	3KM50	00	50	3KM52	00	50
3NE1 818-0	63	690	gS	000	16	3KM50	00	63	3KM52	00	63
3NE1 820-0	80	690	gS	000	25	3KM52	00	80	--	--	--
3NE3 221	100	1000	aR	1	35	3KM55	1	90	3KM57	2	95
3NE3 222	125	1000	aR	1	50	3KM55	1	110	3KM57	2	115
3NE3 224	160	1000	aR	1	70	3KM55	1	140	3KM57	2	150
3NE3 225	200	1000	aR	1	95	3KM55	1	175	3KM57	2	180
3NE3 227	250	1000	aR	1	120	3KM55	1	210	3KM57	2	220
3NE3 230-0B	315	1000	aR	1	185	3KM57	2	240	--	--	--
3NE3 231	350	1000	aR	1	240	3KM57	2	265	--	--	--
3NE3 232-0B	400	1000	aR	1	240	3KM57	2	290	--	--	--
3NE3 233	450	1000	aR	1	2x 150	3KM57	2	320	--	--	--
3NE3 332-0B	400	1000	aR	2	240	3KM57	2	290	--	--	--
3NE3 333	450	1000	aR	2	2x 150	3KM57	2	320	--	--	--
3NE3 334-0B	500	1000	aR	2	2x 150	3KM57	2	360	--	--	--
3NE3 335	560	1000	aR	2	2x 185	3KM57	2	400	--	--	--

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

Fuses

SITOR fuse data						Permissible rated currents of fuse when installed in 3KM for busbar mounting					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3KM			Alternative type 3KM		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ³⁾
	A	V AC						A			A
3NE3 336	630	1000	aR	2	2x 185	3KM57	2	400	--	--	--
3NE3 337-8	710	900	aR	2	2x (40x5)	3KM57	2	400	--	--	--
3NE3 338-8	800	800	aR	2	2x 240	3KM57	2	400	--	--	--
3NE3 340-8	900	690	aR	2	2x (40x8)	3KM57	2	400	--	--	--
3NE4 101	32	1000	gR	0	6	3KM55	1	32	--	--	--
3NE4 102	40	1000	gR	0	10	3KM55	1	40	--	--	--
3NE4 117	50	1000	gR	0	10	3KM55	1	50	--	--	--
3NE4 118	63	1000	aR	0	16	3KM55	1	63	--	--	--
3NE4 120	80	1000	aR	0	25	3KM55	1	80	--	--	--
3NE4 121	100	1000	aR	0	35	3KM55	1	95	--	--	--
3NE4 122	125	1000	aR	0	50	3KM55	1	120	--	--	--
3NE4 124	160	1000	aR	0	70	3KM55	1	150	--	--	--
3NE4 327-0B	250	800	aR	2	150	3KM57	2	175	--	--	--
3NE4 330-0B	315	800	aR	2	240	3KM57	2	230	--	--	--
3NE4 333-0B	450	800	aR	2	2x (30x5)	3KM57	2	340	--	--	--
3NE4 334-0B	500	800	aR	2	2x (30x5)	3KM57	2	380	--	--	--
3NE4 337	710	800	aR	2	2x (50x5)	3KM57	2	400	--	--	--
3NE8 015-1	25	690	gR	00	4	3KM50	00	25	3KM52	00	25
3NE8 003-1	35	690	gR	00	6	3KM50	00	33	3KM52	00	35
3NE8 017-1	50	690	gR	00	10	3KM50	00	45	3KM52	00	50
3NE8 018-1	63	690	gR	00	16	3KM50	00	54	3KM52	00	60
3NE8 020-1	80	690	aR	00	25	3KM52	00	68	--	--	--
3NE8 021-1	100	690	aR	00	35	3KM52	00	89	--	--	--
3NE8 022-1	125	690	aR	00	50	3KM52	00	106	--	--	--
3NE8 024-1	160	690	aR	00	70	3KM52	00	130 ⁴⁾	--	--	--

¹⁾ Due to the mechanical stress on the relatively long fuse blades, SITOR 3NE4 1 fuses should only be switched occasionally and only at zero current.

²⁾ Fuses with a rated voltage >690 V may only be operated at max. 690 V (rated voltage of the 3KM) when installed in 3KM

³⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

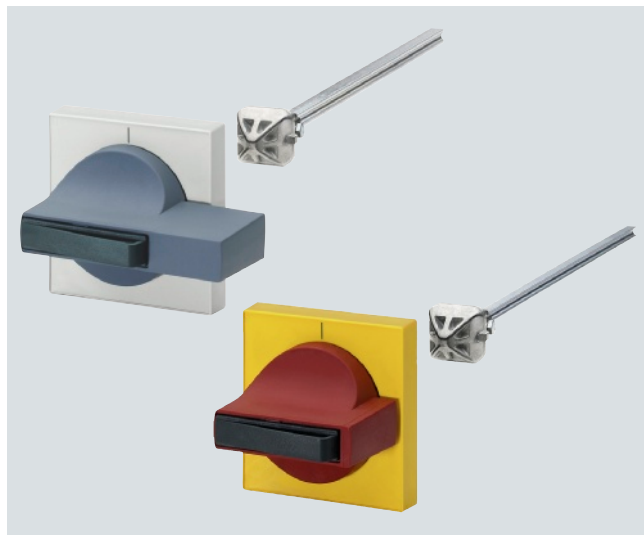
⁴⁾ The fuse can also be operated at a higher rated uninterrupted current than the 125 A current of the 3KM52. However, in this case, the 3KM52 must not be switched under load (utilization category AC-20).

Switch Disconnectors

8UC7 Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Overview



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

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

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

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

Available sizes

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

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

²⁾ Operation with two hands.

Degree of protection

Degree of protection when installed is IP65.

Standards

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

Standard	Title
IEC 60204-1, EN 60204-1 (VDE 0113 Part 1)	Safety of machinery; electrical equipment of machines
IEC 60439-1, EN 60439-1 (VDE 0660 Part 500)	Low-voltage switchgear and controlgear assemblies
IEC 60947-3, EN 60947-3 (VDE 0660 Part 107)	Low-voltage switchgear and controlgear; Switches, disconnectors, switch disconnectors and fuse-combination units

Benefits

Can be locked

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

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

Non-interchangeability

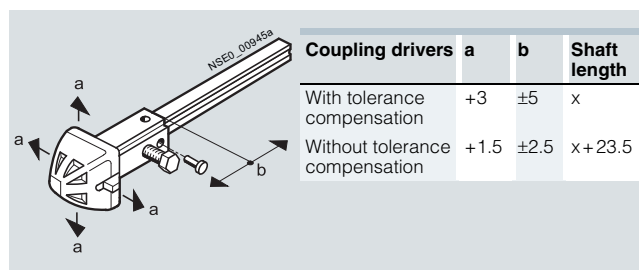
In order to ensure that, when installing switches and door-coupling operating mechanisms, all components are assembled in the correct position with respect to one another, the components are provided with non-interchangeability features (rivet and lug).

Stops

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

Tolerance compensation

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



Permissible radial eccentricity and axial tolerance compensation in mm

Pull-out strength

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

Switch Disconnectors

8UC7 Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Application

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

Interlocking conditions

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

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

Other interlocking conditions:

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

Operating conditions and ambient conditions

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

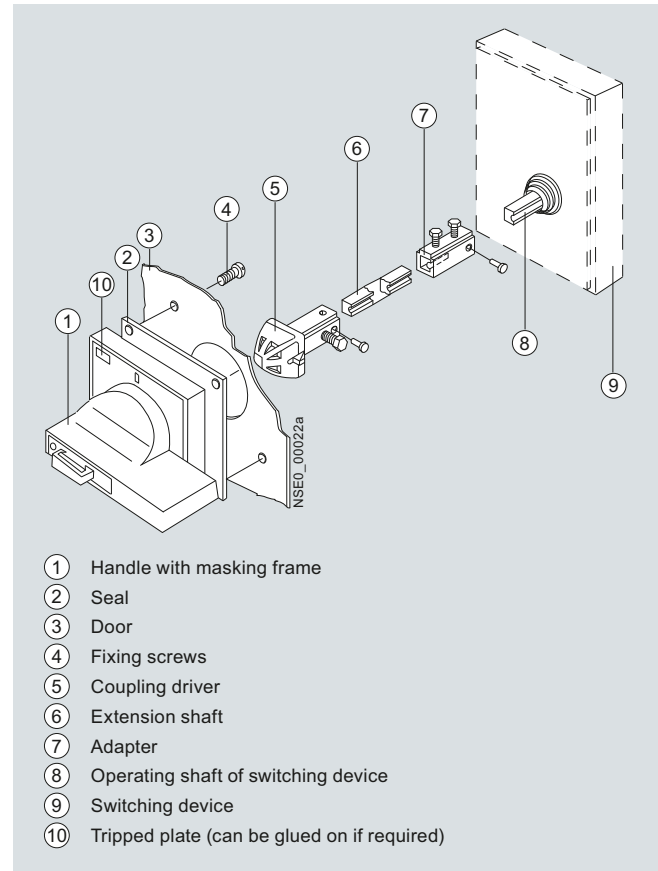
Thanks to the use of glass fiber-reinforced molded plastic for handles and masking plates as well as metal components with surface protection, the rotary operating mechanisms are suitable for rough conditions, high air humidity and aggressive atmospheres.

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.

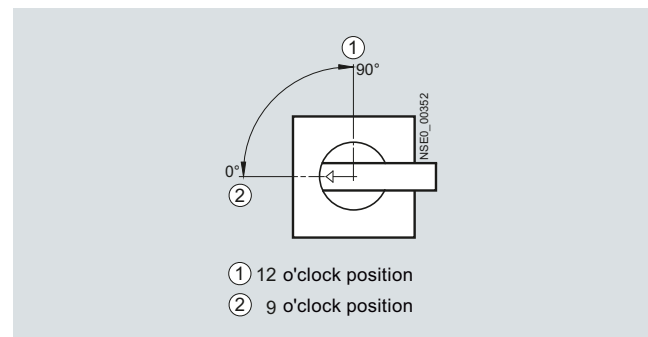
Operating mechanisms for 3KA / 3KL / 3KM switch disconnectors do not have a shaft coupling since the extension shaft is fitted directly into the switch. Extension shafts with a length of 600 mm are also available.



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

8UC7 Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

Selection and ordering data

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

Switchgear	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
------------	---------------	--------------------------------------	--------	-----------------------------	------------------------------------

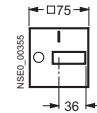
Type	A	mm	Nm	Size
------	---	----	----	------

8UC71



For switch disconnectors with or without fuses

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

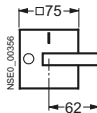


8UC72



For switch disconnectors with or without fuses

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

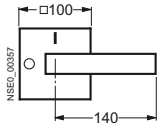


8UC73



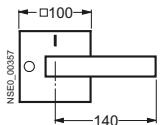
For switch disconnectors with or without fuses

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



For switch disconnectors without fuses

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

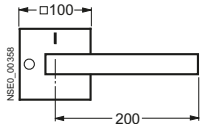


8UC74



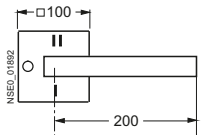
For switch disconnectors with fuses

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



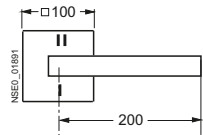
For switch disconnectors as changeover switches with break-before-make feature

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



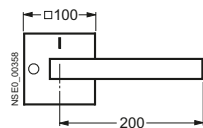
For switch disconnectors as changeover switches without break-before-make feature

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



For load disconnect switch as parallel connection

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



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

²⁾ Additionally required for 3KL61: 1 shaft coupling, order no. 8UC92 53, see individual parts, table, page 7/88.

³⁾ The door interlocking plate must be removed.

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

Switch Disconnectors

8UC7 Door-Coupling Rotary Operating Mechanisms

For 3K switch disconnectors

							Individual parts			
Version	DT	Rotary operating mechanisms, complete	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	Handle with masking plate	Coupling drivers	Extension shaft length 300 mm	Shaft couplings
		Order No.	Price per PU				Order No.	Order No.	Order No.	Order No.
							kg			
Standard Standard ⁴⁾ EMER- GENCY- STOP		8UC71 11-1BB10	1	1 unit	103	0.358	8UC71 10-1BB	□ 6 mm 8UC60 11	□ 6 mm 8UC60 31	□ 6 mm by 6 mm Not required
		8UC71 61-1BB10	1	1 unit	103	0.328	8UC71 10-1BB	8UC60 16	8UC60 31	Not required
		8UC71 21-3BB10	1	1 unit	103	0.368	8UC71 20-3BB	8UC60 11	8UC60 31	Not required
Standard Standard ⁴⁾ EMER- GENCY- STOP		8UC72 12-1BB20	1	1 unit	103	0.424	8UC72 10-1BB	□ 8 mm 8UC60 12	□ 8 mm 8UC60 32	□ 8 mm by 8 mm Not required
		8UC72 62-1BB20	1	1 unit	103	0.392	8UC72 10-1BB	8UC60 17	8UC60 32	Not required
		8UC72 22-3BB20	1	1 unit	103	0.423	8UC72 20-3BB	8UC60 12	8UC60 32	Not required
Standard EMER- GENCY- STOP		8UC73 13-1BB30	1	1 unit	103	0.998	8UC73 10-1BB	□ 10 mm 8UC60 13	□ 10 mm 8UC60 33	□ 10 mm by 10 mm Not required
		8UC73 23-3BB30	1	1 unit	103	1.000	8UC73 20-3BB	8UC60 13	8UC60 33	Not required
Standard EMER- GENCY- STOP		8UC73 14-1BB44	1	1 unit	103	1.170	8UC73 10-1BB	□ 12 mm 8UC60 14	□ 12 mm 8UC60 34	□ 12 mm by 12 mm 8UC60 24
		8UC73 24-3BB44	1	1 unit	103	1.186	8UC73 20-3BB	8UC60 14	8UC60 34	8UC60 24
Standard EMER- GENCY- STOP		8UC74 14-1BB44	1	1 unit	103	1.228	8UC74 10-1BB	□ 12 mm 8UC60 14	□ 12 mm 8UC60 34	□ 12 mm by 12 mm 8UC60 24
		8UC74 24-3BB44	1	1 unit	103	1.200	8UC74 20-3BB	8UC60 14	8UC60 34	8UC60 24
Standard		8UC74 14-1BF44	1	1 unit	103	1.208	8UC74 10-1BF	□ 12 mm 8UC60 14	□ 12 mm 8UC60 34	□ 12 mm by 12 mm 8UC60 24
Standard		8UC74 14-1FG44	1	1 unit	103	1.113	8UC74 10-1FG	□ 12 mm 8UC60 14	□ 12 mm 8UC60 34	□ 12 mm by 12 mm 8UC60 24
Standard		8UC74 14-1BB44	1	1 unit	103	1.228	8UC74 10-1BB	□ 12 mm 8UC60 14	□ 12 mm 8UC60 34	□ 12 mm by 12 mm 8UC60 24

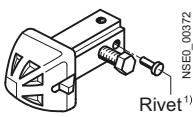
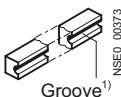
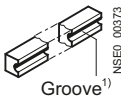
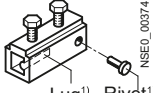
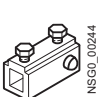
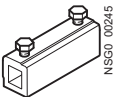
* You can order this quantity or a multiple thereof.

Switch Disconnectors

8UC7 Door-Coupling Rotary Operating Mechanisms

Individual parts

Selection and ordering data

	Switchgear	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ⁴⁾	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Type	Type		mm × mm			Order No. Price per PU				kg
Handles with masking plate (including flat gasket and fixing screws)											
 8UC71	3KL50, 3KM50, 3KA50, 3KA51	8UC71	1	6 × 6	Standard	EMERGENCY-STOP	8UC71 10-1BB 8UC71 20-3BB	1 1	1 unit 1 unit	103 103	0.178 0.204
 8UC72	3KL52, 3KM52, 3KL53, 3KM53, 3KA52, 3KA53	8UC72	2	8 × 8	Standard	EMERGENCY-STOP	8UC72 10-1BB 8UC72 20-3BB	1 1	1 unit 1 unit	103 103	0.190 0.186
 8UC73	3KL55, 3KM55, 3KL57, 3KM57, 3KA55, 3KA57, 3KE42, 3KE43, 3KE44, 3KE45	8UC73	3	10 × 10 or 12 × 12	Standard	EMERGENCY-STOP	8UC73 10-1BB 8UC73 20-3BB	1 1	1 unit 1 unit	103 103	0.493 0.472
 8UC74	3KL61, 3KL62	8UC74	4	12 × 12	Standard	EMERGENCY-STOP	8UC74 10-1BB 8UC74 20-3BB	1 1	1 unit 1 unit	103 103	0.514 0.488
	3KE42, 3KE43, 3KE44, 3KE45	8UC74 ³⁾	4	12 × 12	Standard	Standard	8UC74 10-1BF 8UC74 10-1FG 8UC74 10-1BB	1 1 1	1 unit 1 unit 1 unit	103 103 103	0.496 0.435 0.514
	Rotary operating mechanisms			Cross-section of the actuating shaft		DT	Individual parts for 8UC6 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Type			mm × mm			Order No. Price per PU				kg
Coupling drivers, extension shafts, shaft couplings and reducers											
 8UC60 11	Coupling drivers for 3K										
	8UC71			6 × 6			8UC60 11	1	1 unit	103	0.081
	8UC71 ²⁾			6 × 6			8UC60 16	1	1 unit	103	0.045
	8UC72			8 × 8			8UC60 12	1	1 unit	103	0.073
	8UC72 ²⁾			8 × 8			8UC60 17	1	1 unit	103	0.041
	8UC73			10 × 10			8UC60 13	1	1 unit	103	0.235
	8UC73/74			12 × 12			8UC60 14	1	1 unit	103	0.233
 8UC60 31 ... 34	Extension shafts 300 mm long										
	8UC71			6 × 6			8UC60 31	1	1 unit	103	0.068
	8UC72			8 × 8			8UC60 32	1	1 unit	103	0.135
	8UC73			10 × 10			8UC60 33	1	1 unit	103	0.215
	8UC73/74			12 × 12			8UC60 34	1	1 unit	103	0.316
 8UC60 81 ... 84	Extension shafts 600 mm long										
	8UC71			6 × 6			8UC60 81	1	1 unit	103	0.136
	8UC72			8 × 8			8UC60 82	1	1 unit	103	0.265
	8UC73			10 × 10			8UC60 83	1	1 unit	103	0.424
	8UC73/74			12 × 12			8UC60 84	1	1 unit	103	0.628
 8UC60 21 to 8UC6024	Shaft couplings										
	8UC71			6 × 6			8UC60 21	1	1 unit	103	0.027
	8UC72			8 × 8			8UC60 22	1	1 unit	103	0.022
	8UC73			10 × 10			8UC60 23	1	1 unit	103	0.083
	8UC73/74			12 × 12			8UC60 24	1	1 unit	103	0.078
	8UC74 (3KL61)			12 × 12			8UC92 53	1	1 unit	103	0.113
 8UC70 58	Reducers										
 8UC70 50	8UC71			8 × 8 to 6 × 6			8UC70 58	1	1 unit	103	0.024
	8UC72			12 × 12 to 8 × 8			8UC70 50	1	1 unit	103	0.081

¹⁾ Non-interchangeability features.

²⁾ Shortened coupling driver with reduced tolerance compensation.

³⁾ For switch disconnectors as changeover switches in various versions, [see table on page 7/86](#).

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

Switch Disconnectors

8UC7 Door-Coupling Rotary Operating Mechanisms

Operating mechanisms for fixed mounting

Selection and ordering data

	Switch-gear	Cross-section of the actuating shaft	Torque of the operating mechanism ¹⁾	Operating mechanisms	Color of handle	DT	Operating mechanisms for fixed mounting	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
	Type	mm × mm	Nm	Size			Order No.	Price per PU			kg	
 8UC93 54	3KA50, 3KA51, 3KL50, 3KM50	6 × 6	4	1	Black	2)	8UC93 54		1	1 unit	103	0.038
 8UC93 60			7.5	2	Black	2)	8UC93 60		1	1 unit	103	0.050
	3KA52, 3KA53, 3KL52, 3KM52, 3KL53, 3KM53	8 × 8	7.5	2	Black		8UC93 62		1	1 unit	103	0.045
					Red		8UC93 63		1	1 unit	103	0.049
 8UC93 65	3KL55, 3KM55, 3KL57, 3KM57	10 × 10	16	3	Black		8UC93 65		1	1 unit	103	0.147
	3KA55, 3KA57, 3KA58				Red		8UC93 66		1	1 unit	103	0.150
	3KE42, 3KE43	12 × 12	16	3	Black	3)	8UC93 70		1	1 unit	103	0.132
					Red	3)	8UC93 71		1	1 unit	103	0.142
 8UC93 74	3KE44, 3KE45	12 × 12	30	4	Black	3)	8UC93 74		1	1 unit	103	0.150
					Red	3)	8UC93 75		1	1 unit	103	0.180
 8UC93 81	3KL61	12 × 12	55	5	Black		8UC93 81		1	1 unit	103	0.270
					Red		8UC93 82		1	1 unit	103	0.263

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

²⁾ Red handle available on request.

