

**SIEMENS**

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# Low-Voltage Power Distribution and Electrical Installation Technology

Switch Disconnectors

Catalog  
Extract  
LV 10

Edition  
10/2020

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Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

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## Catalog LV 10 · 10/2020

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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

### Technical data

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

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# Low-Voltage Power Distribution and Electrical Installation Technology

	Introduction .....	I/2
Protecting	Air Circuit Breakers .....	1/1
	Molded Case Circuit Breakers .....	2/1
	Miniature Circuit Breakers .....	3/1
	Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs) ..	4/1
	Switching Devices .....	5/1
	Overvoltage Protection Devices .....	6/1
	Fuse Systems .....	7/1
Protecting, Switching and Isolating	Switch Disconnectors .....	8/1
Switching and Isolating	Transfer Switching Equipment and Load Transfer Switches .....	9/1
Measuring and Monitoring	Measuring Devices, Power Monitoring and Digitalization Solutions .....	10/1
	Monitoring Devices .....	11/1
Distribution	Transformers, Power Supply Units and Socket Outlets .....	12/1
	Busbar Systems .....	13/1
	Terminal Blocks .....	14/1
	Power Distribution Boards, Motor Control Centers and Distribution Boards ..	15/1
	Busbar Trunking Systems .....	16/1
	System Cubicles, System Lighting and System Air-Conditioning .....	17/1
	Appendix .....	A/1

I

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

A



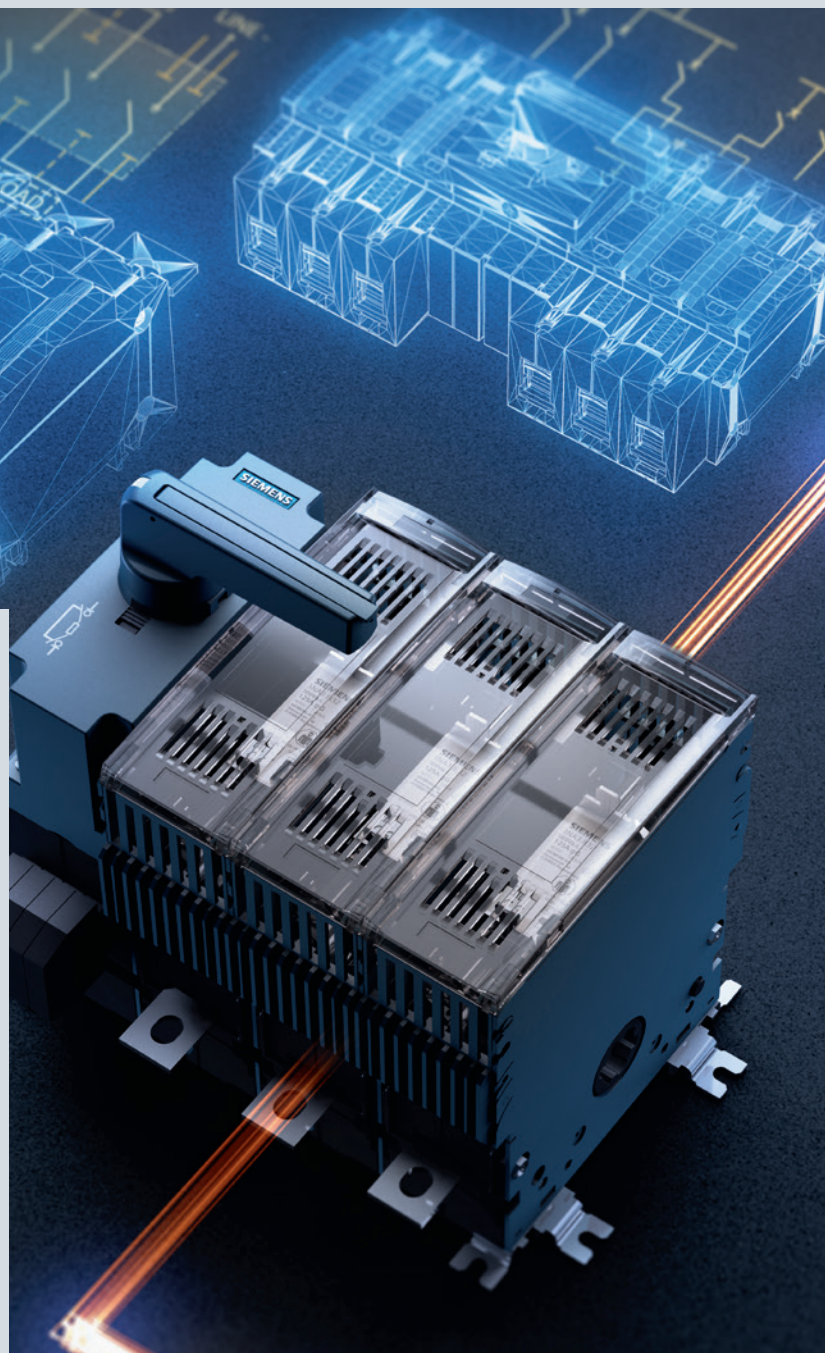
## End-to-end safety for user and systems

Assembly or maintenance: work on electrical installations and devices must be made sufficiently safe to prevent accidents or harm. The safety of the operating personnel is paramount.

To ensure this, it is necessary to be able to disconnect the installation safely from the power supply. Siemens switch disconnectors permit permanent switch-on and switch-off under a load and thus protect the user from electric shock. They also prevent unauthorized switching on of machines.

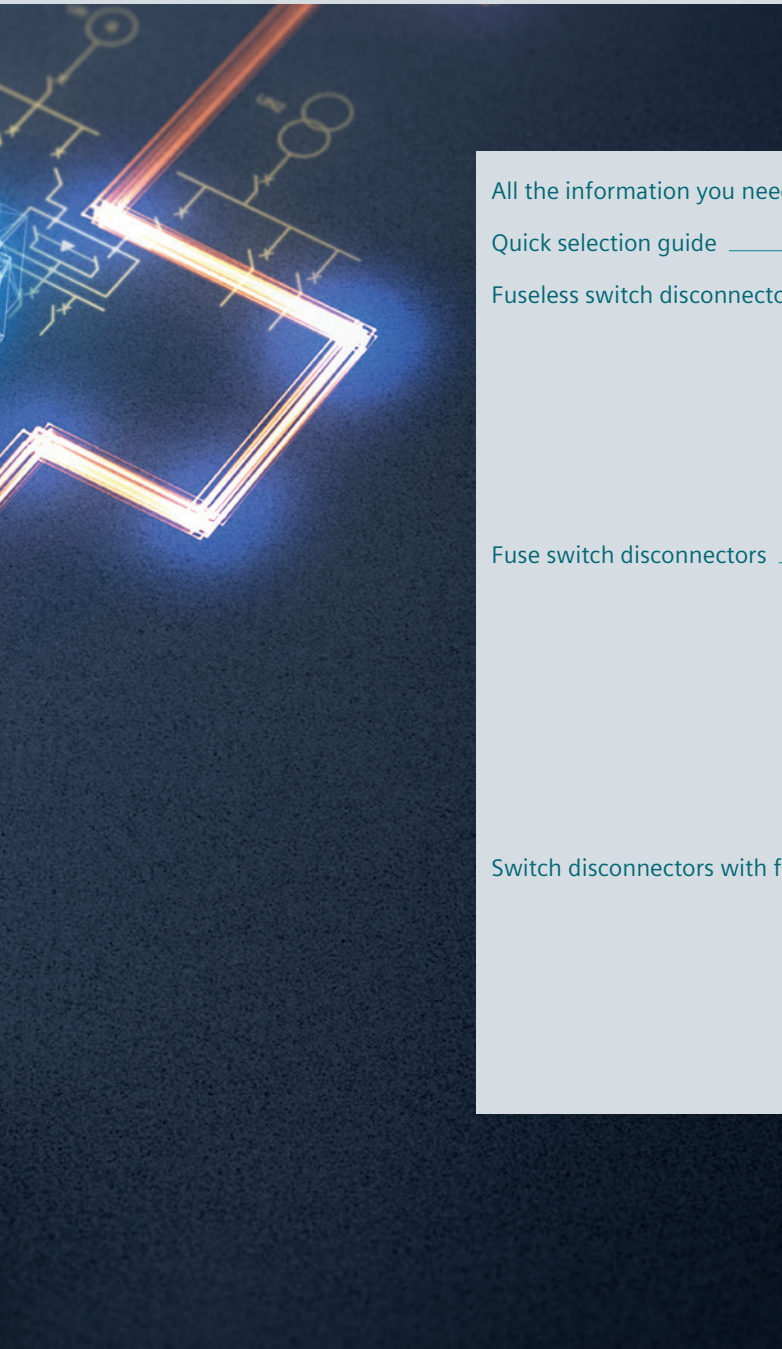
The devices are simply mounted and quickly commissioned. Additional functions can be retrofitted at any time – thanks to the modular design of the devices and a comprehensive range of accessories.

Convenient ordering processes and fast delivery optimize stock management and reduce the time and money expended. You can also make use of our CAX data for automated, simplified planning and configuring.





# Switch Disconnectors



All the information you need .....	8/2
Quick selection guide .....	8/4
Fuseless switch disconnectors .....	8/6
Quick selection guide .....	8/6
3LD switch disconnectors .....	8/10
3KD switch disconnectors .....	8/62
5TE1 switch disconnectors .....	8/78
Fuse switch disconnectors .....	8/80
Quick selection guide .....	8/80
3NP1 fuse switch disconnectors .....	8/82
3NP5 fuse switch disconnectors .....	8/96
3NJ4 fuse switch disconnectors .....	8/100
5SG76 fuse switch disconnectors .....	8/112
Switch disconnectors with fuses .....	8/114
Quick selection guide .....	8/114
3KF switch disconnectors with fuses .....	8/118
3NJ62 switch disconnectors with fuses .....	8/134
5SG switch disconnectors with fuses .....	8/146

# A multitude of additional information ...

## Information + ordering

### All the important things at a glance

#### Information to get you started

For information about switch disconnectors, please visit our website  
[www.siemens.com/switching-devices](http://www.siemens.com/switching-devices)

### Your product in detail

The Siemens Industry Online Support portal provides comprehensive information  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- Technical basic information – Switch disconnectors and transfer switching equipment (**109763354**)

The relevant tender specifications can be found at  
[www.siemens.com/lowvoltage/tenderspecifications](http://www.siemens.com/lowvoltage/tenderspecifications)

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### Configurators

#### Exactly the right switch disconnector for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations.

Configure your 3NJ62 switch disconnector at  
[www.siemens.com/lowvoltage/3nj62-configurator](http://www.siemens.com/lowvoltage/3nj62-configurator)  
 and your 3NP1 fuse switch disconnector at  
[www.siemens.com/lowvoltage/3np1-configurator](http://www.siemens.com/lowvoltage/3np1-configurator)

Choose the right SITOP semiconductor fuse for your application  
[www.siemens.com/lowvoltage/sitop-configurator](http://www.siemens.com/lowvoltage/sitop-configurator)

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- Switching devices  
[sie.ag/2mryctm](http://sie.ag/2mryctm)

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

You will find order support for the electrical wholesale trade carrying fast-selling items in the Siemens Industry Online Support at  
[www.siemens.com/lowvoltage/catalogs](http://www.siemens.com/lowvoltage/catalogs)

- Order support – 3KD switch disconnectors – End-to-end safety for user and systems (**109750228**)
- Order support – 3LD2 main control and EMERGENCY-STOP-switching equipment – End-to-end safety for user and systems (**109755626**)
- Order support – 3NP1 fuse switch disconnectors – End-to-end safety for user and systems (**109755624**)
- Order support – 3KF switch disconnectors with fuses – End-to-end safety for user and systems (**109750229**)
- Order support – 3NJ6 switch disconnectors with fuses – End-to-end safety for user and systems (**109755619**)



# ... can be found in our online services

## Commissioning + operation

### Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

[www.siemens.com/lowvoltage/cax](http://www.siemens.com/lowvoltage/cax)

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You can find further information on services at

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### Manuals

Manuals are available for downloading in Siemens Industry Online Support at

[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

- Configuration manual – Switch disconnectors ([109769744](#))
- Configuration manual – Fuse systems ([45314810](#))
- Configuration manual – Transfer switching equipment and load transfer switches ([109769745](#))
- Configuration manual – Busbar systems ([109769746](#))
- System manual – SENTRON 3NJ62 In-Line Plug-In switch disconnectors with fuses ([31753460](#))
- Equipment manual – 3KD switch disconnector ([109758120](#))
- System manual – SENTRON 3NP1 fuse switch disconnector ([33515690](#))

### Technical overview – Switch disconnectors



#### The fast way to get you to our online services

This page provides you with comprehensive information and links on switch disconnectors

[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support) ([109764946](#))

# Quick selection guide

Load switching devices for all applications



Fuseless switch disconnectors<sup>3)</sup>

Functional switching<sup>1)</sup>



		Type	3LD3	3LD2	3LD5 UL <span style="background-color: #ffcc00;">new</span>	3KD	3VA	5TE
Rated current $I_n$			16 ... 63 A	16 ... 250 A	30 ... 160 A	16 ... 2000 A	63 ... 630 A	100 ... 200 A
Short-circuit current max.			6 kA	50 kA	50 kA	100 kA	110 kA <sup>5)</sup>	33 kA
Selection acc. to utilization category	AC max.		AC-3	AC-3	AC-3	AC-23A	AC-23A	AC-23A
	DC max.		–	DC-22A	–	DC-23A	DC-23A (up to 250 A)	DC-23A
Suitable fuses			–	–	–	–	–	–
Types of mounting	Floor mounting		■	■	■	■	■	–
	Mounting on a standard mounting rail		■	■ (up to 125 A)	■ (up to 63 A)	■ (up to 250 A)	■ (up to 160 A)	■
	Front mounting (e.g. in panel door)		■	■	■	–	–	–
	Mounting on busbar systems (spacing of the busbars)		–	–	–	–	■	–
	Draw-out technology		–	–	–	–	■	–
Methods of operation	Manual from the front		■	■	■	■	■	■
	Manual from the side		–	–	–	■	■	–
	Remote-controllable		–	–	–	–	■	–
Number of poles	1-pole		–	–	–	–	–	–
	2-pole		–	–	–	–	–	■
	3-pole		■	■	■	■	■	■
	4-pole		■	■	■	■	■	■
	6-pole		–	■	–	■	–	–
Switching function	All poles		■	■	■	■	■	■
	Individual poles switchable		–	–	–	–	–	–
More information			from page 8/6			from page 2/1		from page 8/6

<sup>1)</sup> According to DIN VDE 0100-200, functional switching is an operation intended to switch on or off or vary the supply of electric energy to an electrical installation or parts of it for normal operating purposes.

<sup>2)</sup> Devices for occasional switching usually have a substantially lower electrical endurance and are switched no more than 1× per minute in the tests.

<sup>3)</sup> Pure switching without protection function





### Fuse switch disconnectors<sup>4)</sup>

Occasional switching<sup>2)</sup>



3NP1      3NP5      3NJ4      5SG76

160 ... 630 A    160 ... 630 A    160 ... 1600 A    16 A  
120 kA      100 kA      120 kA      50 kA

AC-23B      AC-23B      AC-23B      AC-22A  
DC-23B      DC-23B      –      –

IEC NH      IEC NH      IEC NH      Neozed

■      ■      –      –  
■      –      –      ■

–      –      –      –

40/60 mm    40/60 mm    60/100/185 mm    –

–      –      –      –

■      ■      ■      ■

–      –      –      –

–      –      –      –

■      –      –      ■

■      –      –      ■

■      ■      ■      ■

■      –      –      ■

–      –      –      –

■      ■      ■      ■

–      –      ■      –

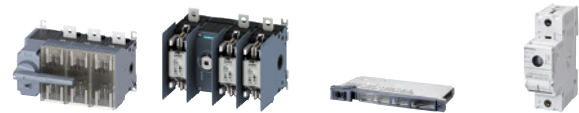
from page 8/80



### Switch disconnectors with fuse<sup>4)</sup>

Functional  
switching<sup>1)</sup>

Occasional  
switching<sup>2)</sup>



3KF NH      3KF SITOR      3NJ62      5SG71/72

32 ... 800 A    32 ... 800 A    63 ... 630 A    63 A  
100 kA      100 kA      100 kA      50 kA

AC-23A      AC-23A      AC-23B      AC-23A  
DC-23A      DC-23A      DC-23B      DC-22B

IEC NH      IEC LV HRC,  
optimized for  
semiconductor  
protection      IEC NH / BS      –

■      ■      –      –  
■      ■      –      –

–      –      –      –

–      –      185 mm    60 mm

–      –      ■      –

■      ■      ■      ■

■      ■      –      –

–      –      ■      –

–      –      –      ■

–      –      ■      ■

■      ■      ■      ■

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■      ■      ■      ■

–      –      –      –

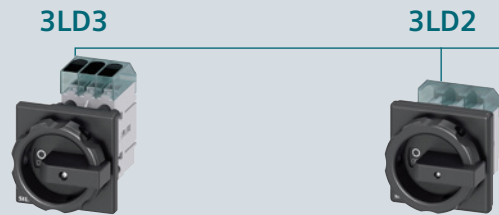
from page 8/114

<sup>4)</sup> The suitable fuses protect persons, motors, installations and generators against short circuit and overload

<sup>5)</sup> With a line-side fuse for 415 V

# Fuseless switch disconnectors

## Quick selection guide



Type			3LD30	3LD31	3LD32	3LD33	3LD34	3LD20	3LD21	3LD22
General technical specifications acc. to IEC 60947-3										
General technical specifications										
Rated uninterrupted current I <sub>u</sub>		A	16	25	32	40	63	16	25	32
Rated operational voltage U <sub>e</sub>	At 50/60 Hz AC	V	690					690		
	At DC – 2 conducting paths in series	V	–					–		
	At DC – 3 conducting paths in series	V	–					–		
	At DC – 4 conducting paths in series	V	–					–		
Operating and short-circuit behavior										
Rated operational current I <sub>e</sub> <sup>1)</sup>	At AC-20A AC-20B at 1000 V	A	–	–	–	–	–	–	–	–
	At AC-21A AC-21B at 400 V	A	16	25	32	40	63	16	25	32
	At AC-21A AC-21B at 690 V	A	16	25	32	40	63	16	25	32
	At AC-22A AC-22B at 400 V	A	16	20	22	36	43	16	25	32
	At AC-22A AC-22B at 690 V	A	9	11	13	17	22	16	25	32
	At AC-22A AC-22B at 1000 V	A	–	–	–	–	–	–	–	–
	At AC-23A AC-23B at 400 V	A	16	20	22	36	43	16	20	22
	At AC-23A AC-23B at 690 V	A	9	11	13	17	22	9	11	13
	At DC-20A DC-20B at 1000 V	A	–	–	–	–	–	–	–	–
	At DC-21A DC-21B at 110 V	A	–	–	–	–	–	–	–	–
	At DC-21A DC-21B at 220 V	A	–	–	–	–	–	–	–	–
	At DC-21A DC-21B at 440 V	A	–	–	–	–	–	–	–	–
	At DC-22A DC-22B at 220 V	A	–	–	–	–	–	–	–	–
	At DC-22A DC-22B at 440 V	A	–	–	–	–	–	–	–	–
	At DC-23A DC-23B at 220 V	A	–	–	–	–	–	–	–	–
	At DC-23A DC-23B at 440 V	A	–	–	–	–	–	–	–	–
Motor switching capacity	At AC-23A AC-23B at 400 V	kW	7.5	9.5	11.5	18.5	22	7.5	9.5	11.5
	At AC-23A AC-23B at 690 V	kW	7.5	9	11.5	15	18.5	7.5	9.5	11.5
	At AC-3   bei 400 V	kW	5.5	7.5	9.5	11.5	18.5	5.5	7.5	9.5
	At AC-3   bei 690 V	kW	5.5	7.5	9.5	11.5	15	5.5	7.5	9.5
Rated short-time withstand current I <sub>cw</sub>	At 690 V AC (t=1 s)	kA	0.5	0.5	0.5	1	1	0.34	0.64	0.64
	At 1000 V AC (t=1 s)	kA	–	–	–	–	–	–	–	–
Rated conditional short-circuit current with upstream fuse	At 400/415 V AC	kA	6	6	6	6	6	50	50	50
	At 690 V AC	kA	6	6	6	6	6	50	50	50
Degree of protection										
Maximum achievable IP degree of protection (with a rotary operating mechanism)			IP65					IP65		
General technical specifications acc. to UL										
General technical specifications										
Certification according to UL standard			UL 508					UL 508		
I <sub>n</sub> acc. to UL 508/UL60947-4-1   UL489	A	16 –	25 –	32 –	40 –	63 –	16 –	25 –	32 –	
U <sub>e</sub> acc. to UL 508/UL60947-4-1   UL489	V AC	600 –					600 –			
Operating and short-circuit behavior										
Operational power, three-phase	At 480 V	hp	7.5	10	20	20	25	7.5	10	20
	At 600 V	hp	10	15	20	20	30	10	15	20
Short circuit current rating (SCCR)	At 480 V   at 600 V	kA	5 5					5 5	5 5	5 5
Upstream fuse according to UL			RK5					RK5		
More information										
Catalog LV 10 – 10/2020			see page 8/10					see page 8/20		



## 3LD2

3LD5 UL **new**

## 5TE



3LD25	3LD27	3LD28	3LD23	3LD24	3LD50	3LD52	3LD54	3LD56	3LD58	5TE1.1	5TE1.2	5TE1.3	5TE1.4
63	100	125	160	250	32	63	100	125	160	100	125	160	200
690					690					690	690	690	690
–					–					110	110	110	110
–					–					–	–	–	–
–					–					220	220	220	220
–	–	–	–	–	–	–	–	–	–	–	–	–	–
63	100	125	160	250	32	63	100	125	160	100	100	160	200
63	100	125	160	250	32	63	100	125	160	100	100	160	200
63	100	125	140	230	32	63	100	125	160	–	–	–	–
63	100	125	140	230	32	63	100	125	160	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
43	70	80	132	224	32	63	100	125	160	80	80	125	125
22	34	39	47	58	22	39	39	47	58	40	40	63	80
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	100	100	160	160
–	–	–	–	–	–	–	–	–	–	100	100	160	160
–	–	–	–	–	–	–	–	–	–	100	100	160	160
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	100	100	160	160
22	37	45	75	132	15	30	45	55	75	44	44	69	88
18.5	30	37	45	55	18.5	37	37	45	55	36	36	60	76
18.5	30	37	50	110	15	30	45	55	75	–	–	–	–
15	22	30	37	45	15	30	30	37	45	–	–	–	–
1.26	2	2	4	4	1.26	2	4	4	4	2.5	2.5	3	3
–	–	–	–	–	–	–	–	–	–	–	–	–	–
50	50	25	50	50	50	50	50	50	50	50	50	50	50
50	50	25	50	50	50	50	50	50	30	33	33	33	33
IP65					IP65					No info.			
UL 508					UL60947-4-1 / UL489					UL 508			
63 –	100 –	125 –	160 –	250 –	30 30	60 60	100 100	125 125	150 150	–	80 –	100 –	125 –
600 –					480 480					–	480 –		
40	60	75	75	100	20	30	60	75	100	–	20	15	15
50	75	100	50	75	–	–	–	–	–	–	–	–	–
5 5	10 10	10 10	10 10	10 10	50 –	65 –	65 –	65 –	50 –	–	50 –	50 –	50 –
RK5					J CC	J	J	J	J	–	J	J	J
see page 8/20					see page 8/52					see page 8/78			

# Fuseless switch disconnectors

## Quick selection guide



Type			3KD 01...-K	3KD 02...-K	3KD 03...-K	3KD 03...-L	3KD 04...-L	3KD 05...-L	3KD 06...-L	3KD 16	3KD 22	3KD 26	3KD 28...-M.
General technical specifications acc. to IEC 60947-3													
General technical specifications													
Rated uninterrupted current I <sub>u</sub>		A	16	32	63	63	80	100	125	16	32	63	80
Rated operational voltage U <sub>e</sub>	At 50/60 Hz AC	V	690	690	415	690	690	690	690	1000	1000	1000	1000
	At DC – 2 conducting paths in series	V	–	–	–	–	–	–	–	220	220	220	220
	At DC – 3 conducting paths in series	V	–	–	–	–	–	–	–	440	440	440	440
	At DC – 4 conducting paths in series	V	–	–	–	–	–	–	–	–	–	–	–
Operating and short-circuit behavior													
Rated operational current I <sub>e</sub> <sup>1)</sup>	At AC-20A AC-20B at 1000 V	A	–	–	–	–	–	–	–	16	32	63	80
	At AC-21A AC-21B at 400 V	A	16	32	63	63	80	100	125	16	32	63	80
	At AC-21A AC-21B at 690 V	A	16	32	–	63	80	100	125	16	32	63	80
	At AC-22A AC-22B at 400 V	A	16	32	63	63	80	100	125	16	32	63	80
	At AC-22A AC-22B at 690 V	A	16	32	–	63	80	100	125	16	32	63	80
	At AC-22A AC-22B at 1000 V	A	–	–	–	–	–	–	–	16	32	63	80
	At AC-23A AC-23B at 400 V	A	16	32	63	63	75	80	90	16	32	63	80
	At AC-23A AC-23B at 690 V	A	14	17	–	22	30	35	39	16	32	63	80
	At DC-20A DC-20B at 1000 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-21A DC-21B at 110 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-21A DC-21B at 220 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-21A DC-21B at 440 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-22A DC-22B at 220 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-22A DC-22B at 440 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-23A DC-23B at 220 V	A	–	–	–	–	–	–	–	16	32	63	80
	At DC-23A DC-23B at 440 V	A	–	–	–	–	–	–	–	16	32	63	80
Motor switching capacity	At AC-23A AC-23B at 400 V	kW	7,5	15	30	30	37	45	45	7,5	15	30	45
	At AC-23A AC-23B at 690 V	kW	11	15	–	18,5	22	30	30	11	30	55	75
	At AC-3 bei 400 V	kW	–	–	–	–	–	–	–	–	–	–	–
	At AC-3 bei 690 V	kW	–	–	–	–	–	–	–	–	–	–	–
Rated short-time withstand current I <sub>cw</sub>	At 690 V AC (t=1 s)	kA	1,26	1,26	1,26 <sup>1)</sup>	2,5	2,5	2,5	2,5	3	3	3	3
	At 1000 V AC (t=1 s)	kA	–	–	–	–	–	–	–	3	3	3	3
Rated conditional short-circuit current with upstream fuse	At 400/415 V AC	kA	50	50	50	50	50	50	50	100	100	100	100
	At 690 V AC	kA	50	50	–	50	50	50	20	100	100	100	100
Degree of protection													
Maximum achievable IP degree of protection (with a rotary operating mechanism)			IP65										
General technical specifications acc. to UL													
General technical specifications													
Certification according to UL standard			–										
I <sub>n</sub> acc. to UL 508/UL60947-4-1   UL489		A	–										
U <sub>e</sub> acc. to UL 508/UL60947-4-1   UL489		AC V	–										
Operating and short-circuit behavior													
Operational power, three-phase	At 480 V	hp	–										
	At 600 V	hp	–										
Short circuit current rating (SCCR)	At 480 V at 600 V	kA	–										
Fuse type			–										
More information													
Catalog LV 10 – 10/2020			see page 8/62										

<sup>1)</sup> Applies to AC 415 V





# 3LD switch disconnectors

## System overview of 3LD3 main control and EMERGENCY-STOP switches

### Basic units for front mounting



3P rotary operating mechanisms



3P knob-operated mechanisms



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms

### Basic units for floor mounting



3P rotary operating mechanisms



3P knob-operated mechanisms



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms

### Basic units for installation in distribution boards



3P knob-operated mechanisms



3P basic switches without knob-operated mechanism



3P+N knob-operated mechanisms



3P+N basic switches without knob-operated mechanism

### Additional poles and auxiliary switches



N switching contacts



N/PE terminals



Auxiliary switches

### Operating mechanisms



Rotary operating mechanisms for front or floor mounting (center hole)



Knob-operated mechanisms for front or floor mounting (center hole)



Door-coupling rotary operating mechanisms



Door-coupling knob-operated mechanisms

### Other accessories



Terminal covers, 1 and 3-pole



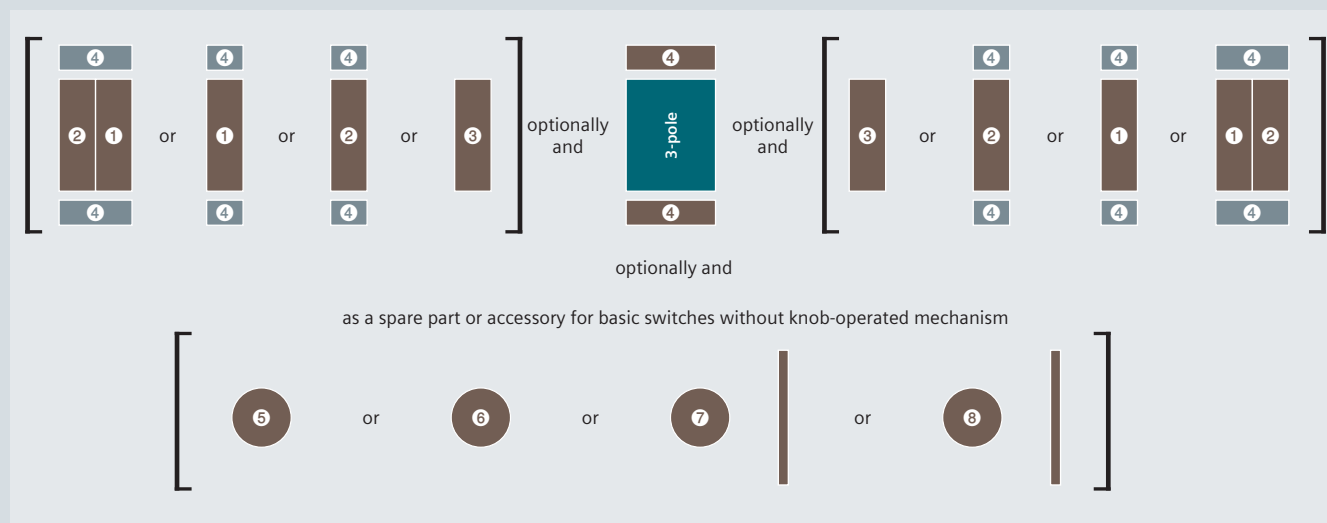
Inscription labels

#### Note:

You will find a detailed range of accessories with the basic units.



## Mounting concept and accessories



### Legend

- 1 N switching contact <sup>1)</sup>
- 2 N/PE terminal
- 3 Auxiliary switch

- 4 Terminal cover

- 5 Rotary operating mechanism, center-hole mounting
- 6 Knob-operated mechanism, center-hole mounting

- 7 Door-coupling rotary operating mechanism, center-hole mounting
- 8 Door-coupling knob-operated mechanism, center-hole mounting

<sup>1)</sup> The N switching contact 1 first has to be mounted on the basic unit



### Mounting types

#### Front mounting



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. The switches are mounted via the 22.5 mm diameter center hole.

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



#### Floor mounting



The switches for floor mounting are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

#### Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. They have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers. The selector switches can be locked in their OFF position with no more than one padlock with a hasp thickness of 4 to 6 mm.

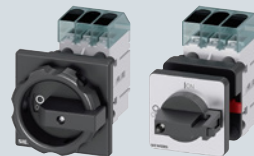
#### Basic switches without knob-operated mechanism



For the basic switch variant without knob-operated mechanism, the appropriate door-coupling rotary operating mechanism can be ordered separately.