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

Switch Disconnectors

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

Introduction

Overview

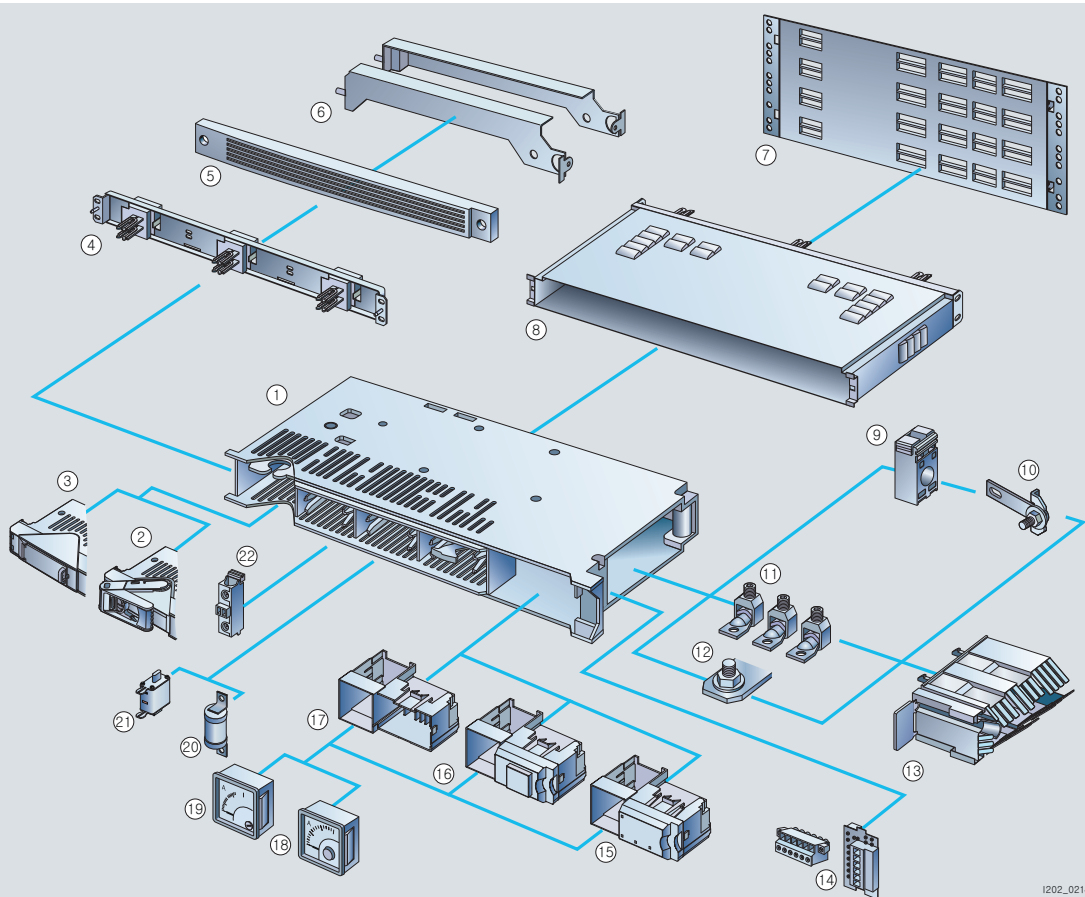


3NJ62 switch disconnectors with fuses

All key product features at a glance

- In-line design
- Type-tested according to IEC EN 60947-3
- Voltage levels up to 690 V AC/440 V DC
- 160 A to 630 A for LV HRC and BS 88 fuse links, according to IEC 60269-1/EN 60269-1
- 2-, 3- and 4-pole versions available
- 185 mm phase center distance of plug-in contacts
- Manually operated or with motorized operating mechanism
- Electronic fuse monitoring (EFM)
- Developed for switchgear 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



1202_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 |
| ⑤ Blanking cover | ⑮ Holder for measuring device with electronic fuse monitoring (EFM10) |
| ⑥ Guide rails | ⑯ Holder for measuring device with electronic fuse monitoring (EFM20/25) |
| 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 MRC fuse |
| | ㉒ Auxiliary switch |

Benefits

Key advantages for switchgear manufacturers due to the following:

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

The advantages for users are:

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

Application

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

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

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

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

Function

Fuse monitoring

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

EFM10 electronic fuse monitor:

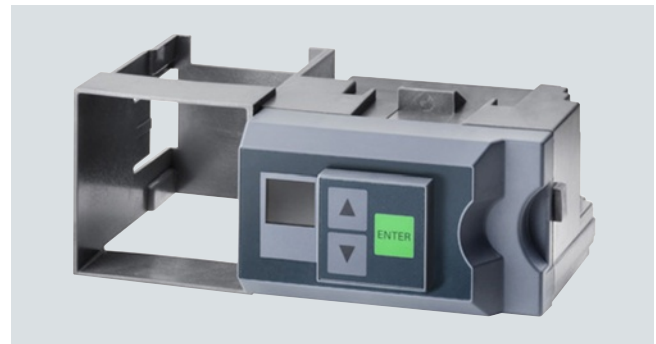
- For use up to 690 V AC
- Operational voltage < 20 V
- Display: ready-to-run
- Individual fault display per phase
- 1 CO contact as centralized fault signaling unit

EFM20/25 electronic fuse monitor and line monitor:

- 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 monitor



EFM20/25 electronic fuse monitor

Switch Disconnectors

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

Introduction

Technical specifications

Main devices of sizes 00 and 1

Size		BG00								Size 1			
Switch disconnectors with fuses type 3NJ62...	NH			...02-3 ...02-4		...03-1 ...04-1 ...04-2		...03-3 ...03-4		...12-3 ...12-4		...13-1 ...14-1 ...14-2	...13-3 ...13-4
	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		--	--	00 and 000							1		
For BS fuse links acc. to BS 88		A3	A3	00T ¹⁾							B2		
Rated operational voltage U_e													
• At 50/60Hz rated frequency	V	690		--	--	500	690	500	690	690			
• At DC	V	--	--	230	440	--	--	--	--	230	440	--	--
Utilization category		AC23B		DC23B	DC21B	AC22B		AC23B		DC23B	DC21B	AC22B	AC23B
Rated conditional short-circuit current													
• Short-circuit strength (rms value)	kA	100		60		100		100		60		100	
• Short-circuit making capacity (rms value)	kA	66		60		55		66		60		55	66
Rated making capacity													
• p.f. = 0.65	A	--	--	--	--	480	375	--	--	--	--	750	--
• p.f. = 0.45	A	630	1000	--	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	--	--	--	1600	1250	--	--	--	2500
Rated breaking capacity													
• p.f. = 0.65	A	--	--	--	--	480	375	--	--	--	--	750	--
• p.f. = 0.45	A	504	800	--	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	--	--	--	1280	1000	--	--	--	2000
Endurance													
Operating cycles total		2000		1600						1600			
• Electrical (690 V, p.f. = 0.65)		300		200						200			
Power loss (no fuse links)	W	7	17	43						78			
Permissible ambient temperature	°C	-5...+55											
Permissible mounting positions		Horizontal and vertical with bottom connection											
Degree of protection (in operating state)		IP41											
Connection type		Main conductor connections											
Cable lug connection													
• Conductor cross-section (Al/Cu, solid or stranded) according to DIN 46235 (Cu) and DIN 46239 (Al)	mm ²	1x 10-95 2x 16-70								1x 25-240 2x 25-70			
• Screw size		M8								M12			
• Torque	Nm	15								30			
Terminal connection													
• Conductor cross-section (Al/Cu), rm	mm ²	1x 10-50								1x 16-185			
• Conductor cross-section (Al/Cu), re	mm ²	1x 10-50								1x 16-150			
• Conductor cross-section (Al/Cu), sm	mm ²	1x 16-95								1x 35-240			
• Conductor cross-section (Al/Cu), se	mm ²	1x 16-95								1x 35-300			
• Required torque	Nm	15								25			

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

Main devices of sizes 2 and 3

Size		Size 2				Size 3					
Switch disconnectors with fuses type 3NJ62...	NH	...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		
	BS	...82-3 ...82-4			...83-3 ...83-4	...92-3 ...92-4		...94-1 ...94-2	...93-3 ...93-4 ...33-3 ...33-4		
Breaking capacity		H		S	H	H		S	H		
Rated insulation voltage U_i	V	1000									
Rated impulse withstand voltage U_{imp}	V	8000									
Rated operational current I_e • For fuse links according to IEC 60269/ BS88	A	400				630		500	630	500	
For fuse links according to IEC 60269		2 and 1				3 and 2					
For BS fuse links acc. to BS 88		B4				3T ¹⁾					
Rated operational voltage U_e • At 50/60Hz rated frequency • At DC	V V	-- 230	-- 440	690 --		230 --	440 --	500 --	690 --	500 --	690 --
Utilization category		DC23B	DC21B	AC22B	AC23B	DC23B	DC21B	AC22B	AC23B		
Rated conditional short-circuit current • Short-circuit strength (rms value) • Short-circuit making capacity (rms value)	kA kA	60 60		100 55		60 60		100 55		66	
Rated making capacity • p.f. = 0.65 • p.f. = 0.45 • p.f. = 0.35	A A A	-- -- --	-- -- --	1200 -- --	-- -- 4000	-- -- --	-- -- --	1890 -- --	1500 -- --	-- -- 6300	-- -- 5000
Rated breaking capacity • p.f. = 0.65 • p.f. = 0.45 • p.f. = 0.35	A A A	-- -- --	-- -- --	1200 -- --	-- -- 3200	-- -- --	-- -- --	1890 -- --	1500 -- --	-- -- 5040	-- -- 4000
Endurance											
Operating cycles total • Electrical (690 V, p.f. = 0.65)		1000 200				1000 200					
Power loss (no fuse links)	W	158				357					
Permissible ambient temperature	°C	-5...+55									
Permissible mounting positions		Horizontal and vertical with bottom connection									
Degree of protection (in operating state)		IP41									
Connection type		Main conductor connections									
Cable lug connection Conductor cross-section • Conductor cross-section (Al/Cu, solid or stranded) according to DIN 46235 (Cu) and DIN 46239 (Al) • Screw size • Torque	mm ² Nm	1x 25-300 2x 25-240 2x M12 30				1x 25-300 2x 25-240 2x M12 30					
Terminal connection • Conductor cross-section (Al/Cu), rm • Conductor cross-section (Al/Cu), re • Conductor cross-section (Al/Cu), sm • Conductor cross-section (Al/Cu), se • Required torque	mm ² mm ² mm ² mm ² Nm	2x 16-185 2x 16-150 2x 35-240 2x 35-300 25				2x 16-185 2x 16-150 2x 35-240 2x 35-300 25					

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

Switch Disconnectors

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

Introduction

Auxiliary switches

Acc. to IEC 60947-5-1		
Rated insulation voltage U_i	V	690
Rated impulse withstand voltage U_{imp}	V	8000
Rated operational current I_e		
• At AC15, $U_e = 120$ V	A	8
• At AC15, $U_e = 230$ V	A	6
• At AC15, $U_e = 400$ V	A	4
• At AC15, $U_e = 690$ V	A	2

Electronic fuse monitor, AC version (EFM 10)

Size		Size 00	Size 1	Size 2 / Size 3
Apparent power consumption	VA	S approx. 2.5		
Internal resistance of measurement circuit	MΩ	$R_{in} > 6$		
Storage temperature	°C	- 20 ... + 80		
Operating temperature	°C	- 5 ... + 55		
Operating temperature (500 V and/or 500 A)	°C	- 5 ... + 35		
Protection rating 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 monitor, AC version (EFM 20)

Size		Size 00	Size 1	Size 2 / Size 3
Apparent power consumption	VA	S approx. 2.5		
Internal resistance of measurement circuit	mΩ	R _{in} > 6		
Storage temperature	°C	- 20 ... + 80		
Operating temperature	°C	- 5 ... + 55		
Operating temperature (500 V and/or 500 A)	°C	- 5 ... + 35		
Protection rating in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V AC	230 ... 690		
	Hz	50/60		
Voltage limits	%	±15		
Undervoltage	V	375		
Overvoltage	V	425		
Voltage drop for faulty fuses	V	> 13		
Delay time	s	0.1		
Relay 2		as relay 1 (fuse monitor)		
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 gLaG		

Electronic fuse monitor, DC version (EFM 25)

Size		Size 00	Size 1	Size 2 / Size 3
Apparent power consumption	VA	S approx. 2.5		
Internal resistance of measurement circuit	MΩ	$R_{in} > 6$		
Storage temperature	°C	- 20 ... + 80		
Operating temperature	°C	- 5 ... + 55		
Operating temperature (500 V and/or 500 A)	°C	- 5 ... + 35		
Protection rating in closed in-line connector		IP40		
Rated operating voltage of the main control switching devices	V DC	220 ... 440		
Voltage limits	%	±15		
Undervoltage	V	200		
Overvoltage	V	240		
Voltage drop for faulty fuses	V	> 20		
Delay time	s	0.1		
Relay 2		as relay 1 (fuse monitor)		
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		
• Moving-iron measuring instruments		1.2 times
• Bi-metal measuring instruments		2 times
Slave pointer		
• Moving-iron measuring instruments	min	--
• Bi-metal measuring instruments	min	15
Power consumption		
• Moving-iron measuring instruments	VA	0.6
• Bi-metal measuring instruments	VA	1

Motorized operating mechanism

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

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	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
2-pole, high breaking capacity H									
	Manually operated								
	160	00		3NJ62 02-3AA0□-0AA0		1	1 unit	143	3.630
	250	1		3NJ62 12-3AA0□-0AA0		1	1 unit	143	6.750
	400	2		3NJ62 22-3AA0□-0AA0		1	1 unit	143	15.000
	630	3		3NJ62 32-3AA0□-0AA0		1	1 unit	143	15.360
	Manually operated, EFM 25								
	160	00		3NJ62 02-3AE0□-0AA0		1	1 unit	143	3.830
	250	1		3NJ62 12-3AE0□-0AA0		1	1 unit	143	6.950
	400	2		3NJ62 22-3AE0□-0AA0		1	1 unit	143	15.200
	630	3		3NJ62 32-3AE0□-0AA0		1	1 unit	143	15.560
	Motorized operating mechanism								
	160	00		3NJ62 02-4AA0□-0AA0		1	1 unit	143	3.630
	250	1		3NJ62 12-4AA0□-0AA0		1	1 unit	143	6.750
	400	2		3NJ62 22-4AA0□-0AA0		1	1 unit	143	15.000
	630	3		3NJ62 32-4AA0□-0AA0		1	1 unit	143	15.360
	Motorized operat. mechanism, EFM 25								
	160	00		3NJ62 02-4AE0□-0AA0		1	1 unit	143	4.330
	250	1		3NJ62 12-4AE0□-0AA0		1	1 unit	143	7.450
	400	2		3NJ62 22-4AE0□-0AA0		1	1 unit	143	15.700
	630	3		3NJ62 32-4AE0□-0AA0		1	1 unit	143	16.060
3-pole, standard breaking capacity S									
	Manually operated								
	160	00		3NJ62 03-1AA0□-□□□□		1	1 unit	143	3.630
	250	1		3NJ62 13-1AA0□-□□□□		1	1 unit	143	6.750
	400	2		3NJ62 23-1AA0□-□□□□		1	1 unit	143	15.000
	630	3		3NJ62 33-1AA0□-□□□□		1	1 unit	143	15.360
	Manually operated, EFM 10								
	160	00		3NJ62 03-1AB0□-□□□□		1	1 unit	143	3.830
	250	1		3NJ62 13-1AB0□-□□□□		1	1 unit	143	6.950
	400	2		3NJ62 23-1AB0□-□□□□		1	1 unit	143	15.200
	630	3		3NJ62 33-1AB0□-□□□□		1	1 unit	143	15.560
	Manually operated, EFM 20								
	160	00		3NJ62 03-1AC0□-□□□□		1	1 unit	143	3.830
	250	1		3NJ62 13-1AC0□-□□□□		1	1 unit	143	6.950
	400	2		3NJ62 23-1AC0□-□□□□		1	1 unit	143	15.200
	630	3		3NJ62 33-1AC0□-□□□□		1	1 unit	143	15.560
3-pole, high breaking capacity H									
	Manually operated								
	160	00		3NJ62 03-3AA0□-□□□□		1	1 unit	143	3.630
	250	1		3NJ62 13-3AA0□-□□□□		1	1 unit	143	6.750
	400	2		3NJ62 23-3AA0□-□□□□		1	1 unit	143	15.000
	630	3		3NJ62 33-3AA0□-□□□□		1	1 unit	143	15.360
	Manually operated, EFM 10								
	160	00		3NJ62 03-3AB0□-□□□□		1	1 unit	143	3.830
	250	1		3NJ62 13-3AB0□-□□□□		1	1 unit	143	6.950
	400	2		3NJ62 23-3AB0□-□□□□		1	1 unit	143	15.200
	630	3		3NJ62 33-3AB0□-□□□□		1	1 unit	143	15.560
	Manually operated, EFM 20								
	160	00		3NJ62 03-3AC0□-□□□□		1	1 unit	143	3.830
	250	1		3NJ62 13-3AC0□-□□□□		1	1 unit	143	6.950
	400	2		3NJ62 23-3AC0□-□□□□		1	1 unit	143	15.200
	630	3		3NJ62 33-3AC0□-□□□□		1	1 unit	143	15.560
	Motorized operating mechanism								
	160	00		3NJ62 03-4AA0□-□□□□		1	1 unit	143	3.630
	250	1		3NJ62 13-4AA0□-□□□□		1	1 unit	143	6.750
	400	2		3NJ62 23-4AA0□-□□□□		1	1 unit	143	15.000
	630	3		3NJ62 33-4AA0□-□□□□		1	1 unit	143	15.360
	Motorized operat. mechanism, EFM 10								
	160	00		3NJ62 03-4AB0□-□□□□		1	1 unit	143	4.330
	250	1		3NJ62 13-4AB0□-□□□□		1	1 unit	143	7.450
	400	2		3NJ62 23-4AB0□-□□□□		1	1 unit	143	15.700
	630	3		3NJ62 33-4AB0□-□□□□		1	1 unit	143	16.060
	Motorized operat. mechanism, EFM 20								
	160	00		3NJ62 03-4AC0□-□□□□		1	1 unit	143	4.330
	250	1		3NJ62 13-4AC0□-□□□□		1	1 unit	143	7.450
	400	2		3NJ62 23-4AC0□-□□□□		1	1 unit	143	15.700
	630	3		3NJ62 33-4AC0□-□□□□		1	1 unit	143	16.060

Order No. supplement

Add. price

Standard Order No. supplement
(more Order No. supplements from page 7/99 onwards)

Without auxiliary switches, ammeters, current transformers



None

Switch Disconnectors

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

For LV HRC fuse links

Rated current I_n	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
A								
4-pole, standard breaking capacity S								
Manually operated								
160	00		3NJ62 04-1AA0□-□□□□		1	1 unit	143	6.160
250	1		3NJ62 14-1AA0□-□□□□		1	1 unit	143	10.380
400	2		3NJ62 24-1AA0□-□□□□		1	1 unit	143	18.900
630	3		3NJ62 34-1AA0□-□□□□		1	1 unit	143	20.000
Manually operated, EFM 10								
160	00		3NJ62 04-1AB0□-□□□□		1	1 unit	143	6.830
250	1		3NJ62 14-1AB0□-□□□□		1	1 unit	143	9.950
400	2		3NJ62 24-1AB0□-□□□□		1	1 unit	143	18.200
630	3		3NJ62 34-1AB0□-□□□□		1	1 unit	143	18.560
Manually operated, EFM 20								
160	00		3NJ62 04-1AC0□-□□□□		1	1 unit	143	6.830
250	1		3NJ62 14-1AC0□-□□□□		1	1 unit	143	9.950
400	2		3NJ62 24-1AC0□-□□□□		1	1 unit	143	18.200
630	3		3NJ62 34-1AC0□-□□□□		1	1 unit	143	18.560
Motorized operating mechanism								
160	00		3NJ62 04-2AA0□-□□□□		1	1 unit	143	6.160
250	1		3NJ62 14-2AA0□-□□□□		1	1 unit	143	10.380
400	2		3NJ62 24-2AA0□-□□□□		1	1 unit	143	18.900
630	3		3NJ62 34-2AA0□-□□□□		1	1 unit	143	20.000
Motorized operat. mechanism, EFM 10								
160	00		3NJ62 04-2AB0□-□□□□		1	1 unit	143	7.330
250	1		3NJ62 14-2AB0□-□□□□		1	1 unit	143	10.450
400	2		3NJ62 24-2AB0□-□□□□		1	1 unit	143	18.700
630	3		3NJ62 34-2AB0□-□□□□		1	1 unit	143	19.060
Motorized operat. mechanism, EFM 20								
160	00		3NJ62 04-2AC0□-□□□□		1	1 unit	143	7.330
250	1		3NJ62 14-2AC0□-□□□□		1	1 unit	143	10.450
400	2		3NJ62 24-2AC0□-□□□□		1	1 unit	143	18.700
630	3		3NJ62 34-2AC0□-□□□□		1	1 unit	143	19.060
Order No. supplement				Add. price				
Standard Order No. supplement (more Order No. supplements from page 7/99 onwards) Without auxiliary switches, ammeters, current transformers				 0 0AA0				
				None				

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

For BS fuse links

Selection and ordering data

Rated current I_n	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
A								
2-pole, high breaking capacity H								
Manually operated								
160	00T ¹⁾		3NJ62 62-3AA0□-0AA0		1	1 unit	143	3.630
250	B2		3NJ62 72-3AA0□-0AA0		1	1 unit	143	6.750
400	B4		3NJ62 82-3AA0□-0AA0		1	1 unit	143	15.000
630	3T ¹⁾		3NJ62 92-3AA0□-0AA0		1	1 unit	143	15.360
Manually operated, EFM 25								
160	00T ¹⁾		3NJ62 62-3AE0□-0AA0		1	1 unit	143	3.830
250	B2		3NJ62 72-3AE0□-0AA0		1	1 unit	143	6.950
400	B4		3NJ62 82-3AE0□-0AA0		1	1 unit	143	15.200
630	3T ¹⁾		3NJ62 92-3AE0□-0AA0		1	1 unit	143	15.560
Motorized operating mechanism								
160	00T ¹⁾		3NJ62 62-4AA0□-0AA0		1	1 unit	143	3.630
250	B2		3NJ62 72-4AA0□-0AA0		1	1 unit	143	6.750
400	B4		3NJ62 82-4AA0□-0AA0		1	1 unit	143	15.000
630	3T ¹⁾		3NJ62 92-4AA0□-0AA0		1	1 unit	143	15.360
Motorized operat. mechanism, EFM 25								
160	00T ¹⁾		3NJ62 62-4AE0□-0AA0		1	1 unit	143	4.330
250	B2		3NJ62 72-4AE0□-0AA0		1	1 unit	143	7.450
400	B4		3NJ62 82-4AE0□-0AA0		1	1 unit	143	15.700
630	3T ¹⁾		3NJ62 92-4AE0□-0AA0		1	1 unit	143	16.060
3-pole, high breaking capacity H								
Manually operated								
63	A3		3NJ62 43-3AA0□-□□□□		1	1 unit	143	3.630
100	A3		3NJ62 53-3AA0□-□□□□		1	1 unit	143	3.630
160	00T ¹⁾		3NJ62 63-3AA0□-□□□□		1	1 unit	143	3.630
250	B2		3NJ62 73-3AA0□-□□□□		1	1 unit	143	6.750
400	B4		3NJ62 83-3AA0□-□□□□		1	1 unit	143	15.000
630	3T ¹⁾		3NJ62 93-3AA0□-□□□□		1	1 unit	143	15.360
Manually operated, EFM 10								
160	00T ¹⁾		3NJ62 63-3AB0□-□□□□		1	1 unit	143	3.830
250	B2		3NJ62 73-3AB0□-□□□□		1	1 unit	143	6.950
400	B4		3NJ62 83-3AB0□-□□□□		1	1 unit	143	15.200
630	3T ¹⁾		3NJ62 93-3AB0□-□□□□		1	1 unit	143	15.560
Manually operated, EFM 20								
160	00T ¹⁾		3NJ62 63-3AC0□-□□□□		1	1 unit	143	3.830
250	B2		3NJ62 73-3AC0□-□□□□		1	1 unit	143	6.950
400	B4		3NJ62 83-3AC0□-□□□□		1	1 unit	143	15.200
630	3T ¹⁾		3NJ62 93-3AC0□-□□□□		1	1 unit	143	15.560
Motorized operating mechanism								
160	00T ¹⁾		3NJ62 63-4AA0□-□□□□		1	1 unit	143	3.630
250	B2		3NJ62 73-4AA0□-□□□□		1	1 unit	143	6.750
400	B4		3NJ62 83-4AA0□-□□□□		1	1 unit	143	15.000
630	3T ¹⁾		3NJ62 93-4AA0□-□□□□		1	1 unit	143	15.360
Motorized operat. mechanism, EFM 10								
160	00T ¹⁾		3NJ62 63-4AB0□-□□□□		1	1 unit	143	4.330
250	B2		3NJ62 73-4AB0□-□□□□		1	1 unit	143	7.450
400	B4		3NJ62 83-4AB0□-□□□□		1	1 unit	143	15.700
630	3T ¹⁾		3NJ62 93-4AB0□-□□□□		1	1 unit	143	16.060
Motorized operat. mechanism, EFM 20								
160	00T ¹⁾		3NJ62 63-4AC0□-□□□□		1	1 unit	143	4.330
250	B2		3NJ62 73-4AC0□-□□□□		1	1 unit	143	7.450
400	B4		3NJ62 83-4AC0□-□□□□		1	1 unit	143	15.700
630	3T ¹⁾		3NJ62 93-4AC0□-□□□□		1	1 unit	143	16.060

Standard Order No. supplement
 (more Order No. supplements from page 7/99 onwards)

Without auxiliary switches, ammeters, current transformers

Order No. supplement

Add. price


 0 0AA0

None

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

Switch Disconnectors

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

For BS fuse links

Rated current I_n	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
A								
4-pole, standard breaking capacity S								
Manually operated								
160	00T ¹⁾		3NJ62 64-1AA0□-□□□□		1	1 unit	143	6.160
250	B2		3NJ62 74-1AA0□-□□□□		1	1 unit	143	10.380
400	B4		3NJ62 84-1AA0□-□□□□		1	1 unit	143	18.900
630	3T ¹⁾		3NJ62 94-1AA0□-□□□□		1	1 unit	143	20.000
Manually operated, EFM 10								
160	00T ¹⁾		3NJ62 64-1AB0□-□□□□		1	1 unit	143	6.830
250	B2		3NJ62 74-1AB0□-□□□□		1	1 unit	143	9.950
400	B4		3NJ62 84-1AB0□-□□□□		1	1 unit	143	18.200
630	3T ¹⁾		3NJ62 94-1AB0□-□□□□		1	1 unit	143	18.560
Manually operated, EFM 20								
160	00T ¹⁾		3NJ62 64-1AC0□-□□□□		1	1 unit	143	6.830
250	B2		3NJ62 74-1AC0□-□□□□		1	1 unit	143	9.950
400	B4		3NJ62 84-1AC0□-□□□□		1	1 unit	143	18.200
630	3T ¹⁾		3NJ62 94-1AC0□-□□□□		1	1 unit	143	18.560
Motorized operating mechanism								
160	00T ¹⁾		3NJ62 64-2AA0□-□□□□		1	1 unit	143	6.160
250	B2		3NJ62 74-2AA0□-□□□□		1	1 unit	143	10.380
400	B4		3NJ62 84-2AA0□-□□□□		1	1 unit	143	18.900
630	3T ¹⁾		3NJ62 94-2AA0□-□□□□		1	1 unit	143	20.000
Motorized operat. mechanism, EFM 10								
160	00T ¹⁾		3NJ62 64-2AB0□-□□□□		1	1 unit	143	7.330
250	B2		3NJ62 74-2AB0□-□□□□		1	1 unit	143	10.450
400	B4		3NJ62 84-2AB0□-□□□□		1	1 unit	143	18.700
630	3T ¹⁾		3NJ62 94-2AB0□-□□□□		1	1 unit	143	19.060
Motorized operat. mechanism, EFM 20								
160	00T ¹⁾		3NJ62 64-2AC0□-□□□□		1	1 unit	143	7.330
250	B2		3NJ62 74-2AC0□-□□□□		1	1 unit	143	10.450
400	B4		3NJ62 84-2AC0□-□□□□		1	1 unit	143	18.700
630	3T ¹⁾		3NJ62 94-2AC0□-□□□□		1	1 unit	143	19.060

Standard Order No. supplement
(more Order No. supplements from page 7/99 onwards)

Without auxiliary switches, ammeters, current transformers ►

Order No. supplement

Add. price

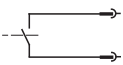
0 0AA0

None

Options

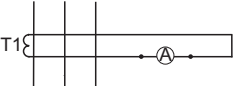
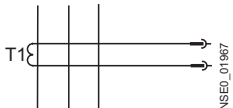
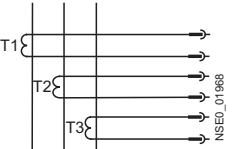
1. Order No. supplement:

Auxiliary switch wired to multi-function plug

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

2. Order No. supplement:

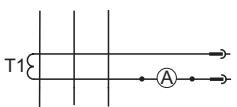
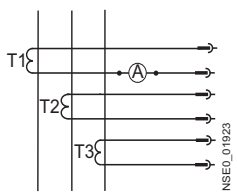
Ammeter and current transformer wired

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

Switch Disconnectors

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

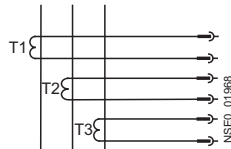
For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑↑	Additional price	PS*/ P. unit
		Primary current	Secondary current	Accuracy class				
		A	A					
For size NH 00 and BS 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

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

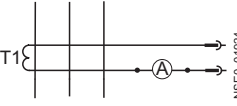
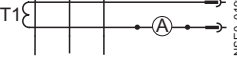
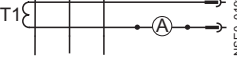
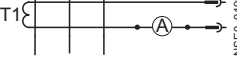
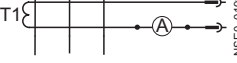
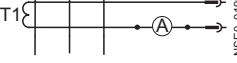
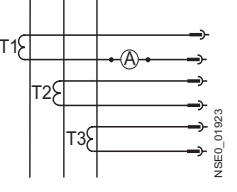
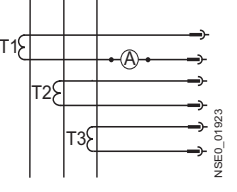
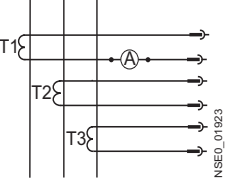
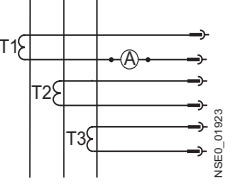
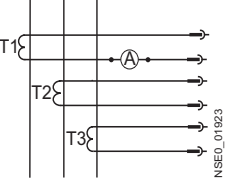
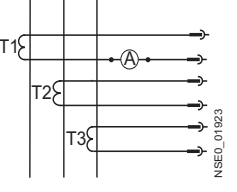
For LV HRC and BS fuse links

	Ammeters	Current transformers		DT	Order No. supplement 3NJ62□□□□ ↑↑↑↑	Additional price	PS/ P. unit
	Primary current	Secondary current	Accuracy class				
	A	A					
For size NH 1 and BS B2							
	Without	Without	Without	Without ▶	0AA0	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

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

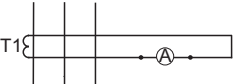
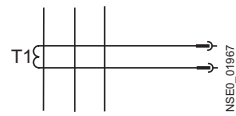
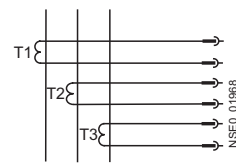
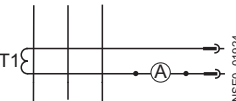
For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit
		Primary current	Secondary current	Accuracy class				
		A	A					
For size NH 1 and BS 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

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

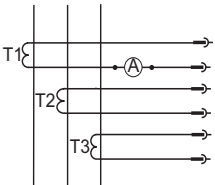
For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑↑	Additional price	PS*/ P. unit
		Primary current	Secondary current	Accuracy class				
		A	A					
For size NH 2 and BS 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

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

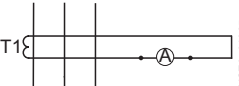
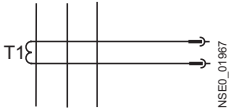
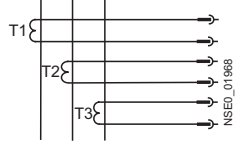
For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑↑	Additional price	PS*/ P. unit
		Primary current	Secondary current	Accuracy class				
		A	A					
For size NH 2 and BS B4 (continued)								
 NSE0_01923	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

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

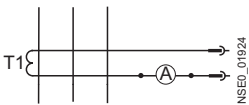
For LV HRC and BS fuse links

		Ammeters	Current transformers		DT	Order No. supplement	Additional price	PS/ P. unit
			Primary current	Secondary current	Accuracy class	3NJ62, □□□□		
			A	A		↑↑↑↑		
For size NH 3 and BS 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

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

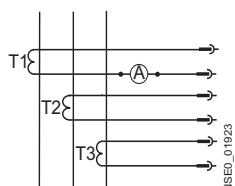
For LV HRC and BS fuse links

	Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ...-...-□□□□ ↑↑↑↑	Additional price	PS*/ P. unit
		Primary current	Secondary current	Accuracy class				
		A	A					
For size NH 3 and BS 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

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

For LV HRC and BS fuse links

Ammeters	Current transformers			DT	Order No. supplement 3NJ62 ..-.....□□□□ ↑↑↑↑↑	Additional price	PS*/ P. unit
	Primary current	Secondary current	Accuracy class				
	A	A					
For size NH 3 and BS 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

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

Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
For size NH 00, BS A3 and BS 00T								
 3NJ69 23-1BA00	Terminals							
	Single terminal for 2-/3-pole devices, 10 ... 95 mm ² (1 set = 3 units)	3NJ69 23-1BA00		1	1 unit	143	0.240	
 3NJ69 23-1DA00	Single terminal for 4-pole devices, 10 ... 95 mm ² (1 set = 4 units)	3NJ69 24-1BA00		1	1 unit	143	0.320	
	Terminal covers							
	For 2-/3-pole devices	3NJ69 23-1DA00		1	1 unit	143	0.091	
	Only for 4th pole	3NJ69 04-1DA00		1	1 unit	143	0.068	
 3NJ69 23-1EB00	Contact extensions							
	3-pole	3NJ69 23-1EB00		1	1 unit	143	1.998	
 3NJ69 23-3FB00	4-pole	3NJ69 24-1EB00		1	1 unit	143	2.810	
	Electronic fuse monitor and line monitor							
 3NJ69 23-3FB00	EFM 10 - fuse monitoring for AC networks	3NJ69 20-3FB00		1	1 unit	143	0.100	
	EFM 20 - fuse monitoring and line monitoring for AC networks	3NJ69 20-3FC00		1	1 unit	143	0.100	
 3NJ69 23-3FC00	EFM 25 - fuse monitoring and line monitoring for DC networks	3NJ69 20-3FE00		1	1 unit	143	0.100	
	Auxiliary switches							
 3NJ69 20-2BB00	1 NO contact (1 NO) with cover	3NJ69 20-2BB00		1	1 unit	143	0.103	
	1 NO contact (1 NO)	3NJ69 00-2BC00		1	1 unit	143	0.015	
	1 NC contact (1 NC) with cover	3NJ69 20-2CB00		1	1 unit	143	0.092	
	1 NC contact (1 NC)	3NJ69 00-2CC00		1	1 unit	143	0.018	
 3NJ69 00-2BC00								
 3NJ69 20-3BD11	Current transformers for main devices and contact extensions							
	Ø = Feed-through opening diameter							
	50 A / 1 A	Class 1	1 VA, Ø 21 mm	3NJ69 20-3BB11	1	1 unit	143	0.171
	50 A / 5 A	Class 1	1 VA, Ø 21 mm	3NJ69 20-3BB21	1	1 unit	143	0.168
	100 A / 1 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 20-3BD11	1	1 unit	143	0.172
	100 A / 1 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BD12	1	1 unit	143	0.173
	100 A / 1 A	Class 0.5 calibrated	1.5 VA, Ø 14 mm	3NJ69 20-3BD13	1	1 unit	143	0.223
	100 A / 5 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 20-3BD21	1	1 unit	143	0.175
	100 A / 5 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BD22	1	1 unit	143	0.173
	100 A / 5 A	Class 0.5 calibrated	1.5 VA, Ø 14 mm	3NJ69 20-3BD23	1	1 unit	143	0.188
	150 A / 1 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 20-3BE11	1	1 unit	143	0.175
	150 A / 1 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BE12	1	1 unit	143	0.182
	150 A / 1 A	Class 0.5 calibrated	2.5 VA, Ø 14 mm	3NJ69 20-3BE13	1	1 unit	143	0.170
	150 A / 5 A	Class 1	1.5 VA, Ø 21 mm	3NJ69 20-3BE21	1	1 unit	143	0.185
150 A / 5 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BE22	1	1 unit	143	0.173	
150 A / 5 A	Class 0.5 calibrated	2.5 VA, Ø 14 mm	3NJ69 20-3BE23	1	1 unit	143	0.182	

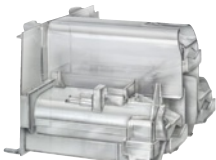
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH 00, BS A3 and BS 00T (continued)							
 3NJ69 20-3DB00	Current transformer busbars for current transformers with feed-through opening Ø 21 mm						
	For 1 current transformer		3NJ69 20-3DB00	1	1 unit	143	0.067
	For 3 current transformers		3NJ69 20-3DC00	1	1 unit	143	0.193
	For 4 current transformers ¹⁾		3NJ69 20-3DD00	1	1 unit	143	0.259
 3NJ69 20-3DC00	Current transformer busbars for current transformers with feed-through opening Ø 14 mm						
	For 1 current transformer		3NJ69 20-3DE00	1	1 unit	143	0.062
	For 3 current transformers		3NJ69 20-3DF00	1	1 unit	143	0.182
	For 4 current transformers ¹⁾		3NJ69 20-3DG00	1	1 unit	143	0.248
 3NJ69 00-4GA00	Holders for ammeters						
	For sizes 00, 1, 2, 3		3NJ69 00-4GA00	1	1 unit	143	0.056
 3NJ69 00-4H...	Ammeters						
	Moving-iron measuring instruments for measurements on transformer x/1A with double overload						
	50 A / 1 A 0.6 VA	3NJ69 00-4HB11	1	1 unit	143	0.084	
	100 A / 1 A 0.6 VA	3NJ69 00-4HD11	1	1 unit	143	0.086	
 3NJ69 00-4H...	Moving-iron measuring instruments for measurements on transformer x/5A with double overload						
	50 A / 5 A 0.6 VA	3NJ69 00-4HB21	1	1 unit	143	0.092	
	100 A / 5 A 0.6 VA	3NJ69 00-4HD21	1	1 unit	143	0.093	
	150 A / 5 A 0.6 VA	3NJ69 00-4HE21	1	1 unit	143	0.092	
 3NJ69 00-4H...	Bi-metal measuring instruments for measurements on transformer x/1A with 1.2-times the overload						
	50 A / 1 A 1 VA	3NJ69 00-4HB12	1	1 unit	143	0.068	
	100 A / 1 A 1 VA	3NJ69 00-4HD12	1	1 unit	143	0.068	
	150 A / 1 A 1 VA	3NJ69 00-4HE12	1	1 unit	143	0.068	
 3NJ69 00-4H...	Bi-metal measuring instruments for measurements on transformer x/5A with 1.2-times the overload						
	50 A / 5 A 1 VA	3NJ69 00-4HB22	1	1 unit	143	0.067	
	100 A / 5 A 1 VA	3NJ69 00-4HD22	1	1 unit	143	0.065	
	150 A / 5 A 1 VA	3NJ69 00-4HE22	1	1 unit	143	0.065	
 3NJ69 20-3EB00	Multi-function plugs						
	6 x 2.5 mm ² , with fixing screws	3NJ69 20-3EB00	1	1 unit	143	0.046	
	8 x 2.5 mm ² , without fixing screws	3NJ69 20-3ED00	1	1 unit	143	0.055	
	10 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws	3NJ69 20-3EE00	1	1 unit	143	0.070	
 3NJ69 23-4BB00	Front panel						
	For NH: 3NJ62 03-1AA... and 3NJ62 03-3AA... without/with EFM	3NJ69 23-4BB00	1	1 unit	143	0.345	
	For BS: 3NJ62 03-1AA... and 3NJ62 03-3AA... without/with EFM	3NJ69 23-4BC00	1	1 unit	143	0.400	

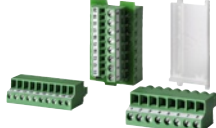
¹⁾ Not available in combination with multi-function plug.

Switch Disconnectors

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

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH 1 and BS B2								
 3NJ69 33-1BA00	Terminals							
	Single terminal for 2-/3-pole devices, 16 ... 300 mm ² (1 set = 3 units)		3NJ69 33-1BA00		1	1 unit	143	0.440
 3NJ69 33-1DA00  3NJ69 33-1DB00	Terminal covers							
	For 2-/3-pole devices		3NJ69 33-1DA00		1	1 unit	143	0.242
	Internal terminal covers for 2-/3-pole devices		3NJ69 33-1DB00		1	1 unit	143	0.022
	Only for 4th pole		3NJ69 04-1DA00		1	1 unit	143	0.068
 3NJ69 33-1EB00	Contact extensions							
	3-pole		3NJ69 33-1EB00		1	1 unit	143	2.820
	4-pole		3NJ69 34-1EB00		1	1 unit	143	4.103
 3NJ69 23-3FB00  3NJ69 23-3FC00	Electronic fuse monitor and line monitor							
	EFM 10 - fuse monitoring for AC networks		3NJ69 30-3FB00		1	1 unit	143	0.100
	EFM 20 - fuse monitoring and line monitoring for AC networks		3NJ69 30-3FC00		1	1 unit	143	0.110
 3NJ69 30-2BB00  3NJ69 00-2BC00	Auxiliary switches							
	1 NO contact (1 NO) with cover		3NJ69 30-2BB00		1	1 unit	143	0.068
	1 NO contact (1 NO)		3NJ69 00-2BC00		1	1 unit	143	0.015
	1 NC contact (1 NC) with cover		3NJ69 30-2CB00		1	1 unit	143	0.063
	1 NC contact (1 NC)		3NJ69 00-2CC00		1	1 unit	143	0.018
 3NJ69 20-3BD11	Current transformers for main devices and contact extensions							
	Ø = Feed-through opening diameter							
	50 A / 1 A	Class 1	1 VA, Ø 21 mm	3NJ69 20-3BB11	1	1 unit	143	0.171
	50 A / 5 A	Class 1	1 VA, Ø 21 mm	3NJ69 20-3BB21	1	1 unit	143	0.168
	100 A / 1 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 20-3BD11	1	1 unit	143	0.172
	100 A / 1 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BD12	1	1 unit	143	0.173
	100 A / 5 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 20-3BD21	1	1 unit	143	0.175
	100 A / 5 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BD22	1	1 unit	143	0.173
	150 A / 1 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 20-3BE11	1	1 unit	143	0.175
	150 A / 1 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BE12	1	1 unit	143	0.182
	150 A / 5 A	Class 1	1.5 VA, Ø 21 mm	3NJ69 20-3BE21	1	1 unit	143	0.185
	150 A / 5 A	Class 0.5	1.5 VA, Ø 21 mm	3NJ69 20-3BE22	1	1 unit	143	0.173
	200 A / 1 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 30-3BF11	1	1 unit	143	0.179
	200 A / 1 A	Class 0.5	5 VA, Ø 21 mm	3NJ69 30-3BF12	1	1 unit	143	0.177
	200 A / 5 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 30-3BF21	1	1 unit	143	0.173
	200 A / 5 A	Class 0.5	2.5 VA, Ø 21 mm	3NJ69 30-3BF22	1	1 unit	143	0.177
	250 A / 1 A	Class 1	5 VA, Ø 21 mm	3NJ69 30-3BG11	1	1 unit	143	0.181
	250 A / 1 A	Class 0.5	5 VA, Ø 21 mm	3NJ69 30-3BG12	1	1 unit	143	0.186
	250 A / 5 A	Class 1	2.5 VA, Ø 21 mm	3NJ69 30-3BG21	1	1 unit	143	0.181
	250 A / 5 A	Class 0.5	2.5 VA, Ø 21 mm	3NJ69 30-3BG22	1	1 unit	143	0.177

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH 1 and BS B2 (continued)							
 3NJ69 30-3DB00  3NJ69 30-3DC00  3NJ69 30-3DD00	Current transformer busbars for current transformers with feed-through opening $\varnothing$ 21 mm						
	For 1 current transformer		3NJ69 30-3DB00	1	1 unit	143	0.127
	For 3 current transformers		3NJ69 30-3DC00	1	1 unit	143	0.362
	For 4 current transformers ¹⁾		3NJ69 30-3DD00	1	1 unit	143	0.382
 3NJ69 00-4GA00	Holders for ammeters For sizes 00, 1, 2, 3		3NJ69 00-4GA00	1	1 unit	143	0.056
 3NJ69 00-4H...	Ammeters Moving-iron measuring instruments for measurements on transformer x/1A with double overload						
	50 A / 1 A	0.6 VA	3NJ69 00-4HB11	1	1 unit	143	0.084
	100 A / 1 A	0.6 VA	3NJ69 00-4HD11	1	1 unit	143	0.086
	150 A / 1 A	0.6 VA	3NJ69 00-4HE11	1	1 unit	143	0.085
	200 A / 1 A	0.6 VA	3NJ69 00-4HF11	1	1 unit	143	0.085
	250 A / 1 A	0.6 VA	3NJ69 00-4HG11	1	1 unit	143	0.085
	Moving-iron measuring instruments for measurements on transformer x/5A with double overload						
	50 A / 5 A	0.6 VA	3NJ69 00-4HB21	1	1 unit	143	0.092
	100 A / 5 A	0.6 VA	3NJ69 00-4HD21	1	1 unit	143	0.093
	150 A / 5 A	0.6 VA	3NJ69 00-4HE21	1	1 unit	143	0.092
	200 A / 5 A	0.6 VA	3NJ69 00-4HF21	1	1 unit	143	0.092
	250 A / 5 A	0.6 VA	3NJ69 00-4HG21	1	1 unit	143	0.089
 3NJ69 00-4H...	Bi-metal measuring instruments for measurements on transformer x/1A with 1.2-times the overload						
	50 A / 1 A	1 VA	3NJ69 00-4HB12	1	1 unit	143	0.068
	100 A / 1 A	1 VA	3NJ69 00-4HD12	1	1 unit	143	0.068
	150 A / 1 A	1 VA	3NJ69 00-4HE12	1	1 unit	143	0.068
	200 A / 1 A	1 VA	3NJ69 00-4HF12	1	1 unit	143	0.067
	250 A / 1 A	1 VA	3NJ69 00-4HG12	1	1 unit	143	0.068
	Bi-metal measuring instruments for measurements on transformer x/5A with 1.2-times the overload						
	50 A / 5 A	1 VA	3NJ69 00-4HB22	1	1 unit	143	0.067
	100 A / 5 A	1 VA	3NJ69 00-4HD22	1	1 unit	143	0.065
	150 A / 5 A	1 VA	3NJ69 00-4HE22	1	1 unit	143	0.065
	200 A / 5 A	1 VA	3NJ69 00-4HF22	1	1 unit	143	0.068
	250 A / 5 A	1 VA	3NJ69 00-4HG22	1	1 unit	143	0.066
 3NJ69 20-3EB00  3NJ69 40-3EE00	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						
			3NJ69 20-3EB00	1	1 unit	143	0.046
			3NJ69 20-3ED00	1	1 unit	143	0.055
			3NJ69 20-3EE00	1	1 unit	143	0.070
 3NJ69 33-4BB00	Front panel For NH: 3NJ62 13-1AA... and 3NJ62 13-3AA... without/with EFM For BS: 3NJ62 13-1AA... and 3NJ62 13-3AA... without/with EFM						
			3NJ69 33-4BB00	1	1 unit	143	0.521
			3NJ69 33-4BC00	1	1 unit	143	0.500