# 3LD switch disconnectors

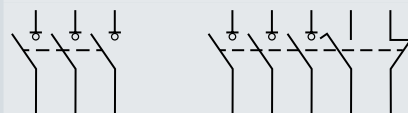
3LD3 main control and EMERGENCY-STOP switches, front mounting, 6 kA<sub>rms</sub>



Operating mechanisms, black

Number of poles

3P



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC
<b>Rotary operating mechanisms</b>				
16 A	7.5 kW	5.5 kW	3LD3054-OTK51	3LD3054-1TK51
25 A	9 kW	7.5 kW	3LD3154-OTK51	3LD3154-1TK51
32 A	11.5 kW	9.5 kW	3LD3254-OTK51	3LD3254-1TK51
40 A	18.5 kW	11.5 kW	3LD3354-OTK51	3LD3354-1TK51
63 A	22 kW	18.5 kW	3LD3454-OTK51	3LD3454-1TK51
<b>Knob-operated mechanisms</b>				
16 A	7.5 kW	5.5 kW	3LD3050-OTK11	3LD3050-1TK11
25 A	9 kW	7.5 kW	3LD3150-OTK11	3LD3150-1TK11
32 A	11.5 kW	9.5 kW	3LD3250-OTK11	3LD3250-1TK11
40 A	18.5 kW	11.5 kW	3LD3350-OTK11	3LD3350-1TK11
63 A	22 kW	18.5 kW	3LD3450-OTK11	3LD3450-1TK11

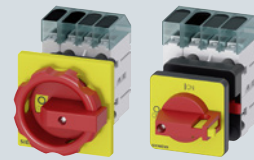
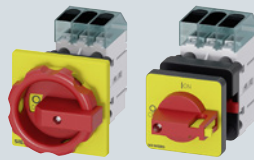
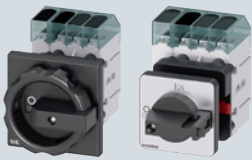
## Scope of supply:

- Including terminal covers for the infeed side

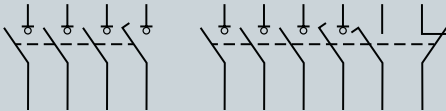
## Accessories

3LD30 (16 A) 3LD31 (25 A) 3LD32 (32 A) 3LD33 (40 A) 3LD34 (63 A)

<b>Additional poles</b>				
	<b>Variant</b>	<b>Contacts</b>	<b>Article No.</b>	
	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0B	■ ■ ■ ■ ■
	N terminal	Through-type	3LD9340-2B	■ ■ ■ ■ ■
	PE terminal	Through-type	3LD9340-3B	■ ■ ■ ■ ■
<b>Auxiliary switches</b>				
		<b>Contacts</b>	<b>Article No.</b>	
		1 NO + 1 NC	3LD9340-6B	■ ■ ■ ■ ■
<b>Rotary operating mechanisms</b>				
		<b>Color</b>	<b>Article No.</b>	
		Black	3LD9344-4C	■ ■ ■ ■ ■
		Red/yellow	3LD9344-5C	■ ■ ■ ■ ■
<b>Knob-operated mechanisms</b>				
		<b>Color</b>	<b>Article No.</b>	
		Black	3LD9343-6C	■ ■ ■ ■ ■
		Red/yellow	3LD9343-7C	■ ■ ■ ■ ■



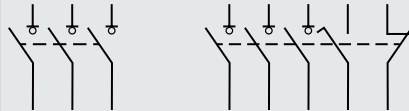
3P+N

Without  
auxiliary switch

1 NO + 1 NC

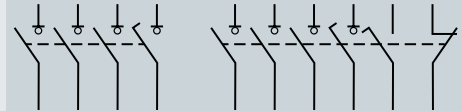
Operating mechanisms, red/yellow

3P

Without  
auxiliary switch

1 NO + 1 NC

3P+N

Without  
auxiliary switch

1 NO + 1 NC

3LD3054-OTL51

3LD3054-1TL51

3LD3054-OTK53

3LD3054-1TK53

3LD3054-OTL53

3LD3054-1TL53

3LD3154-OTL51

3LD3154-1TL51

3LD3154-OTK53

3LD3154-1TK53

3LD3154-OTL53

3LD3154-1TL53

3LD3254-OTL51

3LD3254-1TL51

3LD3254-OTK53

3LD3254-1TK53

3LD3254-OTL53

3LD3254-1TL53

3LD3354-OTL51

3LD3354-1TL51

3LD3354-OTK53

3LD3354-1TK53

3LD3354-OTL53

3LD3354-1TL53

3LD3454-OTL51

3LD3454-1TL51

3LD3454-OTK53

3LD3454-1TK53

3LD3454-OTL53

3LD3454-1TL53

3LD3050-OTL11

3LD3050-1TL11

3LD3050-OTK13

3LD3050-1TK13

3LD3050-OTL13

3LD3050-1TL13

3LD3150-OTL11

3LD3150-1TL11

3LD3150-OTK13

3LD3150-1TK13

3LD3150-OTL13

3LD3150-1TL13

3LD3250-OTL11

3LD3250-1TL11

3LD3250-OTK13

3LD3250-1TK13

3LD3250-OTL13

3LD3250-1TL13

3LD3350-OTL11

3LD3350-1TL11

3LD3350-OTK13

3LD3350-1TK13

3LD3350-OTL13

3LD3350-1TL13

3LD3450-OTL11

3LD3450-1TL11

3LD3450-OTK13

3LD3450-1TK13

3LD3450-OTL13

3LD3450-1TL13

8

3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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## Terminal covers

- Pack of 4 units

## Version

## Article No.

For N switching contacts, N terminals or PE terminals

3LD9341-2A

■	■	■	■	■
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For 3-pole 3LD3 switch disconnectors

3LD9341-0A

■	■	■	■	■
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## Inscription labels

- Pack of 10 units

## Inscription

## Article No.

German / English (Hauptschalter / Main Switch)

3LD9346-1A

■	■	■	■	■
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French / Spanish (Interrupteur Principal / Interruptor Principal)

3LD9346-2A

■	■	■	■	■
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Without inscription

3LD9346-3A

■	■	■	■	■
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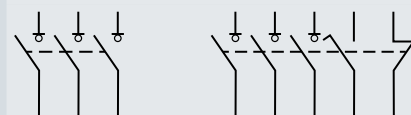


# 3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, floor mounting, 6 kA<sub>rms</sub>



Operating mechanisms, black  
Number of poles 3P



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC
<b>Rotary operating mechanisms</b>				
16 A	7.5 kW	5.5 kW	3LD3048-OTK51	3LD3048-1TK51
25 A	9 kW	7.5 kW	3LD3148-OTK51	3LD3148-1TK51
32 A	11.5 kW	9.5 kW	3LD3248-OTK51	3LD3248-1TK51
40 A	18.5 kW	11.5 kW	3LD3348-OTK51	3LD3348-1TK51
63 A	22 kW	18.5 kW	3LD3448-OTK51	3LD3448-1TK51
<b>Knob-operated mechanisms</b>				
16 A	7.5 kW	5.5 kW	3LD3040-OTK11	3LD3040-1TK11
25 A	9 kW	7.5 kW	3LD3140-OTK11	3LD3140-1TK11
32 A	11.5 kW	9.5 kW	3LD3240-OTK11	3LD3240-1TK11
40 A	18.5 kW	11.5 kW	3LD3340-OTK11	3LD3340-1TK11
63 A	22 kW	18.5 kW	3LD3440-OTK11	3LD3440-1TK11

## Scope of supply:

- Including terminal covers for the infeed side

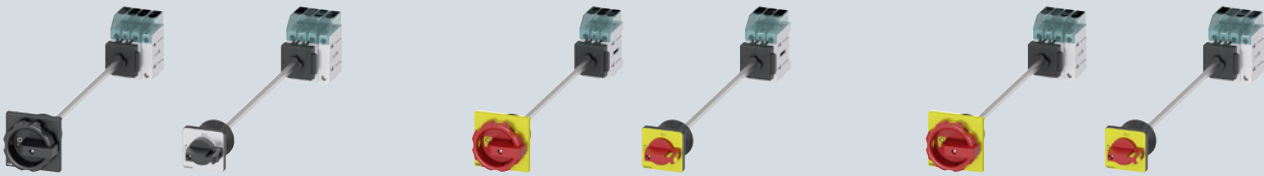
## Mounting:

- Using screws or snap-on mounting on 35 mm mounting rails

## Accessories

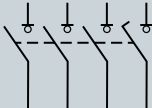
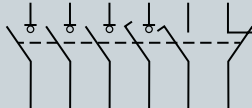
3LD30 (16 A) 3LD31 (25 A) 3LD32 (32 A) 3LD33 (40 A) 3LD34 (63 A)

Additional poles				
	Variant	Contacts	Article No.	
	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	■ ■ ■ ■ ■
	N terminal	Through-type	3LD9340-2C	■ ■ ■ ■ ■
	PE terminal	Through-type	3LD9340-3C	■ ■ ■ ■ ■
Auxiliary switches				
	Contacts	Article No.		
	1 NO + 1 NC	3LD9340-6C	■ ■ ■ ■ ■	
Rotary operating mechanisms				
	Version	Color	Article No.	
	Incl. funnel	Black	3LD9344-2C	■ ■ ■ ■ ■
		Red/yellow	3LD9344-3C	■ ■ ■ ■ ■
Knob-operated mechanisms				
	Version	Color	Article No.	
	Incl. funnel	Black	3LD9343-4C	■ ■ ■ ■ ■
		Red/yellow	3LD9343-5C	■ ■ ■ ■ ■



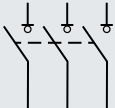
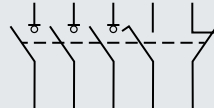
## Operating mechanisms, red/yellow

3P+N

Without  
auxiliary switch

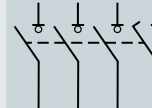
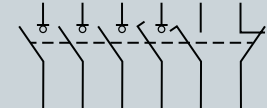
1 NO + 1 NC

3P

Without  
auxiliary switch

1 NO + 1 NC

3P+N

Without  
auxiliary switch

1 NO + 1 NC

3LD3048-OTL51	3LD3048-1TL51	3LD3048-OTK53	3LD3048-1TK53	3LD3048-OTL53	3LD3048-1TL53
3LD3148-OTL51	3LD3148-1TL51	3LD3148-OTK53	3LD3148-1TK53	3LD3148-OTL53	3LD3148-1TL53
3LD3248-OTL51	3LD3248-1TL51	3LD3248-OTK53	3LD3248-1TK53	3LD3248-OTL53	3LD3248-1TL53
3LD3348-OTL51	3LD3348-1TL51	3LD3348-OTK53	3LD3348-1TK53	3LD3348-OTL53	3LD3348-1TL53
3LD3448-OTL51	3LD3448-1TL51	3LD3448-OTK53	3LD3448-1TK53	3LD3448-OTL53	3LD3448-1TL53

3LD3040-OTL11	3LD3040-1TL11	3LD3040-OTK13	3LD3040-1TK13	3LD3040-OTL13	3LD3040-1TL13
3LD3140-OTL11	3LD3140-1TL11	3LD3140-OTK13	3LD3140-1TK13	3LD3140-OTL13	3LD3140-1TL13
3LD3240-OTL11	3LD3240-1TL11	3LD3240-OTK13	3LD3240-1TK13	3LD3240-OTL13	3LD3240-1TL13
3LD3340-OTL11	3LD3340-1TL11	3LD3340-OTK13	3LD3340-1TK13	3LD3340-OTL13	3LD3340-1TL13
3LD3440-OTL11	3LD3440-1TL11	3LD3440-OTK13	3LD3440-1TK13	3LD3440-OTL13	3LD3440-1TL13

8

3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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## Door-coupling rotary operating mechanisms



Variant	Color	Article No.
Rotary operating mechanisms 66 × 66 mm	Black	3LD9344-2CA
	Red/yellow	3LD9344-3CA



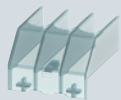
Knob-operated mechanisms 48 × 48 mm	Black	3LD9343-4CA
	Red/yellow	3LD9343-5CA

## Terminal covers

- Pack of 4 units



Version	Article No.
For N switching contacts, N terminals or PE terminals	3LD9341-2A



For 3LD3 3-pole switch disconnectors	3LD9341-0A
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## Inscription labels

- Pack of 10 units



Inscription	Article No.
German / English (Hauptschalter / Main Switch)	3LD9346-1A
French / Spanish (Interrupteur Principal / Interruptor Principal)	3LD9346-2A
Without inscription	3LD9346-3A

# 3LD switch disconnectors

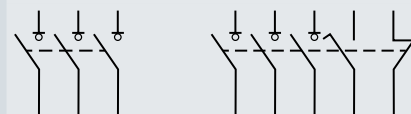
3LD3 main control and EMERGENCY-STOP switches,  
installation in distribution boards and basic switches  
without direct operating mechanism, 6kA<sub>rms</sub>



Operating mechanisms, black

Number of poles

3P



Uninterrupted current I <sub>n</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC
<b>Basic switch with masking plate and selector knob, standard rail mounting</b>				
16 A	7.5 kW	5.5 kW	3LD3030-0TK11	3LD3030-1TK11
25 A	9 kW	7.5 kW	3LD3130-0TK11	3LD3130-1TK11
32 A	11.5 kW	9.5 kW	3LD3230-0TK11	3LD3230-1TK11
40 A	18.5 kW	11.5 kW	3LD3330-0TK11	3LD3330-1TK11
63 A	22 kW	18.5 kW	3LD3430-0TK11	3LD3430-1TK11
<b>Basic switches without knob-operated mechanism</b>				
16 A	7.5 kW	5.5 kW	3LD3010-0TK05	3LD3010-1TK05
25 A	9 kW	7.5 kW	3LD3110-0TK05	3LD3110-1TK05
32 A	11.5 kW	9.5 kW	3LD3210-0TK05	3LD3210-1TK05
40 A	18.5 kW	11.5 kW	3LD3310-0TK05	3LD3310-1TK05
63 A	22 kW	18.5 kW	3LD3410-0TK05	3LD3410-1TK05

## Scope of supply:

- Basic switches without direct operating mechanism, incl. terminal covers for the infeed side

## Mounting:

- Using screws or snap-on mounting on 35 mm mounting rails

## Accessories for switches for installation in distribution boards and basic switches without knob-operated mechanism

			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
<b>Additional poles</b>							
	<b>Variant</b>	<b>Contacts</b>	<b>Article No.</b>				
	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	■	■	■	■
	N terminal	Through-type	3LD9340-2C	■	■	■	■
	PE terminal	Through-type	3LD9340-3C	■	■	■	■
<b>Auxiliary switches</b>							
		<b>Contacts</b>	<b>Article No.</b>				
		1 NO + 1 NC	3LD9340-6C	■	■	■	■
<b>Terminal covers</b>							
	• Pack of 4 units						
	<b>Version</b>		<b>Article No.</b>				
	For N switching contacts, N terminals or PE terminals		3LD9341-2A	■	■	■	■
	For 3LD3 3-pole switch disconnectors		3LD9341-0A	■	■	■	■





Operating mechanisms, red/yellow					
3P+N		3P		3P+N	
Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD3030-OTL11	3LD3030-1TL11	3LD3030-OTK13	3LD3030-1TK13	3LD3030-OTL13	3LD3030-1TL13
3LD3130-OTL11	3LD3130-1TL11	3LD3130-OTK13	3LD3130-1TK13	3LD3130-OTL13	3LD3130-1TL13
3LD3230-OTL11	3LD3230-1TL11	3LD3230-OTK13	3LD3230-1TK13	3LD3230-OTL13	3LD3230-1TL13
3LD3330-OTL11	3LD3330-1TL11	3LD3330-OTK13	3LD3330-1TK13	3LD3330-OTL13	3LD3330-1TL13
3LD3430-OTL11	3LD3430-1TL11	3LD3430-OTK13	3LD3430-1TK13	3LD3430-OTL13	3LD3430-1TL13
3LD3010-OTL05	3LD3010-1TL05	–	–	–	–
3LD3110-OTL05	3LD3110-1TL05	–	–	–	–
3LD3210-OTL05	3LD3210-1TL05	–	–	–	–
3LD3310-OTL05	3LD3310-1TL05	–	–	–	–
3LD3410-OTL05	3LD3410-1TL05	–	–	–	–

## Accessories for basic switches without operating mechanism

3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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### Rotary operating mechanisms



Version	Color	Article No.					
Incl. funnel	Black	3LD9344-2C	■	■	■	■	■
	Red/yellow	3LD9344-3C	■	■	■	■	■

### Knob-operated mechanisms



Version	Color	Article No.					
Incl. funnel	Black	3LD9343-4C	■	■	■	■	■
	Red/yellow	3LD9343-5C	■	■	■	■	■

### Door-coupling rotary operating mechanisms



Variant	Color	Article No.					
Rotary operating mechanisms 66 × 66 mm	Black	3LD9344-2CA	■	■	■	■	■
	Red/yellow	3LD9344-3CA	■	■	■	■	■



Knob-operated mechanisms 48 × 48 mm	Black	Article No.					
	Red/yellow						
	Black	3LD9343-4CA	■	■	■	■	■
	Red/yellow	3LD9343-5CA	■	■	■	■	■








### Inscription labels



• Pack of 10 units							
Inscription	Article No.						
German / English (Hauptschalter / Main Switch)	3LD9346-1A	■	■	■	■	■	■
French / Spanish (Interrupteur Principal / Interruptor Principal)	3LD9346-2A	■	■	■	■	■	■
Without inscription	3LD9346-3A	■	■	■	■	■	■

# 3LD switch disconnectors

## 3LD3 main control and EMERGENCY-STOP switches, accessories

				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
<b>Switching contacts for N conductor (4th contact)</b>								
	<b>Version</b>	<b>Contacts</b>	<b>Article No.</b>					
	For front mounting	Leading switch-on, lagging switch-off	3LD9340-0B	■	■	■	■	■
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Leading switch-on, lagging switch-off	3LD9340-0C	■	■	■	■	■
<b>N terminals</b>								
	<b>Version</b>	<b>Contacts</b>	<b>Article No.</b>					
	For front mounting	Through-type	3LD9340-2B	■	■	■	■	■
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Through-type	3LD9340-2C	■	■	■	■	■
<b>PE terminals</b>								
	<b>Version</b>	<b>Contacts</b>	<b>Article No.</b>					
	For front mounting	Through-type	3LD9340-3B	■	■	■	■	■
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Through-type	3LD9340-3C	■	■	■	■	■
<b>Auxiliary switches</b>								
	<b>Version</b>	<b>Contacts</b>	<b>Article No.</b>					
	For front mounting	1 NO + 1 NC	3LD9340-6B	■	■	■	■	■
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	1 NO + 1 NC	3LD9340-6C	■	■	■	■	■

					3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
<b>Rotary operating mechanisms</b>									
	<b>Version</b>		<b>Color</b>	<b>Article No.</b>					
	For front mounting, without funnel		Black	3LD9344-4C	■	■	■	■	■
			Red/yellow	3LD9344-5C	■	■	■	■	■
	For floor mounting and basic switches without knob-operated mechanism, with funnel		Black	3LD9344-2C	■	■	■	■	■
			Red/yellow	3LD9344-3C	■	■	■	■	■
<b>Knob-operated mechanisms</b>									
	<b>Version</b>		<b>Color</b>	<b>Article No.</b>					
	For front mounting, without funnel		Black	3LD9343-6C	■	■	■	■	■
			Red/yellow	3LD9343-7C	■	■	■	■	■
	For floor mounting and basic switches without knob-operated mechanism, with funnel		Black	3LD9343-4C	■	■	■	■	■
			Red/yellow	3LD9343-5C	■	■	■	■	■
<b>Door-coupling rotary operating mechanisms</b>									
	<b>Version</b>	<b>Variant</b>	<b>Color</b>	<b>Article No.</b>					
	For floor mounting and basic switches without knob-operated mechanism	Rotary operating mechanisms 66 × 66 mm	Black	3LD9344-2CA	■	■	■	■	■
			Red/yellow	3LD9344-3CA	■	■	■	■	■
		Knob-operated mechanisms 48 × 48 mm	Black	3LD9343-4CA	■	■	■	■	■
			Red/yellow	3LD9343-5CA	■	■	■	■	■
<b>Terminal covers</b>									
	<ul style="list-style-type: none"> <li>For front mounting, floor mounting, installation in distribution boards and basic switches without knob-operated mechanism</li> <li>Pack of 4 units</li> </ul>								
	<b>Number of poles</b>			<b>Article No.</b>					
	1-pole			3LD9341-2A	■	■	■	■	■
	3-pole			3LD9341-0A	■	■	■	■	■
<b>Inscription labels</b>									
	<ul style="list-style-type: none"> <li>Pack of 10 units</li> <li>Not for installation in distribution boards</li> </ul>								
	<b>Inscription</b>			<b>Article No.</b>					
	German / English (Hauptschalter / Main Switch)			3LD9346-1A	■	■	■	■	■
	French / Spanish (Interrupteur Principal / Interruptor Principal)			3LD9346-2A	■	■	■	■	■
	Without inscription			3LD9346-3A	■	■	■	■	■

# 3LD switch disconnectors

## System overview of 3LD2 switch disconnectors

### Basic units for front mounting



3P rotary operating mechanisms



3P knob-operated mechanisms (3LD23/3LD24)



3P knob-operated mechanisms



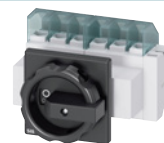
3P+N rotary operating mechanisms



3P+N knob-operated mechanisms (3LD23/3LD24)



3P+N knob-operated mechanisms



6P rotary operating mechanisms

### Basic units for floor mounting



3P rotary operating mechanisms



3P knob-operated mechanisms (3LD23/3LD24)



3P knob-operated mechanisms, defeatable



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms (3LD23/3LD24)



3P+N knob-operated mechanisms, defeatable



6P rotary operating mechanisms

### Basic units for installation in distribution boards/enclosures, DC



3P knob-operated mechanisms



3P+N knob-operated mechanisms



8P DC isolators

### Additional poles and auxiliary switches



N switching contacts



N/PE terminals (through-type)



Auxiliary switches (standard version)



Auxiliary switch for mounting on the front **new**

### Operating mechanisms



Rotary operating mechanisms for 4-hole and center-hole mounting



Knob-operated mechanisms (3LD23/3LD24)



Switching shafts



Coupling pieces without ON-lock



Assembly tools for center-hole mounting

### Other accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole



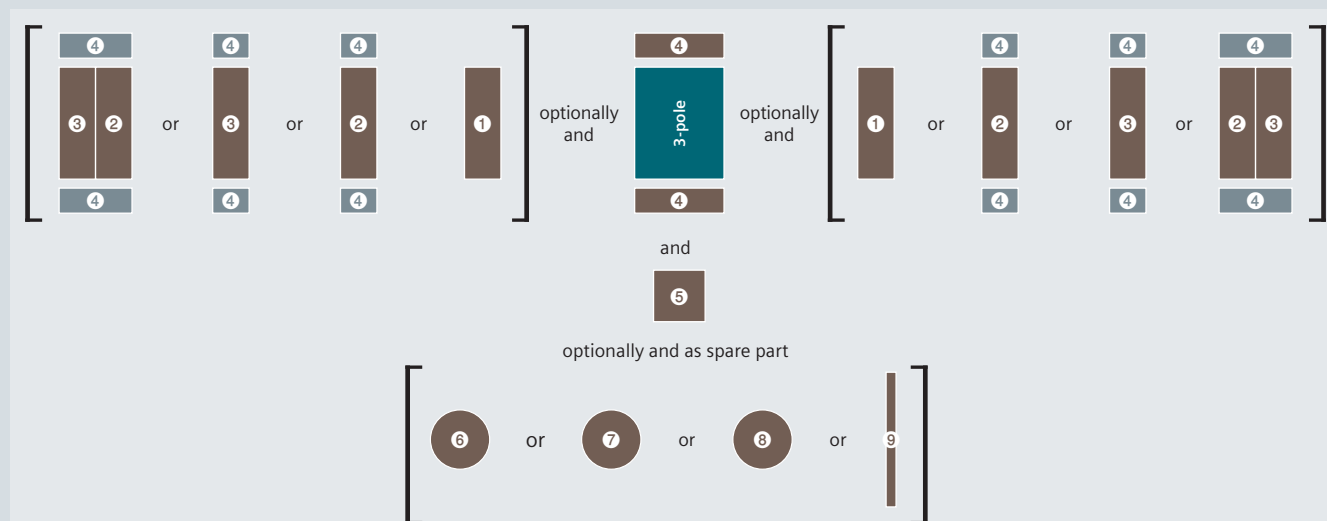
Inscription labels (with and without inscription)

#### Note:

You will find a detailed range of accessories with the basic units.



## Mounting concept and accessories



### Legend

- ① Auxiliary switch
  - ② N switching contact <sup>1)</sup>
  - ③ N/PE terminal
  - ④ Terminal cover
  - ⑤ Auxiliary switch for mounting on the front <sup>2)</sup>
  - ⑥ Rotary operating mechanism, center-hole mounting
  - ⑦ Rotary operating mechanism, four-hole mounting
  - ⑧ Knob-operated mechanism, four-hole mounting
  - ⑨ Switching shaft (300 or 600)
- <sup>1)</sup> The N switching contact ② first has to be mounted on the basic unit  
<sup>2)</sup> Can only be used with four-hole front mounting and floor mounting



## Mounting types

### Front mounting



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. In addition to the 4-hole fastening of the handle, up to 63 A (3LD25) fastening with the 22.5 mm diameter center hole can also be chosen.

### Floor mounting



The switches for floor mounting up to 125 A (3LD28) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 160 and 250 A (3LD23/3LD24) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

### Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. Up to 125 A (3LD28), they have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers.

### DC isolators



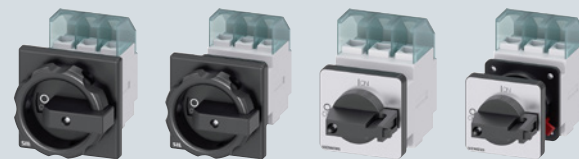
The DC isolators in the enclosure are suitable for disconnecting loads of up to 800 V DC due to their 8-pole design. To provide additional safety, the isolators can be locked in the 0 position.



You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)

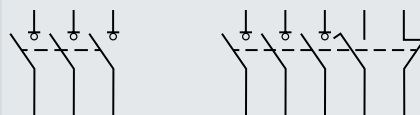
# 3LD switch disconnectors

3LD2 main control switches, front mounting, 25 ... 50 kA<sub>eff</sub>



Operating mechanisms, black

Number of poles 3P

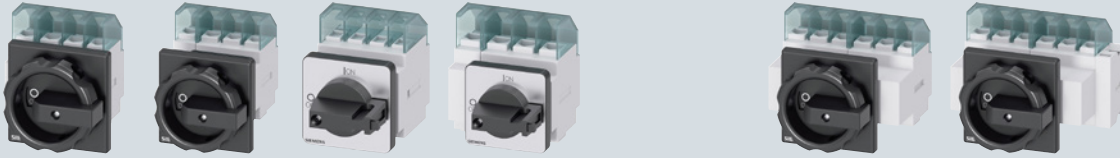
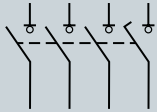
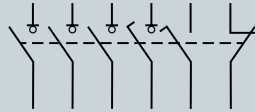
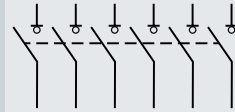
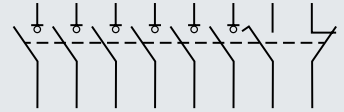


Uninterrupted current I <sub>N</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
<b>Rotary operating mechanism, four-hole mounting</b>				
16 A	7.5 kW	5.5 kW	3LD2003-OTK51	3LD2003-1TP51
25 A	9.5 kW	7.5 kW	3LD2103-OTK51	3LD2103-1TP51
32 A	11.5 kW	9.5 kW	3LD2203-OTK51	3LD2203-1TP51
63 A	22 kW	18.5 kW	3LD2504-OTK51	3LD2504-1TP51
100 A	37 kW	30 kW	3LD2704-OTK51	3LD2704-1TP51
125 A	45 kW	37 kW	3LD2804-OTK51	3LD2804-1TP51
160 A	75 kW	50 kW	3LD2305-OTK11	3LD2305-OTK11 + 3LD9200-5B
250 A	132 kW	110 kW	3LD2405-OTK11	3LD2405-OTK11 + 3LD9200-5B
<b>Rotary operating mechanism, center-hole mounting Ø 22.5 mm</b>				
16 A	7.5 kW	5.5 kW	3LD2054-OTK51	3LD2054-1TP51
25 A	9.5 kW	7.5 kW	3LD2154-OTK51	3LD2154-1TP51
32 A	11.5 kW	9.5 kW	3LD2254-OTK51	3LD2254-OTK51 + 3LD9200-5B
63 A	22 kW	18.5 kW	3LD2555-OTK51	3LD2555-OTK51 + 3LD9200-5B
<b>Knob-operated mechanism, four-hole mounting</b>				
16 A	7.5 kW	5.5 kW	3LD2022-OTK11	3LD2022-OTK11 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2122-OTK11	3LD2122-OTK11 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2222-OTK11	3LD2222-OTK11 + 3LD9200-5B
<b>Knob-operated mechanism, center-hole mounting Ø 22.5 mm</b>				
16 A	7.5 kW	5.5 kW	3LD2050-OTK11	3LD2050-OTK11 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2150-OTK11	3LD2150-OTK11 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2250-OTK11	3LD2250-OTK11 + 3LD9200-5B

## Scope of supply:

- Including terminal covers for the infeed side

Accessories, see page 8/26

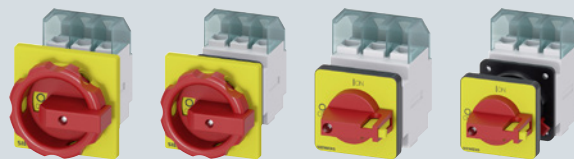
**3P+N**Without  
auxiliary switch1 NO + 1 NC  
(standard version)**6P**Without  
auxiliary switch1 NO + 1 NC  
(standard version)

3LD2003-1TL51	3LD2003-2EP51	
3LD2103-1TL51	3LD2103-2EP51	
3LD2203-1TL51	3LD2203-1TL51	+ 3LD9200-5B
3LD2504-1TL51	3LD2504-1TP51	+ 3LD9250-0BA
3LD2704-0TK51 + 3LD9280-0B	3LD2704-0TK51 + 3LD9280-0B	+ 3LD9200-5B
3LD2804-0TK51 + 3LD9280-0B	3LD2804-0TK51 + 3LD9280-0B	+ 3LD9200-5B
3LD2305-1TL11	3LD2305-1TL11	+ 3LD9200-5B
3LD2405-1TL11	3LD2405-1TL11	+ 3LD9200-5B
3LD2054-1TL51	3LD2054-2EP51	
3LD2154-1TL51	3LD2154-2EP51	
3LD2254-1TL51	3LD2254-1TL51	+ 3LD9200-5B
3LD2555-0TK51 + 3LD9250-0BA	3LD2555-0TK51 + 3LD9250-0BA	+ 3LD9200-5B
3LD2022-1TL11	3LD2022-1TL11	+ 3LD9200-5B
3LD2122-1TL11	3LD2122-1TL11	+ 3LD9200-5B
3LD2222-0TK11 + 3LD9220-0B	3LD2222-0TK11 + 3LD9220-0B	+ 3LD9200-5B
3LD2050-1TL11	3LD2050-1TL11	+ 3LD9200-5B
3LD2150-0TK11 + 3LD9220-0B	3LD2150-0TK11 + 3LD9220-0B	+ 3LD9200-5B
3LD2250-0TK11 + 3LD9220-0B	3LD2250-0TK11 + 3LD9220-0B	+ 3LD9200-5B

–	–
3LD2103-3VK51	3LD2103-4VP51
3LD2203-3VK51	3LD2203-3VK51 + 3LD9200-5B
3LD2504-3VK51	3LD2504-3VK51 + 3LD9200-5B
–	–
–	–
3LD2305-3VK11	3LD2305-3VK11 + 3LD9200-5B
3LD2405-3VK11	3LD2405-3VK11 + 3LD9200-5B

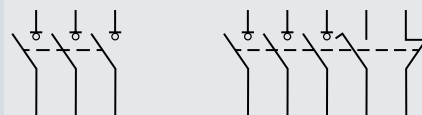
# 3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, front mounting, 25 ... 50 kA<sub>eff</sub>



Operating mechanisms, red/yellow

Number of poles 3P



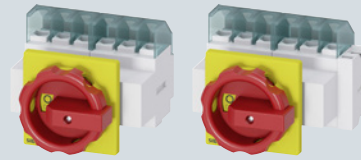
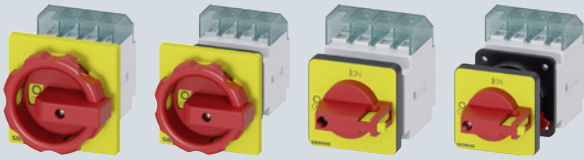
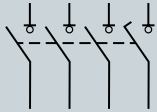
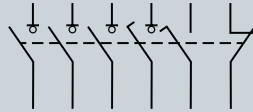
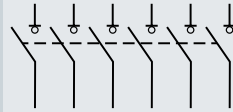
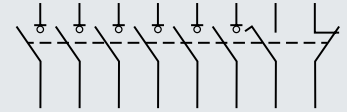
Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
<b>Rotary operating mechanism, four-hole mounting</b>				
16 A	7.5 kW	5.5 kW	3LD2003-OTK53	3LD2003-1TP53
25 A	9.5 kW	7.5 kW	3LD2103-OTK53	3LD2103-1TP53
32 A	11.5 kW	9.5 kW	3LD2203-OTK53	3LD2203-1TP53
63 A	22 kW	18.5 kW	3LD2504-OTK53	3LD2504-1TP53
100 A	37 kW	30 kW	3LD2704-OTK53	3LD2704-1TP53
125 A	45 kW	37 kW	3LD2804-OTK53	3LD2804-1TP53
160 A	75 kW	50 kW	3LD2305-OTK13	3LD2305-OTK13 + 3LD9200-5B
250 A	132 kW	110 kW	3LD2405-OTK13	3LD2405-OTK13 + 3LD9200-5B
<b>Rotary operating mechanism, center-hole mounting Ø 22.5 mm</b>				
16 A	7.5 kW	5.5 kW	3LD2054-OTK53	3LD2054-1TP53
25 A	9.5 kW	7.5 kW	3LD2154-OTK53	3LD2154-1TP53
32 A	11.5 kW	9.5 kW	3LD2254-OTK53	3LD2254-OTK53 + 3LD9200-5B
63 A	22 kW	18.5 kW	3LD2555-OTK53	3LD2555-OTK53 + 3LD9200-5B
<b>Knob-operated mechanism, four-hole mounting</b>				
16 A	7.5 kW	5.5 kW	3LD2022-OTK13	3LD2022-OTK13 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2122-OTK13	3LD2122-OTK13 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2222-OTK13	3LD2222-OTK13 + 3LD9200-5B
<b>Knob-operated mechanism, center-hole mounting Ø 22.5 mm</b>				
16 A	7.5 kW	5.5 kW	3LD2050-OTK13	3LD2050-OTK13 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2150-OTK13	3LD2150-OTK13 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2250-OTK13	3LD2250-OTK13 + 3LD9200-5B

## Scope of supply:

- Including terminal covers for the infeed side

Accessories, see page 8/26






**3+N**Without  
auxiliary switch1 NO + 1 NC  
(standard version)**6P**Without  
auxiliary switch1 NO + 1 NC  
(standard version)

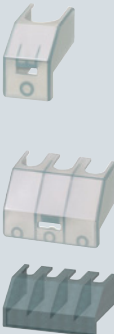


3LD2003-1TL53	3LD2003-2EP53	
3LD2103-1TL53	3LD2103-2EP53	
3LD2203-1TL53	3LD2203-1TL53	+ 3LD9200-5B
3LD2504-1TL53	3LD2504-1TP53	+ 3LD9250-0BA
3LD2704-0TK53 + 3LD9280-0B	3LD2704-0TK53 + 3LD9280-0B	+ 3LD9200-5B
3LD2804-0TK53 + 3LD9280-0B	3LD2804-0TK53 + 3LD9280-0B	+ 3LD9200-5B
3LD2305-1TL13	3LD2305-1TL13	+ 3LD9200-5B
3LD2405-1TL13	3LD2405-1TL13	+ 3LD9200-5B
3LD2054-1TL53	3LD2054-2EP53	
3LD2154-1TL53	3LD2154-2EP53	
3LD2254-1TL53	3LD2254-1TL53	+ 3LD9200-5B
3LD2555-0TK53 + 3LD9250-0BA	3LD2555-0TK53 + 3LD9250-0BA	+ 3LD9200-5B
3LD2022-1TL13	3LD2022-1TL13	+ 3LD9200-5B
3LD2122-1TL13	3LD2122-1TL13	+ 3LD9200-5B
3LD2222-0TK13 + 3LD9220-0B	3LD2222-0TK13 + 3LD9220-0B	+ 3LD9200-5B
3LD2050-1TL13	3LD2050-1TL13	+ 3LD9200-5B
3LD2150-0TK13 + 3LD9220-0B	3LD2150-0TK13 + 3LD9220-0B	+ 3LD9200-5B
3LD2250-0TK13 + 3LD9220-0B	3LD2250-0TK13 + 3LD9220-0B	+ 3LD9200-5B

–	–
3LD2103-3VK53	3LD2103-4VP53
3LD2203-3VK53	3LD2203-3VK53 + 3LD9200-5B
3LD2504-3VK53	3LD2504-3VK53 + 3LD9200-5B
–	–
–	–
3LD2305-3VK13	3LD2305-3VK13 + 3LD9200-5B
3LD2405-3VK13	3LD2405-3VK13 + 3LD9200-5B

# 3LD switch disconnectors

## Accessories for front mounting

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)	
Switching contacts for N conductor (4th contact)											
	Contacts	Article No.									
	Leading switch-on, lagging switch-off	3LD9220-0B		■	■						
		3LD9250-0BA				■					
		3LD9280-0B					■	■			
		3LD9240-0B							■	■	
N/PE terminals											
	Contacts	Article No.									
	Through-type	3LD9200-2B	■								
		3LD9220-2B		■	■						
		3LD9250-2BA				■					
		3LD9280-2B					■	■			
		3LD9240-2B							■	■	
Auxiliary switches (standard version)											
	<ul style="list-style-type: none"><li>For mounting on the left and/or right</li><li>Lagging switch-on, leading switch-off</li></ul>										
	Contacts	Contact surface	Article No.								
	1 NO + 1 NC	Standard	3LD9200-5B	■	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5BF	■	■	■	■	■	■	■	■
	Auxiliary switch for mounting on the front										
	<ul style="list-style-type: none"><li>Mounted on the switch shaft</li><li>For four-hole front mounting and floor mounting only</li><li>For long leading times (20 ... 150 ms)</li></ul>										
	Contacts	Contact surface	Article No.								
	1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■	■	■	■	■		
			3LD9240-5D <b>new</b>							■	■
		Gold-plated	3LD9280-5DF <b>new</b>	■	■	■	■	■	■		
			3LD9240-5DF <b>new</b>							■	■
Rotary operating mechanisms											
	<ul style="list-style-type: none"><li>Lockable in 0 position with up to 3 padlocks</li></ul>										
	Version	Mounting	Article No.								
	For main control switches	Center-hole mounting	3LD9224-1D	■	■	■					
			3LD9284-1D				■				
		Four-hole mounting	3LD9224-1B	■	■	■					
			3LD9284-1B				■	■	■		
	For EMERGENCY-STOP switches	Center-hole mounting	3LD9224-3D	■	■	■					
			3LD9284-3D				■				
		Four-hole mounting	3LD9224-3B	■	■	■					
			3LD9284-3B				■	■	■		
Knob-operated mechanisms											
	<ul style="list-style-type: none"><li>Lockable in 0 position with up to 3 padlocks</li></ul>										
	Version	Mounting	Article No.								
	For main control switches	Four-hole mounting	3LD9243-1B							■	■
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							■	■

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)	
Terminal covers											
	• Pack of 4 units										
	Number of poles	Article No.									
	1-pole	3LD9201-2A	■								
		3LD9221-2A		■	■						
		3LD9251-2A				■					
		3LD9281-2A					■	■			
		3LD9241-2A							■	■	
	3-pole	3LD9221-0A		■	■						
		3LD9251-0A				■					
	4-pole	3LD9201-1A	■								
Inscription labels											
	• Pack of 10 units										
	Inscription	Article No.									
	German / English (Hauptschalter / Main Switch)	3LD9286-1A	■	■	■	■	■	■			
	Without inscription	3LD9286-4A	■	■	■	■	■	■			
Assembly tools											
	• For center-hole mounting with nut										
	• Pack of 5 units										
	Version	Article No.									
	For main control switches and EMERGENCY-STOP switches	3LD9256-0A	■	■	■	■					

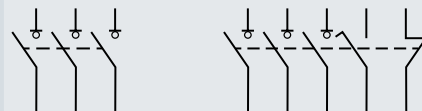
# 3LD switch disconnectors

3LD2 main control switches, floor mounting, 25 ... 50 kA<sub>eff</sub>



Operating mechanisms, black

Number of poles 3P



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
<b>Door-coupling rotary operating mechanism, four-hole mounting</b>				
16 A	7.5 kW	5.5 kW	3LD2013-OTK51	3LD2013-OTK51 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2113-OTK51	3LD2113-OTK51 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2213-OTK51	3LD2213-OTK51 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2514-OTK51	3LD2514-OTK51 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2714-OTK51	3LD2714-OTK51 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2814-OTK51	3LD2814-OTK51 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2318-OTK11	3LD2318-OTK11 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2418-OTK11	3LD2418-OTK11 + 3LD9200-5C
<b>Door-coupling rotary operating mechanism, center-hole mounting Ø 22.5 mm</b>				
16 A	7.5 kW	5.5 kW	3LD2044-OTK51	3LD2044-OTK51 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2144-OTK51	3LD2144-OTK51 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2244-OTK51	3LD2244-OTK51 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2545-OTK51	3LD2545-OTK51 + 3LD9200-5C
<b>Defeatable door-coupling knob-operated mechanism, four-hole mounting</b>				
16 A	7,5 kW	5,5 kW	3LD2017-OTK11	3LD2017-OTK11 + 3LD9200-5C
32 A	11,5 kW	9,5 kW	3LD2217-OTK11	3LD2217-OTK11 + 3LD9200-5C
63 A	22 kW	18,5 kW	3LD2517-OTK11	3LD2517-OTK11 + 3LD9200-5C