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

Switch Disconnectors

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

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH 2, NH 3, BS B4 and BS 3T								
 3NJ69 43-1CA00	Terminals Double terminal for 2-/3-pole devices, 2 x (16 mm ² ... 300 mm ² , 1 set = 6 units) Double terminal for 4-pole devices, 2 x (16 mm ² ... 300 mm ² , 1 set = 8 units)		3NJ69 43-1CA00		1	1 unit	143	0.869
			3NJ69 44-1CA00		1	1 unit	143	1.175
 3NJ69 43-1DA00	Terminal covers For 2-/3-pole devices Only for 4th pole		3NJ69 43-1DA00		1	1 unit	143	0.198
			3NJ69 04-1DA00		1	1 unit	143	0.068
 3NJ69 44-1EB00	Contact extensions 3-pole 4-pole		3NJ69 43-1EB00		1	1 unit	143	4.200
			3NJ69 44-1EB00		1	1 unit	143	8.620
 3NJ69 23-3FB00	Electronic fuse monitor and line monitor 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		3NJ69 40-3FB00		1	1 unit	143	0.100
			3NJ69 40-3FC00		1	1 unit	143	0.110
			3NJ69 40-3FE00		1	1 unit	143	0.100
 3NJ69 23-3FC00	Auxiliary switches 1 NO contact (1 NO) with cover 1 NO contact (1 NO) 1 NC contact (1 NC) with cover 1 NC contact (1 NC)		3NJ69 40-2BB00		1	1 unit	143	0.029
			3NJ69 00-2BC00		1	1 unit	143	0.015
 3NJ69 40-2BB00			3NJ69 40-2CB00		1	1 unit	143	0.026
			3NJ69 00-2CC00		1	1 unit	143	0.018
 3NJ69 00-2BC00	Current transformers for main devices and contact extensions							
 3NJ69 40-3B...	300 A / 1 A Class 1 5 VA 300 A / 1 A Class 0.5 5 VA 300 A / 1 A Class 0.5 calibrated 5 VA 300 A / 5 A Class 1 5 VA 300 A / 5 A Class 0.5 5 VA 300 A / 5 A Class 0.5 calibrated 5 VA 400 A / 1 A Class 1 5 VA 400 A / 1 A Class 0.5 5 VA 400 A / 1 A Class 0.5 calibrated 5 VA 400 A / 5 A Class 1 5 VA 400 A / 5 A Class 0.5 5 VA 400 A / 5 A Class 0.5 calibrated 5 VA 500 A / 1 A Class 1 5 VA 500 A / 1 A Class 0.5 5 VA 500 A / 1 A Class 0.5 calibrated 5 VA 500 A / 5 A Class 1 5 VA 500 A / 5 A Class 0.5 5 VA 500 A / 5 A Class 0.5 calibrated 5 VA 600 A / 1 A Class 1 5 VA 600 A / 1 A Class 0.5 5 VA 600 A / 1 A Class 0.5 calibrated 5 VA 600 A / 5 A Class 1 5 VA 600 A / 5 A Class 0.5 5 VA 600 A / 5 A Class 0.5 calibrated 5 VA		3NJ69 40-3BH11		1	1 unit	143	0.329
			3NJ69 40-3BH12		1	1 unit	143	0.503
			3NJ69 40-3BH13		1	1 unit	143	0.433
			3NJ69 40-3BH21		1	1 unit	143	0.324
			3NJ69 40-3BH22		1	1 unit	143	0.495
			3NJ69 40-3BH23		1	1 unit	143	0.429
			3NJ69 40-3BJ11		1	1 unit	143	0.353
			3NJ69 40-3BJ12		1	1 unit	143	0.440
			3NJ69 40-3BJ13		1	1 unit	143	0.384
			3NJ69 40-3BJ21		1	1 unit	143	0.326
			3NJ69 40-3BJ22		1	1 unit	143	0.356
			3NJ69 40-3BJ23		1	1 unit	143	0.364
			3NJ69 40-3BK11		1	1 unit	143	0.312
			3NJ69 40-3BK12		1	1 unit	143	0.359
			3NJ69 40-3BK13		1	1 unit	143	0.460
			3NJ69 40-3BK21		1	1 unit	143	0.342
			3NJ69 40-3BK22		1	1 unit	143	0.339
			3NJ69 40-3BK23		1	1 unit	143	0.374
			3NJ69 40-3BL11		1	1 unit	143	0.435
			3NJ69 40-3BL12		1	1 unit	143	0.432
			3NJ69 40-3BL13		1	1 unit	143	0.337
			3NJ69 40-3BL21		1	1 unit	143	0.368
			3NJ69 40-3BL22		1	1 unit	143	0.437
			3NJ69 40-3BL23		1	1 unit	143	0.389

Switch Disconnectors

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

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
For size NH 2, NH 3, BS B4 and BS 3T (continued)								
	Holders for ammeters For sizes 00, 1, 2, 3		3NJ69 00-4GA00		1	1 unit	143	0.056
	Ammeters Moving-iron measuring instruments for measuring input on transformer x/1A with double overload 300 A / 1 A 0.6 VA 400 A / 1 A 0.6 VA 500 A / 1 A 0.6 VA 600 A / 1 A 0.6 VA		3NJ69 00-4HH11 3NJ69 00-4HJ11 3NJ69 00-4HK11 3NJ69 00-4HL11		1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143	0.085 0.085 0.085 0.086
	Moving-iron measuring instruments for measuring input on transformer x/5A with double overload 300 A / 5 A 0.6 VA 400 A / 5 A 0.6 VA 500 A / 5 A 0.6 VA 600 A / 5 A 0.6 VA		3NJ69 00-4HH21 3NJ69 00-4HJ21 3NJ69 00-4HK21 3NJ69 00-4HL21		1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143	0.092 0.093 0.094 0.092
	Bi-metal measuring instruments for measurements on transformer x/1A with 1.2-times the overload 300 A / 1 A 1 VA 400 A / 1 A 1 VA 500 A / 1 A 1 VA 600 A / 1 A 1 VA		3NJ69 00-4HH12 3NJ69 00-4HJ12 3NJ69 00-4HK12 3NJ69 00-4HL12		1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143	0.067 0.063 0.067 0.068
	Bi-metal measuring instruments for measurements on transformer x/5A with 1.2-times the overload 300 A / 5 A 1 VA 400 A / 5 A 1 VA 500 A / 5 A 1 VA 600 A / 5 A 1 VA		3NJ69 00-4HH22 3NJ69 00-4HJ22 3NJ69 00-4HK22 3NJ69 00-4HL22		1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143	0.068 0.064 0.065 0.068
	Multi-function plugs 8 x 2.5 mm ² , with fixing screws 8 x 2.5 mm ² , without fixing screws 12 x 1.5 mm ² and 8 x 2.5 mm ² , without fixing screws		3NJ69 40-3EC00 3NJ69 40-3ED00 3NJ69 40-3EF00		1 1 1	1 unit 1 unit 1 unit	143 143 143	0.085 0.085 0.114
								
								
	Front panel For NH: 3NJ62 23-1AA... and 3NJ62 23-3AA... without/with EFM For BS: 3NJ62 23-1AA... and 3NJ62 23-3AA... without/with EFM For NH: 3NJ62 33-1AA... and 3NJ62 33-3AA... without/with EFM For BS: 3NJ62 33-1AA... and 3NJ62 33-3AA... without/with EFM		3NJ69 43-4BB00 3NJ69 43-4BC00 3NJ69 53-4BB00 3NJ69 53-4BC00		1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143	0.851 0.700 0.780 0.700

Switch Disconnectors

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

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Common accessories							
 3NJ69 16-4EA00	Busbar covers Mounting height 200 mm, IP20	3NJ69 16-4EA00		1	1 unit	113	0.490
	Blanking covers Mounting height 50 mm, IP41	3NJ69 00-4CB00		1	1 unit	143	0.335
 3NJ69 15-3BA00	Connection modules For power takeoff from field distribution bus up to 400 A	3NJ69 15-3BA00		1	1 unit	113	1.578
 3NJ69 00-4FB00	Guide rails Depth 200 mm (1 x left and 1 x right)	3NJ69 00-4FB00		1	1 unit	143	0.280
	Depth 400 mm (1 x left and 1 x right)	3NJ69 00-4FC00		1	1 unit	143	0.513
 3NJ69 00-4FC00	NH fuse puller tongs For NH00 For NH1, 2, 3	XPT:8PT9624 XPT:8PT9625		1 1	1 unit 1 unit	195 195	0.497 0.505

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Introduction

Overview

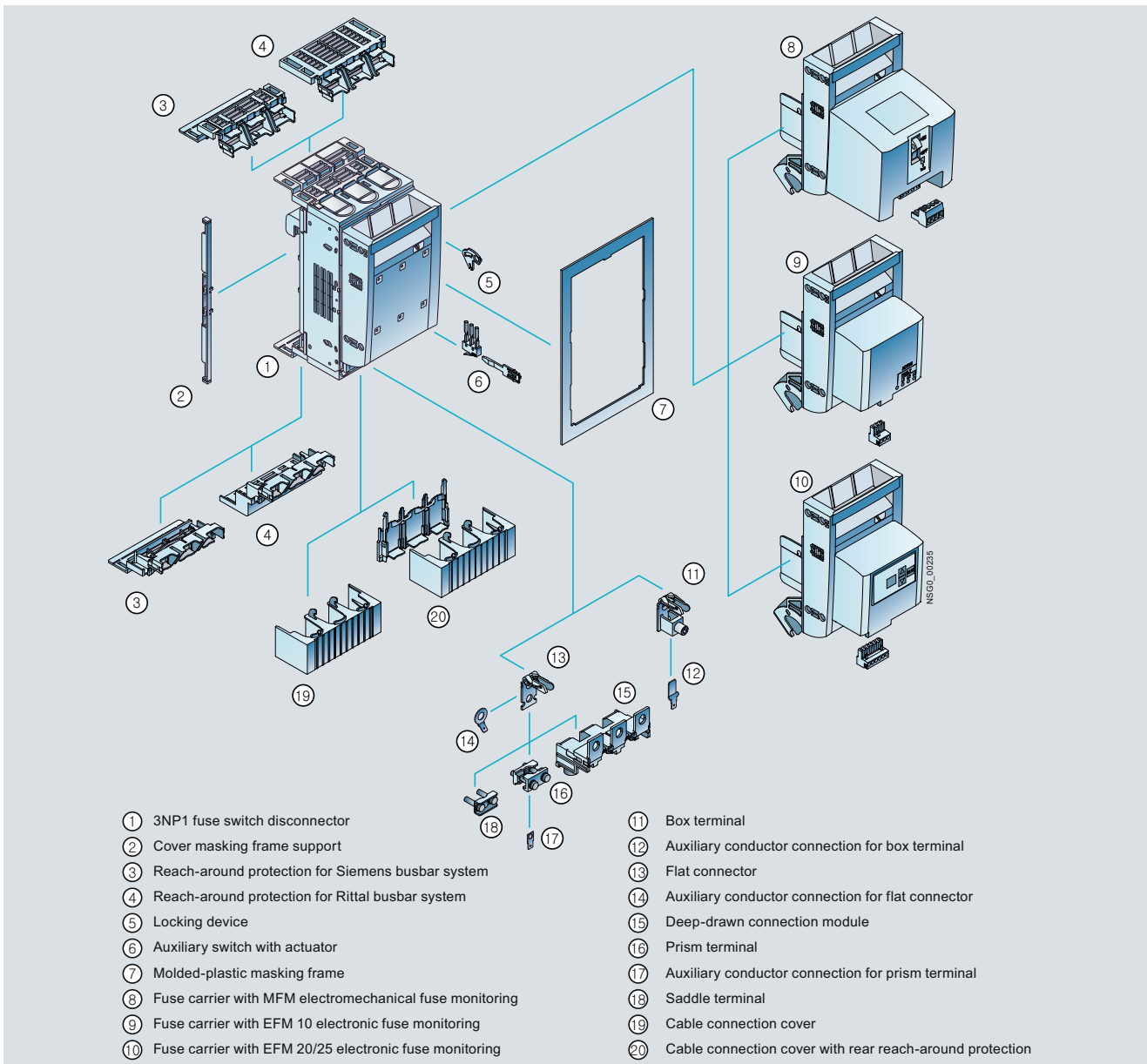


3NP1 fuse switch disconnectors

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



Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Introduction

Benefits

Advantages during planning and configuration

- Low level of equipment variation due to easy convertibility of cable feeder at top/bottom (delivered from factory with cable feeder at bottom)
- Only one device version 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 switchgear 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 two 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 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 switchgear 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 monitors are used to detect, indicate and report faults:

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

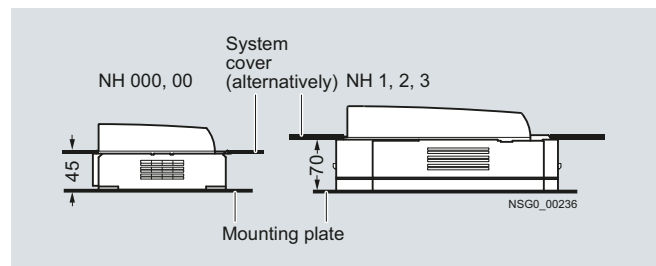
Standards and specifications

The 3NP1 fuse switch disconnectors are compliant with:

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

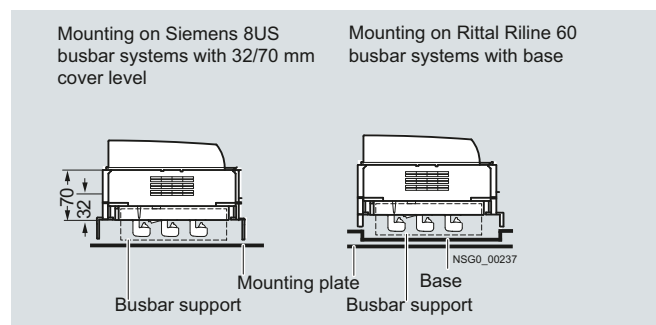
Mounting

Floor mounting



3NP1 fuse switch disconnector for floor mounting

Busbar mounting



3NP1 fuse switch disconnector for busbar mounting

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			3NP1 123...	3NP1 133...	3NP1 143...	3NP1 153...	3NP1 163...
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							
50 Hz / 60 Hz AC	V		690	690	690	690	690
DC (3 conduct. paths series-connected)	V		440	440	440	440	440
DC (2 conduct. paths series-connected)	V		220/240	220/240	220/240	220/240	220/240
Rated insulation voltage $U_i^{2)}$	V		1000	1000	1000	1000	1000
Rated impulse withstand voltage U_{imp}	kV		8	8	8	8	8
Rated conditional short-circuit current with fuses (by fast switch on)	Size / A		000/160	00/160	1/250	2/400	3/630
Rated current at 500 V / 690 V AC	kA		80/80	80/80	80/50	80/50	50/50
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 AC, rms value	kA		120/120	120/120	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	240 V DC	A	160	160	250	400	630
• At DC-22B	240 V DC	A	100	160	250	400	630
• At DC-23B	240 V DC	A	80	100	200	250	400
• At DC-21B	440 V DC	A	100	160	250	400	630
• At DC-22B	440 V DC	A	50	125	200	315	500
• At DC-23B	440 V DC	A	25	63	100	160	250
Capacitor switching capacity							
At 400 V AC							
• Capacitor rating	kvar		50	50	50	50	50
• Rated current I_n	A		72	72	72	72	72
At 525 V AC							
• Capacitor rating	kvar		50	50	50	50	50
• Rated current I_n	A		55	55	55	55	55
Permissible ambient temperature ³⁾	°C		-25 ...+55°C (operating), -50 ...+80°C (storage)				
Mechanical endurance, operating cycles			2000	2000	1600	1000	1000
Degree of protection (operator side)							
W/o 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 terminals	mm ²	1.5 ... 50	1.5 ... 50	6 ... 70	70 ... 185	120 ... 240	150 ... 300
Prism terminal	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	8 x 8	9 x 8	10 x 20	10 x 32	20 x 32
Rated operational current of auxiliary switch (at max. 250 V AC)							
3NP19...-1FA00 auxiliary switch	A		0.25 (I_{th} = 5 A)				
3NP19...-1FB00 auxiliary switch (solid-state compatible)	A		0.1 (I_{th} = 0.1 A)				
Permissible mounting positions			Vertical and horizontal (no derating)				

¹⁾ 160 A available in combination with feeder terminal 3NP1 923-1BD00, 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 (NH) fuse systems with characteristic gG. If using fuses for semiconductor protection, please refer to the assignment table, [see page 7/132](#).

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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Floor mounting

Selection and ordering data

	Rated current I_N	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
For 45 mm cover level									
	Basic units								
	Flat terminals								
	160	00		3NP1 133-1CA10		1	1 unit	143	0.842
	Box terminals								
	100 ¹⁾	000		3NP1 123-1CA20		1	1 unit	143	0.546
	160	00		3NP1 133-1CA20		1	1 unit	143	0.849
With MFM electromechanical fuse monitoring									
	Flat terminals								
	160	00		3NP1 133-1CA11		1	1 unit	143	1.399
	Box terminals								
	160	00		3NP1 133-1CA21		1	1 unit	143	1.399
With electronic EFM 10 fuse monitoring									
	Flat terminals								
	160	00		3NP1 133-1CA12		1	1 unit	143	1.103
	Box terminals								
	100 ¹⁾	000		3NP1 123-1CA22		1	1 unit	143	0.697
	160	00		3NP1 133-1CA22		1	1 unit	143	1.126
With electronic EFM 20 fuse monitoring and line monitoring									
	Flat terminals								
	160	00		3NP1 133-1CA13		1	1 unit	143	1.134
	Box terminals								
	100 ¹⁾	000		3NP1 123-1CA23		1	1 unit	143	0.716
	160	00		3NP1 133-1CA23		1	1 unit	143	1.142

¹⁾ 160 A available in combination with feeder terminal 3NP1 923-1BD00

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Floor mounting

	Rated current I_n	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
For 70 mm cover level									
	Basic units								
	Flat terminals								
	250	1		3NP1 143-1DA10		1	1 unit	143	2.789
	400	2		3NP1 153-1DA10		1	1 unit	143	3.675
	630	3		3NP1 163-1DA10		1	1 unit	143	4.639
	Box terminals								
	250	1		3NP1 143-1DA20		1	1 unit	143	2.950
	400	2		3NP1 153-1DA20		1	1 unit	143	4.600
	630	3		3NP1 163-1DA20		1	1 unit	143	5.220
	With MFM electromechanical fuse monitoring								
	Flat terminals								
	250	1		3NP1 143-1DA11		1	1 unit	143	3.590
	400	2		3NP1 153-1DA11		1	1 unit	143	6.500
	630	3		3NP1 163-1DA11		1	1 unit	143	5.300
	Box terminals								
	250	1		3NP1 143-1DA21		1	1 unit	143	3.630
	400	2		3NP1 153-1DA21		1	1 unit	143	5.115
	630	3		3NP1 163-1DA21		1	1 unit	143	5.908
	With electronic EFM 10 fuse monitoring								
	Flat terminals								
	250	1		3NP1 143-1DA12		1	1 unit	143	3.141
	400	2		3NP1 153-1DA12		1	1 unit	143	4.122
	630	3		3NP1 163-1DA12		1	1 unit	143	4.950
	Box terminals								
	250	1		3NP1 143-1DA22		1	1 unit	143	3.270
	400	2		3NP1 153-1DA22		1	1 unit	143	4.762
	630	3		3NP1 163-1DA22		1	1 unit	143	5.540
	With electronic EFM 20 fuse monitoring and line monitoring								
	Flat terminals								
	250	1		3NP1 143-1DA13		1	1 unit	143	3.151
	400	2		3NP1 153-1DA13		1	1 unit	143	4.104
	630	3		3NP1 163-1DA13		1	1 unit	143	4.972
	Box terminals								
	250	1		3NP1 143-1DA23		1	1 unit	143	3.307
	400	2		3NP1 153-1DA23		1	1 unit	143	4.792
	630	3		3NP1 163-1DA23		1	1 unit	143	5.594

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Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Selection and ordering data

	Rated current I_N	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
With reach-around protection suitable for Siemens 8US busbar system and Rittal 40 mm busbar system without base¹⁾									
	Basic units								
	Flat terminals								
	160	00		3NP1 133-1BB10		1	1 unit	143	1.112
	Box terminals								
	100 ²⁾	000		3NP1 123-1BB20		1	1 unit	143	0.950
	160	00		3NP1 133-1BB20		1	1 unit	143	1.135
With MFM electromechanical fuse monitoring									
	Flat terminals								
	160	00		3NP1 133-1BB11		1	1 unit	143	1.756
	Box terminals								
	160	00		3NP1 133-1BB21		1	1 unit	143	1.743
With electronic EFM 10 fuse monitoring									
	Flat terminals								
	160	00		3NP1 133-1BB12		1	1 unit	143	1.389
	Box terminals								
	100 ²⁾	000		3NP1 123-1BB22		1	1 unit	143	1.099
	160	00		3NP1 133-1BB22		1	1 unit	143	4.133
With electronic EFM 20 fuse monitoring and line monitoring									
	Flat terminals								
	160	00		3NP1 133-1BB13		1	1 unit	143	1.120
	Box terminals								
	100 ²⁾	000		3NP1 123-1BB23		1	1 unit	143	1.107
	160	00		3NP1 133-1BB23		1	1 unit	143	1.120

¹⁾ Cannot be used with T profile rails

²⁾ 160 A available in combination with feeder terminal 3NP1 923-1BD00

Note:

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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Rated current I_n	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
A								

With reach-around protection suitable for Rittal 40 mm busbar system with base¹⁾**Basic units****Flat terminals**

160

00

3NP1 133-1JB10

1

1 unit

143

1.115

Box terminals100¹⁾

000

3NP1 123-1JB20

1

1 unit

143

0.907

160

00

3NP1 133-1JB20

1

1 unit

143

0.112



3NP1 133-1JB20

With MFM electromechanical fuse monitoring**Flat terminals**

160

00

3NP1 133-1JB11

1

1 unit

143

1.670

Box terminals

160

00

3NP1 133-1JB21

1

1 unit

143

1.690



3NP1 133-1JB21

With electronic EFM 10 fuse monitoring**Flat terminals**

160

00

3NP1 133-1JB12

1

1 unit

143

1.120

Box terminals100¹⁾

000

3NP1 123-1JB22

1

1 unit

143

0.940

160

00

3NP1 133-1JB22

1

1 unit

143

1.120



3NP1 133-1JB22

With electronic EFM 20 fuse monitoring and line monitoring**Flat terminals**

160

00

3NP1 133-1JB13

1

1 unit

143

1.120

Box terminals100¹⁾

000

3NP1 123-1JB23

1

1 unit

143

0.940

160

00

3NP1 133-1JB23

1

1 unit

143

1.414



3NP1 133-1JB23

¹⁾ Cannot be used with T profile rails²⁾ 160 A available in combination with feeder terminal 3NP1 923-1BD00**Note:**

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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

Selection and ordering data

	Rated current I_N	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
With reach-around protection suitable for Siemens 8US, Wöhner Classic, and Rittal RiLine60 busbar systems without base									
 3NP1 133-1BC20	Basic units								
	Flat terminals								
	160	00		3NP1 133-1BC10		1	1 unit	143	1.155
	250	1		3NP1 143-1BC10		1	1 unit	143	3.245
	400	2		3NP1 153-1BC10		1	1 unit	143	4.314
	630	3		3NP1 163-1BC10		1	1 unit	143	5.260
	Box terminals								
	100 ¹⁾	000		3NP1 123-1BC20		1	1 unit	143	0.971
	160	00		3NP1 133-1BC20		1	1 unit	143	1.146
	250	1		3NP1 143-1BC20		1	1 unit	143	3.306
	400	2		3NP1 153-1BC20		1	1 unit	143	4.672
	630	3		3NP1 163-1BC20		1	1 unit	143	5.538
 3NP1 133-1BC21	With MFM electromechanical fuse monitoring								
	Flat terminals								
	160	00		3NP1 133-1BC11		1	1 unit	143	1.698
	250	1		3NP1 143-1BC11		1	1 unit	143	3.914
	400	2		3NP1 153-1BC11		1	1 unit	143	5.016
	630	3		3NP1 163-1BC11		1	1 unit	143	5.910
	Box terminals								
	160	00		3NP1 133-1BC21		1	1 unit	143	1.702
	250	1		3NP1 143-1BC21		1	1 unit	143	3.993
	400	2		3NP1 153-1BC21		1	1 unit	143	5.500
	630	3		3NP1 163-1BC21		1	1 unit	143	6.223
 3NP1 133-1BC22	With electronic EFM 10 fuse monitoring								
	Flat terminals								
	160	00		3NP1 133-1BC12		1	1 unit	143	1.394
	250	1		3NP1 143-1BC12		1	1 unit	143	3.564
	400	2		3NP1 153-1BC12		1	1 unit	143	4.666
	630	3		3NP1 163-1BC12		1	1 unit	143	5.555
	Box terminals								
	100 ¹⁾	000		3NP1 123-1BC22		1	1 unit	143	1.109
	160	00		3NP1 133-1BC22		1	1 unit	143	1.406
	250	1		3NP1 143-1BC22		1	1 unit	143	3.650
	400	2		3NP1 153-1BC22		1	1 unit	143	5.014
	630	3		3NP1 163-1BC22		1	1 unit	143	5.826
 3NP1 133-1BC23	With electronic EFM 20 fuse monitoring and line monitoring								
	Flat terminals								
	160	00		3NP1 133-1BC13		1	1 unit	143	1.411
	250	1		3NP1 143-1BC13		1	1 unit	143	3.641
	400	2		3NP1 153-1BC13		1	1 unit	143	4.750
	630	3		3NP1 163-1BC13		1	1 unit	143	5.611
	Box terminals								
	100 ¹⁾	000		3NP1 123-1BC23		1	1 unit	143	1.121
	160	00		3NP1 133-1BC23		1	1 unit	143	1.470
	250	1		3NP1 143-1BC23		1	1 unit	143	3.685
	400	2		3NP1 153-1BC23		1	1 unit	143	5.090
	630	3		3NP1 163-1BC23		1	1 unit	143	5.920

¹⁾ 160 A available in combination with feeder terminal 3NP1 923-1BD00

Note:

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

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

	Rated current I_u	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
With reach-around protection suitable for Rittal RiLine60 busbar system with base									
 3NP1 133-1JC20	Basic units								
	Flat terminals								
	160	00		3NP1 133-1JC10		1	1 unit	143	1.125
	250	1		3NP1 143-1JC10		1	1 unit	143	3.246
	400	2		3NP1 153-1JC10		1	1 unit	143	4.316
	630	3		3NP1 163-1JC10		1	1 unit	143	5.244
	Box terminals								
	100 ¹⁾	000		3NP1 123-1JC20		1	1 unit	143	0.912
	160	00		3NP1 133-1JC20		1	1 unit	143	1.123
	250	1		3NP1 143-1JC20		1	1 unit	143	3.323
	400	2		3NP1 153-1JC20		1	1 unit	143	4.670
	630	3		3NP1 163-1JC20		1	1 unit	143	5.522
	With MFM electromechanical fuse monitoring								
	Flat terminals								
 3NP1 133-1JC21	160	00		3NP1 133-1JC11		1	1 unit	143	1.700
	250	1		3NP1 143-1JC11		1	1 unit	143	3.960
	400	2		3NP1 153-1JC11		1	1 unit	143	5.050
	630	3		3NP1 163-1JC11		1	1 unit	143	6.012
	Box terminals								
	160	00		3NP1 133-1JC21		1	1 unit	143	1.715
	250	1		3NP1 143-1JC21		1	1 unit	143	4.100
	400	2		3NP1 153-1JC21		1	1 unit	143	5.400
	630	3		3NP1 163-1JC21		1	1 unit	143	6.310
	With electronic EFM 10 fuse monitoring								
	Flat terminals								
 3NP1 133-1JC22	160	00		3NP1 133-1JC12		1	1 unit	143	1.600
	250	1		3NP1 143-1JC12		1	1 unit	143	2.990
	400	2		3NP1 153-1JC12		1	1 unit	143	4.721
	630	3		3NP1 163-1JC12		1	1 unit	143	6.980
	Box terminals								
	100 ¹⁾	000		3NP1 123-1JC22		1	1 unit	143	1.065
	160	00		3NP1 133-1JC22		1	1 unit	143	1.397
	250	1		3NP1 143-1JC22		1	1 unit	143	3.700
	400	2		3NP1 153-1JC22		1	1 unit	143	5.130
	630	3		3NP1 163-1JC22		1	1 unit	143	7.180
	With electronic EFM 20 fuse monitoring and line monitoring								
	Flat terminals								
 3NP1 133-1JC23	160	00		3NP1 133-1JC13		1	1 unit	143	1.401
	250	1		3NP1 143-1JC13		1	1 unit	143	2.990
	400	2		3NP1 153-1JC13		1	1 unit	143	4.740
	630	3		3NP1 163-1JC13		1	1 unit	143	6.980
	Box terminals								
	100 ¹⁾	000		3NP1 123-1JC23		1	1 unit	143	1.086
	160	00		3NP1 133-1JC23		1	1 unit	143	1.413
	250	1		3NP1 143-1JC23		1	1 unit	143	3.690
	400	2		3NP1 153-1JC23		1	1 unit	143	5.130
	630	3		3NP1 163-1JC23		1	1 unit	143	7.180

¹⁾ 160 A available in combination with feeder terminal 3NP1 923-1BD00

Note:

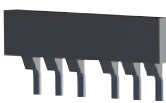
Delivered from factory with cable feeder at bottom and convertible by the customer

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

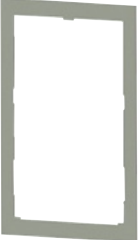
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH000							
	Connection methods Feeder terminals , 16 ... 95 mm ² (1 set = 3 units) • For 3NP1 123 with box terminal for use up to 160 A • For infeed when using the 3-phase busbar • For connection of copper conductors	3NP1 923-1BD00		1	1 unit	143	0.261
	Three-tier terminals , 3 x 2.5 ... 16 mm ² , (1 set = 3 units) • For 3NP1 123 with box terminal • For connection of copper conductors	3NP1 923-1BE20		1	1 unit	143	0.130
	Covering caps for 1 blank space on a three-phase busbar (1 set = 20 units)	3NP1 923-1BF10		1	1 unit	143	0.011
	3-phase busbar $I_u = \text{max. } 225 \text{ A}$ (1 set = 5 units) • For 2 x NH000 • For 3x NH000 • For 4x NH000	3NP1 923-1BF20 3NP1 923-1BF30 3NP1 923-1BF40		1 1 1	1 unit 1 unit 1 unit	143 143 143	0.267 0.431 0.656
	Connecting rail , $I_u = \text{max. } 225 \text{ A}$ for 3-phase busbar (1 set = 3 units)	3NP1 923-1BF50		1	1 unit	143	0.262
	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	3NP1 923-1BG40		1	1 unit	143	0.006
3NP1 933-1BG40							

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
For size NH000 (continued)							
Device covers, auxiliary switches							
 3NP1 923-1CA10	Reach-around protection for busbar mounting (1x top, 1x bottom)						
	- For Siemens 8US system - For Rittal system						
		3NP1 923-1CA10		1	1 unit	143	0.053
		3NP1 923-1CA20		1	1 unit	143	0.057
 3NP1 923-1CB00	Cable connection covers only for busbar systems 40 mm / 60 mm, top and bottom			1	1 unit	143	0.046
 3NP1 923-1CF00	Masking frame supports (1 set = 2 units)			1	1 unit	143	0.016
 3NP1 923-1DA00	System masking frames Dimensions (H x W) 215 x 130 mm			1	1 unit	143	0.059
 3NP1 923-1EA00	Fixing kits For 1 standard mounting rail			1	1 unit	143	0.069
 3NP1 920-1FA00	Auxiliary switches 1 CO contact			1	1 unit	143	0.018
	1 CO contact, solid-state compatible			1	1 unit	143	0.023
		3NP1 920-1FA00					
		3NP1 920-1FB00					
 3NP1 923-1GA00	Fuse carriers Standard			1	1 unit	143	0.159
	With electronic EFM 10 fuse monitoring			1	1 unit	143	0.316
	With electronic EFM 20 fuse monitoring and line monitoring			1	1 unit	143	0.323
	With electronic EFM 25 fuse monitoring and line monitoring			1	1 unit	143	0.338
		3NP1 923-1GA00					
		3NP1 923-1GB20					
		3NP1 923-1GB30					
		3NP1 923-1GB50					
 3NP1 900-1HA00	Locking devices (1 set = 10 units)			1	1 unit	143	0.023
		3NP1 900-1HA00					

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

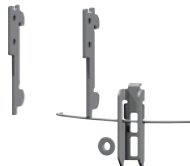
Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
For size NH00								
Connection methods								
	Saddle terminals , 1.5 ... 70 mm ² (1 set = 3 units) • For 3NP1 133 with flat terminal • For connection of copper conductors		3NP1 933-1BA00		1	1 unit	143	0.047
	Prism terminals single, 35 ... 95 mm ² (1 set = 3 units) • For 3NP1133 with flat terminal • For connection of copper or aluminum conductors		3NP1 933-1BB10		1	1 unit	143	0.126
	Terminal kits , 6 ... 70 mm ² For 32-mm cover level with box terminal • For 3NP1 133 with flat terminal • For connection of copper conductors		3NP1 933-1BC00		1	1 unit	143	0.193
	Three-tier terminals , 3 x 2.5 ... 16 mm ² (1 set = 3 units) • For 3NP1133 with flat terminal • For connection of copper conductors		3NP1 933-1BE10		1	1 unit	143	0.113
	Three-tier terminals , 3 x 2.5 ... 16 mm ² (1 set = 3 units) • For 3NP1133 with box terminal • For connection of copper conductors		3NP1 923-1BE20		1	1 unit	143	0.130
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm, max. 5 A for flat terminal (1 set = 3 units)		3NP1 933-1BG10		1	1 unit	143	0.006
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm, max. 5 A for prism terminal (1 set = 3 units)		3NP1 933-1BG30		1	1 unit	143	0.004
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm, max. 5 A for box terminal (1 set = 3 units)		3NP1 933-1BG40		1	1 unit	143	0.007

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH00 (continued)							
Device covers, auxiliary switches							
 3NP1 933-1CA10	Reach-around protection for busbar mounting (1x at top, 1x at bottom) • For Siemens 8US system • For Rittal system	3NP1 933-1CA10		1	1 unit	143	0.062
		3NP1 933-1CA20		1	1 unit	143	0.051
 3NP1 933-1CB00	Cable connection covers (at top and bottom) for flat terminal	3NP1 933-1CB00		1	1 unit	143	0.063
 3NP1 933-1CC00	Cable connection covers with rear reach-around protection in case of busbar mounting (at top and bottom) for flat terminal	3NP1 933-1CC00		1	1 unit	143	0.087
 3NP1 933-1CD00	Cable connection covers with rear reach-around protection in case of busbar mounting (at top and bottom) for flat terminal	3NP1 933-1CD00		1	1 unit	143	0.131
 3NP1 933-1CD00							
 3NP1 933-1CF00	Masking frame supports (1 set = 2 units)	3NP1 933-1CF00		1	1 unit	143	0.021
System masking frames							
Dimensions (H x W) 215 x 130 mm		3NP1 933-1DA00		1	1 unit	143	0.035
Fixing kits							
 3NP1 933-1EB00	For 2 standard mounting rails 125/150 mm	3NP1 933-1EB00		1	1 unit	143	0.054
Auxiliary switches							
 3NP1 930-1FB00	1 CO contact	3NP1 930-1FA00		1	1 unit	143	0.018
	1 CO contact, solid-state compatible	3NP1 930-1FB00		1	1 unit	143	0.019
Fuse carriers							
 3NP1 933-1GB10	Standard	3NP1 933-1GA00		1	1 unit	143	0.165
	With MFM electromechanical fuse monitoring	3NP1 933-1GB10		1	1 unit	143	0.687
	With electronic EFM 10 fuse monitoring	3NP1 933-1GB20		1	1 unit	143	0.394
	With electronic EFM 20 fuse monitoring and line monitoring	3NP1 933-1GB30		1	1 unit	143	0.410
	With electronic EFM 25 fuse monitoring and line monitoring	3NP1 933-1GB50		1	1 unit	143	0.407
Locking devices							
(1 set = 10 units)		3NP1 900-1HA00		1	1 unit	143	0.023

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

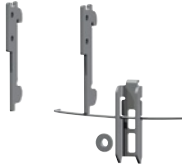
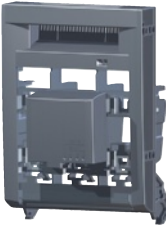
Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
For size NH1								
Connection methods								
	Saddle terminals , 70 ... 120 mm ² (1 set = 3 units) • For 3NP1 143 with flat terminal • For connection of copper conductors		3NP1 943-1BA00		1	1 unit	143	0.127
	Prism terminals single, 70 ... 150 mm ² (1 set = 3 units) • For 3NP1 143 with flat terminal • For connection of copper or aluminum conductors		3NP1 943-1BB10		1	1 unit	143	0.321
	Prism terminals double, 2 x 35 ... 70 mm ² (1 set = 3 units) • For 3NP1 143 with flat terminal • For connection of copper or aluminum conductors		3NP1 943-1BB20		1	1 unit	143	0.473
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm, max. 5 A for flat terminal (1 set = 3 units)		3NP1 943-1BG10		1	1 unit	143	0.006
	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)		3NP1 943-1BG30		1	1 unit	143	0.007
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm; max. 5 A for box terminal (1 set = 3 units)		3NP1 943-1BG40		1	1 unit	143	0.015

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH1 (continued)							
 3NP1 943-1CA10	Device covers, auxiliary switches Reach-around protection for busbar mounting (1x at top, 1x at bottom) • For Siemens 8US system • For Rittal system	3NP1 943-1CA10		1	1 unit	143	0.034
		3NP1 943-1CA20		1	1 unit	143	0.045
 3NP1 943-1CB00	Cable connection covers (at top and bottom)	3NP1 943-1CB00		1	1 unit	143	0.182
 3NP1 943-1CD00	Cable connection covers with rear reach-around protection (at top and bottom)	3NP1 943-1CD00		1	1 unit	143	0.420
 3NP1 943-1CD00	Masking frame supports (1 set = 2 units)	3NP1 943-1CF00		1	1 unit	143	0.043
	System masking frames Dimensions (H x W) 375 x 220 mm	3NP1 943-1DA00		1	1 unit	143	0.123
	Fixing kits For 2 standard mounting rails 125/150 mm	3NP1 943-1EB00		1	1 unit	143	0.055
 3NP1 943-1EB00	Auxiliary switches 1 CO contact	3NP1 940-1FA00		1	1 unit	143	0.020
	1 CO contact, solid-state compatible	3NP1 940-1FB00		1	1 unit	143	0.021
 3NP1 940-1FA00	Fuse carriers Standard	3NP1 943-1GA00		1	1 unit	143	0.776
	With MFM electromechanical fuse monitoring	3NP1 943-1GB10		1	1 unit	143	1.319
	With electronic EFM 10 fuse monitoring	3NP1 943-1GB20		1	1 unit	143	0.999
	With electronic EFM 20 fuse monitoring and line monitoring	3NP1 943-1GB30		1	1 unit	143	1.004
	With electronic EFM 25 fuse monitoring and line monitoring	3NP1 943-1GB50		1	1 unit	143	0.085
 3NP1 943-1GB20	Locking devices (1 set = 10 units)	3NP1 900-1HA00		1	1 unit	143	0.023

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For size NH2								
	Connection methods Saddle terminals , 120 ... 240 mm ² (1 set = 3 units) • For 3NP1 153 with flat terminal • For connection of copper conductors		3NP1 953-1BA00		1	1 unit	143	0.374
	Prism terminals single, 120 ... 240 mm ² (1 set = 3 units) • For 3NP1 153 with flat terminal • For connection of copper or aluminum conductors		3NP1 953-1BB10		1	1 unit	143	0.552
	Prism terminals double, 2 x 70 ... 120 mm ² (1 set = 3 units) • For 3NP1 153 with flat terminal • For connection of copper or aluminum conductors		3NP1 953-1BB20		1	1 unit	143	0.770
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm, max. 5 A for flat terminal (1 set = 3 units)		3NP1 943-1BG10		1	1 unit	143	0.006
	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)		3NP1 953-1BG30		1	1 unit	143	0.008
	Auxiliary conductor connections for flat tab sleeve 6.3 x 0.8 mm; max. 5 A for box terminal (1 set = 3 units)		3NP1 953-1BG40		1	1 unit	143	0.032
Device covers, auxiliary switches								
	Reach-around protection for busbar mounting (1x at top, 1x at bottom) • For Siemens 8US system • For Rittal system		3NP1 953-1CA10		1	1 unit	143	0.038
			3NP1 953-1CA20		1	1 unit	143	0.042
	Cable connection covers (at top and bottom)		3NP1 953-1CB00		1	1 unit	143	0.243
Cable connection covers with rear reach-around protection (at top and bottom)			3NP1 953-1CD00		1	1 unit	143	0.474
Masking frame supports (1 set = 2 units)			3NP1 943-1CF00		1	1 unit	143	0.043
System masking frames Dimensions (H x W) 375 x 245 mm			3NP1 953-1DA00		1	1 unit	143	0.101
	Auxiliary switches 1 CO contact		3NP1 940-1FA00		1	1 unit	143	0.020
	1 CO contact, solid-state compatible		3NP1 940-1FB00		1	1 unit	143	0.021
	Fuse carriers Standard		3NP1 953-1GA00		1	1 unit	143	0.833
	With MFM electromechanical fuse monitoring		3NP1 953-1GB10		1	1 unit	143	1.399
	With electronic EFM 10 fuse monitoring		3NP1 953-1GB20		1	1 unit	143	1.049
	With electronic EFM 20 fuse monitoring and line monitoring		3NP1 953-1GB30		1	1 unit	143	1.079
	With electronic EFM 25 fuse monitoring and line monitoring		3NP1 953-1GB50		1	1 unit	143	3.000
Locking devices (1 set = 10 units)			3NP1 900-1HA00		1	1 unit	143	0.023

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg				
For size NH3											
	Connection methods Saddle terminals , 150 ... 300 mm ² (1 set = 3 units) • For 3NP1 163 with flat terminal • For connection of copper conductors	3NP1 963-1BA00	1	1 unit	143	0.385					
3NP1 963-1BA00											
							3NP1 963-1BB10	1	1 unit	143	0.681
3NP1 963-1BB10											
											
3NP1 963-1BB20											
	3NP1 943-1BG10	1	1 unit	143	0.006						
3NP1 943-1BG10											
						3NP1 953-1BG30	1	1 unit	143	0.008	
3NP1 953-1BG30											
	Auxiliary conductor connections For flat tab sleeve 6.3 x 0.8 mm, max. 5 A for box terminal (1 set = 3 units)	3NP1 953-1BG40	1	1 unit	143	0.032					
3NP1 953-1BG40											
	Device covers, auxiliary switches Reach-around protection for busbar mounting (1x at top, 1x at bottom) • For Siemens 8US system • For Rittal system	3NP1 963-1CA10 3NP1 963-1CA20	1	1 unit	143	0.043 0.051					
3NP1 963-1CA10											
		Cable connection covers (at top and bottom)	3NP1 963-1CB00	1	1 unit	143	0.274				
3NP1 963-1CB00		Cable connection covers With rear reach-around protection (at top and bottom)	3NP1 963-1CD00	1	1 unit	143	0.550				
		Masking frame supports (1 set = 2 units)	3NP1 943-1CF00	1	1 unit	143	0.043				
	System masking frames Dimensions (H x W) 375 x 290 mm	3NP1 963-1DA00	1	1 unit	143	0.148					
	Auxiliary switches 1 CO contact 1 CO contact, solid-state compatible	3NP1 940-1FA00	1	1 unit	143	0.020					
3NP1 940-1FA00		3NP1 940-1FB00	1	1 unit	143	0.021					
	Fuse carriers Standard With MFM electromechanical fuse monitoring With electronic EFM 10 fuse monitoring With electronic EFM 20 fuse monitoring and line monitoring With electronic EFM 25 fuse monitoring and line monitoring	3NP1 963-1GA00	1	1 unit	143	1.011					
3NP1 963-1GB50		3NP1 963-1GB10	1	1 unit	143	1.551					
		3NP1 963-1GB20	1	1 unit	143	1.198					
		3NP1 963-1GB30	1	1 unit	143	1.239					
		3NP1 963-1GB50	1	1 unit	143	1.211					
	Locking devices (1 set = 10 units)	3NP1 900-1HA00	1	1 unit	143	0.023					

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Fuses

Overview

The 3NP1 fuse switch disconnectors are suitable for all fuses in LV HRC design, [see chapter 5](#).