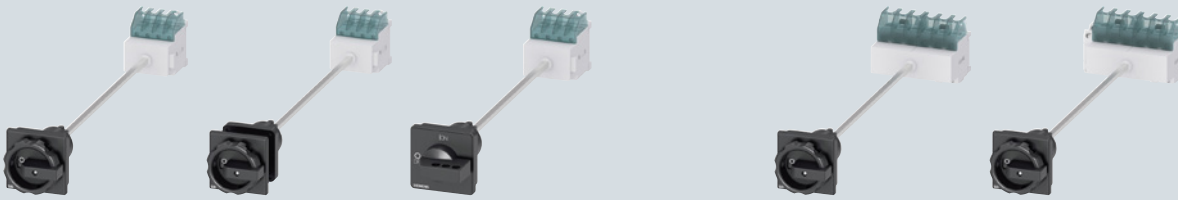
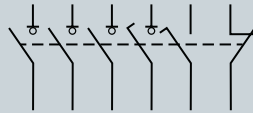
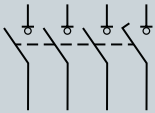
## Scope of supply:

- Including terminal covers for the infeed side
- Up to 125 A with integrated tolerance compensation

## Mounting:

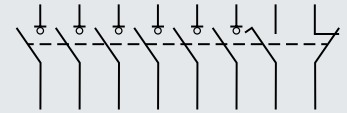
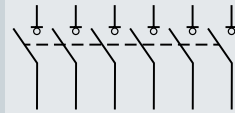
- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see page 8/32

**3P+N**

Without  
auxiliary switch

1 NO + 1 NC  
(standard version)

**6P**

Without  
auxiliary switch

1 NO + 1 NC  
(standard version)

3LD2013-1TL51	3LD2013-1TL51	+ 3LD9200-5C
3LD2113-1TL51	3LD2113-1TL51	+ 3LD9200-5C
3LD2213-1TL51	3LD2213-1TL51	+ 3LD9200-5C
3LD2514-1TL51	3LD2514-1TL51	+ 3LD9200-5C
3LD2714-0TK51 + 3LD9280-0C	3LD2714-0TK51 + 3LD9280-0C	+ 3LD9200-5C
3LD2814-0TK51 + 3LD9280-0C	3LD2814-0TK51 + 3LD9280-0C	+ 3LD9200-5C
3LD2318-1TL11	3LD2318-1TL11	+ 3LD9200-5C
3LD2418-1TL11	3LD2418-1TL11	+ 3LD9200-5C
3LD2044-1TL51	3LD2044-1TL51	+ 3LD9200-5C
3LD2144-1TL51	3LD2144-1TL51	+ 3LD9200-5C
3LD2244-1TL51	3LD2244-1TL51	+ 3LD9200-5C
3LD2545-0TK51 + 3LD9250-0CA	3LD2545-0TK51 + 3LD9250-0CA	+ 3LD9200-5C
3LD2017-1TL11	3LD2017-1TL11 + 3LD9200-5C	
3LD2217-1TL11	3LD2217-1TL11 + 3LD9200-5C	
3LD2517-1TL11	3LD2517-1TL11 + 3LD9200-5C	

–	–
3LD2113-3VK51	3LD2113-4VP51
–	–
–	–
–	–
3LD2318-3VK11	3LD2318-3VK11 + 3LD9200-5C
3LD2418-3VK11	3LD2418-3VK11 + 3LD9200-5C



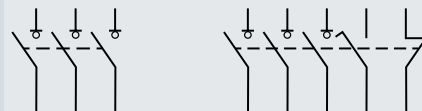
# 3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, floor mounting, 25 ... 50 kA<sub>eff</sub>



Operating mechanisms, red/yellow

Number of poles 3P



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
<b>Door-coupling rotary operating mechanism, four-hole mounting</b>				
16 A	7.5 kW	5.5 kW	3LD2013-OTK53	3LD2013-OTK53 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2113-OTK53	3LD2113-OTK53 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2213-OTK53	3LD2213-OTK53 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2514-OTK53	3LD2514-OTK53 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2714-OTK53	3LD2714-OTK53 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2814-OTK53	3LD2814-OTK53 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2318-OTK13	3LD2318-OTK13 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2418-OTK13	3LD2418-OTK13 + 3LD9200-5C
<b>Door-coupling rotary operating mechanism, center-hole mounting Ø 22.5 mm</b>				
16 A	7.5 kW	5.5 kW	3LD2044-OTK53	3LD2044-OTK53 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2144-OTK53	3LD2144-OTK53 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2244-OTK53	3LD2244-OTK53 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2545-OTK53	3LD2545-OTK53 + 3LD9200-5C
<b>Defeatable door-coupling knob-operated mechanism, four-hole mounting</b>				
16 A	7,5 kW	5,5 kW	3LD2017-OTK13	3LD2017-OTK13 + 3LD9200-5C
32 A	11,5 kW	9,5 kW	3LD2217-OTK13	3LD2217-OTK13 + 3LD9200-5C
63 A	22 kW	18,5 kW	3LD2517-OTK13	3LD2517-1TL13 + 3LD9200-5C

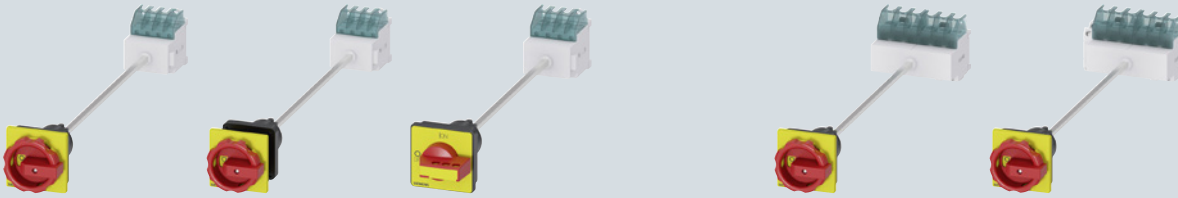
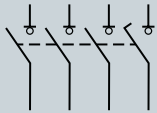
## Scope of supply:

- Including terminal covers for the infeed side
- Up to 125 A with integrated tolerance compensation

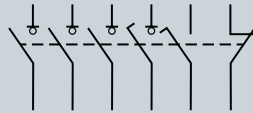
## Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

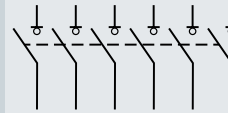
Accessories, see page 8/32

**3P+N**

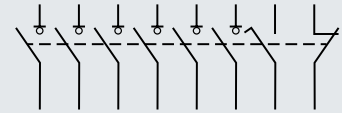
Without  
auxiliary switch



1 NO + 1 NC  
(standard version)

**6P**

Without  
auxiliary switch










1 NO + 1 NC  
(standard version)





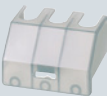
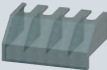

3LD2013-1TL53	3LD2013-1TL53	+ 3LD9200-5C
3LD2113-1TL53	3LD2113-1TL53	+ 3LD9200-5C
3LD2213-1TL53	3LD2213-1TL53	+ 3LD9200-5C
3LD2514-1TL53	3LD2514-1TL53	+ 3LD9200-5C
3LD2714-0TK53 + 3LD9280-0C	3LD2714-0TK53 + 3LD9280-0C	+ 3LD9200-5C
3LD2814-0TK53 + 3LD9280-0C	3LD2814-0TK53 + 3LD9280-0C	+ 3LD9200-5C
3LD2318-1TL13	3LD2318-1TL13	+ 3LD9200-5C
3LD2418-1TL13	3LD2418-1TL13	+ 3LD9200-5C
3LD2044-1TL53	3LD2044-1TL53	+ 3LD9200-5C
3LD2144-1TL53	3LD2144-1TL53	+ 3LD9200-5C
3LD2244-1TL53	3LD2244-1TL53	+ 3LD9200-5C
3LD2545-0TK53 + 3LD9250-0CA	3LD2545-0TK53 + 3LD9250-0CA	+ 3LD9200-5C
3LD2017-1TL13	3LD2017-1TL13 + 3LD9200-5C	
3LD2217-1TL13	3LD2217-0TK13 + 3LD9200-5C	
3LD2517-1TL13	3LD2517-1TL13 + 3LD9200-5C	

–	–
3LD2113-3VK53	3LD2113-4VP53
–	–
–	–
–	–
3LD2318-3VK13	3LD2318-3VK13 + 3LD9200-5C
3LD2418-3VK13	3LD2418-3VK13 + 3LD9200-5C

# 3LD switch disconnectors

## Accessories for floor mounting

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
<b>Switching contacts for N conductor (4th contact)</b>										
	<b>Contacts</b>	<b>Article No.</b>								
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■					
		3LD9250-0CA				■				
		3LD9280-0C					■	■		
		3LD9240-0C							■	■
<b>N/PE terminals</b>										
	<b>Contacts</b>	<b>Article No.</b>								
	Through-type	3LD9200-2C	■							
		3LD9220-2C		■	■					
		3LD9250-2CA				■				
		3LD9280-2C					■	■		
		3LD9240-2C							■	■
<b>Auxiliary switches (standard version)</b>										
	<ul style="list-style-type: none"> <li>For mounting on the left and/or right</li> <li>Lagging switch-on, leading switch-off</li> </ul>									
	<b>Contacts</b>	<b>Contact surface</b>	<b>Article No.</b>							
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■	■
<b>Auxiliary switch for mounting on the front</b>										
	<ul style="list-style-type: none"> <li>Mounted on the switch shaft</li> <li>For long leading times (20 ... 150 ms)</li> </ul>									
	<b>Contacts</b>	<b>Contact surface</b>	<b>Article No.</b>							
	1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■	■	■	■		
			3LD9240-5D <b>new</b>						■	■
		Gold-plated	3LD9280-5DF <b>new</b>	■	■	■	■	■		
			3LD9240-5DF <b>new</b>						■	■
<b>Rotary operating mechanisms</b>										
	<ul style="list-style-type: none"> <li>Lockable in 0 position with up to 3 padlocks</li> </ul>									
	<b>Version</b>	<b>Mounting</b>	<b>Article No.</b>							
	For main control switches	Center-hole mounting	3LD9224-1D	■	■	■				
			3LD9284-1D				■			
		Four-hole mounting	3LD9224-1B	■	■	■				
			3LD9284-1B				■	■	■	
	For EMERGENCY-STOP switches	Center-hole mounting	3LD9224-3D	■	■	■				
			3LD9284-3D				■			
		Four-hole mounting	3LD9224-3B	■	■	■				
			3LD9284-3B				■	■	■	
<b>Knob-operated mechanisms</b>										
	<ul style="list-style-type: none"> <li>Lockable in 0 position with up to 3 padlocks</li> </ul>									
	<b>Version</b>	<b>Mounting</b>	<b>Article No.</b>							
	For main control switches	Four-hole mounting	3LD9243-1B						■	■
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B						■	■
<b>8UC7.. door-coupling rotary operating mechanisms</b>										
	<ul style="list-style-type: none"> <li>To achieve defeatability from 3LD27 (100 A) to 3LD24 (250 A)</li> </ul>									
	<b>Type</b>	<b>Version</b>	<b>Article No.</b>							
	8UC71	Standard	8UC7110-1BB				■	■		
		EMERGENCY-STOP	8UC7120-3BB				■	■		
	8UC72	Standard	8UC7210-1BB						■	■
		EMERGENCY-STOP	8UC7220-3BB						■	■

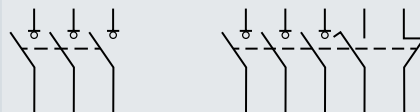
				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)	
Coupling drivers												
	Version		Article No.									
	For 8UC71 door-coupling rotary operating mechanisms		8UC6011					■	■			
	For 8UC72 door-coupling rotary operating mechanisms		8UC6012							■	■	
Switching shafts												
	Cross-section	Length	Article No.									
	6 × 6 mm	300 mm	3LD9205-0C	■	■	■	■	■	■			
		600 mm	3LD9205-2C	■	■	■	■	■	■			
	8 × 8 mm	300 mm	3LD9245-0C							■	■	
		600 mm	3LD9245-2C							■	■	
Coupling pieces												
	• Without ON-lock											
				Article No.								
				3LD9242-4F						■	■	
Terminal covers												
  	• Pack of 4 units											
	Number of poles		Article No.									
	1-pole	3LD9201-2A		■								
		3LD9221-2A			■	■						
		3LD9251-2A					■					
		3LD9281-2A						■	■			
		3LD9241-2A								■	■	
	3-pole	3LD9221-0A			■	■						
		3LD9251-0A					■					
	4-pole	3LD9201-1A		■								
Inscription labels												
	• Pack of 10 units											
	• Cannot be used with defeatable 3LD2.17 door-coupling rotary operating mechanisms											
	Inscription		Article No.									
	German / English (Hauptschalter / Main Switch)		3LD9286-1A	■	■	■	■	■	■			
	Without inscription		3LD9286-4A	■	■	■	■	■	■			
Assembly tools												
	• For center-hole mounting with nut											
	• Pack of 5 units											
	Version		Article No.									
		For main control switches and EMERGENCY-STOP switches	3LD9256-0A	■	■	■	■					

# 3LD switch disconnectors

3LD2 main control switches, installation in distribution boards, 25 ... 50 kA<sub>eff</sub>



Operating mechanisms, black  
Number of poles 3P



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
<b>Knob-operated mechanisms with masking plate</b>				
16 A	7.5 kW	5.5 kW	3LD2030-OTK11	3LD2030-OTK11 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-OTK11	3LD2130-OTK11 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-OTK11	3LD2230-OTK11 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-OTK11	3LD2530-OTK11 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-OTK11	3LD2730-OTK11 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-OTK11	3LD2830-OTK11 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-OTK11	3LD2330-OTK11 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2430-OTK11	3LD2430-OTK11 + 3LD9200-5C

## Scope of supply:

- 3LD23/3LD24 including terminal covers for the infeed side

## Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

## Accessories

3LD20 (16 A) 3LD21 (25 A) 3LD22 (32 A) 3LD25 (63 A) 3LD27 (100 A) 3LD28 (125 A) 3LD23 (160 A) 3LD24 (250 A)

### Switching contacts for N conductor (4th contact)



Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Leading switch-on, lagging switch-off	3LD9220-0C		■	■					
	3LD9250-0CA				■				
	3LD9280-0C					■	■		
	3LD9240-0C							■	■

### N/PE terminals



Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Through-type	3LD9200-2C	■							
	3LD9220-2C		■	■					
	3LD9250-2CA				■				
	3LD9280-2C					■	■		
	3LD9240-2C							■	■

### Auxiliary switches (standard version)

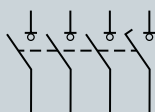
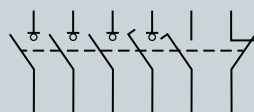


<ul style="list-style-type: none"><li>• For mounting on the left and/or right</li><li>• Lagging switch-on, leading switch-off</li></ul>										
Contacts	Contact surface	Article No.								
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■	■	■	■
2 NO	Standard	3LD9200-6C	■	■	■	■	■	■	■	■




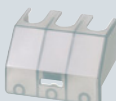
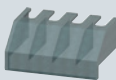


## 3P+N

Without  
auxiliary switch1 NO + 1 NC  
(standard version)

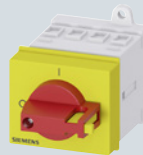
3LD2030-1TL11	3LD2030-1TL11	+ 3LD9200-5C
3LD2130-0TK11 + 3LD9220-0C	3LD2130-0TK11 + 3LD9220-0C	+ 3LD9200-5C
3LD2230-0TK11 + 3LD9220-0C	3LD2230-0TK11 + 3LD9220-0C	+ 3LD9200-5C
3LD2530-0TK11 + 3LD9250-OCA	3LD2530-0TK11 + 3LD9250-OCA	+ 3LD9200-5C
3LD2730-0TK11 + 3LD9280-0C	3LD2730-0TK11 + 3LD9280-0C	+ 3LD9200-5C
3LD2830-0TK11 + 3LD9280-0C	3LD2830-0TK11 + 3LD9280-0C	+ 3LD9200-5C
3LD2330-0TK11 + 3LD9240-0C	3LD2330-0TK11 + 3LD9240-0C	+ 3LD9200-5C
3LD2430-0TK11 + 3LD9240-0C	3LD2430-0TK11 + 3LD9240-0C	+ 3LD9200-5C

8

		3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
<b>Terminal covers</b>									
• Pack of 4 units									
<b>Number of poles</b>		<b>Article No.</b>							
	1-pole	3LD9201-2A	■						
		3LD9221-2A		■					
		3LD9251-2A			■				
		3LD9281-2A				■	■		
		3LD9241-2A						■	■
	3-pole	3LD9221-0A	■	■					
		3LD9251-0A			■				
	4-pole	3LD9201-1A	■						

# 3LD switch disconnectors

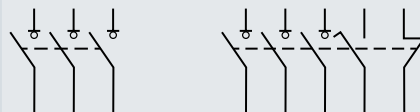
3LD2 EMERGENCY-STOP switches, installation in distribution boards, 25 ... 50 kA<sub>eff</sub>



Number of poles

Operating mechanisms, red/yellow

3P



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
<b>Knob-operated mechanisms with masking plate</b>				
16 A	7.5 kW	5.5 kW	3LD2030-0TK13	3LD2030-0TK13 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK13	3LD2130-0TK13 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK13	3LD2230-0TK13 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK13	3LD2530-0TK13 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK13	3LD2730-0TK13 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK13	3LD2830-0TK13 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK13	3LD2330-0TK13 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2430-0TK13	3LD2430-0TK13 + 3LD9200-5C

## Scope of supply:

- 3LD23/3LD24 including terminal covers for the infeed side

## Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

## Accessories

3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
-----------------	-----------------	-----------------	-----------------	------------------	------------------	------------------	------------------

### Switching contacts for N conductor (4th contact)



#### Contacts

Leading switch-on,  
lagging switch-off

#### Article No.

3LD9220-0C		■	■				
3LD9250-0CA			■				
3LD9280-0C				■	■		
3LD9240-0C						■	■

### N/PE terminals



#### Contacts

Through-type

#### Article No.

3LD9200-2C	■		■				
3LD9220-2C		■	■				
3LD9250-2CA			■				
3LD9280-2C				■	■		
3LD9240-2C						■	■

### Auxiliary switches (standard version)



- For mounting on the left and/or right
- Lagging switch-on,  
leading switch-off

#### Contacts

1 NO + 1 NC

#### Contact surface

Standard  
Gold-plated

#### Article No.

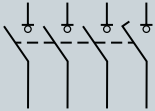
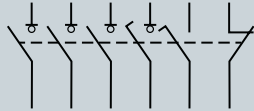
3LD9200-5C	■	■	■	■	■	■	■
3LD9200-5CF	■	■	■	■	■	■	■
3LD9200-6C	■	■	■	■	■	■	■

2 NO

Standard


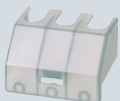
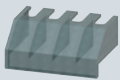


3+N

Without  
auxiliary switch1 NO + 1 NC  
(standard version)

3LD2030-1TL13	3LD2030-1TL13	+ 3LD9200-5C
3LD2130-0TK13 + 3LD9220-0C	3LD2130-0TK13 + 3LD9220-0C	+ 3LD9200-5C
3LD2230-0TK13 + 3LD9220-0C	3LD2230-0TK13 + 3LD9220-0C	+ 3LD9200-5C
3LD2530-0TK13 + 3LD9250-0CA	3LD2530-0TK13 + 3LD9250-0CA	+ 3LD9200-5C
3LD2730-0TK13 + 3LD9280-0C	3LD2730-0TK13 + 3LD9280-0C	+ 3LD9200-5C
3LD2830-0TK13 + 3LD9280-0C	3LD2830-0TK13 + 3LD9280-0C	+ 3LD9200-5C
3LD2330-0TK13 + 3LD9240-0C	3LD2330-0TK13 + 3LD9240-0C	+ 3LD9200-5C
3LD2430-0TK13 + 3LD9240-0C	3LD2430-0TK13 + 3LD9240-0C	+ 3LD9200-5C

8

		3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
<b>Terminal covers</b>									
• Pack of 4 units									
<b>Number of poles</b>		<b>Article No.</b>							
	1-pole	3LD9201-2A	■						
		3LD9221-2A		■					
		3LD9251-2A			■				
		3LD9281-2A				■	■		
		3LD9241-2A						■	■
	3-pole	3LD9221-0A	■	■					
		3LD9251-0A			■				
	4-pole	3LD9201-1A	■						

# 3LD switch disconnectors

DC isolators, 50 kA<sub>rms</sub>



Operating mechanisms, black

Number of poles 8P

Mains voltage	Rated current I <sub>e</sub> At DC-21A, 800 V DC	Rated current I <sub>e</sub> At DC-22A, 800 V DC	Without auxiliary switch
Knob-operated mechanisms			
800 V DC	32 A	16 A	3LD2230-8VQ11-0AF6






# 3LD switch disconnectors

## Accessories for 3LD2 main control and EMERGENCY-STOP switches

### Additional poles

	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
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#### Switching contacts for N conductor (4th contact)

Version	Contacts	Article No.						
	For front mounting	Leading switch-on, lagging switch-off	3LD9220-0B		■	■		
			3LD9250-0BA			■		
			3LD9280-0B			■	■	
			3LD9240-0B				■	■
	For floor mounting, installation in distribution boards	Leading switch-on, lagging switch-off	3LD9220-0C		■	■		
			3LD9250-0CA			■		
			3LD9280-0C			■	■	
			3LD9240-0C				■	■

#### N/PE terminals

Version	Contacts	Article No.						
	For front mounting	Through-type	3LD9200-2B	■				
			3LD9220-2B		■	■		
			3LD9250-2BA			■		
			3LD9280-2B			■	■	
			3LD9240-2B				■	■
	For floor mounting, installation in distribution boards	Through-type	3LD9200-2C	■				
			3LD9220-2C		■	■		
			3LD9250-2CA			■		
			3LD9280-2C			■	■	
			3LD9240-2C				■	■






#### Auxiliary switches (standard version)

<ul style="list-style-type: none"> <li>For mounting on the left and/or right</li> <li>Lagging switch-on, leading switch-off</li> </ul>								
Version	Contacts	Article No.						
	For front mounting	1 NO + 1 NC, standard	3LD9200-5B	■	■	■	■	■
		1 NO + 1 NC, gold-plated	3LD9200-5BF	■	■	■	■	■
	For floor mounting, installation in distribution boards	1 NO + 1 NC, standard	3LD9200-5C	■	■	■	■	■
		1 NO + 1 NC, gold-plated	3LD9200-5CF	■	■	■	■	■
		2 NO, standard	3LD9200-6C	■	■	■	■	■



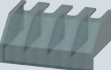


#### Auxiliary switch for mounting on the front

<ul style="list-style-type: none"> <li>Mounted on the front of the switch shaft</li> <li>For four-hole front mounting and floor mounting only</li> <li>For long leading times (20 ... 150 ms)</li> </ul>								
Contacts	Contact surface	Article No.						
1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■	■	■	■	
		3LD9240-5D <b>new</b>						■
	Gold-plated	3LD9280-5DF <b>new</b>	■	■	■	■	■	
		3LD9240-5DF <b>new</b>						■

## Operating mechanisms

				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)	
Rotary operating mechanisms												
 	<ul style="list-style-type: none"><li>Lockable in 0 position with up to 3 padlocks</li><li>Center-hole mounting, including seal and nut</li><li>Four-hole mounting, including seal</li></ul>											
	Switch	Mounting	Article No.									
	For main control switches	Center-hole mounting	3LD9224-1D	■	■	■						
			3LD9284-1D			■	■	■				
		Four-hole mounting	3LD9224-1B	■	■	■						
			3LD9284-1B			■	■	■				
	For EMERGENCY-STOP switches	Center-hole mounting	3LD9224-3D	■	■	■						
			3LD9284-3D			■	■	■				
		Four-hole mounting	3LD9224-3B	■	■	■						
			3LD9284-3B			■	■	■				
Knob-operated mechanisms												
	<ul style="list-style-type: none"><li>Lockable in 0 position with up to 3 padlocks</li><li>Including seal</li></ul>											
	Switch	Mounting	Article No.									
	For main control switches	Four-hole mounting	3LD9243-1B							■	■	
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							■	■	
Switching shafts												
	Version	Cross-section	Length	Article No.								
	For floor mounting	6 × 6 mm	300 mm	3LD9205-0C	■	■	■	■	■	■		
			600 mm	3LD9205-2C	■	■	■	■	■	■		
		8 × 8 mm	300 mm	3LD9245-0C							■	■
			600 mm	3LD9245-2C							■	■
Coupling pieces												
	<ul style="list-style-type: none"><li>Without ON-lock</li></ul>											
	Version	Article No.										
	For floor mounting	3LD9242-4F									■	■

## Other accessories

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
<b>Terminal covers</b>										
  	<ul style="list-style-type: none"> <li>Pack of 4 units</li> </ul>									
	<b>Number of poles</b>	<b>Article No.</b>								
	1-pole	3LD9201-2A	■		■					
		3LD9221-2A		■	■					
		3LD9251-2A				■				
		3LD9281-2A					■	■		
		3LD9241-2A							■	■
	3-pole	3LD9221-0A		■	■					
		3LD9251-0A				■				
	4-pole	3LD9201-1A	■							
<b>Inscription labels</b>										
	<ul style="list-style-type: none"> <li>Pack of 10 units</li> </ul>									
	<b>Inscription</b>	<b>Article No.</b>								
	German / English (Hauptschalter / Main Switch)	3LD9286-1A	■	■	■	■	■	■		
	Without inscription	3LD9286-4A	■	■	■	■	■	■		
<b>Assembly tools</b>										
	<ul style="list-style-type: none"> <li>For center-hole mounting with nut</li> <li>Pack of 5 units</li> </ul>									
	<b>Switch</b>	<b>Article No.</b>								
	For main control switches and EMERGENCY-STOP switches	3LD9256-0A	■	■	■	■				

# 3LD switch disconnectors

## System overview of 3LD2 switch disconnectors in enclosure

### 3LD2 main control and EMERGENCY-STOP switches in enclosure



3P / 3P+N  
molded-plastic enclosures



3P / 6P  
molded-plastic enclosures



3P / 3p+N / 6P  
molded-plastic enclosures

### 3LD2 maintenance and repair switches with EMC shield plate



3P  
molded-plastic enclosures **new**



3P / 6P  
molded-plastic enclosures **new**



3P / 6P  
molded-plastic enclosures **new**

8

### DC isolators in enclosure



8P DC isolators in a  
molded-plastic enclosure



8P DC isolators in a  
molded-plastic enclosure

### Additional poles and auxiliary switch modules



N switching  
contact



N/PE terminals  
(through-type)



Auxiliary switches  
(standard version)



Auxiliary switch for mounting on  
the front **new**

### Operating mechanisms

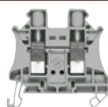


Rotary operators for center-hole mounting

### Further accessories



Shield terminal **new**

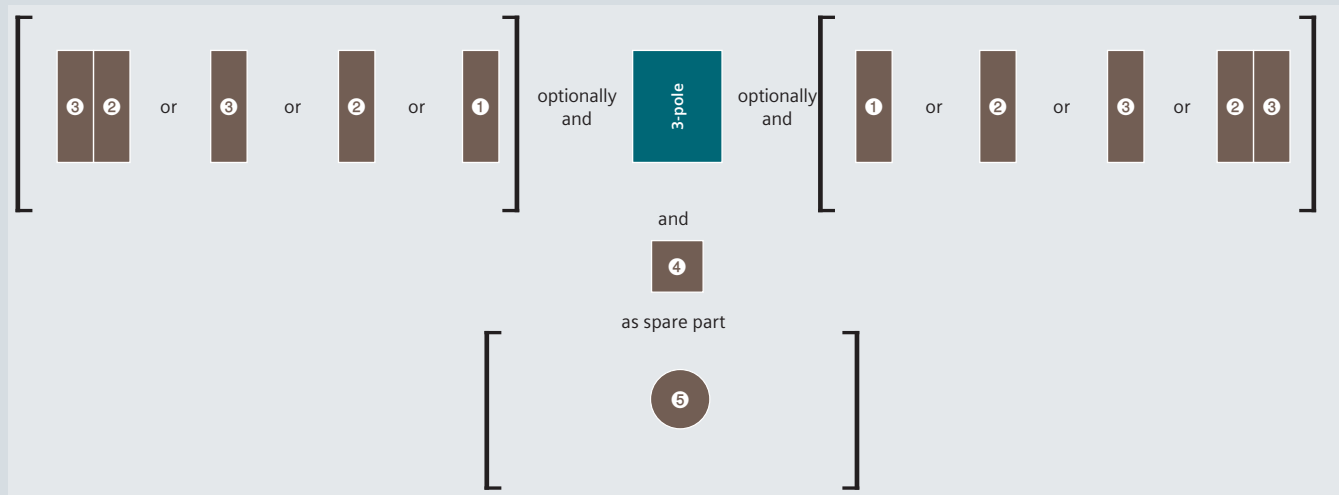


Through-type terminal

#### Note:

You will find a detailed range of accessories with the basic units.

## Mounting concept and accessories



### Legend

- ① Auxiliary switch
- ② N switching contact <sup>1)</sup>
- ③ N/PE terminal
- ④ Auxiliary switch for mounting on the front
- ⑤ Rotary operating mechanism, center-hole mounting

<sup>1)</sup> The N switching contact ② first has to be mounted on the basic unit  
 Note: Depending on the enclosure size, not all accessories can be used in combination



## Mounting types

### 3LD2 main control and EMERGENCY-STOP switches in enclosure



For surface mounting of individual main control and EMERGENCY-STOP switches, molded plastic-enclosed switches with degree of protection IP65 are used. The molded-plastic enclosures each contain an N and/or a PE terminal. As the switches can be locked in the 0 position, they can also be used as maintenance and repair switches.

### DC isolators in enclosure



As the switches can be locked in the 0 position, they can also be used as maintenance and repair switches. The DC isolators in the enclosure are suitable for disconnecting loads of up to 800 V DC due to their 8-pole design.

### 3LD2 maintenance and repair switches with EMC shield plate



The 3LD2 maintenance and repair switch with EMC shield plate is ideal for use between converter and motor. A long leading (20-150ms) NO contact switches the converter group off before the main contacts of the switch open. This produces an AC20 state. The cable shield can be contacted over a large area inside the enclosure using the shield clamps or hose clips included in the scope of delivery. The switch series provides the greatest possible safety for the user and can be locked in the 0 or I position. Tests have been performed in connection with Sinamics converters and ratings are available for use at frequencies between 0 and 550 Hz.

# 3LD switch disconnectors

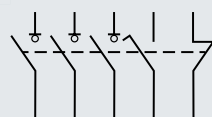
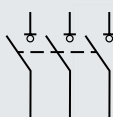
3LD2 main control switches in enclosure, 25 ... 50 kA<sub>eff</sub>



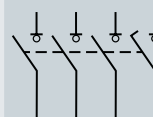
## Operating mechanisms, black

Number of poles

3P



3P+N



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)	Without auxiliary switch
Rotary operating mechanisms with masking plate			Base terminal	Base terminal	Base terminal
16 A	7.5 kW	5.5 kW	PE+N 3LD2064-0TB51	N 3LD2064-1GP51	PE 3LD2064-1TC51
25 A	9.5 kW	7.5 kW	PE+N 3LD2164-0TB51	N 3LD2164-1GP51	PE 3LD2164-1TC51
32 A	11.5 kW	9.5 kW	PE+N 3LD2264-0TB51	N 3LD2264-1GP51	PE 3LD2264-1TC51
63 A	22 kW	18.5 kW	PE+N 3LD2565-0TB51	N 3LD2565-1GP51	PE 3LD2565-1TC51
100 A	37 kW	30 kW	PE+N 3LD2766-0TB51	N 3LD2766-1GP51	PE+N 3LD2766-0TB51 + 3LD9280-0C
125 A	45 kW	37 kW	PE+N 3LD2866-0TB51	N 3LD2866-1GP51	PE+N 3LD2866-0TB51 + 3LD9280-0C

## Accessories

3LD20 (16 A) 3LD21 (25 A) 3LD22 (32 A) 3LD25 (63 A) 3LD27 (100 A) 3LD28 (125 A)

### Switching contacts for N conductor (4th contact)



#### Contacts

Leading switch-on,  
lagging switch-off

#### Article No.

3LD9220-0C  
3LD9250-0CA  
3LD9280-0C

### N/PE terminals



#### Contacts

Through-type

#### Article No.

3LD9200-2C  
3LD9220-2C  
3LD9250-2CA  
3LD9280-2C

### Auxiliary switches (standard version)



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

#### Contacts

1 NO + 1 NC

#### Contact surface

Standard  
Gold-plated

#### Article No.

3LD9200-5C  
3LD9200-5CF  
3LD9200-6C

### Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150 ms)

#### Contacts

1 NO + 1 NC

#### Contact surface

Standard  
Gold-plated

#### Article No.

3LD9280-5D **new**  
3LD9280-5DF **new**

### Rotary operating mechanisms



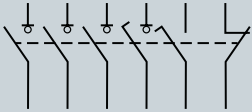
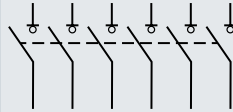
- Lockable in 0 position with up to 3 padlocks

#### Article No.

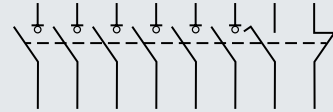
3LD9224-1G  
3LD9284-1G



6P

1 NO + 1 NC  
(standard version)

Without auxiliary switch

1 NO + 1 NC  
(standard version)

Base terminal			Base terminal		Base terminal	
PE	3LD2064-1TC51	+ 3LD9200-5C	—	—	N	3LD2165-4VD51
PE	3LD2164-1TC51	+ 3LD9200-5C	PE+N	3LD2165-3VB51	N	3LD2265-4VD51
PE	3LD2264-1TC51	+ 3LD9200-5C	PE+N	3LD2265-3VB51	PE+N	3LD2566-4VD51
PE	3LD2565-1TC51	+ 3LD9200-5C	PE+N	3LD2566-3VB51	—	—
N	3LD2766-1GP51 + 3LD9280-0C	—	—	—	—	—
N	3LD2866-1GP51 + 3LD9280-0C	—	—	—	—	—



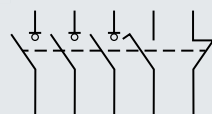
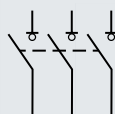
# 3LD switch disconnectors

3LD2 EMERGENCY-STOP switches in enclosure, 25 ... 50 kA<sub>eff</sub>

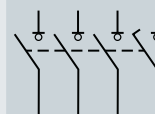


## Operating mechanisms, red/yellow

Number of poles 3P



3P+N



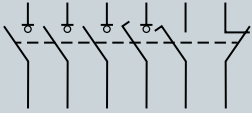
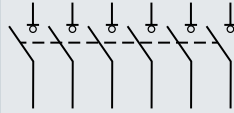
Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch		1 NO + 1 NC (standard version)		Without auxiliary switch	
Rotary operating mechanisms with masking plate			Base terminal		Base terminal		Base terminal	
16 A	7.5 kW	5.5 kW	PE+N	3LD2064-0TB53	N	3LD2064-1GP53	PE	3LD2064-1TC53
25 A	9.5 kW	7.5 kW	PE+N	3LD2164-0TB53	N	3LD2164-1GP53	PE	3LD2164-1TC53
32 A	11.5 kW	9.5 kW	PE+N	3LD2264-0TB53	N	3LD2264-1GP53	PE	3LD2264-1TC53
63 A	22 kW	18.5 kW	PE+N	3LD2565-0TB53	N	3LD2565-1GP53	PE	3LD2565-1TC53
100 A	37 kW	30 kW	PE+N	3LD2766-0TB53	N	3LD2766-1GP53	PE+N	3LD2766-0TB53 + 3LD9280-0C
125 A	45 kW	37 kW	PE+N	3LD2866-0TB53	N	3LD2866-1GP53	PE+N	3LD2866-0TB53 + 3LD9280-0C

## Accessories

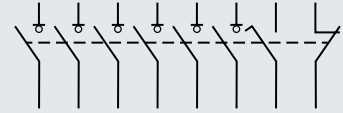
			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
<b>Switching contacts for N conductor (4th contact)</b>								
	<b>Contacts</b>	<b>Article No.</b>						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
<b>N/PE terminals</b>								
	<b>Contacts</b>	<b>Article No.</b>						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C					■	■
<b>Auxiliary switches (standard version)</b>								
	<ul style="list-style-type: none"> <li>For mounting on the left and/or right</li> <li>Lagging switch-on, leading switch-off</li> </ul>							
	<b>Contacts</b>	<b>Article No.</b>						
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■
	2 NO + 1 NC	Standard	3LD9200-6C	■	■	■	■	■
<b>Auxiliary switch for mounting on the front</b>								
	<ul style="list-style-type: none"> <li>Mounted on the front of the switch shaft</li> <li>For long leading times (20 ... 150 ms)</li> </ul>							
	<b>Contacts</b>	<b>Article No.</b>						
	1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■	■	■	■
		Gold-plated	3LD9280-5DF <b>new</b>	■	■	■	■	■
<b>Rotary operating mechanisms</b>								
	<ul style="list-style-type: none"> <li>Lockable in 0 position with up to 3 padlocks</li> </ul>							
	<b>Article No.</b>							
		3LD9224-3G	■	■	■			
		3LD9284-3G				■	■	■