LV HRC design fuses for SITOR semiconductor protection 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 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 fuses for 3NP1 fuse switch disconnectors: Assignment table

SITOR fuse data						Permissible load currents of fuse when installed in					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ^{3) 4)}
	A	V AC			mm ²			A			A
3NC23..	150	500	gR	3	70	3NP1 163	3	140	3NP1 163	3	150
3NC2 425..	200	500	gR	3	95	3NP1 163	3	175	3NP1 163	3	190
3NC2 427..	250	500	gR	3	120	3NP1 163	3	220	3NP1 163	3	237
3NC2 428..	300	500	gR	3	185	3NP1 163	3	250	3NP1 163	3	285
3NC2 431..	350	500	gR	3	240	3NP1 163	3	320	3NP1 163	3	332
3NC2 432..	400	500	aR	3	240	3NP1 163	3	370	3NP1 163	3	380
3NC3 336-1	630	1000	aR	3	2x (40x5)	3NP1 163	3	500	3NP1 163	3	500
3NC3 430-1	315	1250	aR	3	2x95	3NP1 163	3	280	3NP1 163	3	285
3NC3 432-1	400	1250	aR	3	2x120	3NP1 163	3	340	3NP1 163	3	340
3NC3 434-1	500	1250	aR	3	2x150	3NP1 163	3	400	3NP1 163	3	425
3NC3 436-1	630	1250	aR	3	2x (40x5)	3NP1 163	3	460	3NP1 163	3	535
3NC8 423..	150	660	gR	3	70	3NP1 163	3	120	3NP1 163	3	140
3NC8 425..	200	660	gR	3	95	3NP1 163	3	160	3NP1 163	3	190
3NC8 427..	250	660	gR	3	120	3NP1 163	3	200	3NP1 163	3	240
3NC8 431..	350	660	gR	3	240	3NP1 163	3	270	3NP1 163	3	300
3NC8 434..	500	660	gR	3	2x 150	3NP1 163	3	385	3NP1 163	3	385
3NE1 020-2	80	690	gR	00	25	3NP1 133	00	80	3NP1 133	00	80
3NE1 021-0	100	690	gS	00	35	3NP1 133	00	100	3NP1 133	00	100
3NE1 021-2	100	690	gR	00	35	3NP1 133	00	95	3NP1 133	00	95
3NE1 022-0	125	690	gS	00	50	3NP1 133	00	120	3NP1 133	00	120
3NE1 022-2	125	690	gR	00	50	3NP1 133	00	115	3NP1 133	00	115
3NE1 224-0	160	690	gS	1	70	3NP1 143	1	160	3NP1 143	1	160
						3NP1 153	2	160	3NP1 153	2	160
3NE1 224-2/-3	160	690	gR	1	70	3NP1 143	1	150	3NP1 143	1	152
						3NP1 153	2	200	3NP1 153	2	200
3NE1 224-2/-3	160	690	gR	1	70	3NP1 143	1	150	3NP1 143	1	152
						3NP1 153	2	160	3NP1 153	2	160
3NE1 225-2/-3	200	690	gR	1	95	3NP1 143	1	180	3NP1 143	1	180
						3NP1 153	2	190	3NP1 153	2	190
3NE1 227-0	250	690	gS	1	120	3NP1 143	1	235	3NP1 143	1	238
						3NP1 153	2	250	3NP1 153	2	250
3NE1 227-2/-3	250	690	gR	1	120	3NP1 143	1	220	3NP1 143	1	213
						3NP1 153	2	235	3NP1 153	2	235
3NE1 230-0	315	690	gS	1	2x 70	3NP1 153	2	290	3NP1 153	2	315
3NE1 230-2/-3	315	690	gR	1	2x 70	3NP1 153	2	278	3NP1 153	2	315
						3NP1 163	3	380	3NP1 163	3	400
3NE1 331-0	350	690	gS	2	2x 95	3NP1 153	2	315	3NP1 153	2	350
						3NP1 163	3	340	3NP1 163	3	350
3NE1 331-2/-3	350	690	gR	2	2x 95	3NP1 153	2	300	3NP1 153	2	330
						3NP1 163	3	330	3NP1 163	3	350
3NE1 332-0	400	690	gS	2	2x 95	3NP1 153	2	340	3NP1 153	2	380
3NE1 332-2/-3	400	690	gR	2	2x 95	3NP1 153	2	328	3NP1 153	2	360
						3NP1 163	3	370	3NP1 163	3	400
3NE1 333-0	450	690	gS	2	2x 120	3NP1 163	3	450	3NP1 163	3	430
3NE1 333-2/-3	450	690	gR	2	2x 120	3NP1 163	3	430	3NP1 163	3	420

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR fuse data						Permissible load currents of fuse when installed in					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu mm ²	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ^{3) 4)}
	A	V AC						A			A
3NE1 334-0	500	690	gS	2	2x 120	3NP1 163	3	500	3NP1 163	3	450
3NE1 334-2/-3	500	690	gR	2	2x 120	3NP1 163	3	475	3NP1 163	3	450
3NE1 435-0	560	690	gS	3	2x 150	3NP1 163	3	560	3NP1 163	3	520
3NE1 435-2/-3	560	690	gR	3	2x 150	3NP1 163	3	555	3NP1 163	3	510
3NE1 436-0	630	690	gS	3	2x 185	3NP1 163	3	630	3NP1 163	3	585
3NE1 436-2/-3	630	690	gR	3	2x 185	3NP1 163	3	620	3NP1 163	3	570
3NE1 437-0	710	690	gS	3	2x (40x5)	--	--	--	3NP1 163	3	605
3NE1 437-1	710	600	gR	3	2x (40x5)	--	--	--	3NP1 163	3	590
3NE1 437-2/-3	710	690	gR	3	2x (40x5)	--	--	--	3NP1 163	3	580
3NE1 438-0	800	690	gS	3	2x (50x5)	--	--	--	3NP1 163	3	630
3NE1 438-1	800	600	gR	3	2x (50x5)	--	--	--	3NP1 163	3	610
3NE1 438-2/-3	800	690	gR	3	2x (50x5)	--	--	--	3NP1 163	3	600
3NE1 447-2/-3	670	690	gR	3	2x (40x5)	--	--	--	3NP1 163	3	575
3NE1 448-2/-3	850	690	gR	3	2x (40x8)	--	--	--	3NP1 163	3	630
3NE1 802-0	40	690	gS	000	10	3NP1 123	000	40	3NP1 123	000	40
						3NP1 133	00	40	3NP1 133	00	40
3NE1 803-0	35	690	gS	000	6	3NP1 123	000	35	3NP1 123	000	35
						3NP1 133	00	35	3NP1 133	00	35
3NE1 813-0	16	690	gS	000	1.5	3NP1 123	000	16	3NP1 123	000	16
						3NP1 133	00	16	3NP1 133	00	16
3NE1 814-0	20	690	gS	000	2.5	3NP1 123	000	20	3NP1 123	000	20
						3NP1 133	00	20	3NP1 133	00	20
3NE1 815-0	25	690	gS	000	4	3NP1 123	000	25	3NP1 123	000	25
						3NP1 133	00	25	3NP1 133	00	25
3NE1 817-0	50	690	gS	000	10	3NP1 123	000	50	3NP1 123	000	50
						3NP1 133	00	50	3NP1 133	00	50
3NE1 818-0	63	690	gS	000	16	3NP1 123	000	63	3NP1 123	000	63
						3NP1 133	00	63	3NP1 133	00	63
3NE1 820-0	80	690	gS	000	25	3NP1 123	000	80	3NP1 123	000	80
						3NP1 133	00	80	3NP1 133	00	80
3NE3 221	100	1000	aR	1	35	3NP1 143	1	88	3NP1 143	1	95
						3NP1 153	2	95	3NP1 153	2	100
3NE3 222	125	1000	aR	1	50	3NP1 143	1	102	3NP1 143	1	113
						3NP1 153	2	110	3NP1 153	2	125
3NE3 224	160	1000	aR	1	70	3NP1 143	1	130	3NP1 143	1	140
						3NP1 153	2	140	3NP1 153	2	150
3NE3 225	200	1000	aR	1	95	3NP1 143	1	163	3NP1 143	1	170
						3NP1 153	2	175	3NP1 153	2	180
3NE3 227	250	1000	aR	1	120	3NP1 143	1	195	3NP1 143	1	200
						3NP1 153	2	210	3NP1 153	2	215
3NE3 230-0B	315	1000	aR	1	185	3NP1 153	2	270	3NP1 153	2	265
3NE3 231	350	1000	aR	1	240	3NP1 153	2	290	3NP1 153	2	280
3NE3 232-0B	400	1000	aR	1	240	3NP1 153	2	320	3NP1 153	2	310
3NE3 233	450	1000	aR	1	2x 150	3NP1 153	2	360	3NP1 153	2	330
3NE3 332-0B	400	1000	aR	2	240	3NP1 153	2	330	3NP1 163	3	360
						3NP1 163	3	360	--	--	--
3NE3 333	450	1000	aR	2	2x 150	3NP1 163	3	375	3NP1 163	3	390
3NE3 334-0B	500	1000	aR	2	2x 150	3NP1 163	3	420	3NP1 163	3	415
3NE3 335	560	1000	aR	2	2x 185	3NP1 163	3	475	3NP1 163	3	460
3NE3 336	630	1000	aR	2	2x 185	3NP1 163	3	540	3NP1 163	3	500
3NE3 337-8	710	900	aR	2	2x (40x5)	3NP1 163	3	580	3NP1 163	3	500
3NE3 338-8	800	800	aR	2	2x 240	3NP1 163	3	605	3NP1 163	3	500
3NE3 340-8	900	690	aR	2	2x (40x8)	3NP1 163	3	630	3NP1 163	3	500
3NE4 101	32	1000	gR	0	6	3NP1 143	1	30	3NP1 143	1	32
3NE4 102	40	1000	gR	0	10	3NP1 143	1	35	3NP1 143	1	40
3NE4 117	50	1000	gR	0	10	3NP1 143	1	42	3NP1 143	1	50
3NE4 118	63	1000	aR	0	16	3NP1 143	1	55	3NP1 143	1	60
3NE4 120	80	1000	aR	0	25	3NP1 143	1	71	3NP1 143	1	76
3NE4 121	100	1000	aR	0	35	3NP1 143	1	84	3NP1 143	1	93
3NE4 122	125	1000	aR	0	50	3NP1 143	1	107	3NP1 143	1	115
3NE4 124	160	1000	aR	0	70	3NP1 143	1	134	3NP1 143	1	144
3NE4 327-0B	250	800	aR	2	150	3NP1 153	2	195	3NP1 163	3	220
						3NP1 163	3	215	3NP1 163	3	220

Switch Disconnectors

3NP1 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR fuse data						Permissible load currents of fuse when installed in					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu mm ²	3NP1 for floor mounting			3NP1 for busbar mounting		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ^{3) 4)}
	A	V AC						A			A
3NE4 330-0B	315	800	aR	2	240	3NP1 153	2	240	3NP1 163	3	255
						3NP1 163	3	270	--	--	--
3NE4 333-0B	450	800	aR	2	2x (30x5)	3NP1 163	3	370	3NP1 163	3	355
3NE4 334-0B	500	800	aR	2	2x (30x5)	3NP1 163	3	410	3NP1 163	3	390
3NE4 337	710	800	aR	2	2x (50x5)	3NP1 163	3	540	3NP1 163	3	500
3NE8 015-1	25	690	gR	00	4	3NP1 133	00	25	3NP1 133	00	25
3NE8 003-1	35	690	gR	00	6	3NP1 133	00	32	3NP1 133	00	35
3NE8 017-1	50	690	gR	00	10	3NP1 133	00	43	3NP1 133	00	50
3NE8 018-1	63	690	gR	00	16	3NP1 133	00	52	3NP1 133	00	60
3NE8 020-1	80	690	aR	00	25	3NP1 133	00	65	3NP1 133	00	72
3NE8 021-1	100	690	aR	00	35	3NP1 133	00	85	3NP1 133	00	85
3NE8 022-1	125	690	aR	00	50	3NP1 133	00	100	3NP1 133	00	100
3NE8 024-1	160	690	aR	00	70	3NP1 133	00	120	3NP1 133	00	115

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

²⁾ 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

³⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

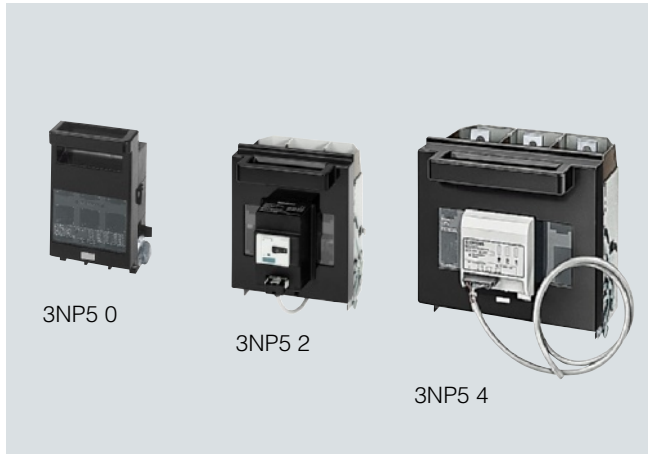
⁴⁾ Values apply if used with 30 x 10 mm rails, 12 x 5 mm for NH00 and top busbar connection - values for other configurations available on request

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 distribution boards (e.g. ALPHA, SIKUS), meter cabinets (e.g. ALPHA 400-ZS), and molded-plastic distribution systems such as 8HP.

The ability to mount them on a range of different busbar systems allows their very diverse implementation in switchgear 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. SITOP), 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 VDE 0660 Part 107.

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

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

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Introduction

Technical specifications

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107							
Type		3NP5 0		3NP5 2		3NP5 3		3NP5 4	
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	V	690							
• DC	V	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 conditional short-circuit current with fuses (by fast switch on)									
Rated current	Size/A	00/160		1/250		2/400		3/630	
• At 500 V AC (rms value)	kA	50		50		50		50	
Permissible let-through current of the fuses (peak value)	kA	15		25		40		50	
Short-circuit strength with fuses (with closed disconnector)									
• Rated current	Size/A	00/160		1/250		2/400		3/630	
• At 500 V AC (rms value)	kA	100		100		50		50	
• Maximum permissible let-through I^2t value	kA ² s	223		780		2150		5400	
• Permissible let-through current of the fuses (peak value)	kA	23		32		40		60	
Rated short-circuit making capacity with isolating blades²⁾	Size	00		1		2		3	
• At 500 V AC (peak value)	kA	6		17		17		17	
Rated making and breaking capacity²⁾ (infeed from top or bottom) ³⁾	Size	00		1		0		2	
Breaking current I_c									
• At p.f. = 0.35, rms value	A	1300		2500		1600		4000	
• At p.f. = 0.35, rms value	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 500 V AC, with fuse links	A	160		250		160		400	
• At AC-21B, AC-22B, AC-23B at 690 V AC, with fuse links	A	160		250		160		400	
• At AC -21B, AC-22B	A	160		250		160		400	
• At AC-23B	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 for DC-23B	A	160		250		160		250	
Capacitor switching capacity									
• Capacitor rating at 400 V AC	kvar	80		90		150		250	
• Rated current I_n at 525 V AC	A	116		130		216		361	
• Capacitor rating	kvar	100		125		200		300	
• Rated current I_n	A	110		137		220		330	
Permissible ambient temperature	°C	-25 ... +55 for operation ⁴⁾ , -50 ... +80 during storage							
Mechanical endurance , operating cycles		1600							
Degree of protection									
• Without molded-plastic masking frame		IP00, for 3NP5 2 with clamp terminal, 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 fuse links)									
Without busbar adapter	W	7.8 (16.3) ⁵⁾		7.5		15		39	
Maximum power loss of the usable fuses (per fuse)⁶⁾	W	12		23		37		50	
Main conductor connections									
Flat terminal for connection of									
• Crimped cable lugs acc. to DIN 46234 (conductor cross-section, stranded)	mm ²	2.5 ... 120		6 ... 150		6 ... 240		6 ... 2 × 240	
• Pressed cable lugs acc. to DIN 46235 (conductor cross-section, stranded)	mm ²	16 ... 70		16 ... 150		16 ... 240		16 ... 2 × 240	
• Busbars (usable busbar width)	mm	16 ... 22		22 ... 30		22 ... 30		22 ... 30	
Clamp terminals	mm ²	2.5 ... 50 ⁷⁾		35 ... 120		--		--	
Auxiliary switch 1 NO + 1 NC (accessories)									
• At 50 Hz/60 Hz to 400 V AC, rated operational current I_e at AC-12/AC-15 A	A	The same voltage potential must be applied to the NO and NC contacts							
• Flat plug-in terminals (DIN 46244)		16/6 A 6.3 ... 0.8							
Permissible mounting positions		Vertical or horizontal installation (switching capacity may be reduced with horizontal installation)							
Signaling contact for solid-state fuse monitoring		2 NO + 1 NC							
• Rated operational current I_e at 250 V, DC-13	A	0.27							
• Rated operational current I_e at 240 V, AC-15	A	1.5							
• Thermal free-air rated current I_{th}	A	5							

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

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

³⁾ When electronic fuse monitors are used, infeed must be from the top.

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

⁵⁾ With busbar adapter.

⁶⁾ Values are valid when using LV HRC (NH) fuse systems with characteristic gG. If using fuses for semiconductor protection, please refer to the assignment table, [see page 7/145](#).

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

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	DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws Order No. Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	A			Version						
Completely compartmentalized, with high speed closing feature										
 3NP5 060-0CA00	160	Flat terminals ¹⁾	00	Without ³⁾ 1 NO + 1 NC	▶	3NP5 060-0CA00	1	1 unit	103	1.610
						3NP5 060-0CA10	1	1 unit	103	1.639
		Clamp terminals	00	Without ³⁾ 1 NO + 1 NC		3NP5 060-0CB00	1	1 unit	103	1.733
						3NP5 060-0CB10	1	1 unit	103	1.761
 3NP5 260-0CA00	250	Flat terminals	1	Without 1 NO + 1 NC	▶	3NP5 260-0CA00	1	1 unit	103	5.360
						3NP5 260-0CA10	1	1 unit	103	5.412
		Clamp terminals	1	Without 1 NO + 1 NC		3NP5 260-0CB00	1	1 unit	103	5.649
						3NP5 260-0CB10	1	1 unit	103	5.601
 3NP5 360-0CA00	400	Flat terminals	2	Without 1 NO + 1 NC	▶	3NP5 360-0CA00	1	1 unit	103	6.510
						3NP5 360-0CA10	1	1 unit	103	6.475
 3NP5 460-0CA00	630	Flat terminals	3	Without 1 NO + 1 NC	▶	3NP5 460-0CA00	1	1 unit	103	7.890
						3NP5 460-0CA10	1	1 unit	103	7.906

¹⁾ For 3NP5 060 with flat terminals, appropriate 3NY1 106 cable lug covers must be used to provide a finger-safe cover, according to DIN VDE 0106 Part 100 (see [Accessories](#)).

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

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

For 40 mm busbar system

Selection and ordering data

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches at the switch disconnectors	DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A			Version		Order No. Price per PU				kg
Completely compartmentalized, with high speed closing feature¹⁾									
Busbars with a width of 12 mm and thickness of 5 mm or 10 mm									
160	Flat terminals	00	Without		3NP5 065-1CF00	1	1 unit	103	2.306
			1 NO + 1 NC		3NP5 065-1CF10	1	1 unit	103	2.290
	Clamp terminals	00	Without		3NP5 065-1CG00	1	1 unit	103	2.351
			1 NO + 1 NC		3NP5 065-1CG10	1	1 unit	103	2.396

¹⁾ For accessories and more devices on busbar systems, see ["Accessories"](#)

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

For 60 mm busbar system

Overview

Note:

For switch versions "For installation in any distribution board" and busbar adapters [see page 7/144](#).

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

With fuse monitoring

Selection and ordering data

Fuse monitoring by circuit breakers

Floor mounting

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			At switch disconnectors	At circuit breakers						
A			Version	Version		Order No.	Price per PU			kg
Completely compartmentalized, with high speed closing feature with fuse monitoring by SIRIUS circuit breakers										
With plug-in connection of the auxiliary switch connecting cable (length approx. 1 m) to the circuit breakers										
160	Flat terminals ¹⁾	00	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5 060-0EA86	1	1 unit	103	2.435
			1 NO + 1 NC	2 NO		3NP5 060-0EA26	1	1 unit	103	2.459
	Clamp terminals	00	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5 060-0EB86	1	1 unit	103	2.570
			1 NO + 1 NC	2 NO		3NP5 060-0EB26	1	1 unit	103	2.562
250	Flat terminals	1	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5 260-0EA86	1	1 unit	103	5.962
			1 NO + 1 NC	2 NO		3NP5 260-0EA26	1	1 unit	103	5.981
	Clamp terminals	1	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5 260-0EB86	1	1 unit	103	6.202
			1 NO + 1 NC	2 NO		3NP5 260-0EB26	1	1 unit	103	6.169
400	Flat terminals	2	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5 360-0EA86	1	1 unit	103	7.052
			1 NO + 1 NC	2 NO		3NP5 360-0EA26	1	1 unit	103	7.042
630	Flat terminals	3	1 NO + 1 NC	1 NO + 1 NC	▶	3NP5 460-0EA86	1	1 unit	103	8.437
			1 NO + 1 NC	2 NO		3NP5 460-0EA26	1	1 unit	103	8.443



3NP5 260-0EA86



3NP5 360-0EA86



3NP5 460-0EA86

¹⁾ For 3NP5 060 with flat terminals, appropriate 3NY1 106 cable lug covers must be used to provide a finger-safe cover, according to DIN VDE 0106 Part 100 (see [Accessories](#)).

For 40 mm busbar system

Rated uninterrupted current I_u	Connection type	Size	Auxiliary switches		DT	Degree of protection IP00, without fuse links, without isolating blades, with terminal screws	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			At switch disconnectors	At circuit breakers						
A			Version	Version		Order No.	Price per PU			kg
Completely compartmentalized, with high speed closing feature with fuse monitoring by SIRIUS circuit breakers¹⁾										
Busbars with a width of 12 mm and thickness of 5 mm or 10 mm										
160	Flat terminals	00	1 NO + 1 NC	1 NO + 1 NC		3NP5 065-1EF86	1	1 unit	103	2.869
			1 NO + 1 NC	2 NO		3NP5 065-1EF26	1	1 unit	103	2.807
	Clamp terminals	00	1 NO + 1 NC	1 NO + 1 NC		3NP5 065-1EG86	1	1 unit	103	2.876
			1 NO + 1 NC	2 NO		3NP5 065-1EG26	1	1 unit	103	2.974

¹⁾ For accessories and more devices on busbar systems, see [chapter 10 "Busbar Systems"](#).

For 60 mm busbar system

Note:

For switch versions "For installation in any distribution board" and busbar adapters see [page 7/144](#).

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

With fuse monitoring

Fuse monitoring by electronic fuse monitoring device

Floor mounting

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

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

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

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

- status indicator: green LED illuminated,
- fault indication: green LED flashing,
- fuse failure: red LED (display per phase)



3NP5 060-0HA13



3NP5 260-0HA13



3NP5 360-0HA13



3NP5 460-0HA13

160	Flat terminals ¹⁾	00	1 NO + 1 NC	2 NO + 1 NC		3NP5 060-0HA13	1	1 unit	103	2.334
	Clamp terminals	00	1 NO + 1 NC	2 NO + 1 NC		3NP5 060-0HB13	1	1 unit	103	2.366

250	Flat terminals	1	1 NO + 1 NC	2 NO + 1 NC		3NP5 260-0HA13	1	1 unit	103	5.930
-----	----------------	---	-------------	-------------	--	-----------------------	---	--------	-----	-------

400	Flat terminals	2	1 NO + 1 NC	2 NO + 1 NC		3NP5 360-0HA13	1	1 unit	103	6.937
-----	----------------	---	-------------	-------------	--	-----------------------	---	--------	-----	-------

630	Flat terminals	3	1 NO + 1 NC	2 NO + 1 NC		3NP5 460-0HA13	1	1 unit	103	8.313
-----	----------------	---	-------------	-------------	--	-----------------------	---	--------	-----	-------

¹⁾ For 3NP50 60 with flat connectors, appropriate 3NY1 106 cable lug covers must be used to provide finger-safe cover, according to DIN VDE 0106 Part 100 (see [Accessories](#)).

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

With fuse monitoring

For 40 mm busbar system

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

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

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

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

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

3NP5 065-1HF13

1 1 unit 103 2.697



3NP5 065-1HF13

For 60 mm busbar system

Note:

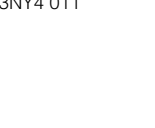
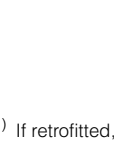
For switch versions "For installation in any distribution board" and busbar adapters [see page 7/144](#).

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Accessories

Selection and ordering data

Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Fuse carriers								
	3NP50 6-.C..0		3NY1 074		1	1 unit	103	0.575
	3NP52 60-.C..0		3NY1 371		1	1 unit	103	1.753
	3NP53 60-.C..0		3NY1 372		1	1 unit	103	1.912
	3NP54 60-.C..0		3NY1 373		1	1 unit	103	2.091
	<u>With fuse monitoring by 3RV1 MSPs</u>	3NP50 6-.E..6	3NY1 420		1	1 unit	103	1.289
	(with auxiliary switch 1 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP52 60-.E..6	3NY1 421		1	1 unit	103	2.217
		3NP53 60-.E..6	3NY1 422		1	1 unit	103	2.272
		3NP54 60-.E..6	3NY1 423		1	1 unit	103	2.511
	<u>Connector and connecting cable</u>	3NP5 with 3RV1	3NY1 910		1	1 unit	103	0.102
	1 m long		3NY1 911		1	1 unit	103	0.270
	<u>With electronic fuse monitoring for 400 V ... 500 V</u>	3NP50 6-.H.13	3NY1 513-0		1	1 unit	103	1.026
	(with auxiliary switch 2 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP52 60-.H.13	3NY1 513-2		1	1 unit	103	2.130
		3NP53 60-.H.13	3NY1 513-3		1	1 unit	103	2.180
		3NP54 60-.H.13	3NY1 513-4		1	1 unit	103	0.325
	<u>Connector and connecting cable (6-pole)</u>	3NP5 with EFM	3NY1 915		1	1 unit	103	0.306
	3 m long							
Auxiliary switch 1 NO + 1 NC								
	With actuating cams, screws and washers (mounting kit)	3NP50 ¹⁾	3NY3 033		1	1 unit	103	0.018
	With fixing bracket and screws (mounting kit)	3NP52 ... 3NP54	3NY3 034		1	1 unit	103	0.008
Arc chutes								
	(3 units each are required for 3NP52, 3NP53 and 3NP54)	3NP50	3NY4 031		1	1 unit	103	0.221
		3NP52	3NY4 011		1	1 unit	103	0.185
		3NP53, 3NP54	3NY4 012		1	1 unit	103	0.242
								
Molded-plastic masking frames								
	As replacement for mask-	300 x 220 mm	3NY1 210	3NY1 102	1	1 unit	103	0.070
	ing frames from assembly	300 x 245 mm	3NY1 211	3NY1 103	1	1 unit	103	0.083
	kits for flush mounting	300 x 290 mm	3NY1 212	3NY1 104	1	1 unit	103	0.084
	(without fixing brackets and small components)							

¹⁾ If retrofitted, drill holes are required.

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Accessories

Assembly kits for distribution systems

	Version	For fuse switch disconnectors	Dimensions mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For installation in any distribution board										
 3NY1 107  3NY1 106	Molded-plastic masking frames		Height × Width							
	For installation in cabinet	3NP50 with and without auxiliary switch	215 × 135		3NY1 105		1	1/400 units	103	0.045
		With auxiliary switch	215 × 135		3NY1 115		1	1/400 units	103	0.045
	For installation in metal front panels	With and without auxiliary switch	220 × 160		3NY1 125		1	1 unit	103	0.062
	For covering connection terminals	3NP50 with and without auxiliary switch	265 × 135		3NY1 107		1	1 unit	103	0.071
	For covering cable lug connections	3NP50 with and without auxiliary switch	290 × 135		3NY1 106		1	1/225 units	103	0.074
 3NY1 212	Assembly kits for flush mounting									
	With molded-plastic masking frame, fixing brackets and small components.	3NP50 60	250 × 149		3NY1 208		1	1 unit	103	0.514
		3NP52 60	300 × 220		3NY1 210		1	1 unit	103	0.291
	For disconnectors with and without auxiliary switches	3NP53 60	300 × 245		3NY1 211		1	1 unit	103	0.298
 3TX6 546-3B	Covers for cable lug connections		Cover length							
	(1 set = 6 units) can be screwed onto free screw end to protect against accidental touch	3NP52	99		3NY1 241		1	1 unit	103	0.208
		3NP53/3NP54	95		3TX6 546-3B		1	1 unit	41B	0.256
			120		3NY1 245		1	1 unit	103	0.318
 3NY1 907	Clamp terminals (1 set = 3 units)		Conductor cross-section							
		3NP50	2.5 ... 50 mm ^{2 1)}		3NY1 903		1	1 unit	103	0.110
		3NP52	35 ... 120 mm ²		3NY1 907		1	1 unit	103	0.223
 8US12 10-4AG00	Busbar adapters		Busbar width							
	For 60 mm busbar system	3NP50	108		8US12 91-4SB00		1	1 unit	143	0.524
		3NP52, 3NP53, 3NP54 ²⁾	250 (length 320 mm, M10 terminal screws, connecting cables must be manufactured)		8US12 10-4AG00		1	1 unit	143	2.926
	Sealing lugs	3NP50			3NY1 940		1	1 unit	103	0.007
	Retrofittable (1 pack = 10 units)									

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

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

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 5](#).

LV HRC design fuses for SITOR semiconductor protection 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 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 fuses for 3NP5 fuse switch disconnectors: Assignment table

SITOR fuse data						Permissible load currents of fuse when installed in 3NP5 for floor mounting					
Type ¹⁾	Rated current I_n A	Rated voltage ²⁾ V AC	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ³⁾ A	Type	Size	Permissible load current ³⁾ A
3NC2 423..	150	500	gR	3	70	3NP5 4	3	145	--	--	--
3NC2 425..	200	500	gR	3	95	3NP5 4	3	180	--	--	--
3NC2 427..	250	500	gR	3	120	3NP5 4	3	225	--	--	--
3NC2 428..	300	500	gR	3	185	3NP5 4	3	255	--	--	--
3NC2 431..	350	500	gR	3	240	3NP5 4	3	330	--	--	--
3NC2 432..	400	500	aR	3	240	3NP5 4	3	400	--	--	--
3NC3 336-1	630	1000	aR	3	2x (40x5)	3NP5 4	3	530	--	--	--
3NC3 337-1	710	1000	aR	3	2x (50x5)	3NP5 4	3	570	--	--	--
3NC3 338-1	800	1000	aR	3	2x (40x8)	3NP5 4	3	630	--	--	--
3NC3 340-1	900	1000	aR	3	2x (40x8)	3NP5 4	3	700 ⁴⁾	--	--	--
3NC3 341-1	1000	1000	aR	3	2x (50x8)	3NP5 4	3	770 ⁴⁾	--	--	--
3NC3 342-1	1100	800	aR	3	2x (50x8)	3NP5 4	3	800 ⁴⁾	--	--	--
3NC3 343-1	1250	800	aR	3	2x (50x8)	3NP5 4	3	850 ⁴⁾	--	--	--
3NC3 430-1	315	1250	aR	3	2x95	3NP5 4	3	295	--	--	--
3NC3 432-1	400	1250	aR	3	2x120	3NP5 4	3	355	--	--	--
3NC3 434-1	500	1250	aR	3	2x150	3NP5 4	3	440	--	--	--
3NC3 436-1	630	1250	aR	3	2x (40x5)	3NP5 4	3	520	--	--	--
3NC3 438-1	800	1100	aR	3	2x (40x8)	3NP5 4	3	625	--	--	--
3NC8 423..	150	660	gR	3	70	3NP5 4	3	135	--	--	--
3NC8 425..	200	660	gR	3	95	3NP5 4	3	180	--	--	--
3NC8 427..	250	660	gR	3	120	3NP5 4	3	225	--	--	--
3NC8 431..	350	660	gR	3	240	3NP5 4	3	300	--	--	--
3NC8 434..	500	660	gR	3	2x 150	3NP5 4	3	425	--	--	--
3NC8 444-3C	1000	600	aR	3	2x (60x6)	3NP5 4	3	800 ⁴⁾	--	--	--
3NE1 020-2	80	690	gR	00	25	3NP5 0	00	80	--	--	--
3NE1 021-0	100	690	gS	00	35	3NP5 0	00	100	--	--	--
3NE1 021-2	100	690	gR	00	35	3NP5 0	00	100	--	--	--
3NE1 022-0	125	690	gS	00	50	3NP5 0	00	125	--	--	--
3NE1 022-2	125	690	gR	00	50	3NP5 0	00	125	--	--	--
3NE1 224-0	160	690	gS	1	70	3NP5 2	1	160	3NP5 3	2	160
3NE1 224-2/-3	160	690	gR	1	70	3NP5 2	1	160	3NP5 3	2	160
3NE1 225-0	200	690	gS	1	95	3NP5 2	1	200	3NP5 3	2	200
3NE1 225-2	200	690	gR	1	95	3NP5 2	1	200	3NP5 3	2	200
3NE1225-3	200	690	gR	1	95	3NP5 2	1	190	3NP5 3	2	200
3NE1 227-0	250	690	gS	1	120	3NP5 2	1	250	3NP5 3	2	250
3NE1 227-2	250	690	gR	1	120	3NP5 2	1	250	3NP5 3	2	250
3NE1 227-3	250	690	gR	1	120	3NP5 2	1	235	3NP5 3	2	250
3NE1 230-0	315	690	gS	1	2x 70	3NP5 3	2	315	--	--	--
3NE1 230-2/-3	315	690	gR	1	2x 70	3NP5 3	2	315	--	--	--
3NE1 331-0	350	690	gS	2	2x 95	3NP5 3	2	350	3NP5 4	3	350
3NE1 331-2/-3	350	690	gR	2	2x 95	3NP5 3	2	350	3NP5 4	3	350
3NE1 332-0	400	690	gS	2	2x 95	3NP5 3	2	400	3NP5 4	3	400

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR fuse data						Permissible load currents of fuse when installed in 3NP5 for floor mounting					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ³⁾
	A	V AC						A			A
3NE1 332-2/-3	400	690	gR	2	2x 95	3NP5 3	2	400	3NP5 4	3	400
3NE1 333-0	450	690	gS	2	2x 120	3NP5 4	3	450	--	--	--
3NE1 333-2/-3	450	690	gR	2	2x 120	3NP5 4	3	450	--	--	--
3NE1 334-0	500	690	gS	2	2x 120	3NP5 4	3	500	--	--	--
3NE1 334-2/-3	500	690	gR	2	2x 120	3NP5 4	3	500	--	--	--
3NE1 435-0	560	690	gS	3	2x 150	3NP5 4	3	560	--	--	--
3NE1 435-2/-3	560	690	gR	3	2x 150	3NP5 4	3	560	--	--	--
3NE1 436-0	630	690	gS	3	2x 185	3NP5 4	3	630	--	--	--
3NE1 436-2/-3	630	690	gR	3	2x 185	3NP5 4	3	625	--	--	--
3NE1 437-0	710	690	gS	3	2x (40x5)	3NP5 4	3	710 ⁴⁾	--	--	--
3NE1 437-1	710	600	gR	3	2x (40x5)	3NP5 4	3	690 ⁴⁾	--	--	--
3NE1 437-2/-3	710	690	gR	3	2x (40x5)	3NP5 4	3	685 ⁴⁾	--	--	--
3NE1 438-0	800	690	gS	3	2x (50x5)	3NP5 4	3	800 ⁴⁾	--	--	--
3NE1 438-1	800	600	gR	3	2x (50x5)	3NP5 4	3	750 ⁴⁾	--	--	--
3NE1 438-2/-3	800	690	gR	3	2x (50x5)	3NP5 4	3	770 ⁴⁾	--	--	--
3NE1 447-2/-3	670	690	gR	3	2x (40x5)	3NP5 4	3	655 ⁴⁾	--	--	--
3NE1 448-2/-3	850	690	gR	3	2x (40x8)	3NP5 4	3	820 ⁴⁾	--	--	--
3NE1 802-0	40	690	gS	000	10	3NP5 0	00	40	--	--	--
3NE1 803-0	35	690	gS	000	6	3NP5 0	00	35	--	--	--
3NE1 813-0	16	690	gS	000	1.5	3NP5 0	00	16	--	--	--
3NE1 814-0	20	690	gS	000	2.5	3NP5 0	00	20	--	--	--
3NE1 815-0	25	690	gS	000	4	3NP5 0	00	25	--	--	--
3NE1 817-0	50	690	gS	000	10	3NP5 0	00	50	--	--	--
3NE1 818-0	63	690	gS	000	16	3NP5 0	00	63	--	--	--
3NE1 820-0	80	690	gS	000	25	3NP5 0	00	80	--	--	--
3NE3 221	100	1000	aR	1	35	3NP5 2	1	95	3NP5 3	2	100
3NE3 222	125	1000	aR	1	50	3NP5 2	1	110	3NP5 3	2	120
3NE3 224	160	1000	aR	1	70	3NP5 2	1	140	3NP5 3	2	150
3NE3 225	200	1000	aR	1	95	3NP5 2	1	175	3NP5 3	2	190
3NE3 227	250	1000	aR	1	120	3NP5 2	1	210	3NP5 3	2	230
3NE3 230-0B	315	1000	aR	1	185	3NP5 3	2	285	--	--	--
3NE3 231	350	1000	aR	1	240	3NP5 3	2	310	--	--	--
3NE3 232-0B	400	1000	aR	1	240	3NP5 3	2	330	--	--	--
3NE3 233	450	1000	aR	1	2x 150	3NP5 3	2	360	--	--	--
3NE3 332-0B	400	1000	aR	2	240	3NP5 4	3	360	--	--	--
3NE3 333	450	1000	aR	2	2x 150	3NP5 4	3	400	--	--	--
3NE3 334-0B	500	1000	aR	2	2x 150	3NP5 4	3	450	--	--	--
3NE3 335	560	1000	aR	2	2x 185	3NP5 4	3	510	--	--	--
3NE3 336	630	1000	aR	2	2x 185	3NP5 4	3	580	--	--	--
3NE3 337-8	710	900	aR	2	2x (40x5)	3NP5 4	3	630	--	--	--
3NE3 338-8	800	800	aR	2	2x 240	3NP5 4	3	630	--	--	--
3NE3 340-8	900	690	aR	2	2x (40x8)	3NP5 4	3	630	--	--	--
3NE4 101	32	1000	gR	0	6	3NP5 2	1	32	--	--	--
3NE4 102	40	1000	gR	0	10	3NP5 2	1	40	--	--	--
3NE4 117	50	1000	gR	0	10	3NP5 2	1	50	--	--	--
3NE4 118	63	1000	aR	0	16	3NP5 2	1	63	--	--	--
3NE4 120	80	1000	aR	0	25	3NP5 2	1	80	--	--	--
3NE4 121	100	1000	aR	0	35	3NP5 2	1	95	--	--	--
3NE4 122	125	1000	aR	0	50	3NP5 2	1	120	--	--	--
3NE4 124	160	1000	aR	0	70	3NP5 2	1	150	--	--	--
3NE4 327-0B	250	800	aR	2	150	3NP5 3	2	210	3NP5 4	3	220
3NE4 330-0B	315	800	aR	2	240	3NP5 3	2	270	3NP5 4	3	285
3NE4 333-0B	450	800	aR	2	2x (30x5)	3NP5 3	2	400	3NP5 4	3	420

Switch Disconnectors

3NP5 Fuse Switch Disconnectors up to 630 A

Fuses

SITOR fuse data						Permissible load currents of fuse when installed in 3NP5 for floor mounting					
Type ¹⁾	Rated current I_n	Rated voltage ²⁾	Operational class	Size	Required conductor cross-section Cu mm ²	Type 3NP5			Alternative type 3NP5		
						Type	Size	Permissible load current ³⁾	Type	Size	Permissible load current ³⁾
	A	V AC						A			A
3NE4 334-0B	500	800	aR	2	2x (30x5)	3NP5 4	3	450	--	--	--
3NE4 337	710	800	aR	2	2x (50x5)	3NP5 4	3	600	--	--	--
3NE8 015-1	25	690	gR	00	4	3NP5 0	00	25	--	--	--
3NE8 003-1	35	690	gR	00	6	3NP5 0	00	33	--	--	--
3NE8 017-1	50	690	gR	00	10	3NP5 0	00	45	--	--	--
3NE8 018-1	63	690	gR	00	16	3NP5 0	00	54	--	--	--
3NE8 020-1	80	690	aR	00	25	3NP5 0	00	68	--	--	--
3NE8 021-1	100	690	aR	00	35	3NP5 0	00	89	--	--	--
3NE8 022-1	125	690	aR	00	50	3NP5 0	00	106	--	--	--
3NE8 024-1	160	690	aR	00	70	3NP5 0	00	130	--	--	--

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

²⁾ 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

³⁾ In the case of cyclic loads, the currents may have to be further reduced (precise values on request).

⁴⁾ 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).