6P

1 NO + 1 NC  
(standard version)

Without auxiliary switch

1 NO + 1 NC  
(standard version)Base  
terminal

PE	3LD2064-1TC53	+	3LD9200-5C
PE	3LD2164-1TC53	+	3LD9200-5C
PE	3LD2264-1TC53	+	3LD9200-5C
PE	3LD2565-1TC53	+	3LD9200-5C
N	3LD2766-1GP53 + 3LD9280-0C		
N	3LD2866-1GP53 + 3LD9280-0C		

Base  
terminal

	–
PE+N	3LD2165-3VB53
PE+N	3LD2265-3VB53
PE+N	3LD2566-3VB53
	–
	–

Base  
terminal

	–
N	3LD2165-4VD53
N	3LD2265-4VD53
PE+N	3LD2566-4VD53
	–
	–

# 3LD switch disconnectors

## 3LD2 DC isolators in a molded-plastic enclosure



Number of poles	Operating mechanisms, black	Operating mechanisms, red/yellow
	8P 	8P 

Mains voltage	Rated current I <sub>e</sub> At DC-21A, 800 V DC	Rated current I <sub>e</sub> At DC-22A, 800 V DC	Without auxiliary switch	
Rotary operating mechanisms				
800 V DC	32 A	16 A	3LD2265-8VQ51-0AF6	3LD2265-8VQ53-0AF6

8

## 3LD2 maintenance and repair switches with EMC shield plate, 25 ... 50 kA<sub>eff</sub> **new**



Number of poles	Operating mechanisms, black	
	3P 	6P 






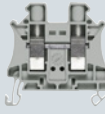

Uninterrupted current $I_u$ At AC-20, 0 ... 550 Hz, 380 ... 440 V	Operational power P At AC-20, 0 ... 550 Hz, 380 ... 440 V	Uninterrupted current $I_n$ At AC-21, 50/60 Hz, 380 ... 440 V	Operational power AC-23A, 50/60 Hz, 380 ... 440 V	1 NO + 1 NC (Auxiliary switch for mounting on the front) <b>new</b>	1 NO + 1 NC (Auxiliary switch for mounting on the front) <b>new</b>
Knob-operated mechanisms with masking plate				Base terminal	Base terminal
10.2 A	4 kW	16 A	7.5 kW	PE 3LD2084-2GP21	2× PE –
13.2 A	5.5 kW	25 A	9 kW	PE 3LD2184-2GP21	2× PE 3LD2185-5VD21
18 A	7.5 kW	32 A	11.5 kW	PE 3LD2284-2GP21	2× PE 3LD2285-5VD21
38 A	18.5 kW	63 A	22 kW	PE 3LD2585-2GP21	2× PE 3LD2586-5VD21
75 A	37 kW	100 A	37 kW	PE 3LD2786-2GP21	2× PE –
90 A	45 kW	125 A	45 kW	PE 3LD2886-2GP21	2× PE –

### Scope of supply:

- Incl. shield clamps or hose clips for contacting the cable shield
- The PE terminal as a through-type terminal is insulated from the cable shield

## 3LD2 maintenance and repair switches with EMC shield plate, 25 ... 50 kA<sub>eff</sub>

### Accessories

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
<b>Switching contacts for N conductor (4th contact)</b>								
	<b>Contacts</b>	<b>Article No.</b>						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
<b>N/PE terminals</b>								
	<b>Contacts</b>	<b>Article No.</b>						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C					■	■
<b>Auxiliary switches (standard version)</b>								
	<ul style="list-style-type: none"> <li>For mounting on the left and/or right</li> <li>Lagging switch-on, leading switch-off</li> </ul>							
	<b>Contacts</b>	<b>Contact surface</b>	<b>Article No.</b>					
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■
	2 NO	Standard	3LD9200-6C	■	■	■	■	■
<b>Auxiliary switch for mounting on the front</b>								
	<ul style="list-style-type: none"> <li>Mounted on the front of the switch shaft</li> <li>For long leading times (20 ... 150 ms)</li> </ul>							
	<b>Contacts</b>	<b>Contact surface</b>	<b>Article No.</b>					
	1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■	■	■	■
		Gold-plated	3LD9280-5DF <b>new</b>	■	■	■	■	■
<b>Rotary operating mechanisms</b>								
	<ul style="list-style-type: none"> <li>Lockable in 0 position with up to 3 padlocks</li> </ul>							
	<b>Version</b>	<b>Article No.</b>						
	Main control switches	3LD9224-1G	■	■	■		■	■
		3LD9284-1G				■	■	■
	EMERGENCY-STOP switches		3LD9224-3G	■	■	■		
			3LD9284-3G				■	■
<b>Terminal blocks</b>								
	<b>Version</b>	<b>Article No.</b>						
	Through-type terminal with screw connection	8WH1000-0AF00	■	■	■	■	■	■
<b>Shield terminal</b>								
	<b>Terminal area</b>	<b>Article No.</b>						
	3 ... 12 mm	3LD9228-1G	■	■	■	■	■	■

# 3LD switch disconnectors

## Accessories for 3LD2 switch disconnectors in enclosure

### Additional poles

	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
--	-----------------	-----------------	-----------------	-----------------	------------------	------------------

#### Switching contacts for N conductor (4th contact)



Contacts	Article No.					
Leading switch-on, lagging switch-off	3LD9220-0C		■	■		
	3LD9250-0CA			■		
	3LD9280-0C				■	■

#### N/PE terminals



Contacts	Article No.					
Through-type	3LD9200-2C	■				
	3LD9220-2C		■	■		
	3LD9250-2CA			■		
	3LD9280-2C				■	■

#### Auxiliary switches (standard version)



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

Contacts	Contact surface	Article No.						
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■	■
2 NO + 1 NC	Standard	3LD9200-6C	■	■	■	■	■	■

#### Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150 ms)

Contacts	Contact surface	Article No.						
1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■	■	■	■	■
	Gold-plated	3LD9280-5DF <b>new</b>	■	■	■	■	■	■

### Operating mechanisms

	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
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#### Rotary operating mechanisms

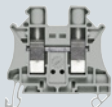



- Lockable in 0 position with up to 3 padlocks

Version	Article No.					
Main control switches	3LD9224-1G	■	■	■		
	3LD9284-1G				■	■
EMERGENCY-STOP switches	3LD9224-3G	■	■	■		
	3LD9284-3G				■	■



## Connection parts

		3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
<b>Reihenklemme</b>							
	<b>Version</b>	<b>Article No.</b>					
	Through-type terminal with screw connection	8WH1000-0AF00	■	■	■	■	■
<b>Shield terminal</b>							
	<b>Terminal area</b>	<b>Article No.</b>					
	3 ...12 mm	3LD9228-1G	■	■	■	■	■

# 3LD switch disconnectors

System overview of 3LD5 UL main control and EMERGENCY-STOP switches **new**

## Basic units for front mounting



3LD5020 (3-pole)



3LD5020 (4-pole)



3LD5420 (3-pole)



3LD5420 (4-pole)

## Basic units, floor mounting with direct operating mechanism



3LD5000 (3-pole)



3LD5000 (4-pole)



3LD5400 (3-pole)



3LD5400 (4-pole)

## Basic units, floor mounting with door-coupling rotary operating mechanism



3LD5010 (3-pole)



3LD5010 (4-pole)



3LD5410 (3-pole)



3LD5410 (4-pole)

## Additional poles and auxiliary switches



N switching contact



N/PE terminals (through-type)



Auxiliary switches (standard version)

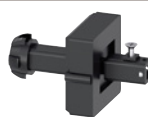


Auxiliary switch for mounting on the front

## Operating mechanisms



Rotary operators for four-hole mounting



Coupling heads with and without tolerance compensation



Supplementary handles for UL508A/NFPA79



Switching shafts for UL508A/NFPA79

## Other accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole



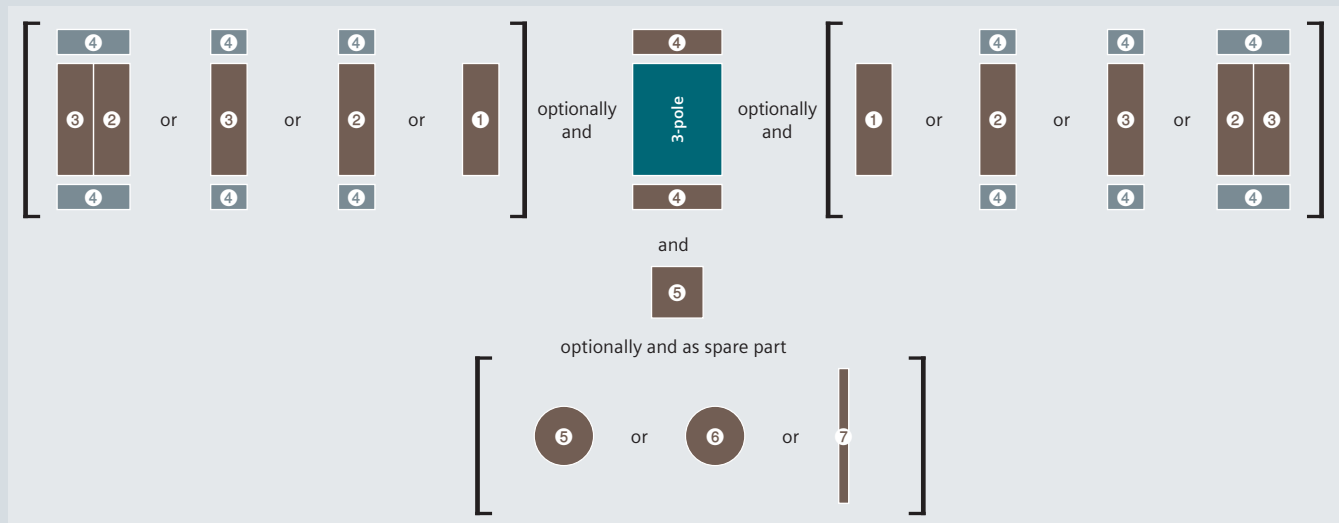
Inscription labels (with and without inscription)

### Note:

You will find a detailed range of accessories with the basic units.



## Mounting concept and accessories



### Main control switches acc. to UL

The certification according to UL489 makes the 3LD5 UL ideal for use as a main control switch for machinery and plants for export to the NAFTA states. The variety of accessories makes it especially suitable as a main disconnect switch for industrial machinery. The switch is also certified according to UL508 and can also be used as a manual motor controller.

### Mounting types

#### Front mounting of basic units



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. Installation is achieved by 4-hole mounting of the handle. This switch is especially suitable when door interlocking is not required or is implemented in a different way.

#### Floor mounting with direct operating mechanism



The switches for floor mounting with direct operating mechanism up to 30 A are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels.

#### Basic units, floor mounting with door-coupling rotary operating mechanism



The switches for floor mounting up to 30 A (3LD50) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels. 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. The rotary operating mechanisms are also defeatable, i.e. it is possible to open the control cabinet door with a deliberate action while the switch is in the ON position. To meet the requirement acc. to UL508A/NFPA79, a supplementary handle can be mounted on the switch. Combined with the intermediate handle, the shaft can no longer be removed.

# 3LD switch disconnectors

3LD5 UL main control and EMERGENCY-STOP switches,  
front mounting, SCCR 50 - 65 kA

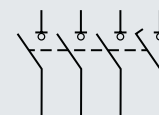
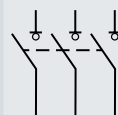


Operating mechanisms, black

Number of poles

3P

3P+N



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	I <sub>n</sub> / General use acc. UL489/60947-4-1	Operational power P At AC-23A, 380 ... 440 V		
Rotary operating mechanism, four-hole mounting				
32	30	15	3LD5020-OTK11	3LD5020-OTL11
63	60	30	3LD5220-OTK11	3LD5220-OTL11
100	100	45	3LD5420-OTK11	3LD5420-OTL11
125	125	55	3LD5620-OTK11	3LD5620-OTL11
160	150	75	3LD5820-OTK11	3LD5820-OTL11

## Scope of supply:

- Including terminal covers for the infeed side

## Accessories for front mounting

3LD50 3LD52 3LD54 3LD56 3LD58

### Switching contacts for N conductor (4th contact)



#### Contacts

Leading switch-on, lagging switch-off

#### Article No.

3LD9250-0BA  
3LD9280-0B  
3LD9240-0B

### N/PE terminals



#### Contacts

Through-type

#### Article No.

3LD9250-2BA  
3LD9280-2B  
3LD9240-2B

### Auxiliary switches (standard version)



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

#### Contacts

1 NO + 1 NC

#### Contact surface

Standard

Gold-plated

#### Article No.

3LD9200-5B  
3LD9200-5BF

### Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150ms)

#### Contacts

1 NO + 1 NC

#### Contact surface

Standard

Gold-plated

#### Article No.

3LD9280-5D **new**  
3LD9240-5D **new**  
3LD9280-5DF **new**  
3LD9240-5DF **new**

### Rotary operating mechanisms



- Auxiliary switch for mounting on the front

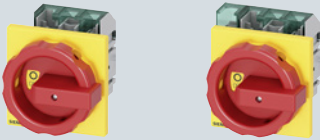
#### Version

For main control switches

For EMERGENCY-STOP switches

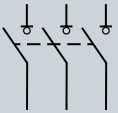
#### Article No.

3LD9284-1B  
3LD9284-3B

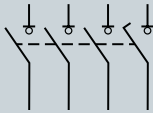


### Operating mechanisms, red/yellow

3P



3P+N



3LD5020-OTK13	3LD5020-OTL13
3LD5220-OTK13	3LD5220-OTL13
3LD5420-OTK13	3LD5420-OTL13
3LD5620-OTK13	3LD5620-OTL13
3LD5820-OTK13	3LD5820-OTL13

3LD50 3LD52 3LD54 3LD56 3LD58

### Knob-operated mechanisms



- Lockable in 0 position with up to 3 padlocks

#### Version

For main control switches

For EMERGENCY-STOP switches

#### Article No.

3LD9243-1B

3LD9284-3B

### Terminal covers

- Pack of 4 units

#### Number of poles

1-pole

#### Article No.

3LD9251-2A

3LD9281-2A

3LD9241-2A

3-pole

3LD9251-0A

### Inscription labels



- Pack of 10 units

#### Inscription

German / English (Hauptschalter / Main Switch)

Without inscription

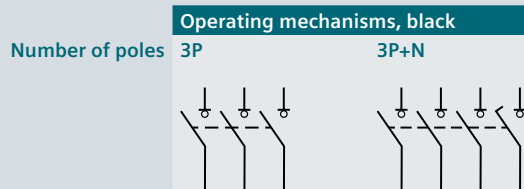
#### Article No.

3LD9286-1A

3LD9286-4A

# 3LD switch disconnectors

3LD5 UL main control and EMERGENCY-STOP switches,  
floor mounting with direct operating mechanism, SCCR 50 ... 65 kA



Uninterrupted current I <sub>u</sub> At AC-21A, 380 ... 440 V	I <sub>n</sub> / General use acc. UL489/508	Operational power P At AC-23A, 380 ... 440 V		
Rotary operating mechanism, four-hole mounting				
32	30	15	3LD5000-OTK11	3LD5000-OTL11
63	60	30	3LD5200-OTK11	3LD5200-OTL11
100	100	45	3LD5400-OTK11	3LD5400-OTL11
125	125	55	3LD5600-OTK11	3LD5600-OTL11
160	150	75	3LD5800-OTK11	3LD5800-OTL11

## Scope of supply:

- Including terminal covers for the infeed side

## Accessories for floor mounting with direct operating mechanisms

3LD50 3LD52 3LD54 3LD56 3LD58

### Switching contacts for N conductor (4th contact)



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Leading switch-on, lagging switch-off	3LD9250-OCA	■				
	3LD9280-OC		■			
	3LD9240-OC			■	■	■

### N/PE terminals



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Through-type	3LD9250-2CA	■				
	3LD9280-2C		■			
	3LD9240-2C			■	■	■

### Auxiliary switches



<ul style="list-style-type: none"><li>• For mounting on the left and/or right</li><li>• Lagging switch-on, leading switch-off</li></ul>							
Contacts	Contact surface	Article No.					
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■

### Terminal covers

<ul style="list-style-type: none"> <li>• Pack of 4 units</li> </ul>						
Number of poles	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1-pole	3LD9251-2A	■				
	3LD9281-2A		■			
	3LD9241-2A			■	■	■
3-pole	3LD9251-0A	■				

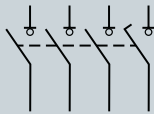
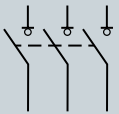




### Operating mechanisms, red/yellow

3P

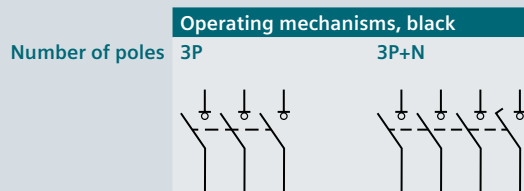
3P+N



3LD5000-OTK13	3LD5000-OTL13
3LD5200-OTK13	3LD5200-OTL13
3LD5400-OTK13	3LD5400-OTL13
3LD5600-OTK13	3LD5600-OTL13
3LD5800-OTK13	3LD5800-OTL13

# 3LD switch disconnectors

3LD5 UL main control and EMERGENCY-STOP switches,  
floor mounting with door-coupling rotary operating mechanism, SCCR 50 ... 65 kA



Uninterrupted current I <sub>n</sub> At AC-21A, 380 ... 440 V	I <sub>n</sub> / General use acc. UL489/508	Operational power P At AC-23A, 380 ... 440 V			
Rotary operating mechanism, four-hole mounting					
32	30	15	3LD5010-OTK11	3LD5010-OTL11	
63	60	30	3LD5210-OTK11	3LD5210-OTL11	
100	100	45	3LD5410-OTK11	3LD5410-OTL11	
125	125	55	3LD5610-OTK11	3LD5610-OTL11	
160	150	75	3LD5810-OTK11	3LD5810-OTL11	

## Scope of supply:

- Including terminal covers for the infeed side
- Defeatable door-coupling rotary operating mechanisms
- Without tolerance compensation

## Accessories for floor mounting with door mounted rotary operator

3LD50 3LD52 3LD54 3LD56 3LD58

### Switching contacts for N conductor (4th contact)



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Leading switch-on, lagging switch-off	3LD9250-OCA	■				
	3LD9280-OC		■			
	3LD9240-OC			■	■	■

### N/PE terminals



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Through-type	3LD9250-2CA	■				
	3LD9280-2C		■			
	3LD9240-2C			■	■	■

### Auxiliary switches (standard version)



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

Contacts	Contact surface	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
	Vergoldet	3LD9200-5CF	■	■	■	■	■

### Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150ms)

Contacts	Contact surface	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1 NO + 1 NC	Standard	3LD9280-5D <b>new</b>	■	■			
		3LD9240-5D <b>new</b>			■	■	■
	Gold-plated	3LD9280-5DF <b>new</b>	■	■			
		3LD9240-5DF <b>new</b>			■	■	■

### Handles



- Supplied with a masking frame, but without an extension shaft or coupling driver
- Can be locked with up to 3 padlocks

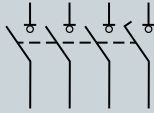
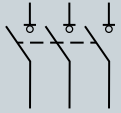
Labeling	Color	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
O-I	Gray	8UD1771-2AD01	■	■			
		8UD1731-2AD01			■	■	■
	Red/yellow	8UD1771-2AD05	■	■			
		8UD1731-2AD05			■	■	■



### Operating mechanisms, red/yellow

3P

3P+N



3LD5010-OTK13	3LD5010-OTL13
3LD5210-OTK13	3LD5210-OTL13
3LD5410-OTK13	3LD5410-OTL13
3LD5610-OTK13	3LD5610-OTL13
3LD5810-OTK13	3LD5810-OTL13

3LD50 3LD52 3LD54 3LD56 3LD58

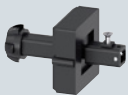
### Supplementary handles for door-coupling rotary operating mechanism



- For requirements according to UL508A/NFPA79
- Can be locked with up to 1 padlocks in 0 position
- Can only be switched on by deliberate action

Labeling	Color	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
O-I	Gray	3LD9287-1C	■	■			
		3LD9247-1C			■	■	■
	Red/yellow	3LD9287-3C	■	■			
		3LD9247-3C			■	■	■

### Coupling drivers



Version	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
With tolerance compensation	8UD1900-1GA00	■	■			
	8UD1900-2GA00			■	■	■
Without tolerance compensation	8UD1900-1HA00	■	■			
	8UD1900-2HA00			■	■	■

### Terminal covers

- Pack of 4 units



Number of poles	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1-pole	3LD9251-2A	■				
	3LD9281-2A		■			
	3LD9241-2A			■	■	■



3-pole	3LD9251-0A	■				
--------	------------	---	--	--	--	--

### Inscription labels



- Pack of 10 units

Inscription	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
German / English (Hauptschalter / Main Switch)	3LD9286-1A	■	■	■	■	■
Without inscription	3LD9286-4A	■	■	■	■	■



# 3LD switch disconnectors

## Accessories for 3LD5 UL main control and EMERGENCY-STOP switches

### Additional poles

3LD50 3LD52 3LD54 3LD56 3LD58

#### Switching contacts for N conductor (4th contact) for front mounting



##### Contacts

Leading switch-on, lagging switch-off

##### Article No.

3LD9250-0BA  
3LD9280-0B  
3LD9240-0B

■				
	■			
		■	■	■

#### Switching contacts for N conductor (4th contact) for floor mounting



##### Contacts

Leading switch-on, lagging switch-off

##### Article No.

3LD9250-0CA  
3LD9280-0C  
3LD9240-0C

■				
	■			
		■	■	■

#### N/PE terminals for front mounting



##### Contacts

Through-type

##### Article No.

3LD9250-2BA  
3LD9280-2B  
3LD9240-2B

■				
	■			
		■	■	■

#### N/PE terminals for floor mounting



##### Contacts

Through-type

##### Article No.

3LD9250-2CA  
3LD9280-2C  
3LD9240-2C

■				
	■			
		■	■	■

#### Auxiliary switches (standard version) for front mounting



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

##### Contacts

1 NO + 1 NC

##### Contact surface

Standard

Gold-plated

##### Article No.

3LD9200-5B  
3LD9200-5BF

■	■	■	■	■
■	■	■	■	■

#### Auxiliary switches (standard version) for floor mounting



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

##### Contacts

1 NO + 1 NC

##### Contact surface

Standard

Gold-plated

##### Article No.

3LD9200-5C  
3LD9200-5CF

■	■	■	■	■
■	■	■	■	■

#### Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150ms)

##### Contacts

1 NO + 1 NC

##### Contact surface

Standard

Gold-plated

##### Article No.

3LD9280-5D **new**  
3LD9240-5D **new**  
3LD9280-5DF **new**  
3LD9240-5DF **new**

■	■			
		■	■	■
■	■			
		■	■	■

## Operating mechanisms

3LD50 3LD52 3LD54 3LD56 3LD58

### Rotary operating mechanism for front mounting



- Lockable in 0 position with up to 3 padlocks

Version	Article No.
For main control switches	3LD9284-1B
For EMERGENCY-STOP switches	3LD9284-3B

### Knob-operated mechanism for front mounting



- Lockable in 0 position with up to 3 padlocks

Version	Article No.
For main control switches	3LD9243-1B
For EMERGENCY-STOP switches	3LD9284-3B

### Handles for floor mounting



- Supplied with a masking frame, but without an extension shaft or coupling driver
- Can be locked with up to 3 padlocks

Labeling	Color	Article No.
O-I	Gray	8UD1771-2AD01
		8UD1731-2AD01
	Red/yellow	8UD1771-2AD05
		8UD1731-2AD05

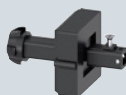
### Supplementary handles for door-coupling rotary operating mechanism



- For requirements according to UL508A/NFPA79
- Can be locked with up to 1 padlocks in 0 position
- Can only be switched on by deliberate action

Labeling	Color	Article No.
O-I	Gray	3LD9287-1C
		3LD9247-1C
	Red/yellow	3LD9287-3C
		3LD9247-3C

### Coupling drivers for floor mounting with door-coupling rotary operating mechanism



Version	Article No.
With tolerance compensation	8UD1900-1GA00
	8UD1900-2GA00
Without tolerance compensation	8UD1900-1HA00
	8UD1900-2HA00

## Other accessories

3LD50 3LD52 3LD54 3LD56 3LD58

### Terminal covers



- Pack of 4 units

Number of poles	Article No.
1-pole	3LD9251-2A
	3LD9281-2A
	3LD9241-2A



3-pole	3LD9251-0A
--------	------------

### Inscription labels



- Pack of 10 units

Inscription	Article No.
German / English (Hauptschalter / Main Switch)	3LD9286-1A
Without inscription	3LD9286-4A

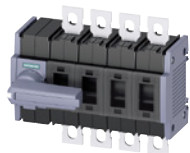
# 3KD switch disconnectors

## System overview

### Complete assemblies with direct operating mechanisms



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole

### Basic units



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



Front-mounted devices, 6-pole for DC applications



Front operating mechanisms, 3-pole

### Additional poles and auxiliary switch modules



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

### Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



Handles for door-coupling rotary operating mechanisms



Other accessories for door-coupling rotary operating mechanisms

### Other accessories and spare parts



Auxiliary switches



Terminal covers



Phase barriers



Blocking pin test function



Mounting elements



Accessories for DC applications

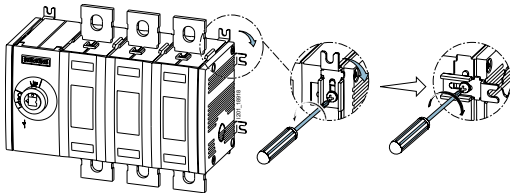
#### Note:

You will find a detailed range of accessories with the basic units.



## Types of mounting

### Floor mounting

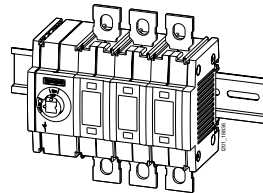


All 3KD switch disconnectors are designed for floor mounting. To ensure that the switch can be flexibly adapted to the relevant installation conditions, the mounting bracket can be rotated through 90° with size 3 or larger.

You will find further information under:  
[sie.ag/2UlrAvy](https://sie.ag/2UlrAvy)



### Standard mounting rail

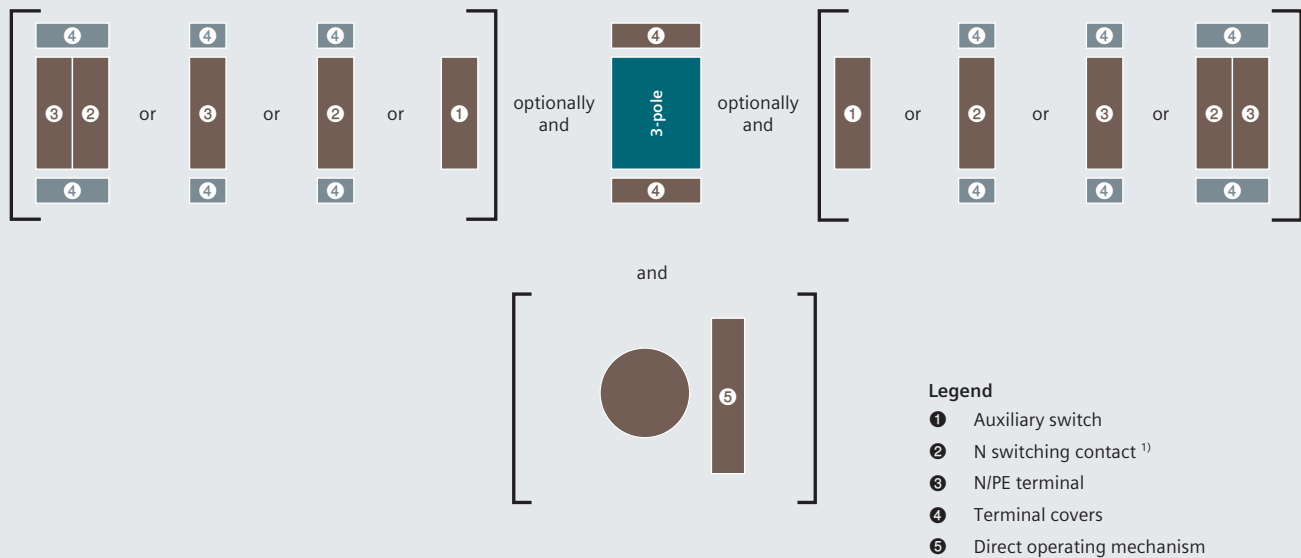


Sizes 01 and 02 of the 3KD0 and sizes 1 and 2 of the 3KD can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.

# 3KD switch disconnectors

## Mounting concept and accessories

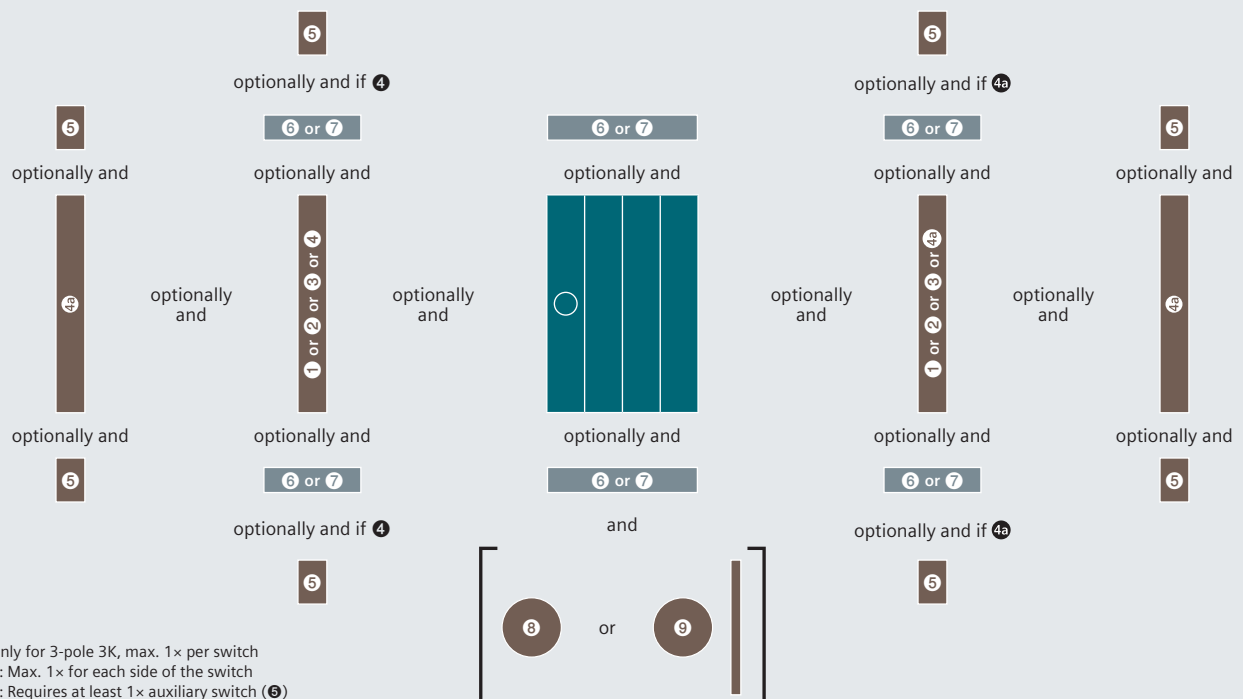
### Front operating mechanism center, size 01 and 02



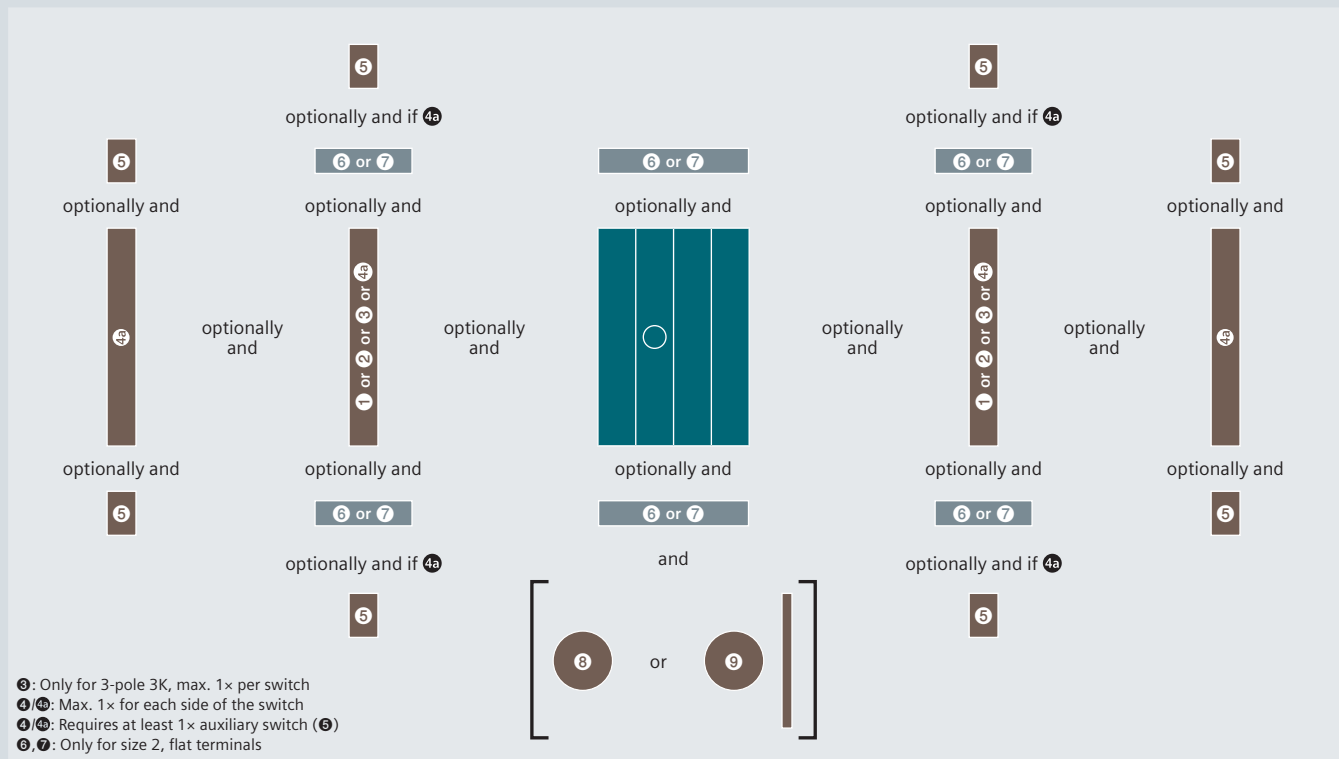
<sup>1)</sup> The N switching contact ❷ first has to be mounted on the basic unit

**Note:** Design with door-coupling rotary operating mechanism for sizes 01 and 02 only possible for basic unit without operating mechanism