Switch Disconnectors

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

Introduction

Overview

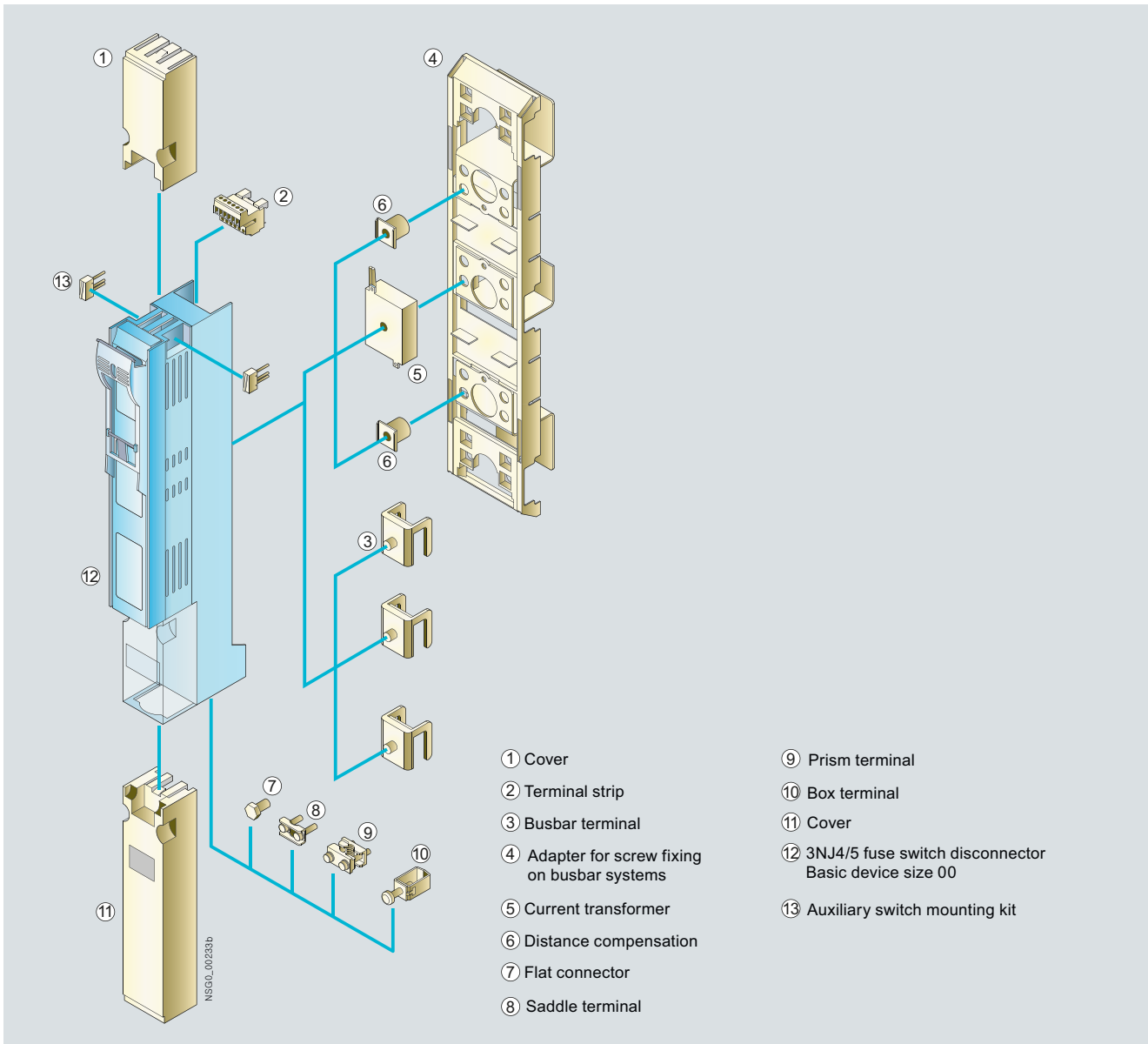


3NJ4/3NJ5 fuse switch disconnectors

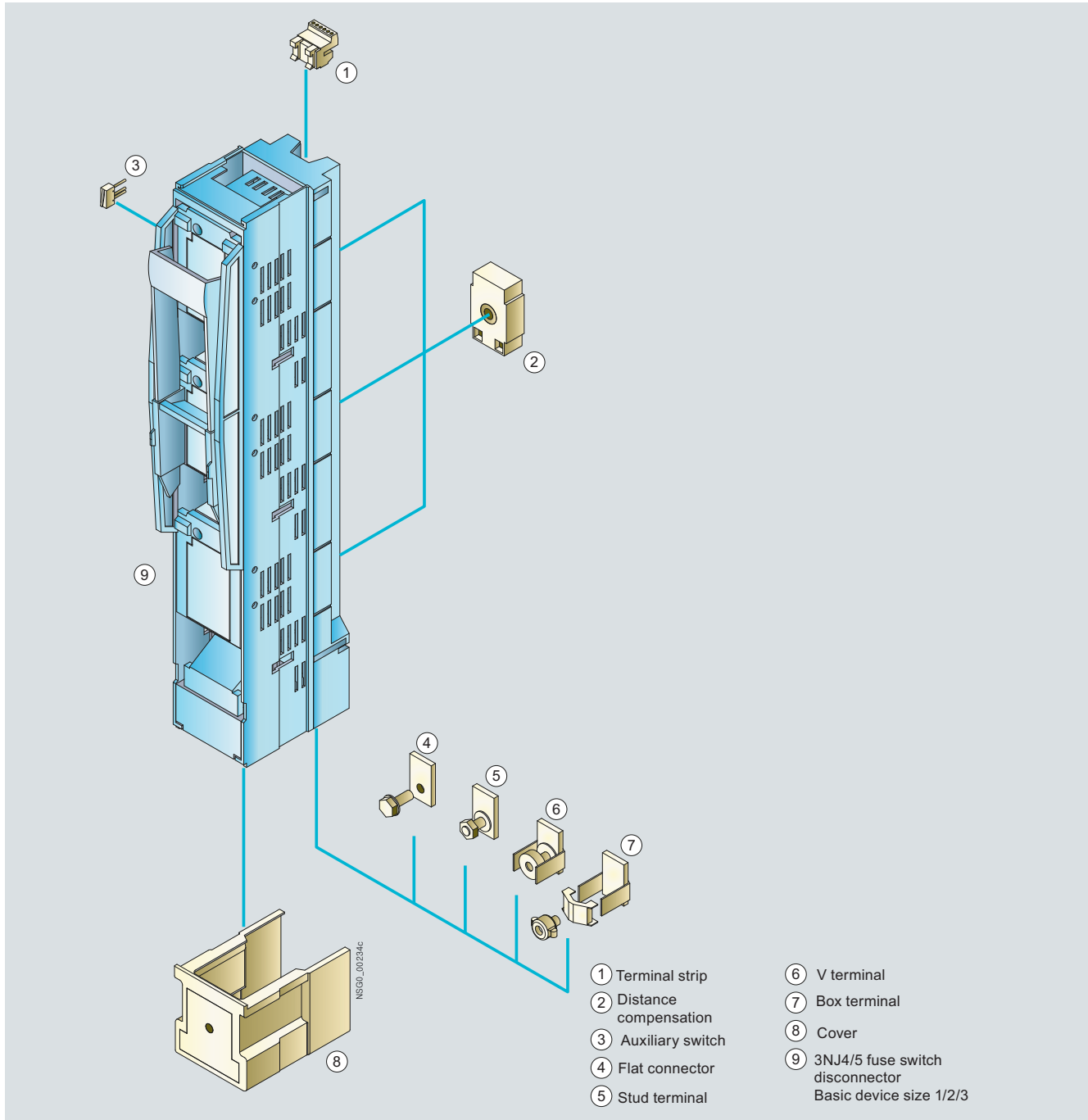
All key product features at a glance

- Compliant with IEC/EN 60439-1, IEC/EN 60947-3
- Voltage levels up to 690 V AC
- Rated operational current from 160 A to 2000 A
- Fuse links according to IEC 60269-1 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



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



Benefits

Parking position

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

This results in the following advantages:

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

Application

3NJ41 and 3NJ56 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 3-phase equipment.*

Switch Disconnectors

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

Introduction

Technical specifications

Standards			IEC 60947-1, IEC 60947-3, VDE 0660 Part 107								
Type			3NJ41 0 3NJ50	3NJ41 2	3NJ41 3	3NJ41 4	3NJ56	3NJ41 5	3NJ41 8	3NJ41 6	3NJ41 7
Conventional thermal current											
Free-air with gG fuses, I_{th}	A		160	250	400	630	1250	630	800	1260	1600
Free-air with isolating 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		160	250	400	630	1250	630	800	2 × 630	2 × 800
Free-air with isolating link, I_n	A		--	--	--	--	--	1000	1250	2 × 800	2 × 1000
gTr according to VDE 0636-2011, I_{rat}	A		--	--	--	--	1154	722	909	2 × 577	2 × 722
gTr according to VDE 0636-2011, S_n	kVA		--	--	--	--	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											
With gG fuse (rms value)	kA		80/50	110	110	110	80	110	50	80	50
With gTr fuse (rms value)	kA		--	--	--	--	--	--	50	--	--
Max. permissible power loss per fuse link	W		12	32	45	48	110	51	61	48	51
Rated short-time withstand current I_{CW} rms value	kA		--	14.5	14.5	14.5	35	14.5	14.5	25	25
Rated making and breaking capacity											
Rated operational current I_e for gG fuses											
At AC-21B	400 V AC	A	160	250	400	630	1250	630	800	2 × 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 current paths at I_{th}	W		18	23	54	115	190	275	155	350	375
Main conductor connections											
Terminal screws			M8	M10	M12	M12	M16	2 × 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

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

1-pole switchable
Selection and ordering data

	Rated operat- ing cur- rent 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	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	Size	mm									kg
In-line fuse switch disconnectors, 1-pole switchable												
	160	00 and 000	185	M8 flat connector	Cu/Al ²⁾		3NJ50 13-0BD00		1	1 unit	143	2.260
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ41 21-3BF01		1	1 unit	143	5.040
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ41 31-3BF01		1	1 unit	143	5.363
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ41 41-3BF01		1	1 unit	143	5.860
	1250	4a	185	M16 x 60 stud terminal	Cu/Al ²⁾		3NJ56 43-0BB00		1	1 unit	143	21.260
In-line fuse switch disconnectors, 1-pole switchable, for integratable current transformers												
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ41 21-3BF11		1	1 unit	143	4.890
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ41 31-3BF11		1	1 unit	143	5.200
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ41 41-3BF11		1	1 unit	143	5.880

3NJ41 21-3BF01

3NJ41 21-3BF11

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

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

Switch Disconnectors

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

3-pole switchable

Selection and ordering data

	Rated operating current I_e	For fuse links acc. to IEC 60269-1	Busbar center-to-center spacing	Connection type (terminal screws/ clamp-type terminals included in the scope of supply) ¹⁾ optionally top or bottom (rotatable!)	For conductor material	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	Size	mm									kg
In-line fuse switch disconnectors, 3-pole switchable												
	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾	▶	3NJ41 03-3BF02		1	1 unit	143	1.140
				F70 box terminal	Cu		3NJ41 03-3BR02		1	1 unit	143	1.135
	160	00 and 000	185	M8 flat connector	Cu/Al ²⁾		3NJ50 33-0BD00		1	1 unit	143	2.390
	250	1	185	M10 flat connector	Cu/Al ²⁾	▶	3NJ41 23-3BF01		1	1 unit	143	5.481
				M12 stud terminal	Cu/Al ²⁾		3NJ41 23-3BJ01		1	1 unit	143	5.512
				V terminal	Cu/Al ²⁾		3NJ41 23-3BT01		1	1 unit	143	5.908
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾	▶	3NJ41 33-3BF01		1	1 unit	143	5.250
				M12 stud terminal	Cu/Al ²⁾		3NJ41 33-3BJ01		1	1 unit	143	5.406
				V terminal	Cu/Al ²⁾		3NJ41 33-3BT01		1	1 unit	143	5.899
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾	▶	3NJ41 43-3BF01		1	1 unit	143	6.165
				M12 stud terminal	Cu/Al ²⁾		3NJ41 43-3BJ01		1	1 unit	143	6.321
				V terminal	Cu/Al ²⁾		3NJ41 43-3BT01		1	1 unit	143	6.675
In-line fuse switch disconnectors, 3-pole switchable, with electronic fuse monitoring (EFM)												
	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾		3NJ41 03-3CF02		1	1 unit	143	1.540
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ41 23-3CF01		1	1 unit	143	6.280
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ41 33-3CF01		1	1 unit	143	6.350
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ41 43-3CF01		1	1 unit	143	7.050
In-line fuse switch disconnectors, 3-pole switchable, for integratable current transformers												
	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾	▶	3NJ41 03-3BF12		1	1 unit	143	1.110
	250	1	185	M10 flat connector	Cu/Al ²⁾	▶	3NJ41 23-3BF11		1	1 unit	143	5.192
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾	▶	3NJ41 33-3BF11		1	1 unit	143	5.250
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾	▶	3NJ41 43-3BF11		1	1 unit	143	6.090
In-line fuse switch disconnectors, 3-pole switchable, for integratable current transformers, with electronic fuse monitoring (EFM)												
	160	00 and 000	100	M8 flat connector	Cu/Al ²⁾		3NJ41 03-3CF12		1	1 unit	143	1.500
	250	1	185	M10 flat connector	Cu/Al ²⁾		3NJ41 23-3CF11		1	1 unit	143	8.500
	400	2 and 1	185	M12 flat connector	Cu/Al ²⁾		3NJ41 33-3CF11		1	1 unit	143	11.500
	630	3 and 2	185	M12 flat connector	Cu/Al ²⁾		3NJ41 43-3CF11		1	1 unit	143	7.090
In-line fuse switch disconnectors, 3-pole switchable, for secondary-side fusing of transformers and incoming block												
	500	500	185	722	1000	Cu/Al ²⁾	3NJ41 53-3BF01		1	1 unit	143	9.000
	630	630	185	909	1250	Cu/Al ²⁾	3NJ41 83-3BF01		1	1 unit	143	12.943
	800	2 x 400	185	2 x 577	1600	Cu/Al ²⁾	3NJ41 63-3BF01		1	1 unit	143	15.500
	1000	2 x 500	185	2 x 722	2000	Cu/Al ²⁾	3NJ41 73-3BF01		1	1 unit	143	25.520

3NJ41 63-3BF01

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

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

Selection and ordering data

	Version	For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
 33NJ49 12-1AA01  3NJ49 12-1EA00  3NJ49 12-1DA02  3NJ49 12-2AA01  3NJ49 12-2BA00  3NJ49 12-2CA01  3NJ49 18-0AAA00	Covers Size 00, additional touch protection when using cable lugs and as spacer	NJ50 33, 3NJ50 13		3NJ49 12-1FA02		1	1 unit	143	0.107
	Covers¹⁾ Size 1 to 3 Additional touch protection with use of cable lugs or connection from above	3NJ41 2 to 3NJ41 4, 3NJ41 5, 3NJ41 8	▶	3NJ49 12-1AA01		1	1 unit	143	0.099
	Covers size 3 For double in-line disconnectors	3NJ41 4		3NJ49 12-1EA00		1	1 unit	143	0.786
	Covers Size 00 (can also be used as spacer) top and bottom to cover long cable lugs and compensate for combination of 3NJ41 03 with terminals 3NJ41 2 to 3NJ41 4 (1 set = 2 units: short and long ²⁾)	3NJ4103-3BF02		3NJ49 12-1DA02		1	1 unit	143	0.156
	Blanking covers For panel cutout	50 mm wide		3NJ49 12-2AA00		1	1 unit	143	0.189
	According to the size of the switch disconnectors: sizes 1 to 3 (for fitting in the cutout of the control panels)	100 mm wide		3NJ49 12-2BA00		1	1 unit	143	0.215
	For 3NJ41 03	50 mm wide		3NJ49 12-2CA00		1	1 unit	143	0.086
	Fixing clips 2 units per side, for fixing the cover of the control panel front (1 set = 4 units, including fixing accessories)	3NJ41		3NJ49 18-0AA00		1	1 unit	143	0.130

* You can order this quantity or a multiple thereof.

Switch Disconnectors

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

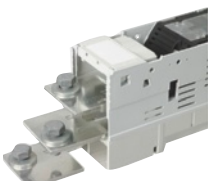
Accessories

Version		For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		kg							
	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		3NJ49 12-3AA00		1	1 unit	143	0.130
	② Busbar center-to-center spacing 185 mm	100 mm wide		3NJ49 12-3BA01		1	1 unit	143	0.372
	Adapters for screw fixing on busbar systems								
	For fitting two 3NJ41 03 fuse switch disconnectors (= 1 holder) onto a busbar system with 185 mm center-to-center spacing with hang-in terminal (including adaptation of the overall depth to that of the 3NJ41 2 to 3NJ41 4 fuse switch disconnectors)		3NJ41 03	3NJ49 18-0DA02		1	1 unit	143	0.745
	For fitting two 3NJ50 fuse switch disconnectors (= 1 holder) (to adapt the overall depth of sizes 1 to 3)		3NJ50 13 and 3NJ50 33	3NJ59 30-3BB		1	1 unit	143	0.703
	For fitting one 3NJ41 03 fuse switch disconnectors (= 3 separate brackets) onto a busbar system with 60 mm center-to-center spacing		3NJ41 03	3NJ49 18-0EA00		1	1 unit	143	0.249
	Adapters with busbar terminals		3NJ41 03	3NJ49 18-0DB02		1	1 unit	143	1.240
	For fitting two 3NJ41 03 fuse switch disconnectors (= 1 holder) onto a busbar system with 185 mm center-to-center spacing (including adaptation of the overall depth to the 3NJ41 2 to 3NJ41 4 fuse switch disconnectors)								
	Fixing screws		3NJ41 03	3NJ49 18-0DC02		1	1 unit	143	0.065
	(1 set = 3 units) for fitting 3NJ41 03 switch disconnectors with integratable current transformers onto adapters								
	Busbar supports		3NJ41 and 3NJ5	3NJ59 74-0AB		1	1 unit	143	0.463
	For 100 mm and 185 mm center-to-center spacing, for screwing on of busbars								
	Grounding kit with connecting cable 25 mm²		3NJ41 4 to 3NJ41 8	3NJ49 10-1AA00		1	1 unit	143	2.376

Switch Disconnectors

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

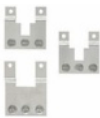
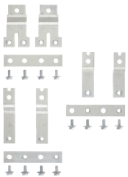
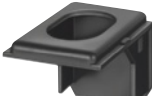
Accessories

	Version	For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3NJ49 11-3AA00  3NJ49 11-3BA01	Busbar terminals For each fuse switch disconnector, 3 units are required	3NJ41 03 3NJ50 13 3NJ50 33	►	3NJ49 11-3AA00		1	1 unit	143	0.158
	For rapid mounting of the in-line disconnectors onto the busbars (1 set = 3 units)	3NJ41 2 to 3NJ41 4	►	3NJ49 11-3BA01		1	1 unit	143	0.607
 3NJ49 11-4AA00	Saddle terminals connector Cu 1.5 ... 70 mm ² (1 set = 3 units)	3NJ41 03		3NJ49 11-4AA00		1	1 unit	143	0.044
 3NJ49 11-1AA00	Prism terminal assembly kits connector Al/Cu 10 ... 70 mm ² (1 set = 3 units)	3NJ41 03		3NJ49 11-1AA00		1	1 unit	143	0.097
 3NJ49 11-2BQ00	Box terminal assembly kits Al/Cu terminal 95 ... 240 mm ² (for connection to version with flat connector) (1 set = 3 units)	3NJ41 2 to 3NJ41 4		3NJ49 11-2BQ00		1	1 unit	143	0.959
 3NJ49 11-5AA00	Busbar connection assembly kits for NH 1, 2, 3 with flat connector 2 x 240 mm ² With M12 screws	3NJ41 2 to 3NJ41 4		3NJ49 11-5AA00		1	1 unit	143	0.246
 3NJ49 11-5BA00	2 x 300 mm ² / 3x 120 mm ² With M12 screws	3NJ41 2 to 3NJ41 4		3NJ49 11-5BA00		1	1 unit	143	1.873
 3NJ49 11-5CA00	1 x 400 mm ² With M16 screws	3NJ41 2 to 3NJ41 4		3NJ49 11-5CA00		1	1 unit	143	1.906

Switch Disconnectors

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

Accessories

	Version	For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Busbar connection assembly kits for NH3 as double in-line disconnectors 3 x 300 mm ² / 4 x 185 mm ²	3NJ41 3, 3NJ41 4		3NJ49 11-6AA00		1	1 unit	143	3.185
3NJ49 11-6AA00									
	Mechanical coupling of operating handles, required in addition for coupling two switch disconnectors	3NJ41 3 3NJ41 4		3NJ49 11-6CA00		1	1 unit	143	0.051
3NJ49 11-6BA00									
	Busbar connection assembly kits for NH3 as double in-line disconnectors 4 x 240 mm ²	3NJ41 3, 3NJ41 4		3NJ49 11-6BA00		1	1 unit	143	4.103
3NJ49 11-6BA00									
	Mechanical coupling of operating handles, required in addition for coupling two switch disconnectors	3NJ41 3 3NJ41 4		3NJ49 11-6CA00		1	1 unit	143	0.051
3NJ49 11-6BA00									
	Auxiliary switch mounting kit For sizes 00 to 3 with connecting cables, for 3-pole switchable switch disconnectors only	3NJ41 to 3NJ50		3NJ49 13-1AA01		1	1 unit	143	0.023
3NJ49 13-6AA02									
	Fuse 630 kVA 909 A Size NH 3 Specially for the protection of transformers (minimum order quantity 3 units)	3NJ41 8		3NJ49 14-8AA00		1	1 unit	143	1.341
	Isolating blades Size NH 3, 1250 A			3NJ49 14-8BA00		1	1 unit	143	0.903
3NJ49 14-8BA00									
	Mounting hooks (one per in-line disconnector required)			3NJ49 18-1AA00		1	1 unit	143	0.122
3NJ49 18-1AA00									
	Distance compensation For fuse switch disconnectors, with integratable current transformers if no current transformer is built in.	3NJ41 03 3NJ41 2 to 3NJ41 4	▶ ▶	3NJ49 15-1BA00 3NJ49 15-2BA00		1 1	1 unit 1 unit	143 143	0.022 0.097
3NJ49 15-1BA00									
									
3NJ49 15-2BA00									

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

Accessories

Version	For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 3NJ49 15-1CA00 3NJ49 15-2CA00	Terminal strips	3NJ41 03	▶ 3NJ49 15-1CA00		1	1 unit	143	0.090
		3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2CA00		1	1 unit	143	0.111
 3NJ49 15-1FB20  3NJ49 15-2HA20	Current transformers .../1 A	100/1 A, Cl. 0.5, 1.5 VA	3NJ41 03	▶ 3NJ49 15-1EA10	1	1 unit	143	0.252
		100/1 A, Cl. 1, 2.0 VA	3NJ41 03	▶ 3NJ49 15-1EA20	1	1 unit	143	0.249
		150/1 A, Cl. 0.5, 2.5 VA	3NJ41 03	▶ 3NJ49 15-1FA10	1	1 unit	143	0.250
		150/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 03	▶ 3NJ49 15-1FA11	1	1 unit	143	0.250
		150/1 A, Cl. 1, 3.0 VA	3NJ41 03	▶ 3NJ49 15-1FA20	1	1 unit	143	0.251
		75/1 A, Cl. 1, 1.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2DA20	1	1 unit	143	0.216
		100/1 A, Cl. 0.5, 1.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2EA10	1	1 unit	143	0.190
		100/1 A, Cl. 1, 2.0 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2EA20	1	1 unit	143	0.204
		150/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2FA10	1	1 unit	143	0.206
		150/1 A, Cl. 1, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2FA20	1	1 unit	143	0.223
		250/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2GA10	1	1 unit	143	0.220
		250/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2GA11	1	1 unit	143	0.207
		250/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2GA20	1	1 unit	143	0.223
		400/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2HA10	1	1 unit	143	0.196
		400/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2HA11	1	1 unit	143	0.202
		400/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2HA20	1	1 unit	143	0.200
		500/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2JA10	1	1 unit	143	0.190
		500/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2JA20	1	1 unit	143	0.198
		600/1 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2KA10	1	1 unit	143	0.195
		600/1 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2KA11	1	1 unit	143	0.218
		600/1 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	▶ 3NJ49 15-2KA20	1	1 unit	143	0.198

Switch Disconnectors

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

Accessories

	Version	For in-line fuse switch disconnectors or dimensions	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
 3NJ49 15-1FB20	Current transformers .../5 A								
	100/5 A, Cl. 0.5, 1.0 VA	3NJ41 03		3NJ49 15-1EB10		1	1 unit	143	0.240
	100/5 A, Cl. 1, 1.5 VA	3NJ41 03		3NJ49 15-1EB20		1	1 unit	143	0.247
	150/5 A, Cl. 0.5, 1.5 VA	3NJ41 03		3NJ49 15-1FB10		1	1 unit	143	0.249
	150/5 A, Cl. 0.5 calibrated, 1.5 VA	3NJ41 03		3NJ49 15-1FB11		1	1 unit	143	0.248
	150/5 A, Cl. 1, 2.5 VA	3NJ41 03	►	3NJ49 15-1FB20		1	1 unit	143	0.248
	75/5 A, Cl. 1, 1.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2DB20		1	1 unit	143	0.209
	100/5 A, Cl. 0.5, 1.0 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2EB10		1	1 unit	143	0.208
	100/5 A, Cl. 1, 2.0 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2EB20		1	1 unit	143	0.208
	150/5 A, Cl. 0.5, 1.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2FB10		1	1 unit	143	0.199
	150/5 A, Cl. 1, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2FB20		1	1 unit	143	0.202
	250/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2GB10		1	1 unit	143	0.203
	250/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2GB11		1	1 unit	143	0.203
	250/5 A, Cl. 1, 3.75 VA	3NJ41 2 to 3NJ41 4	►	3NJ49 15-2GB20		1	1 unit	143	0.202
	400/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2HB10		1	1 unit	143	0.197
	400/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2HB11		1	1 unit	143	0.195
	400/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	►	3NJ49 15-2HB20		1	1 unit	143	0.195
	500/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2JB10		1	1 unit	143	0.197
	500/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2JB20		1	1 unit	143	0.197
	600/5 A, Cl. 0.5, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2KB10		1	1 unit	143	0.201
 3NJ49 15-2HB20	600/5 A, Cl. 0.5 calibrated, 2.5 VA	3NJ41 2 to 3NJ41 4		3NJ49 15-2KB11		1	1 unit	143	0.209
	600/5 A, Cl. 1, 5.0 VA	3NJ41 2 to 3NJ41 4	►	3NJ49 15-2KB20		1	1 unit	143	0.198

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).