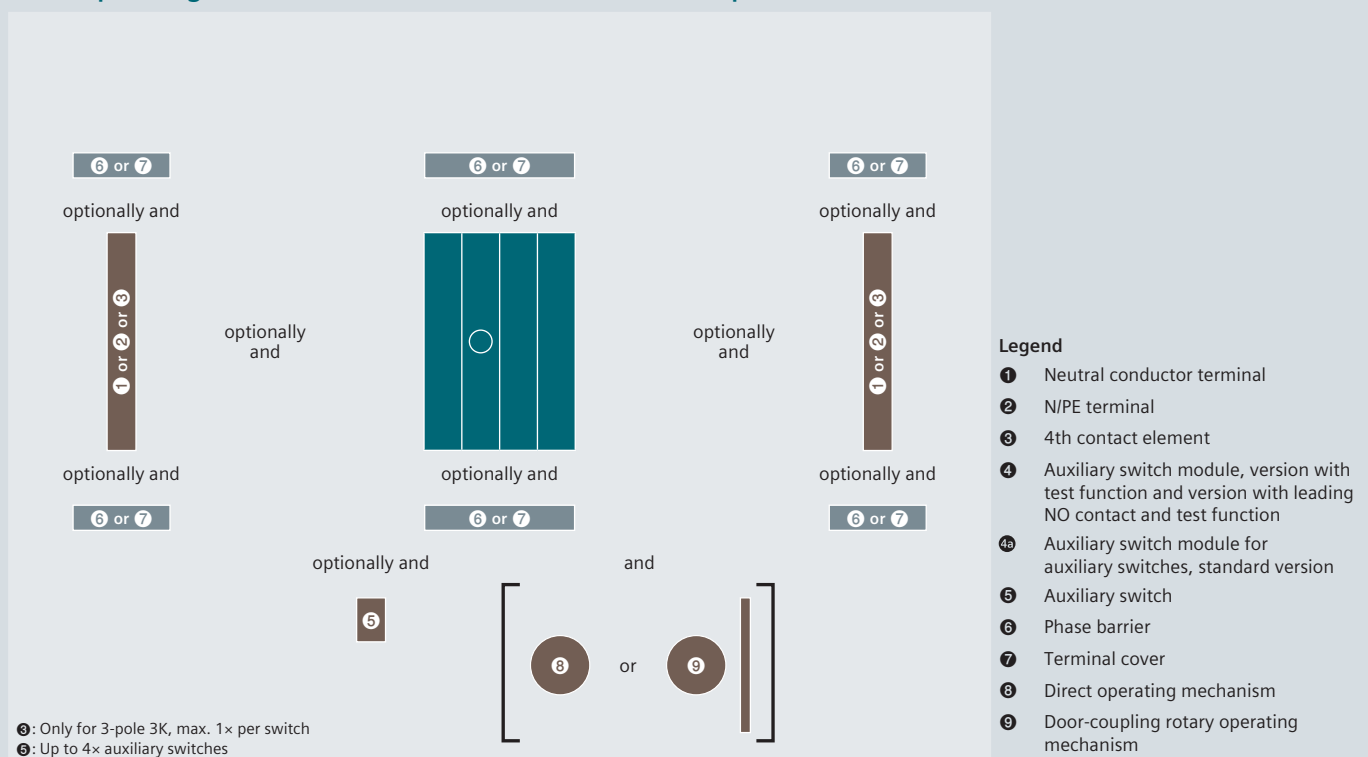
### Front operating mechanism left, sizes 1 and 2, 3/4-pole



## Front operating mechanism center, size 1 and 2, 3/4-pole



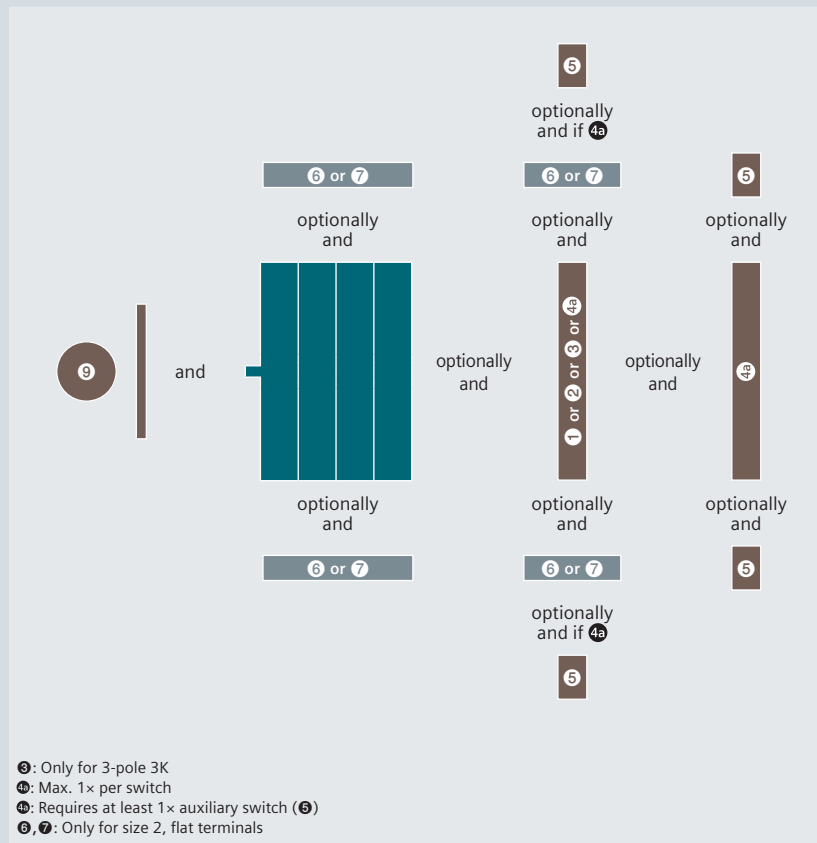
## Front operating mechanism center or left, sizes 3 to 5, 3/4-pole



# 3KD switch disconnectors

## Mounting concept and accessories

### Lateral operating mechanism left, sizes 1 and 2, 3/4-pole



### Lateral operating mechanism left, sizes 3 to 5, 3/4-pole

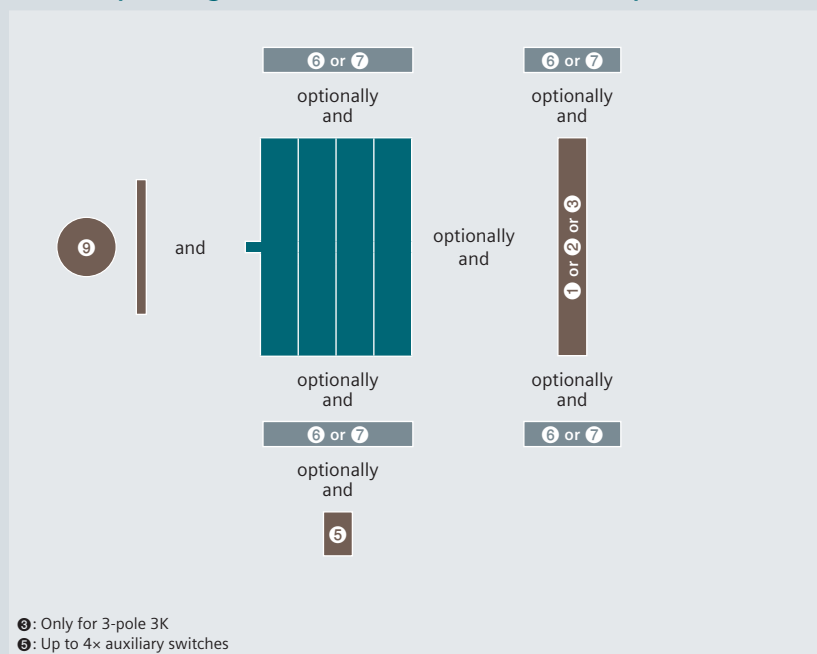




Diagram illustrating various terminal block configurations and connection options:

- Left Configuration:**
  - Top: Terminal block 5
  - Middle: Terminal block 4b (Max. 1x per switch)
  - Bottom: Terminal block 5
  - Connections: "optionally and" (between 5 and 4b), "optionally and" (between 4b and 5)
- Middle Configuration:**
  - Top: Terminal block 5
  - Middle: Terminal block 4b (Max. 1x per switch)
  - Bottom: Terminal block 5
  - Connections: "optionally and if 4a" (between 5 and 4b), "optionally and" (between 4b and 5)
- Right Configuration:**
  - Top: Terminal block 6 or 7
  - Middle: Terminal block 6 or 7
  - Bottom: Terminal block 6 or 7
  - Connections: "optionally and" (between 6 or 7 and 6 or 7), "optionally and" (between 6 or 7 and 6 or 7)

Legend:

- ④: Only for 3-pole 3K
- ④b: Max. 1x per switch
- ④b: Requires at least 1x auxiliary switch (⑤)
- ⑥, ⑦: Only for size 2, flat terminals

Diagram illustrating the layout of a 3-pole 3K switchgear unit and its connection to a 4K unit.

The 3K unit (left) consists of a main switch (3) and a busbar (6 or 7). The 4K unit (right) consists of a main switch (4) and a busbar (6 or 7). The busbars are connected to a common busbar (9) on the right. The diagram also shows auxiliary switches (5) and their connections to the busbars.

Legend:

- 3: Only for 3-pole 3K
- 5: Up to 4x auxiliary switches

# 3KD switch disconnectors

Complete assemblies with direct operating mechanisms



Drive, gray  
Front operating mechanism  
Center

Drive, gray  
Front operating mechanism  
Left

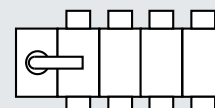
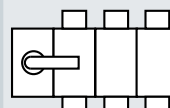
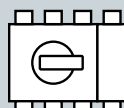
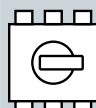
Number of poles

3P

4P

3P

4P



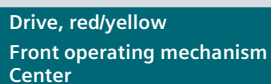
Size	Uninterrupted current I <sub>u</sub>				
Box terminals					
01 <b>new</b>	16 A	3KD0132-2KG20-3	3KD0142-2KG20-3	—	—
	32 A	3KD0232-2KG20-3	3KD0242-2KG20-3	—	—
	63 A	3KD0332-2KG20-3	—	—	—
02 <b>new</b>	63 A	3KD0332-2LG20-3	3KD0342-2LG20-3	—	—
	80 A	3KD0432-2LG20-3	3KD0442-2LG20-3	—	—
	100 A	3KD0532-2LG20-3	3KD0542-2LG20-3	—	—
	125 A	3KD0632-2LG20-3	3KD0642-2LG20-3	—	—
1	16 A	—	—	3KD1632-2ME10-0	3KD1642-2ME10-0
	32 A	—	—	3KD2232-2ME10-0	3KD2242-2ME10-0
	63 A	—	—	3KD2632-2ME10-0	3KD2642-2ME10-0
	80 A <b>new</b>	—	—	3KD2832-2ME10-0	3KD2842-2ME10-0
	100 A <b>new</b>	—	—	3KD3032-2ME10-0	3KD3042-2ME10-0
2	80 A	—	—	3KD2832-2NE10-0	3KD2842-2NE10-0
	100 A	—	—	3KD3032-2NE10-0	3KD3042-2NE10-0
	125 A	—	—	3KD3232-2NE10-0	3KD3242-2NE10-0
	160 A	—	—	3KD3432-2NE10-0	3KD3442-2NE10-0
Flat terminals					
2	80 A	—	—	3KD2832-0NE10-0	3KD2842-0NE10-0
	100 A	—	—	3KD3032-0NE10-0	3KD3042-0NE10-0
	125 A	—	—	3KD3232-0NE10-0	3KD3242-0NE10-0
	160 A	—	—	3KD3432-0NE10-0	3KD3442-0NE10-0
	200 A	—	—	3KD3632-0NE10-0	3KD3642-0NE10-0
	250 A <b>new</b>	—	—	3KD3832-0NE10-0	3KD3842-0NE10-0
3	200 A	—	—	3KD3632-0PE10-0	3KD3642-0PE10-0
	250 A	—	—	3KD3832-0PE10-0	3KD3842-0PE10-0
	315 A	—	—	3KD4032-0PE10-0	3KD4042-0PE10-0
	400 A	—	—	3KD4232-0PE10-0	3KD4242-0PE10-0
	500 A <b>new</b>	—	—	3KD4432-0PE10-0	3KD4442-0PE10-0
4	500 A	—	—	3KD4432-0QE10-0	3KD4442-0QE10-0
	630 A	—	—	3KD4632-0QE10-0	3KD4642-0QE10-0
	800 A	—	—	3KD4832-0QE10-0	3KD4842-0QE10-0
	1000 A <b>new</b>	—	—	3KD5032-0QE10-0	3KD5042-0QE10-0
5	1000 A	—	—	3KD5032-0RE10-0	3KD5042-0RE10-0
	1250 A	—	—	3KD5232-0RE10-0	3KD5242-0RE10-0
	1600 A	—	—	3KD5432-0RE10-0	3KD5442-0RE10-0
	2000 A <b>new</b>	—	—	3KD5632-0RE10-0	3KD5642-0RE10-0

## Scope of supply:

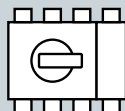
- Incl. terminal covers on input and output side for 3KD0 sizes 01 and 02
- Incl. phase barriers on the input and output side for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms

## Mounting:

- The switch disconnectors are designed for floor mounting and the sizes 01, 02, 1 and 2 can optionally also be mounted on standard mounting rails



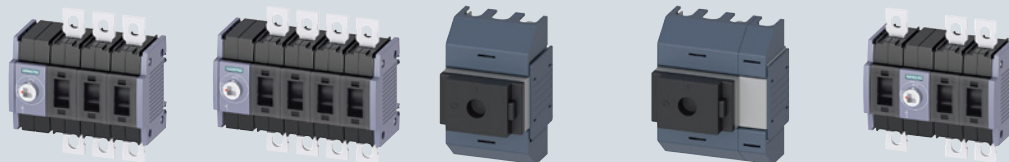
4P

[illegible]

- The complete assemblies with a direct operating mechanism are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose
- All basic units without handles are suitable for use with door-coupling rotary operating mechanisms, from size 1 to size 5 these can also be equipped with direct operating mechanisms
- The switch disconnectors with lateral operating mechanism are suitable for door-coupling rotary operating mechanisms
- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used

# 3KD switch disconnectors

## Basic units without handles



		Front operating mechanism Left		Front operating mechanism Center		
	Number of poles	3P	4P	3P	4P	3P
Size	Uninterrupted current I <sub>u</sub>					
Box terminals						
01 <b>new</b>	16 A	—	—	3KD0130-2KG20-3	3KD0140-2KG20-3	—
	32 A	—	—	3KD0230-2KG20-3	3KD0240-2KG20-3	—
	63 A	—	—	3KD0330-2KG20-3	—	—
02 <b>new</b>	63 A	—	—	3KD0330-2LG20-3	3KD0340-2LG20-3	—
	80 A	—	—	3KD0430-2LG20-3	3KD0440-2LG20-3	—
	100 A	—	—	3KD0530-2LG20-3	3KD0540-2LG20-3	—
	125 A	—	—	3KD0630-2LG20-3	3KD0640-2LG20-3	—
1	16 A	3KD1630-2ME10-0	3KD1640-2ME10-0	—	—	3KD1630-2ME20-0
	32 A	3KD2230-2ME10-0	3KD2240-2ME10-0	—	—	3KD2230-2ME20-0
	63 A	3KD2630-2ME10-0	3KD2640-2ME10-0	—	—	3KD2630-2ME20-0
	80 A <b>new</b>	3KD2830-2ME10-0	3KD2840-2ME10-0	—	—	3KD2830-2ME20-0
	100 A <b>new</b>	3KD3030-2ME10-0	3KD3040-2ME10-0	—	—	3KD3030-2ME20-0
2	80 A	3KD2830-2NE10-0	3KD2840-2NE10-0	—	—	3KD2830-2NE20-0
	100 A	3KD3030-2NE10-0	3KD3040-2NE10-0	—	—	3KD3030-2NE20-0
	125 A	3KD3230-2NE10-0	3KD3240-2NE10-0	—	—	3KD3230-2NE20-0
	160 A	3KD3430-2NE10-0	3KD3440-2NE10-0	—	—	3KD3430-2NE20-0
Flat terminals						
2	80 A	3KD2830-0NE10-0	3KD2840-0NE10-0	—	—	3KD2830-0NE20-0
	100 A	3KD3030-0NE10-0	3KD3040-0NE10-0	—	—	3KD3030-0NE20-0
	125 A	3KD3230-0NE10-0	3KD3240-0NE10-0	—	—	3KD3230-0NE20-0
	160 A	3KD3430-0NE10-0	3KD3440-0NE10-0	—	—	3KD3430-0NE20-0
	200 A	3KD3630-0NE10-0	3KD3640-0NE10-0	—	—	3KD3630-0NE20-0
	250 A <b>new</b>	3KD3830-0NE10-0	3KD3840-0NE10-0	—	—	3KD3830-0NE20-0
3	200 A	3KD3630-0PE10-0	3KD3640-0PE10-0	—	—	3KD3630-0PE20-0
	250 A	3KD3830-0PE10-0	3KD3840-0PE10-0	—	—	3KD3830-0PE20-0
	315 A	3KD4030-0PE10-0	3KD4040-0PE10-0	—	—	3KD4030-0PE20-0
	400 A	3KD4230-0PE10-0	3KD4240-0PE10-0	—	—	3KD4230-0PE20-0
	500 A <b>new</b>	3KD4430-0PE10-0	3KD4440-0PE10-0	—	—	3KD4430-0PE20-0
4	500 A	3KD4430-0QE10-0	3KD4440-0QE10-0	—	—	3KD4430-0QE20-0
	630 A	3KD4630-0QE10-0	3KD4640-0QE10-0	—	—	3KD4630-0QE20-0
	800 A	3KD4830-0QE10-0	3KD4840-0QE10-0	—	—	3KD4830-0QE20-0
	1000 A <b>new</b>	3KD5030-0QE10-0	3KD5040-0QE10-0	—	—	3KD5030-0QE20-0
5	1000 A	3KD5030-0RE10-0	3KD5040-0RE10-0	—	—	3KD5030-0RE20-0
	1250 A	3KD5230-0RE10-0	3KD5240-0RE10-0	—	—	3KD5230-0RE20-0
	1600 A	3KD5430-0RE10-0	3KD5440-0RE10-0	—	—	3KD5430-0RE20-0
	2000 A <b>new</b>	3KD5630-0RE10-0	3KD5640-0RE10-0	—	—	3KD5630-0RE20-0

### Scope of supply:

- Incl. terminal covers on input and output side for 3KD0 sizes 01 and 02
- Incl. phase barriers on the input and output side for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms

### Mounting:

- The switch disconnectors are designed for floor mounting and the sizes 01, 02, 1 and 2 can optionally also be mounted on standard mounting rails



Front operating mechanism Center		Lateral operating mechanism Left		Right	
4P	6P for DC applications	3P	4P	3P	4P
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
3KD1640-2ME20-0	3KD1660-2ME20-0	3KD1634-2ME10-0	3KD1644-2ME10-0	3KD1634-2ME40-0	3KD1644-2ME40-0
3KD2240-2ME20-0	3KD2260-2ME20-0	3KD2234-2ME10-0	3KD2244-2ME10-0	3KD2234-2ME40-0	3KD2244-2ME40-0
3KD2640-2ME20-0	3KD2660-2ME20-0	3KD2634-2ME10-0	3KD2644-2ME10-0	3KD2634-2ME40-0	3KD2644-2ME40-0
3KD2840-2ME20-0	–	3KD2834-2ME10-0	3KD2844-2ME10-0	3KD2834-2ME40-0	3KD2844-2ME40-0
3KD3040-2ME20-0	–	3KD3034-2ME10-0	3KD3044-2ME10-0	3KD3034-2ME40-0	3KD3044-2ME40-0
3KD2840-2NE20-0	3KD2860-2NE20-0	3KD2834-2NE10-0	3KD2844-2NE10-0	3KD2834-2NE40-0	3KD2844-2NE40-0
3KD3040-2NE20-0	3KD3060-2NE20-0	3KD3034-2NE10-0	3KD3044-2NE10-0	3KD3034-2NE40-0	3KD3044-2NE40-0
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3KD3440-2NE20-0	3KD3460-2NE20-0	3KD3434-2NE10-0	3KD3444-2NE10-0	3KD3434-2NE40-0	3KD3444-2NE40-0
3KD2840-0NE20-0	3KD2860-0NE20-0	3KD2834-0NE10-0	3KD2844-0NE10-0	3KD2834-0NE40-0	3KD2844-0NE40-0
3KD3040-0NE20-0	3KD3060-0NE20-0	3KD3034-0NE10-0	3KD3044-0NE10-0	3KD3034-0NE40-0	3KD3044-0NE40-0
3KD3240-0NE20-0	3KD3260-0NE20-0	3KD3234-0NE10-0	3KD3244-0NE10-0	3KD3234-0NE40-0	3KD3244-0NE40-0
3KD3440-0NE20-0	3KD3460-0NE20-0	3KD3434-0NE10-0	3KD3444-0NE10-0	3KD3434-0NE40-0	3KD3444-0NE40-0
3KD3640-0NE20-0	–	3KD3634-0NE10-0	3KD3644-0NE10-0	3KD3634-0NE40-0	3KD3644-0NE40-0
3KD3840-0NE20-0	–	3KD3834-0NE10-0	3KD3844-0NE10-0	3KD3834-0NE40-0	3KD3844-0NE40-0
3KD3640-0PE20-0	3KD3660-0PE20-0	3KD3634-0PE10-0	3KD3644-0PE10-0	3KD3634-0PE40-0	3KD3644-0PE40-0
3KD3840-0PE20-0	3KD3860-0PE20-0	3KD3834-0PE10-0	3KD3844-0PE10-0	3KD3834-0PE40-0	3KD3844-0PE40-0
3KD4040-0PE20-0	3KD4060-0PE20-0	3KD4034-0PE10-0	3KD4044-0PE10-0	3KD4034-0PE40-0	3KD4044-0PE40-0
3KD4240-0PE20-0	3KD4260-0PE20-0	3KD4234-0PE10-0	3KD4244-0PE10-0	3KD4234-0PE40-0	3KD4244-0PE40-0
3KD4440-0PE20-0	–	3KD4434-0PE10-0	3KD4444-0PE10-0	3KD4434-0PE40-0	3KD4444-0PE40-0
3KD4440-0QE20-0	3KD4460-0QE20-0	3KD4434-0QE10-0	3KD4444-0QE10-0	3KD4434-0QE40-0	3KD4444-0QE40-0
3KD4640-0QE20-0	3KD4660-0QE20-0	3KD4634-0QE10-0	3KD4644-0QE10-0	3KD4634-0QE40-0	3KD4644-0QE40-0
3KD4840-0QE20-0	3KD4860-0QE20-0	3KD4834-0QE10-0	3KD4844-0QE10-0	3KD4834-0QE40-0	3KD4844-0QE40-0
3KD5040-0QE20-0	–	3KD5034-0QE10-0	3KD5044-0QE10-0	3KD5034-0QE40-0	3KD5044-0QE40-0
3KD5040-0RE20-0	3KD5060-0RE20-0	3KD5034-0RE10-0	3KD5044-0RE10-0	3KD5034-0RE40-0	3KD5044-0RE40-0
3KD5240-0RE20-0	3KD5260-0RE20-0	3KD5234-0RE10-0	3KD5244-0RE10-0	3KD5234-0RE40-0	3KD5244-0RE40-0
3KD5440-0RE20-0	3KD5460-0RE20-0	3KD5434-0RE10-0	3KD5444-0RE10-0	3KD5434-0RE40-0	3KD5444-0RE40-0
3KD5640-0RE20-0	–	3KD5634-0RE10-0	3KD5644-0RE10-0	3KD5634-0RE40-0	3KD5644-0RE40-0

**Note:**

- The complete assemblies with a direct operating mechanism are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose
- All basic units without handles are suitable for use with door-coupling rotary operating mechanisms, from size 1 to size 5 these can also be equipped with direct operating mechanisms
- The switch disconnectors with lateral operating mechanism are suitable for door-coupling rotary operating mechanisms
- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used


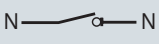

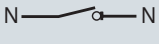








# 3KD switch disconnectors

## Accessories





### Additional poles

#### Note:

- Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right. Accordingly, an auxiliary switch module must not be mounted between the basic unit and an additional pole on sizes 1 and 2.
- For installation, it is important to note that only a 3-pole 3KD switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).

		Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
<b>4th contact elements (switching pole)</b>								
<ul style="list-style-type: none"> <li>For upgrading a 3-pole to a 4-pole switch disconnector</li> <li>For sizes 1 to 5, identical to the factory-fitted poles</li> <li>For sizes 01 and 02, leading switch-on, lagging switch-off</li> <li>Sizes 01 and 02 equipped at the factory with terminal covers for the input and output side.</li> </ul>								
<b>Connection</b>		<b>Article No.</b>						
 Box terminals 		3KD9015-2 <b>new</b>	■					
		3KD9025-2 <b>new</b>		■				
		3KD9105-2			■			
		3KD9205-2				■		
 Flat terminals 		3KD9205-0			■			
		3KD9305-0				■		
		3KD9405-0					■	
		3KD9505-0						■
<b>N terminals (neutral conductor terminal) with removable jumper</b>								
<ul style="list-style-type: none"> <li>A jumper can be removed in order to interrupt the electrical connection between the terminals</li> </ul>								
<b>Connection</b>		<b>Article No.</b>						
 Box terminals 		3KD9106-2			■			
		3KD9206-2				■		
 Flat terminals 		3KD9206-0			■			
		3KD9306-0				■		
		3KD9406-0					■	
		3KD9506-0						■
<b>N/PE terminals with permanent jumper</b>								
<ul style="list-style-type: none"> <li>Permanent electrical connection between the terminals, cannot be broken</li> </ul>								
<b>Connection</b>		<b>Article No.</b>						
 Box terminals 		3KD9016-8 <b>new</b>	■					
		3KD9026-8 <b>new</b>		■				
		3KD9106-8			■			
		3KD9206-8				■		
 Flat terminals 		3KD9206-7			■			
		3KD9306-7				■		
		3KD9406-7					■	
		3KD9506-7						■

## Operating mechanisms

Operating mechanisms					Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5	
Direct operating mechanisms, standard version												
<ul style="list-style-type: none"><li>Can be locked with up to 3 padlocks</li><li>Requires additional mounting depth in locked state</li></ul>												
	Labeling	Color	Article No.									
	Test–O–I	Gray	3KD9101-1					■				
			3KD9201-1						■			
			3KD9301-1							■		
			3KD9401-1								■	
			3KD9501-1								■	
	Red/yellow	3KD9101-2					■					
		3KD9201-2						■				
		3KD9301-2							■			
		3KD9401-2								■		
3KD9501-2									■			
Direct operating mechanisms, flat version												
<ul style="list-style-type: none"><li>Suitable for distribution boards</li><li>Can be locked with 1 padlock</li><li>No additional mounting depth in locked state</li></ul>												
	Labeling	Color	Article No.									
	Test–O–I	Gray	3KD9101-0					■				
			3KD9201-0						■			
	Red/yellow	3KD9101-8					■					
		3KD9201-8						■				
	Direct operating mechanisms, distribution boards											
	Number of poles	Color	Article No.									
	3-pole	Gray	3KD9011-0C			■						
		Red/yellow	3KD9011-8C			■						
	4-pole	Gray	3KD9011-0D			■						
Red/yellow		3KD9011-8D			■							
Door-coupling rotary operating mechanisms, complete												
<ul style="list-style-type: none"><li>Scope of supply:<ul style="list-style-type: none"><li>Handle with masking plate (Sizes 01 and 02 without test function)</li><li>Coupling driver</li><li>Shaft 300 mm</li></ul></li><li>Can be locked with up to 3 padlocks</li></ul>												
	Labeling	Tolerance compensation	Defeat function	Color	Article No.							
	O–I	With <b>new</b>	With	Gray	8UD1171-1AD21		■	■				
				Red/yellow	8UD1171-1AD25		■	■				
		Without	Without	Gray	3KD9001-5 <b>new</b>		■	■				
				Red/yellow	3KD9001-6 <b>new</b>		■	■				
			With	Gray	8UD1171-1AD21				■	■		
				Red/yellow	8UD1171-1AD25					■	■	
	Test–O–I	With	With	Gray	8UD1171-2AF21				■	■		
					8UD1141-2AF21						■	
					8UD1151-3AF21							■
					8UD1161-4AF21							■
				Red/yellow	8UD1171-2AF25				■	■		
					8UD1141-2AF25						■	
					8UD1151-3AF25							■
				8UD1161-4AF25								■

### Note:





- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used
- The door-coupling rotary operating mechanisms of the 3KD90 type are mounted on the inside of the door by means of center-hole mounting




# 3KD switch disconnectors

## Accessories

### Accessories for door-coupling rotary operating mechanisms




Size 01 Size 02 Size 1 Size 2 Size 3 Size 4 Size 5

Handles												
<ul style="list-style-type: none"><li>Supplied with a masking frame, but without an extension shaft or coupling driver</li><li>Can be locked with up to 3 padlocks</li></ul>												
    	Labeling	Lighting	Color	Article No.								
	O–I	Without	Gray	8UD1771-2AD01	■	■	■	■				
				8UD1841-2AD01					■			
				8UD1851-3AD01						■		
				8UD1861-4AD01							■	
			Red/yellow	8UD1771-2AD05	■	■	■	■				
				8UD1841-2AD05					■			
		With	Gray	8UD1851-3AD05						■		
				8UD1861-4AD05							■	
				8UD1771-2CD01				■	■			
				8UD1841-2CD01					■			
			Red/yellow	8UD1851-3CD01							■	
				8UD1861-4CD01								■
	Test–O–I	Without	Gray	8UD1771-2CD05				■	■			
				8UD1841-2CD05					■			
				8UD1851-3CD05							■	
				8UD1861-4CD05								■
			Red/yellow	8UD1771-2CF01				■	■			
				8UD1841-2CF01					■			
		With	Gray	8UD1851-3CF01							■	
				8UD1861-4CF01								■
				8UD1771-2CF05				■	■			
				8UD1841-2CF05					■			
			Red/yellow	8UD1851-3CF05							■	
8UD1861-4CF05											■	






Extension shafts												
<ul style="list-style-type: none"><li>A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 01, 02, 1 and 2</li></ul>												
  	Length	Article No.										
	300 mm	3KD9002-0 <span>new</span>		■	■							
		8UC6032					■	■	■			
		8UC6033									■	
		8UC6034										■
	600 mm	3KD9002-1 <span>new</span>		■	■							
		8UC6082					■	■	■			
		8UC6083									■	
		8UC6084										■
		Shaft jack for 8UD1 handle										
		Version	Article No.									
	For shaft 600 mm	8UD1900-0FA00		■	■	■	■					



## Accessories for door-coupling rotary operating mechanisms

			Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
<b>Coupling drivers</b>									
	<b>Version</b>	<b>Article No.</b>							
	With tolerance compensation	8UD1900-1GA00 <b>new</b>	■	■					
		8UD1900-2GA00			■	■			
		8UD1900-6GA00					■		
		8UD1900-3GA00						■	
		8UD1900-4GA00							■
	Without tolerance compensation	8UD1900-1HA00 <b>new</b>	■	■					
		8UD1900-2HA00			■	■			
		8UD1900-6HA00					■		
		8UD1900-3HA00						■	
		8UD1900-4HA00							■
<b>Shaft couplings</b>									
		<b>Article No.</b>							
		8UC6022			■	■	■		
		8UC6023						■	
		8UC6024							■

## Other accessories and spare parts

			Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
<b>Auxiliary switch modules</b>									
	<ul style="list-style-type: none"> <li>Auxiliary switch modules are supplied without auxiliary switches. A maximum of 2 auxiliary switches can be installed per auxiliary module</li> <li>The 3KD9103-6 and 3KD9103-7 auxiliary switch modules can only be used with 3KD directly on the operating mechanism if the operating mechanism is on the front or on the left</li> </ul>								
	<b>Variant</b>	<b>Article No.</b>							
	Standard version	3KD9103-5			■	■			
	With test function	3KD9103-6			■	■			
	With leading NO contact and test function	3KD9103-7			■	■			
<b>Auxiliary switches</b>									
   	<ul style="list-style-type: none"> <li>Auxiliary switches for sizes 01 and 02 are snapped onto the side of the switches</li> <li>Auxiliary switches for sizes 3 to 5 have screw terminals and are mounted on the operating mechanism module of the 3KD. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see Operating Instructions).</li> </ul>								
	<b>Variant</b>	<b>Contacts</b>	<b>Contact surface</b>	<b>Article No.</b>					
	With connecting cables	1 CO	Standard	3KD9103-1			■	■	
			Solid-state compatible	3KD9103-3			■	■	
	Without connecting cables	1 NO + 1 NC	Standard	3KD9003-2 <b>new</b>	■	■			
			Solid-state compatible	3KD9003-4 <b>new</b>	■	■			
		1 CO	Standard	3KD9103-2			■	■	
			Solid-state compatible	3KD9103-4			■	■	
		1 NO	Standard	3SU1400-1AA10-1BA0				■	■
			Gold-plated	3SU1400-1AA10-1LA0				■	■
		1 NC	Standard	3SU1400-1AA10-1CA0				■	■
			Gold-plated	3SU1400-1AA10-1MA0				■	■
		1 NO + 1 NC	Standard	3SU1400-1AA10-1FA0				■	■
			Gold-plated	3SU1400-1AA10-1QA0				■	■
		2 NO	Standard	3SU1400-1AA10-1DA0				■	■
			Gold-plated	3SU1400-1AA10-1NA0				■	■
		2 NC	Standard	3SU1400-1AA10-1EA0				■	■
			Gold-plated	3SU1400-1AA10-1PA0				■	■

# 3KD switch disconnectors

## Accessories

### Other accessories and spare parts

Size 01 Size 02 Size 1 Size 2 Size 3 Size 4 Size 5

#### Phase barriers



- For 3KD with flat terminals
- For 3KD size 2 with flat terminals, phase barriers are already contained in the scope of supply

##### Version Scope of supply Article No.

For 3-pole devices 6 units

Article No.

3KD9108-6

3KD9308-6

3KD9408-6

3KD9508-6

For 4-pole devices 8 units

3KD9108-8

3KD9308-8

3KD9408-8

3KD9508-8

#### Klemmenabdeckungen



- For sizes 01 and 02, terminal covers are already part of the scope of supply and must therefore only be used as spare parts
- For 3KD with flat terminals
- Not permissible for 2000 A devices

##### Version Scope of supply Variante Article No.

For 1-pole devices 4 units

new

3KD9014-1B

3KD9024-1B

For 3-pole devices 4 units

3KD9014-3B

For 3-pole devices 6 units

Standard length

3KD9204-6

3KD9304-6

3KD9404-6

3KD9504-6

Short version

3KD9204-7

3KD9304-7

3KD9404-7

For 4-pole devices 8 units

Standard length

3KD9204-8

3KD9304-8

3KD9404-8

3KD9504-8

Short version

3KD9204-5

3KD9304-5

3KD9404-5

#### Spare part for terminal covers



- Not permissible for 2000 A devices

##### Scope of supply Variante Article No.

1 unit

Standard length

3KD9504-1

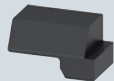
Short version

3KD9204-1

3KD9304-1

3KD9404-1

#### Blocking pin test function



- Enables permanent deactivation of the test function for auxiliary switches
- It is installed in the operating mechanism module of the 3KD switch disconnector

##### Scope of supply Article No.

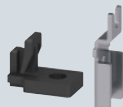
10 units

3KF9112-1AA00

3KF9412-1AA00

3KF9512-1AA00

#### Mounting brackets



- Spare part, included in the scope of supply of the 3KD

##### Scope of supply Article No.

4 units


3KD9120-1

3KF9212-0AA00



3KF9412-0AA00

3KF9512-0AA00

## Other accessories and spare parts

		Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
<b>Slide for mounting on a standard mounting rail</b>								
	<ul style="list-style-type: none"> <li>Spare part, included in the scope of supply of the 3KD</li> </ul>							
	<b>Scope of supply</b>	<b>Article No.</b>						
	5 units	3KF9112-0BA00			■	■		

## Accessories for DC applications

Accessories for DC applications		Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
Connecting bridges								
	<ul style="list-style-type: none"><li>Suitable for connecting two poles</li><li>For 3KD switch disconnectors with 400 A, 800 A, 1250 A and 1600 A, two units are required.</li></ul>							
	Connection	Article No.						
	Box terminals	3KD9118-1			■			
		3KD9218-1				■		
	Flat terminals	3KD9218-0				■		
		3KD9318-0					■	
	3KD9418-0						■	
	3KD9518-0							■
Terminal covers for connecting bridges								
	<ul style="list-style-type: none"><li>For 3KD with flat terminals</li></ul>							
	Article No.							
		3KD9204-0				■		
		3KD9304-0					■	
		3KD9404-0						■
		3KD9504-0						■

# 5TE1 switch disconnectors

## System overview

### Switch disconnectors



Transparent



Red/yellow

### Accessories



Auxiliary switches



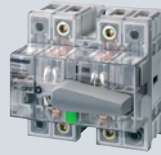
Cage terminals



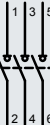
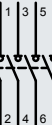
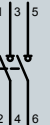
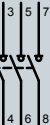


Terminal covers

**Note:**

You will find a detailed range of accessories with the basic units.

18 ... 33 kA<sub>rms</sub>

			Switch disconnectors, transparent				Switch disconnectors, red/yellow	
			Number of poles	2P	3P	3P+N	4P	3P
								
Mounting width	Rated operational current I <sub>e</sub>	Rated operational voltage U <sub>e</sub>						
5 MW	100 A	690 V	5TE1210	5TE1310	5TE1610	5TE1410	5TE1315	5TE1415
	125 A	690 V	5TE1220	5TE1320	5TE1620	5TE1420	5TE1325	5TE1425
8 MW	160 A	690 V	5TE1230	5TE1330	5TE1630	5TE1430	5TE1335	5TE1435
	200 A	690 V	5TE1240	5TE1340	5TE1640	5TE1440	5TE1345	5TE1445

## Accessories

### Auxiliary switches



- Can be mounted optionally left or right or on both sides (2 units)

Contact load	Contacts	I <sub>e</sub>	U <sub>e</sub>	Article No.
Min. 24 V, 50 mA	1 CO	6 A	230 V	5TE9005
	2 CO	6 A	230 V	5TE9006

### Rotary operating mechanisms with extension shafts



- For mounting on hinged doors or enclosure lids, lockable

Degree of protection	Color	Shaft length	Article No.
IP65	Black knob	200 mm	5TE9010
		400 mm	5TE9011
	Red knob	200 mm	5TE9012
		400 mm	5TE9013

### Conversion kit, 4-pole



- For connection of busbars or cables with cable lugs
- For busbars max. 15 mm wide including terminal cover

Version	Article No.
For 100 A and 125 A switch disconnectors	5TE9015

### Cage terminals



- Terminal diameter 14.5 mm for 35-mm<sup>2</sup> cables
- Hexagon socket-head screw 5 mm

Version	Number of poles	Scope of supply	Article No.
For 160 A and 200 A switch disconnectors	3-pole	1 set = 3 units	5TE9003
	4-pole	1 set = 4 units	5TE9004

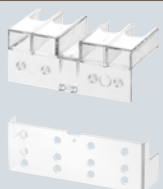
### Locking units



- For up to three padlocks with max. diam. 8 mm

Article No.
5TE9014

### Terminal covers, sealable



Version	Article No.
For 100 A and 125 A switch disconnectors	5TE9000
For 160 A and 200 A switch disconnectors	5TE9001

# Fuse switch disconnectors

## Quick selection guide



3NP1



Size

000

00

1

2

3

### General technical details acc. to IEC 60947-3

#### Basic data

Rated uninterrupted current $I_n$	A	160 <sup>2)</sup>	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
Rated operational voltage $U_e$	At 50/60 Hz AC	V		690		
	At DC (3 conducting paths in series)	V		440		
	At DC (2 conducting paths in series)	V		240		
	At DC	V		–		
	For utilization category AC-20B or DC-20B	V		690 <sup>1)</sup>		

#### Operating and short-circuit behavior

Rated operational current $I_e$	At AC-21B, 400 V AC	A	160 <sup>2)</sup>	160	250	400	630
	At AC-22B, 400 V AC	A	160 <sup>2)</sup>	160	250	400	630
	At AC-23B, 400 V AC	A	160 <sup>2)</sup>	160	250	400	630
	At AC-21B, 500 V AC	A	160 <sup>2)</sup>	160	250	400	630
	At AC-22B, 500 V AC	A	125 <sup>2)</sup>	160	250	400	630
	At AC-23B, 500 V AC	A	40	63	200	315	500
	At AC-21B, 690 V AC	A	160 <sup>2)</sup>	160	250	400	630
	At AC-22B, 690 V AC	A	50	125	250	400	500
	At AC-23B, 690 V AC	A	25	35	100	125	200
	At DC-21B (2 conducting paths in series), 240 V DC	A	160 <sup>2)</sup>	160	250	400	630
	At DC-22B (2 conducting paths in series), 240 V DC	A	100	160	250	400	630
	At DC-23B (2 conducting paths in series), 240 V DC	A	80	100	200	250	400
	At DC-21B (3 conducting paths in series), 440 V DC	A	100	160	250	400	630
	At DC-22B (3 conducting paths in series), 440 V DC	A	50	125	200	315	500
	At DC-23B (3 conducting paths in series), 440 V DC	A	25	63	100	160	250
Rated conditional short-circuit current with fuses (by fast switch on)	Rated current at 400 V/500 V/690 V	kA	80/80/80	80/80/80	80/80/50	80/80/50	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)	Rated current at 500 V/690 V	kA	120/100	120/100	120/100	100/100	100/100
	Permissible let-through $I^2t$ value of the fuses	kA <sup>2</sup> s	223	223	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 short-time withstand current $I_{cw}$		kA	–	–	–	–	–
Rated insulation voltage $U_i$		V	690 <sup>1)</sup>	690 <sup>1)</sup>	690 <sup>1)</sup>	690 <sup>1)</sup>	690 <sup>1)</sup>
Rated impulse withstand voltage $U_{imp}$		kV	8	8	8	8	8
Power loss per pole of the switch at $I_{th}$ (without fuses)		W	5	5	8	14	30
Maximum power loss of the usable fuses (per fuse)		W	7.5 <sup>3)</sup>	12	23	34	48
Mechanical endurance, operating cycles			2000	2000	1600	1000	1000

#### Degree of protection

Without masking plate or terminal cover – switch closed / open	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20
With masking plate or terminal cover – switch closed / open	IP40/IP20	IP40/IP20	IP40/IP20	IP40/IP20	IP40/IP20

#### Certifications and approvals

VDE, CCC, LR, c US

#### More information

Catalog LV 10 – 10/2020

see page 8/82

The technical specifications apply to the standard types stated below.  
For the complete specifications for all versions, see the Online Support

3NP1: 3-pole and 4-pole devices without fuse monitoring

3NP5: Devices without fuse monitoring

3NJ4/5: Disconnectors for cable and line protection without fuse monitoring, not for transformer protection

<sup>1)</sup> Applies to degree of pollution 3  
(for degree of pollution 2, use up to  $U_i$  1000 V possible)

<sup>2)</sup> Only with use of the infeed terminal, otherwise up to 100 A

<sup>3)</sup> Max. 9 W for operation up to 160 A

## 3NP5



## 3NJ4/3NJ5



## 5SG76



00	1	2	3	00	1	2	3	4a	D01
160	250	400	630	160	250	400	630	1250	16
00	1 and 0	2 and 1	3 and 2	00 and 000	1 and 0	2 and 1	3 and 2	4a	D01
	690					690			400, 415
	440					–			–
	220					–			110
	–					–			48
	690					–			–
160	250	400	630	160	250	400	630	1250	16
160	250	400	630	160	250	400	630	1250	16
160	250	400	630	–	250	400	–	–	–
160	250	400	630	160	250	400	630	1250	–
160	250	400	630	160	250	400	630	1250	–
160	250	400	630	–	–	–	–	–	–
160	250	400	630	100	250	400	630	1250	–
160	250	400	630	100	250	–	–	–	–
100	160	315	400	–	–	–	–	–	–
160	250	400	630	–	–	–	–	–	–
160	250	400	630	–	–	–	–	–	–
160	250	400	630	–	–	–	–	–	–
160	250	400	630	–	–	–	–	–	–
160	250	400	630	–	–	–	–	–	–
160	250	400	630	–	–	–	–	–	–
50/50/–	50/50/–	50/50/–	50/50/–	–	–	–	–	–	50/–/–
15	25	40	50	–	–	–	–	–	–
100/–	100/–	50/–	50/–	80	120	120	120	80	–
223	780	2150	5400	–	–	–	–	–	–
23	32	40	60	–	–	–	–	–	–
6	17	17	17	–	–	–	–	–	–
–	–	–	–	–	14.5	14.5	14.5	35	–
690 <sup>1)</sup>	690 <sup>1)</sup>	690 <sup>1)</sup>	690 <sup>1)</sup>	800	1000	1000	1000	1000	400
6	6	6	6	8	12	12	12	12	2.5
7.8	7.5	15	39	18	23	54	115	190	–
12	23	34	48	12	32	45	48	110	2.5
1600	1600	1600	1600	1400	1400	800	800	500	–
IP00/IP00	IP00/IP00	IP00/IP00	IP00/IP00	IP00/IP00	IP00/IP00	IP00/IP00	IP00/IP00	IP00/IP00	IP20/IP20
IP30/IP10	IP30/IP10	IP30/IP10	IP30/IP10	IP30/IP10	IP30/IP10	IP30/IP10	IP30/IP10	IP10/IP00	IP20/IP20
CCC									
see page 8/96				see page 8/100				see page 8/112	

# 3NP1 fuse switch disconnectors

## System overview

### Basic units



1, 3, 4-pole for floor mounting



3 and 4-pole mounting on busbar systems

### Connection parts



Terminals for retrofitting to 3NP1



Auxiliary conductor connections

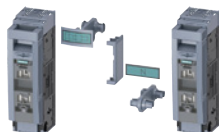


Three-phase busbars

### Assembly kits



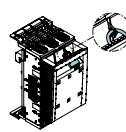
Standard rail mounting



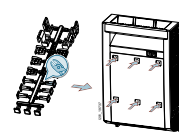
Mechanical connection



1/4-pole busbar mounting



Locking function

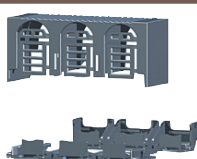


Protection against power theft

### Masking frames and covers



Masking frames and supports



Cable connection covers



Reach-around protection for busbar

### Other accessories



Auxiliary switches



Isolating blades



Fuse carriers with and without fuse monitoring

#### Note:

You will find a detailed range of accessories with the basic units.



## General information



### Modular design

Directly to 3NP1  
configurator under:  
[sie.ag/3IIXQZH](https://sie.ag/3IIXQZH)



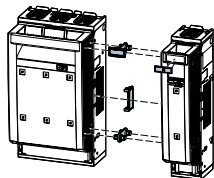
The 3NP1 fuse switch disconnector has a modular design. A wide variety of switch combinations can be created by connecting two devices or by subsequently fitting accessories. All common switch combinations are available from the factory ready for installation and can be found on the following ordering overviews. An overview of the possibilities offered by the modular design is provided on these information pages.

The fastest and simplest way to find the right switch combination is to use our 3NP1 configurator in the Siemens Industry Mall.



### Number of poles

You will find further  
information under:  
[sie.ag/2UlrAvy](https://sie.ag/2UlrAvy)



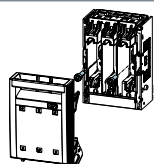
3NP1 fuse switch disconnectors are available from the factory in 1, 3 and 4-pole device versions. 4-pole types are available in all common versions from the factory ready for installation (without fuse monitoring, N-pole on the right-hand side).

All other conceivable device combinations, such as 2-pole 3NP1s, 4-pole with fuse monitoring or with a neutral conductor on the left-hand side can simply be put together on site by combining two 3NP1s. All that is needed for this in addition to the two 3NP1 basic units is the matching connection assembly kit (see accessories).



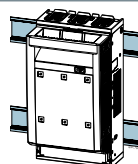
### Floor mounting and standard mounting rail

You will find further  
information under:  
[sie.ag/2UlrAvy](https://sie.ag/2UlrAvy)



All sizes of the 3NP1 fuse switch disconnectors are available in floor mounting versions.

The 3NP1 is mounted on a mounting panel with screws.



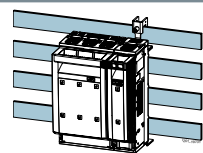
The devices for floor mounting of sizes 000, 00 and 1 can also be mounted on a standard mounting rail using accessories. For this purpose, the assembly kit for mounting on a standard mounting rail is simply mounted on the rear panel of the 3NP1.

# 3NP1 fuse switch disconnectors

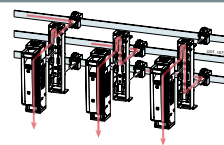
## General information



### Mounting on busbar systems



3-pole and 4-pole 3NP1 are available for mounting on busbar systems. In the case of 4-pole devices, the infeed for the fourth pole is supplied by the neutral conductor bar located above the 3 phases.



You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)

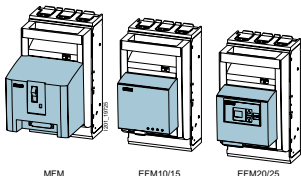


1-pole 3NP1 devices for wall mounting in sizes 000 and 00 can be adapted to the 8US 60 mm busbar system using the assembly kit for 1-pole busbar mounting. Due to the modular design of the assembly kit, any phase can be selected for the infeed.



### Fuse monitoring

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



The fuse monitoring is used to detect, indicate and signal that a fuse has tripped.

The fuse monitors are permanently installed on the handle of the 3NP1. They have floating contacts for remote signaling of a tripped fuse and also indicate this locally.

Various versions of fuse monitors are available, which can be selected to suit the requirements of the application (functionality, see table).

**MFM** electromechanical fuse monitoring with an installed SIRIUS circuit breaker

**EFM** electronic fuse monitoring with evaluation electronics

The EFM15 series is a cost-optimized version of the EFM10. EFM20/25 are versions with additional functions (display indication, detection and signaling of overvoltage/undervoltage with adjustable limits, phase failure detection).

Common combinations of the 3NP1 basic unit and fuse monitoring are available from the factory ready for installation. A fuse monitor can also be easily retrofitted by replacing the fuse carrier. (Fuse carriers for all fuse monitoring versions are available as accessories.)

#### Note

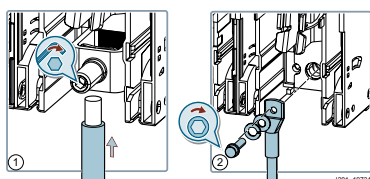
Fuses with insulated grip lugs cannot be used for 3NP1 with fuse monitoring.

		MFM 3-pole	EFM10 3-pole	EFM15				EFM20 3-pole	EFM25 3-pole
				1-pole		3-pole			
				AC/DC	AC	DC	AC	DC	
Local indication	Toggle switch position	■	-	-	-	-	-	-	-
	Indication via LEDs for each phase	-	■	■	■	■	■	■	-
	Indication via display for each phase	-	-	-	-	-	-	-	■
External power supply required		-	-	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	-
Permissible operational voltage	AC	max. 690 V	230 ... 690 V	24 ... 230 V	110 ... 690 V	-	190 ... 690 V	-	230 ... 690 V
	DC	max. 440 V	-	24 ... 250 V	-	120 ... 440 V	-	220 ... 440 V	-
Detection and indication of	Overvoltage	-	-	-	-	-	-	-	■
	Undervoltage	-	-	-	-	-	-	-	■
	Phase failure	-	-	-	-	-	-	-	■



## Electrical connection

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



3NP1 are available in versions with box terminals (all sizes) or flat terminals (sizes 00 and larger).

Various additional types of terminal are available as accessories for adaptation to the respective wiring situation, e.g. prism, saddle or triple terminals.

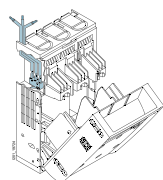


## Other accessories

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)

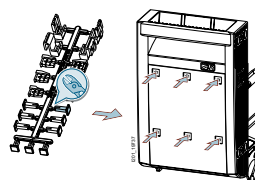


### Auxiliary switches



Auxiliary switches enable remote querying of the switch position of the 3NP1. Up to two auxiliary switches can be installed.

### Power theft



The assembly kit for protection from power theft seals the holes on the front of the 3NP1 (for voltage testing) permanently, which reliably prevents unauthorized access to live parts.

### Isolating blades

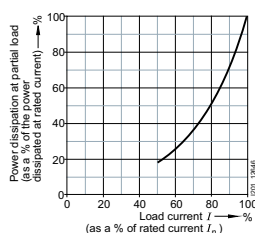


4-pole 3NP1s are used in 3-phase AC systems with switched neutral conductors. They are supplied without an isolating blade for the N pole. The switching instant is selected by choosing the appropriate isolating blade.



## Suitable fuses

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



The 3NP5 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOP) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded. For use of SITOP semiconductor fuses, ready-made derating tables are available in the linked document.

# 3NP1 fuse switch disconnectors

For a complete and valid configuration of your fuse switch disconnectors, please use our online configurator at [www.siemens.com/lowvoltage/3np1-configurator](http://www.siemens.com/lowvoltage/3np1-configurator)

Flat terminals  
NH00



NH1



NH2








NH3



Fuse monitoring	Number of poles	$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
<b>Floor mounting</b>					
Without	1-pole	3NP1131-1CA10	3NP1141-1DA10	3NP1151-1DA10	3NP1161-1DA10
	3-pole	3NP1133-1CA10	3NP1143-1DA10	3NP1153-1DA10	3NP1163-1DA10
	4-pole	3NP1134-1CA10	3NP1144-1DA10	3NP1154-1DA10	3NP1164-1DA10
MFM	3-pole	3NP1133-1CA11	3NP1143-1DA11	3NP1153-1DA11	3NP1163-1DA11
EFM10	3-pole	3NP1133-1CA12	3NP1143-1DA12	3NP1153-1DA12	3NP1163-1DA12
EFM15	1-pole	3NP1131-1CA14	3NP1141-1DA14	3NP1151-1DA14	3NP1161-1DA14
	3-pole	3NP1133-1CA14	3NP1143-1DA14	3NP1153-1DA14	3NP1163-1DA14
EFM20	3-pole	3NP1133-1CA13	3NP1143-1DA13	3NP1153-1DA13	3NP1163-1DA13
<b>Mounting on 60 mm busbar systems with reach-around protection for Siemens 8US</b>					
Without FM	3-pole	3NP1133-1BC10	3NP1143-1BC10	3NP1153-1BC10	3NP1163-1BC10
	4-pole	3NP1134-1BC10	3NP1144-1BC10	3NP1154-1BC10	3NP1164-1BC10
MFM	3-pole	3NP1133-1BC11	3NP1143-1BC11	3NP1153-1BC11	3NP1163-1BC11
EFM10	3-pole	3NP1133-1BC12	3NP1143-1BC12	3NP1153-1BC12	3NP1163-1BC12
EFM15	3-pole	3NP1133-1BC14	3NP1143-1BC14	3NP1153-1BC14	3NP1163-1BC14
EFM20	3-pole	3NP1133-1BC13	3NP1143-1BC13	3NP1153-1BC13	3NP1163-1BC13
<b>Mounting on 60 mm busbar systems with reach-around protection for Rittal</b>					
Without FM	3-pole	3NP1133-1JC10	3NP1143-1JC10	3NP1153-1JC10	3NP1163-1JC10
MFM	3-pole	3NP1133-1JC11	3NP1143-1JC11	3NP1153-1JC11	3NP1163-1JC11
EFM10	3-pole	3NP1133-1JC12	3NP1143-1JC12	3NP1153-1JC12	3NP1163-1JC12
EFM20	3-pole	3NP1133-1JC13	3NP1143-1JC13	3NP1153-1JC13	3NP1163-1JC13
<b>Mounting on 40 mm busbar systems with reach-around protection for Siemens 8US</b>					
Without FM	3-pole	3NP1133-1BB10	–	–	–
MFM	3-pole	3NP1133-1BB11	–	–	–
EFM10	3-pole	3NP1133-1BB12	–	–	–
EFM20	3-pole	3NP1133-1BB13	–	–	–
<b>Mounting on 40 mm busbar systems with reach-around protection for Rittal</b>					
Without FM	3-pole	3NP1133-1JB10	–	–	–
MFM	3-pole	3NP1133-1JB11	–	–	–
EFM10	3-pole	3NP1133-1JB12	–	–	–
EFM20	3-pole	3NP1133-1JB13	–	–	–

## Notes:

- On the 3NP1 with fuse monitoring, the permissible operating voltage is limited by the fuse monitoring
- Permissible operational voltage with fuse monitoring:
  - MFM AC max. 690 V (L – L) / max. 440 V (L+ – L–)
  - EFM10 230 ... 690 V AC (L – L)
  - EFM15 3-pole 190 ... 690 V AC (L – L)
  - EFM15 1-pole 24 ... 240 V AC (L – N) / 24 ... 250 V DC (L+ – L–)
  - EFM20 230 ... 690 V AC (L – L)
- Additional variants are available as accessories:
  - EFM15 with further operating voltage ranges
  - EFM25 – DC version of the EFM20
- Devices for busbar mounting with reach-around protection
  - For Siemens 8US, mounting is possible on the Wöhner Classic and Rittal RiLine systems without a floor pan
  - For Rittal, mounting is possible on the RiLine60 system with a floor pan

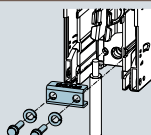
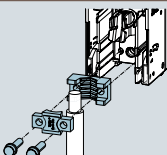
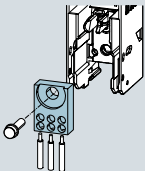
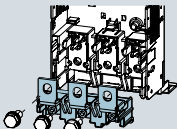
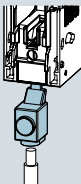
Box terminals NH000	NH00	NH1	NH2	NH3
				
$I_u = 100 \text{ A}$	$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
3NP1121-1CA20	3NP1131-1CA20	3NP1141-1DA20	3NP1151-1DA20	3NP1161-1DA20
3NP1123-1CA20	3NP1133-1CA20	3NP1143-1DA20	3NP1153-1DA20	3NP1163-1DA20
3NP1124-1CA20	3NP1134-1CA20	3NP1144-1DA20	3NP1154-1DA20	3NP1164-1DA20
–	3NP1133-1CA21	3NP1143-1DA21	3NP1153-1DA21	3NP1163-1DA21
3NP1123-1CA22	3NP1133-1CA22	3NP1143-1DA22	3NP1153-1DA22	3NP1163-1DA22
3NP1121-1CA24	3NP1131-1CA24	3NP1141-1DA24	3NP1151-1DA24	3NP1161-1DA24
3NP1123-1CA24	3NP1133-1CA24	3NP1143-1DA24	3NP1153-1DA24	3NP1163-1DA24
3NP1123-1CA23	3NP1133-1CA23	3NP1143-1DA23	3NP1153-1DA23	3NP1163-1DA23
3NP1123-1BC20	3NP1133-1BC20	3NP1143-1BC20	3NP1153-1BC20	3NP1163-1BC20
3NP1124-1BC20	3NP1134-1BC20	3NP1144-1BC20	3NP1154-1BC20	3NP1164-1BC20
–	3NP1133-1BC21	3NP1143-1BC21	3NP1153-1BC21	3NP1163-1BC21
3NP1123-1BC22	3NP1133-1BC22	3NP1143-1BC22	3NP1153-1BC22	3NP1163-1BC22
3NP1123-1BC24	3NP1133-1BC24	3NP1143-1BC24	3NP1153-1BC24	3NP1163-1BC24
3NP1123-1BC23	3NP1133-1BC23	3NP1143-1BC23	3NP1153-1BC23	3NP1163-1BC23
3NP1123-1JC20	3NP1133-1JC20	3NP1143-1JC20	3NP1153-1JC20	3NP1163-1JC20
–	3NP1133-1JC21	3NP1143-1JC21	3NP1153-1JC21	3NP1163-1JC21
3NP1123-1JC22	3NP1133-1JC22	3NP1143-1JC22	3NP1153-1JC22	3NP1163-1JC22
3NP1123-1JC23	3NP1133-1JC23	3NP1143-1JC23	3NP1153-1JC23	3NP1163-1JC23
3NP1123-1BB20	3NP1133-1BB20	–	–	–
–	3NP1133-1BB21	–	–	–
3NP1123-1BB22	3NP1133-1BB22	–	–	–
3NP1123-1BB23	3NP1133-1BB23	–	–	–
3NP1123-1JB20	3NP1133-1JB20	–	–	–
–	3NP1133-1JB21	–	–	–
3NP1123-1JB22	3NP1133-1JB22	–	–	–
3NP1123-1JB23	3NP1133-1JB23	–	–	–

# 3NP1 fuse switch disconnectors

## Accessories

### Connection technology – Terminals

- For adaptation to the respective wiring situation
- Contain enough parts to retrofit one side of a 3NP1 accordingly (three terminals for 3-pole 3NP1, one terminal for 1-pole unit)
- If the incoming cable and cable outlet are retrofitted, two packages must be ordered

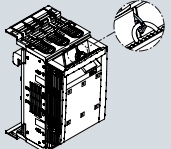
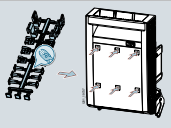
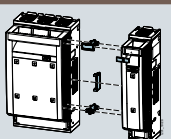
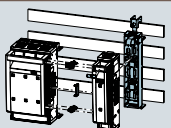
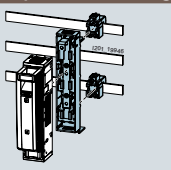
		1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
Saddle terminals								
	<ul style="list-style-type: none"><li>Allow connection of stripped circular conductors to 3NP1 with flat terminals</li></ul>							
	Connection	Conductor cross-section	Article No.	Article No.				
		1,5 ... 70 mm <sup>2</sup>	3NP1931-1BA00	3NP1933-1BA00		■		
		70 ... 120 mm <sup>2</sup>	3NP1941-1BA00	3NP1943-1BA00			■	
		120 ... 240 mm <sup>2</sup>	3NP1951-1BA00	3NP1953-1BA00				■
		150 ... 300 mm <sup>2</sup>	3NP1961-1BA00	3NP1963-1BA00				■
Prism terminals								
	<ul style="list-style-type: none"><li>Allow connection of stripped circular conductors to 3NP1 with flat terminals</li><li>Also approved for connection of aluminum conductors, available for one or two conductors</li></ul>							
	Variant	Conductor cross-section	Article No.	Article No.				
	single	35 ... 95 mm <sup>2</sup>	3NP1931-1BB10	3NP1933-1BB10		■		
		70 ... 150 mm <sup>2</sup>	3NP1941-1BB10	3NP1943-1BB10			■	
		120 ... 240 mm <sup>2</sup>	3NP1951-1BB10	3NP1953-1BB10				■
		150 ... 300 mm <sup>2</sup>	3NP1961-1BB10	3NP1963-1BB10				■
	double	2× 35 ... 70 mm <sup>2</sup>	3NP1941-1BB20	3NP1943-1BB20			■	
2× 70 ... 120 mm <sup>2</sup>		3NP1951-1BB20	3NP1953-1BB20				■	
2× 150 ... 185 mm <sup>2</sup>		3NP1961-1BB20	3NP1963-1BB20				■	
Three-tier terminal								
	<ul style="list-style-type: none"><li>Distributes one outgoing feeder directly to three smaller loads</li></ul>							
	Variant	Conductor cross-section	Article No.	Article No.				
	for 3NP1 with flat terminals	3× 1,5 ...16 mm <sup>2</sup>	3NP1931-1BE10	3NP1933-1BE10		■		
	for 3NP1 with box terminals	3× 1,5 ...16 mm <sup>2</sup>	3NP1921-1BE20	3NP1923-1BE20	■	■		
Connection module								
	<ul style="list-style-type: none"><li>Used with a 3NP1 for busbar mounting if a masking frame is to be supported on the 32 mm cover plane (installation of the terminals under the masking frame)</li><li>For 3NP1 with flat terminals</li></ul>							
	Variant	Conductor cross-section	Article No.	Article No.				
	Connection module	3× 6 ... 70 mm <sup>2</sup>	3NP1931-1BC00	3NP1933-1BC00		■		
Feeder terminal								
	<ul style="list-style-type: none"><li>Extends the conductor cross-section of a 000 with box terminal to up to 95 mm<sup>2</sup></li></ul>							
	Version	Conductor cross-section	Article No.	Article No.				
	Feeder terminal	16 ... 95 mm <sup>2</sup>	3NP1921-1BD00	3NP1923-1BD00	■			



# 3NP1 fuse switch disconnectors

## Accessories

### Assembly kits

		NH000	NH00	NH1	NH2	NH3
<b>Retrofitting of locking function</b>						
 <ul style="list-style-type: none"> <li>For all versions of the 3NP1</li> <li>If required for locking with a padlock (not necessary for the 1-pole 3NP1)</li> </ul>	<b>Scope of supply</b>	<b>Article No.</b>				
	1 pack = 10 units	3NP1900-1HA00				
		■	■	■	■	■
<b>Protection against power theft</b>						
 <ul style="list-style-type: none"> <li>Closes the holes on the front of the 3NP1 (holes for voltage testing) and secures the front window such that power theft is not possible without visible damage to the 3NP1 (when the 3NP1 is locked or sealed)</li> </ul>	<b>Scope of supply</b>	<b>Article No.</b>				
	1 pack = 5 units	3NP1900-1EF00				
		■	■	■	■	■
<b>Mechanical connection of 1-pole and 3-pole 3NP1 devices</b>						
 <ul style="list-style-type: none"> <li>For 3NP1 with floor mounting</li> <li>By combining two 3NP1s for floor mounting, any 2-pole and 4-pole devices can be created</li> </ul>	<b>Article No.</b>					
		3NP1921-1EC00				
		■				
		3NP1931-1EC00				
			■			
<b>4-pole connecting kit for mounting on a 8US 60-mm busbar</b>						
 <ul style="list-style-type: none"> <li>Connects a 3-pole 3NP1 for busbar mounting 60 mm 8US to a 1-pole 3NP1 for floor mounting</li> <li>The 1-pole 3NP1 switches the neutral conductor of a 3+N system in this combination</li> </ul>	<b>3NP1 connection</b>	<b>Article No.</b>				
	With flat terminals	3NP1934-1ED20				
			■			
	With box terminals	3NP1924-1ED10				
		■				
		3NP1934-1ED10				
			■			
	With flat terminals or box terminals	3NP1944-1ED00				
				■		
<b>1-pole connecting kit for mounting on a 8US 60-mm busbar</b>						
 <ul style="list-style-type: none"> <li>Permits adaptation of a 1-pole 3NP1 for floor mounting to a 3-pole busbar system</li> <li>The feeding busbar (L1, L2 or L3) can be chosen freely</li> <li>If two such 3NP1 are combined by mechanical connection using the assembly kit, 2-pole 3NP1 for busbar mounting can also be assembled</li> </ul>	<b>3NP1 connection</b>	<b>Article No.</b>				
	With box terminals	3NP1921-1EE10				
		■				
		3NP1931-1EE10				
			■			



## Assembly kits

1-/2-pole

3-pole

4-pole

NH000

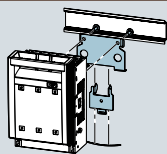
NH00

NH1

NH2

NH3

### Assembly kits for mounting on standard mounting rail



- Must be mounted on the rear of a 3NP1 for floor mounting
- Mounting of the 3NP1 on a standard mounting rail is achieved for size NH000 by mounting on a mounting rail, and for sizes NH00 and NH1 between two mounting rails that are 125 or 150 mm apart

Article No.

Article No.

Article No.

3NP1921-1EA00

3NP1923-1EA00

3NP1924-1EA00

■

3NP1931-1EB00

3NP1933-1EB00

3NP1933-1EB00

■

3NP1943-1EB00

3NP1943-1EB00

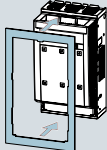
3NP1943-1EB00

■

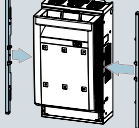
# 3NP1 fuse switch disconnectors

## Accessories

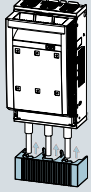
### Masking frames and covers

	1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
<b>Masking frames</b>							
 <ul style="list-style-type: none"> <li>Used to cover an existing gap for a masking frame mounted on the application side</li> </ul>							
	<b>Outer dimensions (H×W)</b>	<b>Article No.</b>	<b>Article No.</b>				
	215 × 130 mm	–	3NP1923-1DA00	■			
	215 × 130 mm	–	3NP1933-1DA00		■		
	375 × 220 mm	–	3NP1943-1DA00			■	
	375 × 245 mm	–	3NP1953-1DA00				■
	375 × 290 mm	–	3NP1963-1DA00				■

### Masking frame supports

 <ul style="list-style-type: none"> <li>Are mounted on the side of the 3NP1 and prevent the supported masking frame from sagging (pack of 2 units)</li> </ul>							
	<b>Article No.</b>	<b>Article No.</b>					
	3NP1923-1CF00	3NP1923-1CF00	■				
	3NP1933-1CF00	3NP1933-1CF00		■			
	3NP1943-1CF00	3NP1943-1CF00			■	■	■

### Cable connection covers

 <ul style="list-style-type: none"> <li>Extends the terminal covers integrated in the 3NP1</li> <li>In the version with rear reach-around protection, the underside is also covered</li> </ul>							
	<b>Version</b>	<b>Article No.</b>	<b>Article No.</b>				
	Without rear reach-around protection	3NP1921-1CB00	3NP1923-1CB00 <sup>1)</sup>	■			
		3NP1931-1CB00	3NP1933-1CB00 <sup>2)</sup>		■		
		3NP1941-1CB00	3NP1943-1CB00			■	
		3NP1951-1CB00	3NP1953-1CB00				■
		3NP1961-1CB00	3NP1963-1CB00				■
	With rear reach-around protection	–	3NP1933-1CC00 <sup>1)</sup>		■		
		3NP1931-1CD00	3NP1933-1CD00 <sup>3)</sup>		■		
		3NP1941-1CD00	3NP1943-1CD00			■	
		3NP1951-1CD00	3NP1953-1CD00				■
		3NP1961-1CD00	3NP1963-1CD00				■

### Reach-around protection for busbar (spare part)

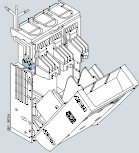
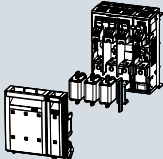
 <ul style="list-style-type: none"> <li>Covers the busbar</li> <li>For conversion of a 3NP1 to another busbar system</li> </ul>							
	<b>For busbar systems</b>	<b>Article No.</b>	<b>Article No.</b>				
	Siemens 8US	–	3NP1923-1CA10	■			
		–	3NP1933-1CA10		■		
		3NP1941-1CA10	–			■	■
		–	3NP1943-1CA10			■	
		–	3NP1953-1CA10				■
		–	3NP1963-1CA10				■
	Siemens 8US compact	–	3NP1923-1CA30	■			
		–	3NP1923-1CA20	■			
	Rittal	–	3NP1933-1CA20		■		
		–	3NP1943-1CA20			■	
		–	3NP1953-1CA20				■
		–	3NP1963-1CA20				■

<sup>1)</sup> Only for 3NP1 for mounting on busbar systems

<sup>2)</sup> Only for 3NP1 with flat terminals

<sup>3)</sup> Only for 3NP1 with flat terminals for floor mounting

## Other accessories

		NH000	NH00	NH1	NH2	NH3
<b>Auxiliary switches</b>						
<ul style="list-style-type: none"> <li>Up to 2 auxiliary switches can be mounted</li> <li>From size NH00, it is possible to choose whether the auxiliary switch will switch simultaneously with the fuses or leading on switch-on. (Only leading possible for size NH000)</li> </ul>						
<b>Contacts</b>		<b>Article No.</b>				
	1 CO	3NP1920-1FA00	■			
		3NP1930-1FA00		■		
		3NP1940-1FA00		■	■	■
	1 CO, solid-state compatible	3NP1920-1FB00	■			
		3NP1930-1FB00		■		
		3NP1940-1FB00		■	■	■
<b>Isolating blades</b>						
 <ul style="list-style-type: none"> <li>Are used if only the isolating function of a 3NP1 is required and not protection with fuses or in the neutral conductor of a 4-pole 3NP1.</li> <li>The isolating blade, which is leading on switch-on and lagging on switch-off, is used in the neutral conductor of a 4-pole 3NP1 if shifting of the neutral point of the 3+N system has to be avoided during switching.</li> </ul>						
<b>Version</b>		<b>Article No.</b>				
Switching simultaneously with fuses		3NG1002	■	■		
		3NG1202			■	
		3NG1302				■
		3NG1402				■
Leading switch-on, lagging switch-off		3NP1924-1MA20	■			
		3NP1934-1MA20		■		
		3NP1944-1MA20			■	
		3NP1954-1MA20			■	
		3NP1964-1MA20				■

# 3NP1 fuse switch disconnectors

## Other accessories

### Fuse carriers (spare part)

- For retrofitting fuse monitoring on an existing 3NP1

	1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
	<b>Version</b>						
	<b>Article No.</b>						
	Standard – without fuse monitoring	3NP1921-1GA00	3NP1923-1GA00	■			
		3NP1931-1GA00	3NP1933-1GA00		■		
		3NP1941-1GA00	3NP1943-1GA00			■	
		3NP1951-1GA00	3NP1953-1GA00				■
		3NP1961-1GA00	3NP1963-1GA00				■
	MFM - for operating voltage 24 ... 690 V AC (L-L) / 24 ... 240 V DC (L+ - L-)	–	3NP1923-1GB10	■			
		–	3NP1933-1GB10		■		
		–	3NP1943-1GB10			■	
		–	3NP1953-1GB10				■
		–	3NP1963-1GB10				■
	EFM10 - 230 ... 690 V AC (L-L)	–	3NP1923-1GB20	■			
		–	3NP1933-1GB20		■		
		–	3NP1943-1GB20			■	
		–	3NP1953-1GB20				■
		–	3NP1963-1GB20				■
	EFM15 - for operating voltage 24 ... 240 V AC(L - N) / 24 ... 250 V DC (L+ - L-)	3NP1921-1GB43	–	■			
		3NP1931-1GB43	–		■		
		3NP1941-1GB43	–			■	
		3NP1951-1GB43	–				■
		3NP1961-1GB43	–				■
	EFM15 - for operating voltage 110 ... 690 V AC (L - N)	3NP1921-1GB41	–	■			
		3NP1931-1GB41	–		■		
		3NP1941-1GB41	–			■	
		3NP1951-1GB41	–				■
		3NP1961-1GB41	–				■
	EFM15 - for operating voltage 120 ... 440 V DC (L - N)	3NP1921-1GB44	–	■			
		3NP1931-1GB44	–		■		
		3NP1941-1GB44	–			■	
		3NP1951-1GB44	–				■
		3NP1961-1GB44	–				■
	EFM15 - for operating voltage 190 ... 690 V AC (L - L)	–	3NP1923-1GB42	■			
		–	3NP1933-1GB42		■		
		–	3NP1943-1GB42			■	
		–	3NP1953-1GB42				■
		–	3NP1963-1GB42				■
	EFM15 - for operating voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB45	■			
		–	3NP1933-1GB45		■		
		–	3NP1943-1GB45			■	
		–	3NP1953-1GB45				■
		–	3NP1963-1GB45				■
	EFM20 - for operating voltage 230 ... 690 V AC (L - L)	–	3NP1923-1GB30	■			
		–	3NP1933-1GB30		■		
		–	3NP1943-1GB30			■	
		–	3NP1953-1GB30				■
		–	3NP1963-1GB30				■
	EFM25 - for operating voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB50	■			
		–	3NP1933-1GB50		■		
		–	3NP1943-1GB50			■	
		–	3NP1953-1GB50				■
		–	3NP1963-1GB50				■



# 3NP5 fuse switch disconnectors

## System overview

### Basic units



Floor mounting



For 40 mm busbar system

### Connection parts



Clamp terminals



Busbar adapters for 60 mm systems

### Masking frames and covers



Molded-plastic  
masking frames



Cable connection covers

### Other accessories



Auxiliary switches



Arc chutes



Assembly kits for  
flush mounting



Fuse carriers

#### Note:

You will find a detailed range of accessories with the basic units.

## General information



### System description

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



3NP50



3NP52



3NP54

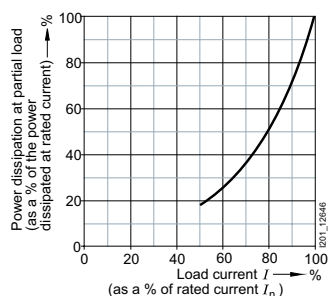
The 3NP5 fuse switch disconnector is an extremely robust device for extreme operating conditions. The fuse carrier has a pretensioned spring that prevents accidental, slow closure. All 3NP5 are designed for mounting on a mounting plate. Size NH00 is also available in versions for 40 mm busbar systems. All sizes can also be mounted using adapters on 60 mm busbar systems.

8



### Suitable fuses

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)








The 3NP5 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection. Fuses for semiconductor protection (Siemens trademark SITOP) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded. For use of Siemens SITOP semiconductor fuses, ready-made derating tables are available in the linked document.

# 3NP5 fuse switch disconnectors



Types of mounting	Auxiliary switches	$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
<b>Without fuse monitoring</b>					
Floor mounting	Without	3NP5060-0CA00	3NP5260-0CA00	3NP5360-0CA00	3NP5460-0CA00
	1 NO + 1 NC	3NP5060-0CA10	3NP5260-0CA10	3NP5360-0CA10	3NP5460-0CA10
Mounting on 40 mm busbar systems	Without	3NP5065-1CF00	–	–	–
	1 NO + 1 NC	3NP5065-1CF10	–	–	–
<b>Electromechanical fuse monitoring with 1 NO + 1 NC as a signaling contact</b>					
Floor mounting	1 NO + 1 NC	3NP5060-0EA86	3NP5260-0EA86	3NP5360-0EA86	3NP5460-0EA86
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1EF86	–	–	–
<b>Electromechanical fuse monitoring with 2 NO as a signaling contact</b>					
Floor mounting	1 NO + 1 NC	3NP5060-0EA26	3NP5260-0EA26	3NP5360-0EA26	3NP5460-0EA26
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1EF26	–	–	–
<b>Electronic fuse monitoring with 1 NO + 1 NC as a signaling contact</b>					
Floor mounting	1 NO + 1 NC	3NP5060-0HA13	3NP5260-0HA13	3NP5360-0HA13	3NP5460-0HA13
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1HF13	–	–	–

## Accessories

			NH00	NH1	NH 2	NH3
<b>Clamp terminals</b>						
	<b>Version</b>	<b>Scope of supply</b>	<b>Article No.</b>			
	For retrofitting to 3NP5 with flat terminals	3 units	3NY1903	■		
			3NY1907		■	
<b>Busbar adapters</b>						
	• For 60 mm busbar system					
	<b>Version</b>	<b>Article No.</b>				
	For adaptation of a 3NP5, for floor mounting on a 60-mm busbar system	8US1291-4SB00	■			
		8US1210-4AG00		■	■	■
<b>Covers for cable lug connections</b>						
	<b>Version</b>	<b>Scope of supply</b>	<b>Article No.</b>			
	Can be screwed onto the free end of the screw	6 units	3NY1241		■	
			3NY1245			■
<b>Covers for 3NP5, with auxiliary switch mounted</b>						
	• With punched cutouts for auxiliary switches					
	<b>Color</b>	<b>Version</b>	<b>Dimensions</b>	<b>Article No.</b>		
	Gray	Flat	215 × 135 mm	3NY1115	■	
	Black	Flat, with additional bending edges	290 × 135 mm	3NY1116	■	
<b>Covers for 3NP5, without auxiliary switches mounted</b>						
	• With prepunched cutouts for retrofitting an auxiliary switch					
	<b>Color</b>	<b>Version</b>	<b>Dimensions</b>	<b>Article No.</b>		
	Gray	Flat	215 × 135 mm	3NY1105	■	
	Black	Flat	290 × 135 mm	3NY1106	■	
		Angled	265 × 135 mm	3NY1107	■	
		Flat, with additional bending edges	290 × 135 mm	3NY1108	■	



## Accessories

Accessories			NH00	NH1	NH 2	NH3
Auxiliary switches						
	Version	Article No.				
	1 NO + 1 NC, including mounting kit	3NY3033	■			
		3NY3034		■	■	■
Arc chutes						
	<ul style="list-style-type: none"><li>Spare part for arc chutes installed in the factory, one unit per switch is required for NH00, three units for NH1 to NH3</li></ul>					
		Article No.				
		3NY4031	■			
		3NY4011		■		
		3NY4012			■	■
Assembly kits for flush mounting in front panel						
	Version	Article No.				
	Assembly kit with cover and mounting accessories	3NY1208	■			
		3NY1210		■		
		3NY1211			■	
		3NY1212				■
	Covers (spare part for assembly kit)	3NY1102		■		
		3NY1103			■	
		3NY1104				■
Fuse carriers						
	Version	Article No.				
	Without fuse monitoring	3NY1074	■			
		3NY1371		■		
		3NY1372			■	
		3NY1373				■
	With electromechanical fuse monitoring by circuit breakers, signaling contact 1 NO + 1 NC, without connecting cable	3NY1420	■			
		3NY1421		■		
		3NY1422			■	
		3NY1423				■
	With electromechanical fuse monitoring, signaling contact 1 NO + 1 NC, without connecting cable	3NY1513-0	■			
		3NY1513-2		■		
		3NY1513-3			■	
		3NY1513-4				■
Connectors and connecting cables						
	Version	Length	Article No.			
	For electromechanical fuse monitoring	1 m	3NY1910	■	■	■
		3 m	3NY1911	■	■	■
	For electronic fuse monitoring	3 m	3NY1915	■	■	■

# 3NJ4 fuse switch disconnectors

## System overview

### 1-pole switchable



Standard

For integratable  
current transformers

### 3-pole switchable



Standard

For integratable  
current transformersWith electronic  
fuse monitoring

### Accessories



Covers

Adapters on  
busbar systemsMounting and  
assembly elementsBusbar connection  
assembly kits

Fuses

Current  
transformers

#### Note:

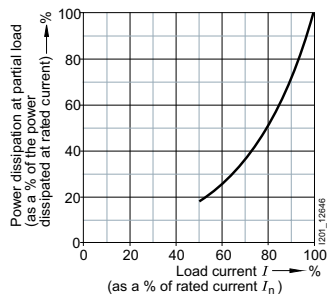
You will find a detailed range of accessories with the basic units.

## General information



### Suitable fuses

You will find further information under:  
[sie.ag/2UlrAvy](https://sie.ag/2UlrAvy)



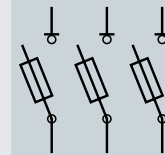
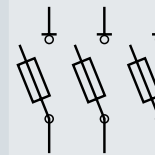
The 3NJ4 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection.

# 3NJ4 fuse switch disconnectors



1-pole switchable

3-pole switchable



Connection	Size of fuse	Busbar center-to-center spacing	Rated operational current $I_e$		
<b>Standard</b>					
M8 flat connector	NH00/NH000 <sup>1)</sup>	185 mm	160 A	3NJ4101-3BF01	3NJ4103-3BF01
	NH00/NH000	100 mm	160 A	–	3NJ4103-3BF02
F70 box terminal	NH00/NH000	100 mm	160 A	–	3NJ4103-3BR02
M10 flat connector	NH1	185 mm	250 A	3NJ4121-3BF01	3NJ4123-3BF01
M12 flat connector	NH2	185 mm	400 A	3NJ4131-3BF01	3NJ4133-3BF01
	NH3	185 mm	630 A	3NJ4141-3BF01	3NJ4143-3BF01
M12 stud terminal	NH1	185 mm	250 A	–	3NJ4123-3BJ01
	NH2	185 mm	400 A	–	3NJ4133-3BJ01
	NH3	185 mm	630 A	–	3NJ4143-3BJ01
M16 × 60 stud terminal	NH4a	185 mm	1250 A	3NJ5643-0BB00	–
V terminal	NH1	185 mm	250 A	–	3NJ4123-3BT01
	NH2	185 mm	400 A	–	3NJ4133-3BT01
	NH3	185 mm	630 A	–	3NJ4143-3BT01
<b>For integratable current transformers</b>					
M8 flat connector	NH00/NH000	100 mm	160 A	–	3NJ4103-3BF12
M10 flat connector	NH1	185 mm	250 A	3NJ4121-3BF11	3NJ4123-3BF11
M12 flat connector	NH2	185 mm	400 A	3NJ4131-3BF11	3NJ4133-3BF11
	NH3	185 mm	630 A	3NJ4141-3BF11	3NJ4143-3BF11
<b>With electronic fuse monitoring devices EFM</b>					
M8 flat connector	NH00/NH000	100 mm	160 A	–	3NJ4103-3CF02
M10 flat connector	NH1	185 mm	250 A	–	3NJ4123-3CF01
M12 flat connector	NH2/NH1	185 mm	400 A	–	3NJ4133-3CF01
	NH3/NH2	185 mm	630 A	–	3NJ4143-3CF01
<b>For integratable current transformers, with EFM electronic fuse monitoring</b>					
M8 flat connector	NH00/NH000	100 mm	160 A	–	3NJ4103-3CF12
M10 flat connector	NH1	185 mm	250 A	–	3NJ4123-3CF11
M12 flat connector	NH2/NH1	185 mm	400 A	–	3NJ4133-3CF11
	NH3/NH2	185 mm	630 A	–	3NJ4143-3CF11
<b>For secondary-side fusing of transformers and incoming block</b>					
Flat connector 2× M12	NH3	185 mm	1000 A	–	3NJ4153-3BF01
Flat connector 2× M12	NH3	185 mm	1250 A	–	3NJ4183-3BF01
Flat connector 3× M12	NH3	185 mm	1600 A	–	3NJ4163-3BF01
Flat connector 4× M12	NH3	185 mm	2000 A	–	3NJ4173-3BF01

<sup>1)</sup> If mounted together with device sizes NH1 to NH3, a 3NJ5930-3BB adapter is required as an accessory to compensate for differences in height.

## Note:

- Fixing screws for mounting on busbars must be ordered separately.



# 3NJ4 fuse switch disconnectors

## Accessories

### Covers



- Additional touch protection when using cable lugs and as spacer

Size	Busbar center-to-center spacing	Version	Article No.
NH00	100 mm	Top and bottom	3NJ4912-1DA02
	185 mm	100 mm for bottom	3NJ4912-1FA01
		132 mm for top	3NJ4912-1FA00
NH1 ... NH3	Connection from the top		3NJ4912-1AA01
NH3	For double in-line disconnectors		3NJ4912-1EA00

### Blanking covers



Version	Length	Width	Busbar center-to-center spacing	Article No.
For switchboard cutout	299 mm	50 mm	100 mm only	3NJ4912-2CA00
	633 mm	50 mm		3NJ4912-2AA00
	633 mm	100 mm		3NJ4912-2BA00

### Lateral masking frame supports



- 3 clips with T profile

Size	Article No.
NH00 ... NH3	3NJ4912-2DA00

### Fixing clips



Scope of supply	Article No.
1 set = 4 units, including fixing accessories	3NJ4918-0AA00

### Unequipped section covers



Busbar center-to-center spacing	Width	Article No.
185 mm	50 mm	3NJ4912-3AA00
	100 mm	3NJ4912-3BA01
100 mm	50 mm	3NJ4912-3CA00

### Adapters for screw fixing on busbar systems



- Adapters for screw fixing on busbar systems with 185 mm busbar center-to-center spacing
- For mounting 2 fuse switch disconnectors

Version	Fuse switch disconnectors	Article No.
Adaptation to sizes 1 ... 3	From 100 mm to 185 mm	3NJ4918-0DA02
	From 185 mm to 185 mm	3NJ5930-3BB
Adaptation to sizes 1 ... 3, with busbar terminal	From 100 mm to 185 mm	3NJ4918-0DB02

### Adapters for screw fixing on busbar systems



- For fitting one fuse switch disconnector (= 3 separate brackets)

Version	Article No.
Adaptation of 100 mm to busbar system with 60 mm busbar center-to-center spacing	3NJ4918-0EA00

### Fixing screws

- For fitting 3NJ4103 switch disconnectors with integratable current transformers onto adapters

Scope of supply	Article No.
1 set = 3 units	3NJ4918-0DC02

<sup>1)</sup> Touch protection only suitable for 3NJ4103-3BF02

<sup>2)</sup> Touch protection only suitable for 3NJ4101-3BF01 and 3NJ4103-3BF01



# 3NJ4 fuse switch disconnectors

## Accessories

### Busbar supports



- For screwing on the busbars

#### Version

For 100 and 185 mm busbar center-to-center spacing

#### Article No.

3NJ5974-0AB

### Grounding kit



#### Version

With connecting cable 25 mm<sup>2</sup>

#### Article No.

3NJ4910-1AA00

### Busbar terminals



- Not for devices with transformer installation

#### Version

For each fuse switch disconnector, 3 units are required

For more rapid mounting of the switch disconnectors onto the busbars (1 set = 3 units)

#### Article No.

3NJ4911-3AA00

3NJ4911-3BA01

### Saddle terminals



- 1 set = 3 units

#### Connection

Cu 1.5 ... 70 mm<sup>2</sup>

#### Article No.

3NJ4911-4AA00

### Prism terminal assembly kits



- 1 set = 3 units

#### Connection

Al/Cu 10 ... 70 mm<sup>2</sup>

#### Article No.

3NJ4911-1AA00

### Box terminal assembly kits



- For connection to version with flat connector
- 1 set = 3 units

#### Connection

Al/Cu 95 ... 240 mm<sup>2</sup>

#### Article No.

3NJ4911-2BQ00

### Auxiliary switch mounting kits



- For 3-pole switchable switch disconnectors only

#### Version

For NH00 ... NH3 with connecting cables

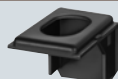
#### Contacts

1 CO

#### Article No.

3NJ4913-1AA01

### Mounting hook



- 1 per in-line disconnector required

#### Article No.

3NJ4918-1AA00

### Distance compensation



#### Version

For NH00

For fuse switch disconnectors, with integratable current transformers if no current transformer is built in

#### Article No.

3NJ4915-1BA00

3NJ4915-2BA00

### Terminal strips



#### Article No.

3NJ4915-1CA00





# 3NJ4 fuse switch disconnectors

## Accessories

### Busbar connection assembly kits for NH1, NH2 and NH3




- With flat terminals

Screws	Conductor cross-section	Article No.
M12	2× 240 mm <sup>2</sup>	3NJ4911-5AA00
	2× 300 mm <sup>2</sup> / 3× 120 mm <sup>2</sup>	3NJ4911-5BA00
M16	1× 400 mm <sup>2</sup>	3NJ4911-5CA00

### Busbar connection assembly kits for NH3



Version	Conductor cross-section	Article No.
For NH3 as double in-line disconnectors	3× 300 mm <sup>2</sup> / 4× 185 mm <sup>2</sup>	3NJ4911-6AA00
	4× 240 mm <sup>2</sup>	3NJ4911-6BA00

	Mechanical coupling of operating handles	3NJ4911-6CA00
-----------------------------------------------------------------------------------	------------------------------------------	---------------

### Fuses NH3



- Minimum order quantity 3 units

Version	Article No.
For protection of transformers, 630 kVA, 909 A	3NJ4914-8AA00

### Isolating blades NH3

Rated current I <sub>e</sub>	Article No.
1250 A	3NJ4914-8BA00

### Current transformers .../1 A



Rated current I <sub>e</sub>	Accuracy class	Rated power P <sub>n</sub>	Article No.
100/1 A	0.5	1.5 VA	3NJ4915-1EA10
	1	2.0 VA	3NJ4915-1EA20
150/1 A	0.5	2.5 VA	3NJ4915-1FA10
	0.5 calibrated	2.5 VA	3NJ4915-1FA11
	1	3.0 VA	3NJ4915-1FA20
	1	1.5 VA	3NJ4915-2DA20
100/1 A	0.5	1.5 VA	3NJ4915-2EA10
	1	2.0 VA	3NJ4915-2EA20
150/1 A	1	2.5 VA	3NJ4915-2FA20
	0.5	2.5 VA	3NJ4915-2GA10
	0.5 calibrated	2.5 VA	3NJ4915-2GA11
	1	5.0 VA	3NJ4915-2GA20
400/1 A	0.5	2.5 VA	3NJ4915-2HA10
	0.5 calibrated	2.5 VA	3NJ4915-2HA11
	1	5.0 VA	3NJ4915-2HA20
500/1 A	0.5	2.5 VA	3NJ4915-2JA10
	1	5.0 VA	3NJ4915-2JA20
600/1 A	0.5	2.5 VA	3NJ4915-2KA10
	0.5 calibrated	2.5 VA	3NJ4915-2KA11
	1	5.0 VA	3NJ4915-2KA20



# 3NJ4 fuse switch disconnectors

## Accessories

### Current transformers .../5 A



Rated current I <sub>e</sub>	Accuracy class	Rated power P <sub>n</sub>	Article No.
100/5 A	0.5	1.0 VA	3NJ4915-1EB10
	1	1.5 VA	3NJ4915-1EB20
150/5 A	0.5	1.5 VA	3NJ4915-1FB10
	0.5 calibrated	1.5 VA	3NJ4915-1FB11
	1	2.5 VA	3NJ4915-1FB20
75/5 A	1	1.5 VA	3NJ4915-2DB20
100/5 A	0.5	1.0 VA	3NJ4915-2EB10
	1	2.0 VA	3NJ4915-2EB20
150/5 A	0.5	1.5 VA	3NJ4915-2FB10
	1	2.5 VA	3NJ4915-2FB20
250/5 A	0.5	2.5 VA	3NJ4915-2GB10
	0.5 calibrated	2.5 VA	3NJ4915-2GB11
	1	3.75 VA	3NJ4915-2GB20
400/5 A	0.5	2.5 VA	3NJ4915-2HB10
	0.5 calibrated	2.5 VA	3NJ4915-2HB11
	1	5.0 VA	3NJ4915-2HB20
500/5 A	0.5	2.5 VA	3NJ4915-2JB10
	1	5.0 VA	3NJ4915-2JB20
600/5 A	0.5	2.5 VA	3NJ4915-2KB10
	0.5 calibrated	2.5 VA	3NJ4915-2KB11
	1	5.0 VA	3NJ4915-2KB20



# 5SG76 fuse switch disconnectors

## System overview

### MINIZED fuse switch disconnectors



1P



1P+N



2P



3P



3P+N



Number of poles	1P	1P+N	2P	3P	3P+N

Size of fuse	Rated current $I_n$	Mounting width 1 MW	Mounting width 2 MW	Mounting width 2 MW	Mounting width 3 MW	Mounting width 4 MW
<b>MINIZED fuse switch disconnectors</b>						
D01	6 A <sup>1)</sup>	5SG7611-0KK06	—	—	5SG7631-0KK06	—
	10 A	5SG7611-0KK10	—	—	5SG7631-0KK10	—
	16 A	5SG7611-0KK16	5SG7651-0KK16	5SG7621-0KK16	5SG7631-0KK16	5SG7661-0KK16

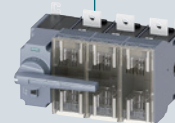
<sup>1)</sup> For 2 A, 4 A, 6 A fuses

# Switch disconnectors with fuses

## Quick selection guide



3KF LV HRC



Size

1 1 1 2 2 3 4 5 5

### General technical specifications acc. to IEC 60947-3

#### Basic data

Rated uninterrupted current I <sub>u</sub>		A	32	63	80	125	160	250	400	630	800
For fuse links acc. to IEC 60269-2			000 and 00					0 and 1	1 and 2	2 and 3	
Rated operational voltage U <sub>e</sub>	At 50/60 Hz AC	V AC						690			
	At DC - 2 conducting paths in series	V DC						220			
	At DC - 3 conducting paths in series	V DC						440			
	At DC	V DC						—			

#### Operating and short-circuit behavior

Rated operational current $I_g$ <sup>1)</sup>	At AC-21A AC-21B at 400 V	A	32	63	80	125	160	250	400	630	800
	At AC-21A AC-21B at 500 V	A	—	—	—	—	—	—	—	—	—
	At AC-21A AC-21B at 690 V	A	32	63	80	125	160	250	400	630	800
	At AC-22A AC-22B at 400 V	A	32	63	80	125	160	250	400	630	800
	At AC-22A AC-22B at 500 V	A	—	—	—	—	—	—	—	—	—
	At AC-22A AC-22B at 690 V	A	32	63	80	125	160	250	400	630	800
	At AC-23A AC-23B at 400 V	A	32	63	80	125	160	250	400	630	800
	At AC-23A AC-23B at 500 V	A	—	—	—	—	—	—	—	—	—
	At AC-23A AC-23B at 690 V	A	32	63	80	125	160	250	400	630	800
	At DC-21A DC-21B at 48 V	A	—	—	—	—	—	—	—	—	—
	At DC-21A DC-21B at 110 V	A	—	—	—	—	—	—	—	—	—
	At DC-21A DC-21B at 220 V	A	32	63	80	125	160	250	400	630	800
	At DC-21A DC-21B at 400 V	A	—	—	—	—	—	—	—	—	—
	At DC-21A DC-21B at 440 V	A	32	63	80	125	160	250	400	630	800
	At DC-22A DC-22B at 48 V	A	—	—	—	—	—	—	—	—	—
	At DC-22A DC-22B at 110 V	A	—	—	—	—	—	—	—	—	—
	At DC-22A DC-22B at 220 V	A	32	63	80	125	160	250	400	630	800
	At DC-22A DC-22B at 400 V	A	—	—	—	—	—	—	—	—	—
	At DC-22A DC-22B at 440 V	A	32	63	80	125	160	250	400	630	800
	At DC-23A DC-23B at 48 V	A	—	—	—	—	—	—	—	—	—
	At DC-23A DC-23B at 110 V	A	—	—	—	—	—	—	—	—	—
Motor switching capacity <sup>2)</sup>	At AC-23A at 400 V	kW	15	30	37	55	90	132	220	355	400
	At AC-23A at 500 V	kW	18.5	37	55	75	110	160	280	400	560
	At AC-23A at 690 V	kW	30	55	75	110	132	250	400	630	800
Rated conditional short-circuit current with upstream fuse <sup>3)</sup>	At 400/500 V AC	kA	100	100	100	100	100	100	100	100	100
	At 690 V AC	kA	100	100	100	100	100	100	100	80	80
Let-through current $I_c$ of usable fuses, max. <sup>3)</sup>	At 400/500 V AC	kA	11.8	11.8	11.8	18	18	33.7	37.1	77.4	77.4
	At 690 V AC	kA	11.5	11.5	11.5	25.5	25.5	37.7	47	65	65
Let-through current $I^2t$ value of usable fuses, max. <sup>3)</sup>	At 400/500 V AC	kA <sup>2</sup> s	34	34	34	223	223	1500	2150	10400	10400
	At 690 V AC	kA <sup>2</sup> s	55	55	55	360	360	940	2600	7000	7000
Maximum power loss of the usable fuses (per fuse)	W		6.5	7.5	8.5	11	12	25.5	34	48	60

#### Degree of protection

Maximum IP degree of protection (with a rotary operating mechanism)	IP65	IP65
Maximum IP degree of protection	—	—

<sup>1)</sup> Values valid even at +10% line voltage tolerance in case of AC

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

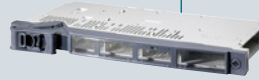
<sup>3)</sup> Valid for combination of 3KF and fuse type 3NA/3ND, characteristic gG/aM



## 3KF SITOP



## 3NJ62



## 5SG7



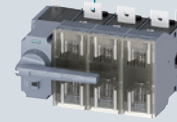
1	1	1	2	2	3	4	5	5	00	00	00	00	1	2	3	3	5SG71.	5SG7230	5SG7234.
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	63	63	63
000 and 00				0 and 1	1 and 2	2 and 3	000 and 00				1	1 and 2	2 and 3	D02		D02		D02	
690				500 ... 690				690		230 ... 690		400, 415		400		400		400	
220				230 ... 440				230 ... 440		–		130		110		–		–	
440				–				–		–		–		–		–		–	
–				–				–		–		65		–		–		–	
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	160	–	–	–	630	– 63	–	– 63
32	63	80	125	160	250	400	630	800	–	–	125	–	250	400	500	–	– 63	–	– 63
32	63	80	125	160	250	400	630	800	–	–	–	160	–	–	–	630	–	63 –	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	63	100	125	–	250	400	500	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	– 63	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	– 63	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	– 63	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	– 63	–
32	63	80	125	160	250	400	630	800	–	–	–	–	250	400	–	630	–	– 63	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	– 63	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	– 63	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	– 63	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	160	250	400	–	630	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
15	30	37	55	90	132	220	355	400	–	–	–	–	–	–	–	–	–	–	–
18.5	37	55	75	110	160	280	400	560	–	–	–	–	–	–	–	–	–	–	–
30	55	75	110	132	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
100	100	100	100	100	100	100	100	100	–								50/–	50/–	50/–
100	100	100	100	100	100	100	80	80	60 ... 100 kA <sub>eff</sub>								–	–	–
11.8	11.8	11.8	18	18	33.7	37.1	77.4	77.4	–								–	–	–
11.5	11.5	11.5	25.5	25.5	37.7	47	65	65	–								–	–	–
34	34	34	223	223	1500	2150	10400	10400	–								–	–	–
55	55	55	360	360	940	2600	7000	7000	–								–	–	–
7	8	12	20	26	36	55	68	85	–								5.5	5.5	5.5
IP65									IP41									–	–
–									–									IP20	–

# Switch disconnectors with fuses

## Quick selection guide (continued)



3KF LV HRC



Size

1 1 1 2 2 3 4 5 5

### General technical specifications acc. to UL

#### Basic data

Certification according to UL standard

$I_n$  acc. to UL 508

A

$U_g$  acc. to UL 508

#### Operating and short-circuit behavior

Operational power, three-phase

At 240 V

kA

At 480 V

kA

At 600 V

kA

Short circuit current rating (SCCR)

Fuse type

### More information

Catalog LV 10 – 10/2020

Technical specifications

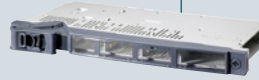
[see page 8/118](#)

Configuration in SIMARIS

## 3KF SITOR



## 3NJ62



## 5SG7



1	1	1	2	2	3	4	5	5	00	00	00	00	1	2	3	3	5SG71.	5SG7230	5SG7234.
UL 508									-	-	-	-	-	-	-	-	-	-	-
32	56	56	125	125	500	320	530	530	-	-	-	-	-	-	-	-	-	-	-
600									-	-	-	-	-	-	-	-	-	-	-
10	15	15	25	30	60	100	125	150	-	-	-	-	-	-	-	-	-	-	-
25	30	40	60	75	150	250	300	300	-	-	-	-	-	-	-	-	-	-	-
30	40	40	50	50	1255	250	300	350	-	-	-	-	-	-	-	-	-	-	-
100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-	-	-	-
K-1, RK1, CC, J, T	K-1, RK1, CC, J, T	K-1, RK1, CC, J, T	K-1, RK1, J, T	K-1, RK1, J, T	K-1, RK1, J, T	K-1, RK1, CC, J, T	K-1, RK1, J, T	K-1, RK1, J, T	-	-	-	-	-	-	-	-	-	-	-
<a href="#">see page 8/118</a>									<a href="#">see page 8/134</a>							<a href="#">see page 8/146</a>			
Configuration in SIMARIS									Configuration in SIMARIS							Configuration in SIMARIS			

# 3KF switch disconnectors with fuses

## System overview

### Complete assemblies with direct operating mechanisms



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole

### Basic units



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



3KF SITOP

### Additional poles



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

### Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



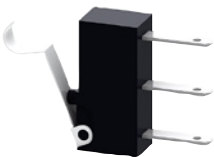
Handles for door-coupling rotary operating mechanisms



Other accessories for door-coupling rotary operating mechanisms



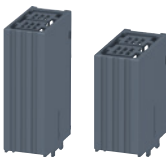
### Other accessories and spare parts



Auxiliary switches



Fuse monitoring



Terminal covers



Mounting elements



Fuse covers

#### Note:

You will find a detailed range of accessories with the basic units.



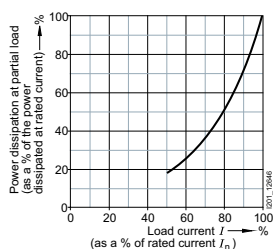
# 3KF switch disconnectors with fuses

## General information



### Suitable fuses

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



The 3KF switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2. These include fuses for cable and line protection and motor protection. Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the switch disconnector with fuses is not exceeded. For use of Siemens semiconductor fuses (SITOR), ready-made derating tables are available in the linked document.

8

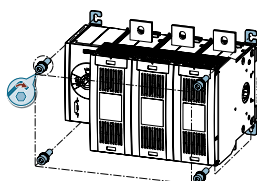


### Types of mounting

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)

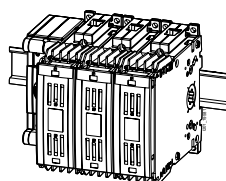


#### Floor mounting



All 3KF switch disconnectors with fuses are designed for floor mounting.

#### Standard mounting rail



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

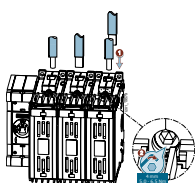


### Electrical connection

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)

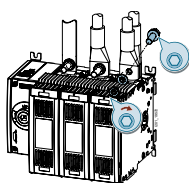


#### Box terminals



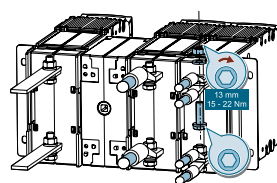
The box terminals for size 1 (32 A ... 80 A) are designed to allow the rapid connection of stripped conductors.

#### Flat terminals



Sizes 2 ... 5 are available with flat terminals, for the connection of cable lugs or busbar systems.

#### Flat terminals at rear



Sizes 1 and 2 (32 A, 63 A and 125 A) are available with rear flat terminals, for the connection of cable lugs or busbar systems.

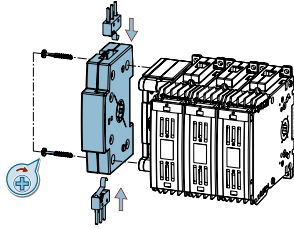


## Auxiliary switch modules and auxiliary switches

**You will find further  
information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)**

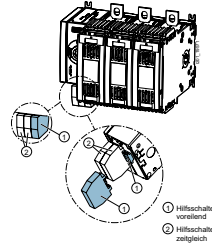


Size 1



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

Sizes 2 ... 5



For sizes 2 ... 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.

8



## Differentiation 3KF SITOR and derating tables for SITOR fuses

You will find further information under:  
[sie.ag/2UlrAvy](http://sie.ag/2UlrAvy)



## Size 1



3KF SITOR is a variation of the proven switch disconnecter with 3KF LV HRC fuses and provides optimized heat dissipation and permits the use of fuses with substantially higher power losses. All 3KF SITOR types are approved according to UL508.

Sizes 2 ... 5

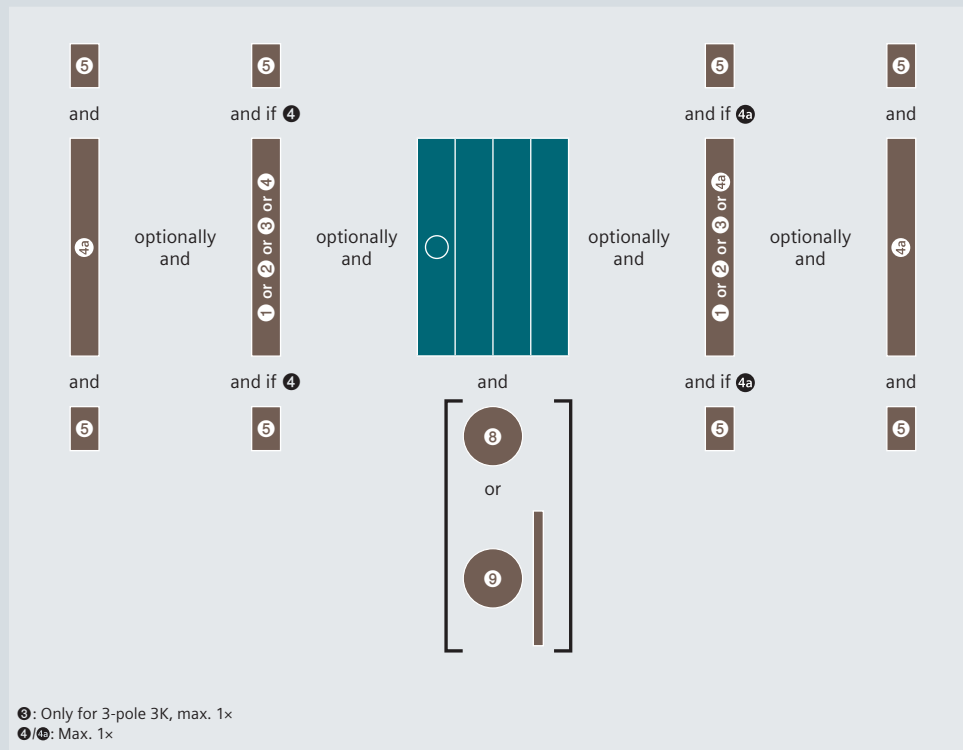
[illegible]

Siemens provides you with pretested load currents of the SITOP semiconductor fuses for installation in the 3KF SITOP. The derating tables are provided both for IEC constraints and for UL constraints and are intended to help you with selection. The permissible load faults for the 3KF LV HRC were calculated from the test results of the 3KF SITOP.

# 3KF switch disconnectors with fuses

## Mounting concept and accessories 3KF

### Front operating mechanism left, size 1, 3/4-pole

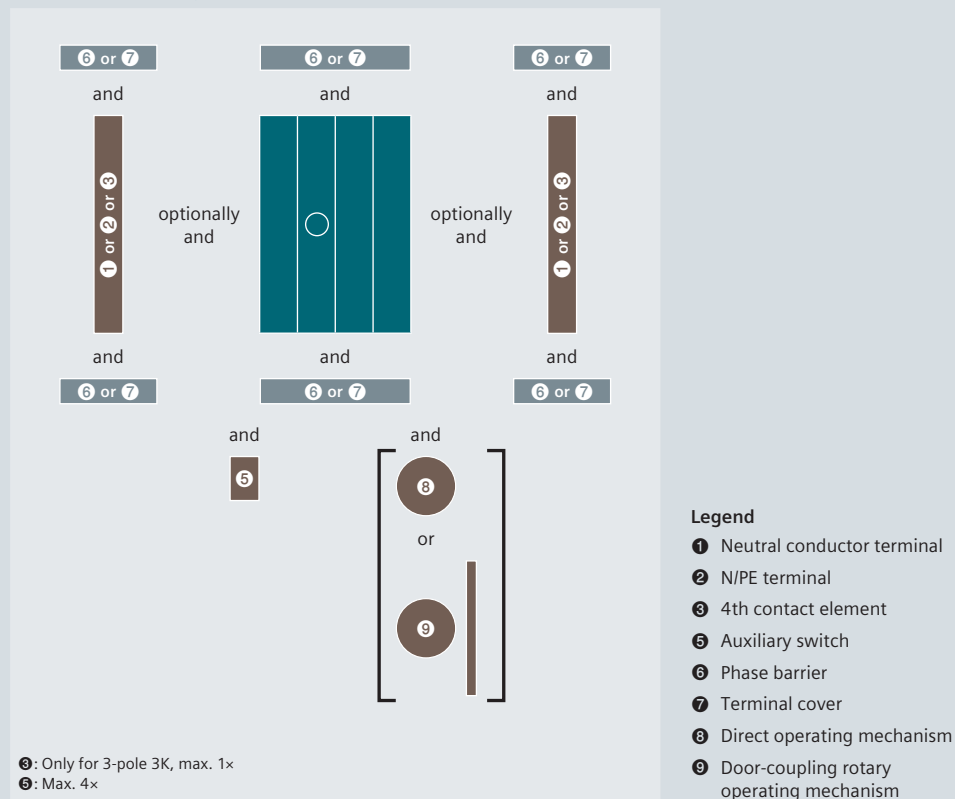


### Front operating mechanism right, size 1, 3/4-pole





## Front operating mechanism center or left, sizes 2 to 5, 3/4-pole



### Lateral operating mechanism left, size 1, 3/4-pole



The diagram shows a 3-pole 3K circuit breaker assembly. It consists of three vertical breaker units. The leftmost unit is labeled '5' at the top and bottom. The middle unit is labeled '4a' in the center and '5' at the bottom. The rightmost unit is labeled '10' at the bottom. The units are connected by a horizontal bar at the top. The text 'and' is placed between the left and middle units, and 'and if 4a' is placed between the middle and right units. The text 'optionally and' is placed below the middle unit. The text 'and' is placed below the rightmost unit. The text 'and if 4a' is placed below the middle unit. The text 'optionally and' is placed below the middle unit. The text 'and' is placed below the rightmost unit.

③: Only for 3-pole 3K, max. 1x  
 ④a: Max. 1x

- 1 Neutral conductor terminal
- 2 N/PE terminal
- 3 4th contact element
- 4a Auxiliary switch module for auxiliary switches
- 5 Auxiliary switch
- 9 Door-coupling rotary operating mechanism
- 10 Lateral auxiliary switch module

8

⑥ or ⑦

and

① or ② or ③

and

⑥ or ⑦

optionally and

⑥ or ⑦

and

⑥ or ⑦

and

④

⑤

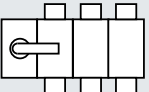
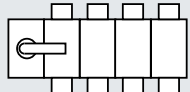
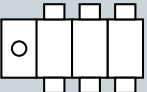
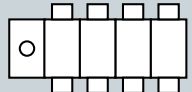
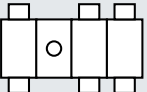
④: Only for 3-pole 3K, max. 1x  
⑤: Max. 4x

- ➊ Neutral conductor terminal
- ➋ N/PE terminal
- ➌ 4th contact element
- ➍ Auxiliary switch
- ➎ Phase barrier
- ➏ Terminal cover
- ➐ Door-coupling rotary operating mechanism

# 3KF switch disconnectors with fuses

## 3KF LV HRC switch disconnector



		Complete assemblies with direct operating mechanisms, front operating mechanisms Left		Basic units without handle, front operating mechanisms Left		Front operating mechanism Center
Number of poles		3P	4P	3P	4P	3P
						
Size	Uninterrupted current I <sub>u</sub>					
Box terminals						
1	32 A	3KF1303-2LB11	3KF1403-2LB11	3KF1303-0LB11	3KF1403-0LB11	3KF1303-0MB11
	63 A	3KF1306-2LB11	3KF1406-2LB11	3KF1306-0LB11	3KF1406-0LB11	3KF1306-0MB11
	80 A	3KF1308-2LB11	3KF1408-2LB11	3KF1308-0LB11	3KF1408-0LB11	3KF1308-0MB11
Flat terminals at rear						
1	32 A	–	–	–	–	3KF1303-0MR11
	63 A	–	–	–	–	3KF1306-0MR11
2	125 A	–	–	–	–	3KF2312-0MR11
Flat terminals						
2	125 A	3KF2312-2LF11	3KF2412-2LF11	3KF2312-0LF11	3KF2412-0LF11	3KF2312-0MF11
	160 A	3KF2316-2LF11	3KF2416-2LF11	3KF2316-0LF11	3KF2416-0LF11	3KF2316-0MF11
3	250 A	3KF3325-2LF11	3KF3425-2LF11	3KF3325-0LF11	3KF3425-0LF11	3KF3325-0MF11
4	400 A	3KF4340-2LF11	3KF4440-2LF11	3KF4340-0LF11	3KF4440-0LF11	3KF4340-0MF11
5	630 A	3KF5363-2LF11	3KF5463-2LF11	3KF5363-0LF11	3KF5463-0LF11	3KF5363-0MF11
	800 A	3KF5380-2LF11	3KF5480-2LF11	3KF5380-0LF11	3KF5480-0LF11	3KF5380-0MF11

### Note:

- NH00 and NH000: For 3KF sizes 1 and 2
- NH1 and NH0: For 3KF size 3
- NH2 and NH1: For 3KF size 4
- NH3 and NH2: For 3KF size 5
- For 3KF with lateral operating mechanism (left or right), only door-coupling rotary operating mechanisms without "Test" can be used.
- The complete assemblies with a direct operating mechanism are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose.

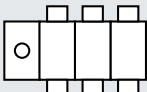
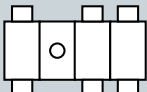


Lateral operating mechanism Left		Lateral operating mechanism Right		
4P	3P	4P	3P	4P
3KF1403-0MB11	3KF1303-4LB11	3KF1403-4LB11	3KF1303-4RB11	3KF1403-4RB11
3KF1406-0MB11	3KF1306-4LB11	3KF1406-4LB11	3KF1306-4RB11	3KF1406-4RB11
3KF1408-0MB11	3KF1308-4LB11	3KF1408-4LB11	3KF1308-4RB11	3KF1408-4RB11
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
3KF2412-0MF11	3KF2312-4LF11	3KF2412-4LF11	3KF2312-4RF11	3KF2412-4RF11
3KF2416-0MF11	3KF2316-4LF11	3KF2416-4LF11	3KF2316-4RF11	3KF2416-4RF11
3KF3425-0MF11	3KF3325-4LF11	3KF3425-4LF11	3KF3325-4RF11	3KF3425-4RF11
3KF4440-0MF11	3KF4340-4LF11	3KF4440-4LF11	3KF4340-4RF11	3KF4440-4RF11
3KF5463-0MF11	3KF5363-4LF11	3KF5463-4LF11	3KF5363-4RF11	3KF5463-4RF11
3KF5480-0MF11	3KF5380-4LF11	3KF5480-4LF11	3KF5380-4RF11	3KF5480-4RF11

# 3KF switch disconnectors with fuses

## 3KF SITOR switch disconnectors



Basic units without handle	
Front operating mechanism Left	Front operating mechanism Center
Number of poles 3P	3P
	

Size	Uninterrupted current I <sub>u</sub>		
Box terminals			
1	32 A	3KF1303-0LB51	–
	63 A	3KF1306-0LB51	–
	80 A	3KF1308-0LB51	–
Flat terminals			
2	125 A	–	3KF2312-0MF51
	160 A	–	3KF2316-0MF51
3	250 A	–	3KF3325-0MF51
4	400 A	–	3KF4340-0MF51
5	630 A	–	3KF5363-0MF51
	800 A	–	3KF5380-0MF51

### Note:

- Use of standard LV HRC fuses gG, gL, aM in 3KF SITOR is possible without restriction

## Accessories for 3KF LV HRC and 3KF SITOR switch disconnectors

### Additional poles


#### Note:

- Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right. Accordingly, an auxiliary switch module must not be mounted between the basic unit and an additional pole on size 1.
- For installation, it is important to note that only a 3-pole 3KF switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).

			Size 1	Size 2	Size 3	Size 4	Size 5
<b>4th contact element (switching pole) for 3KF LV HRC</b>							
	<b>Connection</b>	<b>Article No.</b>					
	Box terminals	3KF9105-2AA00	■				
	Flat terminals at rear	3KF9105-1AA00	■				
		3KF9205-1AA00		■			
	Flat terminals	3KF9205-0AA00		■			
		3KF9305-0AA00			■		
		3KF9405-0AA00				■	
		3KF9505-0AA00					■
<b>4th contact element (switching pole) for 3KF SITOR</b>							
	<b>Connection</b>	<b>Article No.</b>					
	Box terminals	3KF9105-2BA00	■				
	Flat terminals	3KF9205-0BA00		■			
		3KF9305-0BA00			■		
		3KF9405-0BA00				■	
		3KF9505-0BA00					■
<b>Neutral conductor terminals with removable jumper, for 3KF LV HRC and 3KF SITOR</b>							
	<b>Connection</b>	<b>Article No.</b>					
	Box terminals	3KF9106-2AA00	■				
	Flat terminals at rear	3KF9106-1AA00	■				
		3KF9206-1AA00		■			
	Flat terminals	3KF9206-0AA00		■			
		3KF9306-0AA00			■		
		3KF9406-0AA00				■	
		3KF9506-0AA00					■
<b>N/PE terminals with permanent jumper, for 3KF LV HRC and 3KF SITOR</b>							
	<b>Connection</b>	<b>Article No.</b>					
	Box terminals	3KF9106-8AA00	■				
	Flat terminals at rear	3KF9106-6AA00	■				
		3KF9206-6AA00		■			
	Flat terminals	3KF9206-7AA00		■			
		3KF9306-7AA00			■		
		3KF9406-7AA00				■	
		3KF9506-7AA00					■

8

### Operating mechanisms

			Size 1	Size 2	Size 3	Size 4	Size 5
<b>Direct operating mechanisms, for 3KF LV HRC</b>							
	<b>Version</b>	<b>Color</b>					
	Can be locked with up to 3 padlocks	Gray	■				
				■			
					■		
						■	
							■
		Red/yellow	■				
				■			
					■		
						■	
							■
							■

# 3KF switch disconnectors with fuses

## Accessories for 3KF LV HRC and 3KF SITOR switch disconnectors

### Operating mechanisms

Size 1   Size 2   Size 3   Size 4   Size 5

#### Door-coupling rotary operating mechanisms, for 3KF LV HRC and 3KF SITOR



- Scope of supply:
  - Handle with masking plate
  - Coupling driver with tolerance compensation
  - Shaft 300 mm
- Can be locked with up to 3 padlocks

Labeling	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Labeling Test–O–I	Gray	8UD1171-2AF21	■				
		8UD1141-2AF21		■			
		8UD1141-3AF21			■		
		8UD1151-3AF21				■	
		8UD1161-4AF21					■
	Red/yellow	8UD1171-2AF25	■				
		8UD1141-2AF25		■			
		8UD1141-3AF25			■		
		8UD1151-3AF25				■	
		8UD1161-4AF25					■



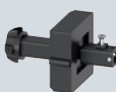


#### Handles, for 3KF LV HRC and 3KF SITOR

- With masking plate
- Can be locked with up to 3 padlocks

Labeling	Lighting	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
O–I	Without	Gray	8UD1771-2AD01	■				
			8UD1841-2AD01		■	■		
			8UD1851-3AD01				■	
			8UD1861-4AD01					■
		Red/yellow	8UD1771-2AD05	■				
			8UD1841-2AD05		■	■		
			8UD1851-3AD05				■	
			8UD1861-4AD05					■
	With	Gray	8UD1771-2CD01	■				
			8UD1841-2CD01		■	■		
			8UD1851-3CD01				■	
			8UD1861-4CD01					■
		Red/yellow	8UD1771-2CD05	■				
			8UD1841-2CD05		■	■		
			8UD1851-3CD05				■	
			8UD1861-4CD05					■
Test–O–I	Without	Gray	8UD1771-2AF01	■				
			8UD1841-2AF01		■	■		
			8UD1851-3AF01				■	
			8UD1861-4AF01					■
		Red/yellow	8UD1771-2AF05	■				
			8UD1841-2AF05		■	■		
			8UD1851-3AF05				■	
			8UD1861-4AF05					■
	With	Gray	8UD1771-2CF01	■				
			8UD1841-2CF01		■	■		
			8UD1851-3CF01				■	
			8UD1861-4CF01					■
		Red/yellow	8UD1771-2CF05	■				
			8UD1841-2CF05		■	■		
			8UD1851-3CF05				■	
			8UD1861-4CF05					■





## Operating mechanisms

		Size 1	Size 2	Size 3	Size 4	Size 5
<b>Extension shaft, for 3KF LV HRC and 3KF SITOP</b>						
	<ul style="list-style-type: none"> <li>A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1 and 2</li> </ul>					
	<b>Length</b>	<b>Article No.</b>				
	300 mm	8UC6032	■	■		
		8UC6033			■	■
		8UC6034				■
	600 mm	8UC6082	■	■		
		8UC6083			■	■
		8UC6084				■
<b>Shaft jack for 8UD1 handle, for 3KF LV HRC and 3KF SITOP</b>						
	<b>Version</b>	<b>Article No.</b>				
	For shaft 600 mm	8UD1900-0FA00	■	■		
<b>Coupling drivers, for 3KF LV HRC and 3KF SITOP</b>						
	<b>Version</b>	<b>Article No.</b>				
	With tolerance compensation	8UD1900-2GA00	■			
		8UD1900-6GA00		■		
		8UD1900-3GA00			■	
		8UD1900-4GA00				■
	Without tolerance compensation	8UD1900-2HA00	■			
		8UD1900-6HA00		■		
		8UD1900-3HA00			■	
		8UD1900-4HA00				■
<b>Shaft couplings, for 3KF LV HRC and 3KF SITOP</b>						
	<b>Shaft size</b>	<b>Article No.</b>				
	8 × 8 mm	8UC6022	■	■		
	10 × 10 mm	8UC6023			■	■
	12 × 12 mm	8UC6024				■

8





## Other accessories and spare parts

		Size 1	Size 2	Size 3	Size 4	Size 5
<b>Auxiliary switch modules, for 3KF LV HRC and 3KF SITOP</b>						
	<ul style="list-style-type: none"> <li>Auxiliary switch modules are supplied without auxiliary switches</li> <li>The 3KF9112-0AB00 mounting bracket is additionally required for mounting the auxiliary switch modules with the rear terminal</li> <li>The 3KD9103-6 and 3KD9103-7 auxiliary switch modules and those with a leading NO contact can only be used with 3KF if they have the operating mechanism on the front or on the left</li> </ul>					
	<b>Variant</b>	<b>Article No.</b>				
	Standard version	3KD9103-5	■	■		
	With test function	3KD9103-6	■	■		
	With leading NO contact and test function	3KD9103-7	■	■		
<b>Mounting brackets for auxiliary switch modules, for 3KF size 1 with rear terminals</b>						
	<ul style="list-style-type: none"> <li>For mounting auxiliary switch modules on 3KF switch disconnectors with rear terminal</li> </ul>					
	<b>Article No.</b>					
		3KF9112-0AB00	■			


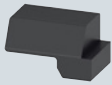






# 3KF switch disconnectors with fuses

## Accessories for 3KF LV HRC and 3KF SITOP switch disconnectors

### Other accessories and spare parts

Other accessories and spare parts					Size 1	Size 2	Size 3	Size 4	Size 5	
Auxiliary switches, for 3KF LV HRC and 3KF SITOP										
	<ul style="list-style-type: none"><li>Auxiliary switches for sizes 2 to 5 have screw terminals and are mounted on the operating mechanism module of the 3KF. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.</li><li>All auxiliary switches for sizes 2 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see Operating Instructions).</li></ul>									
	Variant	Contacts	Contact surface	Article No.						
	With connecting cables	1 CO	Standard	3KD9103-1	■					
			Solid-state compatible	3KD9103-3	■					
	Without connecting cables	1 CO	Standard	3KD9103-2	■					
			Solid-state compatible	3KD9103-4	■					
		1 NO	Standard	3SU1400-1AA10-1BA0		■	■	■	■	
			Gold-plated	3SU1400-1AA10-1LA0		■	■	■	■	
		1 NC	Standard	3SU1400-1AA10-1CA0		■	■	■	■	
			Gold-plated	3SU1400-1AA10-1MA0		■	■	■	■	
		1 NO + 1 NC	Standard	3SU1400-1AA10-1FA0		■	■	■	■	
			Gold-plated	3SU1400-1AA10-1QA0		■	■	■	■	
		2 NO	Standard	3SU1400-1AA10-1DA0		■	■	■	■	
			Gold-plated	3SU1400-1AA10-1NA0		■	■	■	■	
	2 NC	Standard	3SU1400-1AA10-1EA0		■	■	■	■		
Gold-plated		3SU1400-1AA10-1PA0		■	■	■	■			
Electronic fuse monitoring, for 3KF LV HRC and 3KF SITOP										
	Version	Article No.								
	For remote display of tripped fuses			3KF9010-1AA00	■	■	■	■	■	
Phase barriers, for 3KF LV HRC and 3KF SITOP										
	Version	Scope of supply	Article No.							
	For 3-pole devices	6 units		3KD9308-6		■				
				3KD9408-6			■	■		
				3KD9508-6					■	
	For 4-pole devices	8 units		3KD9308-8		■				
				3KD9408-8			■	■		
				3KD9508-8					■	
Terminal covers, for 3KF LV HRC										
	Version	Scope of supply	Variant	Article No.						
	For 3-pole devices	6 units	Standard length	3KD9304-6		■				
				3KF9304-6			■			
				3KD9404-6				■		
				3KD9504-6					■	
				3KD9304-7		■				
		Short version	3KF9304-7			■				
			3KD9404-7				■			
			For 4-pole devices	8 units	Standard length	3KD9304-8		■		
						3KF9304-8			■	
						3KD9404-8				■
	3KD9504-8								■	
	Short version	3KD9304-5					■			
		3KF9304-5			■					
		3KD9404-5					■			

## Other accessories and spare parts

				Size 1	Size 2	Size 3	Size 4	Size 5
<b>Spare part for terminal covers, for 3KF LV HRC</b>								
	<b>Scope of supply</b>	<b>Variant</b>	<b>Article No.</b>					
	1 unit	Standard length	3KD9504-1					■
		Short version	3KD9304-1		■			
			3KF9304-1			■		
			3KD9404-1				■	
<b>Blocking pin test function, for 3KF LV HRC and 3KF SITOP</b>								
	<ul style="list-style-type: none"> <li>Enables permanent deactivation of the test function for auxiliary switches</li> <li>It is installed in the operating mechanism module of the 3KF switch disconnector</li> </ul>							
	<b>Scope of supply</b>		<b>Article No.</b>					
	10 units		3KF9112-1AA00	■				
			3KF9412-1AA00		■		■	
			3KF9512-1AA00					■
<b>Mounting brackets, for 3KF LV HRC</b>								
	<ul style="list-style-type: none"> <li>The 3KF9112-0AB00 mounting bracket is needed if an auxiliary switch module is mounted on a 3KF1 with rear terminals</li> </ul>							
	<b>Connection</b>		<b>Article No.</b>					
	Box terminals, flat terminals		3KF9112-0AA00	■				
			3KF9212-0AA00		■			
	Flat terminals at rear		3KF9212-0AB00	■	■			
<b>Mounting brackets, for 3KF SITOP</b>								
	<b>Connection</b>		<b>Article No.</b>					
	Box terminals, flat terminals		3KF9112-0AA10	■				
			3KF9212-0AA10		■			
<b>Mounting brackets, for 3KF LV HRC and 3KF SITOP</b>								
	<b>Connection</b>		<b>Article No.</b>					
	Flat terminals		3KF9412-0AA00			■	■	
			3KF9512-0AA00					■
<b>Phase barriers, for 3KF LV HRC and 3KF SITOP</b>								
	<b>Version</b>	<b>Scope of supply</b>	<b>Article No.</b>					
	For mounting on standard mounting rail	5 units	3KF9112-0BA00	■				
<b>Fuse covers, for 3KF LV HRC</b>								
	<b>Connection</b>		<b>Article No.</b>					
	Box terminals, flat terminals		3KF9112-0CA00	■				
			3KF9212-0CA00		■			
			3KF9312-0CA00			■		
			3KF9412-0CA00				■	
			3KF9512-0CA00					■
	Flat terminals at rear		3KF9212-0CB00		■			
				NH000	NH00	NH1	NH2	NH3
<b>LV HRC isolating blades, for 3KF LV HRC and 3KF SITOP</b>								
	<b>Version</b>		<b>Article No.</b>					
	With insulated grip lugs		3NG1002	■	■			
			3NG1202			■		
			3NG1302				■	
			3NG1402					■

# 3NJ62 switch disconnectors with fuses

## System overview

### Fuse links



For LV HRC fuses



For BS fuses

### Accessories



Connection terminals and covers



Auxiliary switches



Current transformers



Ammeters



Guide rails

#### Note:

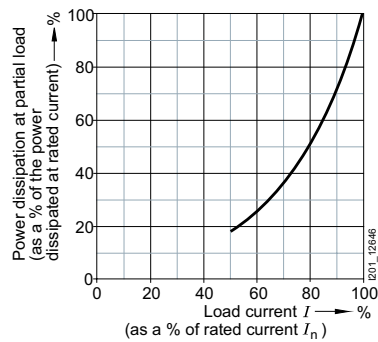
You will find a detailed range of accessories with the basic units.

## General information



### Suitable fuses

You will find further  
information under:  
[sie.ag/2UlrAvy](https://sie.ag/2UlrAvy)



The 3NJ62 switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection.

# 3NJ62 switch disconnectors with fuses

## Configuration

For a complete and valid configuration of your switch disconnectors with fuses, please use our online configurator at [www.siemens.com/lowvoltage/3nj62-configurator](http://www.siemens.com/lowvoltage/3nj62-configurator)

3NJ62				6	7	8	9	10	11	12	13	14	15	16
						—	A		0		—			
Size and type of fuse	LV HRC fuse	00	160 A	0										
		1	250 A	1										
		2	400 A	2										
		3	630 A	3										
	BS 88 fuse	A3	63 A	4										
		A3	100 A	5										
		00T	160 A	6										
		B2	250 A	7										
		B4	400 A	8										
	3T	630 A	9											
Number of poles	2-pole <sup>1)</sup>		2											
	3-pole		3											
	4-pole <sup>2)</sup>		4											
Breaking capacity	Standard breaking capacity S	AC-22B	Manually operated	1										
			Motorized operating mechanism	2										
	High breaking capacity H	AC-23B, DC-23B, DC-21B	Manually operated	3										
			Motorized operating mechanism	4										
Electronic fuse monitoring	Without			A										
	≤AC 690 V	Operate voltage <20 V	EFM10	B										
	≤AC 690 V with line monitoring	Operate voltage <13 V	EFM20	C										
	≤DC 440 V	Operate voltage <20 V	EFM25	E										
Auxiliary switches	Without			0										
	1 NC			1										
	1 NO			2										
	1 NO + 1 NC			3										

<sup>1)</sup> Not available for standard breaking capacity S

<sup>2)</sup> Pas possible pour pouvoir de coupure élevé H

3NJ62			6	7	8	9	10	11	12	13	14	15	16
					—								
Type of ammeter	Without										0		
	Moving iron										1		
	Bi-metal										2		
Wiring version of the current transformer	Without										A		
	1 current transformer to multi-function plug										B		
	3 current transformers to multi-function plug										C		
	1 current transformer to 1 ammeter										D		
	1 current transformer to 1 ammeter and multi-function plug										E		
	3 current transformers to 1 ammeter and multi-function plug										F		
Current transformer primary current	Without											A	
	50 A											B	
	100 A											D	
	150 A											E	
	200 A											F	
	250 A											G	
	300 A											H	
	400 A											J	
	500 A											K	
600 A											L		
Current transformer secondary current	Without	Without accuracy class											0
	1 A	Accuracy class 1											1
	1 A	Accuracy class 0.5											2
	1 A	Accuracy class 0.5 calibrated											3
	5 A	Accuracy class 1											4
	5 A	Accuracy class 0.5											5
	5 A	Accuracy class 0.5 calibrated											6

# 3NJ62 switch disconnectors with fuses

## Accessories

### Terminals



Variant	Article No.
For 2/3-pole devices	3NJ6923-1BA00
	3NJ6933-1BA00
	3NJ6943-1CA00
For 4-pole devices	3NJ6924-1BA00
	3NJ6934-1BA00
	3NJ6944-1CA00

### Terminal covers



Variant	Version	Article No.
For 2/3-pole devices	–	3NJ6923-1DA00
		3NJ6933-1DA01
		3NJ6943-1DA00
	As an internal terminal cover	3NJ6933-1DB00
For 4-pole devices		3NJ6904-1DA00

### Contact extensions



Number of poles	Article No.
3-pole	3NJ6923-1EB00
	3NJ6933-1EB00
	3NJ6943-1EB00
4-pole	3NJ6924-1EB00
	3NJ6934-1EB00
	3NJ6944-1EB00

### Electronic fuse monitoring and line monitoring devices



Variant	Version	Article No.
EFM 10	–	3NJ6920-3FB00
		3NJ6930-3FB00
		3NJ6940-3FB00
EFM 20	With line monitoring for AC networks	3NJ6920-3FC00
		3NJ6930-3FC00
		3NJ6940-3FC00
EFM 25	–	3NJ6920-3FE00
		3NJ6930-3FE00
		3NJ6940-3FE00

### Auxiliary switches



Contacts	Version	Article No.
1 NO contact (1 NO)	With cover	3NJ6920-2BB00
		3NJ6930-2BB00
		3NJ6940-2BB00
	Without cover	3NJ6900-2BC00
1 NC contact (1 NC)	With cover	3NJ6920-2CB00
		3NJ6930-2CB00
		3NJ6940-2CB00
	Without cover	3NJ6900-2CC00





# 3NJ62 switch disconnectors with fuses

## Accessories

Current transformers for main devices and contact extensions



Rated current $I_e$	Class	Apparent power consumption	Feed-through opening diameter	Article No.
50 A/1 A	1	1 VA	Ø 21 mm	3NJ6920-3BB11
50 A/5 A	1	1 VA	Ø 21 mm	3NJ6920-3BB21
100 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BD11
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BD12
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BD13
100 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BD21
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BD22
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BD23
150 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BE11
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BE12
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BE13
150 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BE21
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BE22
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BE23
200 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF11
	0.5	3,75 VA	Ø 21 mm	3NJ6930-3BF12
200 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF21
	0.5	5 VA	Ø 21 mm	3NJ6930-3BF22
250 A/1 A	1	5 VA	Ø 21 mm	3NJ6930-3BG11
	0.5	5 VA	Ø 21 mm	3NJ6930-3BG12
250 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BG21
	0.5	2.5 VA	Ø 21 mm	3NJ6930-3BG22
300 A/1 A	1	5 VA	–	3NJ6940-3BH11
	0.5	5 VA	–	3NJ6940-3BH12
	0.5 calibrated	5 VA	–	3NJ6940-3BH13
300 A/5 A	1	5 VA	–	3NJ6940-3BH21
	0.5	5 VA	–	3NJ6940-3BH22
	0.5 calibrated	5 VA	–	3NJ6940-3BH23
400 A/1 A	1	5 VA	–	3NJ6940-3BJ11
	0.5	5 VA	–	3NJ6940-3BJ12
	0.5 calibrated	5 VA	–	3NJ6940-3BJ13
400 A/5 A	1	5 VA	–	3NJ6940-3BJ21
	0.5	5 VA	–	3NJ6940-3BJ22
	0.5 calibrated	5 VA	–	3NJ6940-3BJ23
500 A/1 A	1	5 VA	–	3NJ6940-3BK11
	0.5	5 VA	–	3NJ6940-3BK12
	0.5 calibrated	5 VA	–	3NJ6940-3BK13
500 A/5 A	1	5 VA	–	3NJ6940-3BK21
	0.5	5 VA	–	3NJ6940-3BK22
	0.5 calibrated	5 VA	–	3NJ6940-3BK23
600 A/1 A	1	5 VA	–	3NJ6940-3BL11
	0.5	5 VA	–	3NJ6940-3BL12
	0.5 calibrated	5 VA	–	3NJ6940-3BL13
600 A/5 A	1	5 VA	–	3NJ6940-3BL21
	0.5	5 VA	–	3NJ6940-3BL22
	0.5 calibrated	5 VA	–	3NJ6940-3BL23



# 3NJ62 switch disconnectors with fuses

## Accessories

### Current transformer busbars



Variant	Version	Article No.
For current transformers with feed-through opening diameter 21 mm	For 1 current transformer	3NJ6920-3DB00
		3NJ6930-3DB00
	For 3 current transformers	3NJ6920-3DC00
		3NJ6930-3DC00
For current transformers with feed-through opening diameter 14 mm	For 4 current transformers	3NJ6920-3DD00
		3NJ6930-3DD00
	For 1 current transformer	3NJ6920-3DE00
	For 3 current transformers	3NJ6920-3DF00
	For 4 current transformers	3NJ6920-3DG00

### Holders



Version	Article No.
For ammeters	3NJ6900-4GA00

### Ammeters



Variant	Version	Rated current I <sub>e</sub>	Article No.
Moving-iron measuring instruments	For measurements on transformer x/1 A with double overload	50 A/1 A	3NJ6900-4HB11
		100 A/1 A	3NJ6900-4HD11
		150 A/1 A	3NJ6900-4HE11
		200 A/1 A	3NJ6900-4HF11
		250 A/1 A	3NJ6900-4HG11
		300 A/1 A	3NJ6900-4HH11
		400 A/1 A	3NJ6900-4HJ11
		500 A/1 A	3NJ6900-4HK11
	For measurements on transformer x/5 A with double overload	600 A/1 A	3NJ6900-4HL11
		50 A/5 A	3NJ6900-4HB21
		100 A/5 A	3NJ6900-4HD21
		150 A/5 A	3NJ6900-4HE21
		200 A/5 A	3NJ6900-4HF21
		250 A/5 A	3NJ6900-4HG21
		300 A/5 A	3NJ6900-4HH21
		400 A/5 A	3NJ6900-4HJ21
Bi-metal measuring instruments	For measurements on transformer x/1 A with 1.2-times overload	500 A/5 A	3NJ6900-4HK21
		600 A/5 A	3NJ6900-4HL21
	For measurements on transformer x/5 A with 1.2-times overload	50 A/1 A	3NJ6900-4HB12
		100 A/1 A	3NJ6900-4HD12
		150 A/1 A	3NJ6900-4HE12
		200 A/1 A	3NJ6900-4HF12
		250 A/1 A	3NJ6900-4HG12
		300 A/1 A	3NJ6900-4HH12
		400 A/1 A	3NJ6900-4HJ12
	For measurements on transformer x/5 A with 1.2-times overload	500 A/1 A	3NJ6900-4HK12
		600 A/1 A	3NJ6900-4HL12
		50 A/5 A	3NJ6900-4HB22
		100 A/5 A	3NJ6900-4HD22
		150 A/5 A	3NJ6900-4HE22
		200 A/5 A	3NJ6900-4HF22
		250 A/5 A	3NJ6900-4HG22
		300 A/5 A	3NJ6900-4HH22
		400 A/5 A	3NJ6900-4HJ22
		500 A/5 A	3NJ6900-4HK22
		600 A/5 A	3NJ6900-4HL22



8

# 3NJ62 switch disconnectors with fuses

## Accessories

### Multi-function plugs



Version	Dimensions	Article No.
With fixing screws	6 × 2.5 mm <sup>2</sup>	3NJ6920-3EB01
	8 × 2.5 mm <sup>2</sup>	3NJ6920-3ED01
		3NJ6940-3EC00
Without fixing screws	8 × 2.5 mm <sup>2</sup>	3NJ6940-3ED00
	10 × 1.5 mm <sup>2</sup> and 8 × 2.5 mm <sup>2</sup>	3NJ6920-3EE01
	12 × 1.5 mm <sup>2</sup> and 8 × 2.5 mm <sup>2</sup>	3NJ6940-3EF00

### Front panels



Purpose	Version	Article No.
3NJ6203-1AA... and 3NJ6203-3AA... with/without EFM	With LV HRC fuse	3NJ6923-4BB00
	With BS 88 fuse	3NJ6923-4BC00
3NJ6213-1AA... and 3NJ6213-3AA... with/without EFM	With LV HRC fuse	3NJ6933-4BB00
	With BS 88 fuse	3NJ6933-4BC00
3NJ6223-1AA... and 3NJ6223-3AA... with/without EFM	With LV HRC fuse	3NJ6943-4BB00
	With BS 88 fuse	3NJ6943-4BC00
3NJ6233-1AA... and 3NJ6233-3AA... with/without EFM	With LV HRC fuse	3NJ6953-4BB00
	With BS 88 fuse	3NJ6953-4BC00

### Busbar covers



Article No.
3NJ6916-4EA00

### Blanking covers



Article No.
3NJ6900-4CB00

### Connection modules



Article No.
3NJ6915-3BA00

### Guide rails



Overall depth	Article No.
200 mm	3NJ6900-4FB00
400 mm	3NJ6900-4FC00

### LV HRC fuse puller tongs

Version	Article No.
For NH00	XPT:8PT9624
For NH1, NH2, NH3	XPT:8PT9625

### Locking devices for padlocks



Article No.
3NJ6900-4LL



# 5SG switch disconnectors with fuses

## System overview

### MINIZED switch disconnectors with fuses



1P



3P

### NEOZED SR60 bus-mounting switch disconnectors



3P



3P, with terminals

### Accessories



Auxiliary switches



Lateral modules




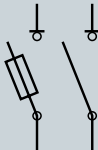
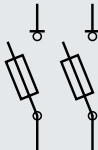
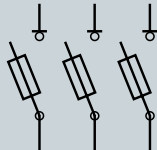
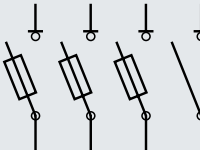
Reducers

**Note:**

You will find a detailed range of accessories with the basic units.





Number of poles		1P	1P+N	2P	3P	3P+N	
							
Size of fuse	Rated current I <sub>n</sub>	Mounting width 1.5 MW	Mounting width 3 MW	Mounting width 3 MW	Mounting width 1.5 MW	Mounting width 4.5 MW	Mounting width 6 MW
MINIZED switch disconnectors with fuses <sup>1) 3)</sup>							
D02	63 A	5SG7113	5SG7153	5SG7123	–	5SG7133	5SG7163
MINIZED switch disconnectors with fuses – version for Austria only <sup>2) 3)</sup>							
D02	25 A	–	–	–	–	5SG7133-8BA25	–
	35 A	–	–	–	–	5SG7133-8BA35	–
	50 A	–	–	–	–	5SG7133-8BA50	–
NEOZED SR60 bus-mounting switch disconnectors							
D02	63 A	–	–	–	5SG7230 <sup>4)</sup>	–	–
NEOZED SR60 bus-mounting switch disconnectors, without LED signal detector							
D02	63 A	–	–	–	5SG7234-1 <sup>4)</sup>	–	–
NEOZED SR60 bus-mounting switch disconnectors, with LED signal detector							
D02	63 A	–	–	–	5SG7234-2 <sup>5)</sup>	–	–

<sup>1)</sup> Using draw-out technology with touch protection according to BGV A3, adapter sleeves not included in the scope of delivery


<sup>2)</sup> With permanently fitted adapter sleeves, incl. fuse link

<sup>3)</sup> Do not use fuse links with nickel-plated contact caps


<sup>4)</sup> In the case of permanent load over 35 A, we recommend the use of 5SH5526 lateral modules. Please observe EN 60439-1, Table 1

<sup>5)</sup> In the case of permanent load over 35 A, we recommend the use of 5SH5533 lateral modules. Please observe EN 60439-1, Table 1


## Accessories




Version	Variant	Mounting width	Contacts	Article No.
For MINIZED D02 switch disconnectors	Standard	0.5 MW	1 NO + 1 NC	5ST3010
			2 NO	5ST3011
			2 NC	5ST3012
	With test button	0.5 MW	1 NO + 1 NC	5ST3010-2
			2 NO	5ST3011-2
			2 NC	5ST3012-2



For NEOZED SR60 bus-mounting switch disconnectors	Standard	0.5 MW	1 CO	5SH5525
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Version	Variant	Mounting width	Article No.
For NEOZED SR60 bus-mounting switch disconnectors	5SG7230	0.5 MW	5SH5526
	5SG7234-1 and -2	0.5 MW	5SH5533



Version	Article No.
For D01 fuse links	5SH5527

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- for consulting services the „General Terms and Conditions for Consulting Services of the Division DF – Germany“<sup>1)</sup> and/or
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# Link directory

## Catalog LV 10

### General information

Information on low-voltage power distribution and electrical installation technology	<a href="http://www.siemens.com/lowvoltage">www.siemens.com/lowvoltage</a>
Tender specifications	<a href="http://www.siemens.com/lowvoltage/tenderspecifications">www.siemens.com/lowvoltage/tenderspecifications</a>
Conversion tool	<a href="http://www.siemens.com/conversion-tool">www.siemens.com/conversion-tool</a>
Image database	<a href="http://www.siemens.com/lowvoltage/picturedb">www.siemens.com/lowvoltage/picturedb</a>
CAX download manager	<a href="http://www.siemens.com/lowvoltage/cax">www.siemens.com/lowvoltage/cax</a>
Newsletter system	<a href="http://www.siemens.com/lowvoltage/newsletter">www.siemens.com/lowvoltage/newsletter</a>
Siemens YouTube channel	<a href="http://www.youtube.com/Siemens">www.youtube.com/Siemens</a>
Brochures / catalogs	<a href="http://www.siemens.com/lowvoltage/catalogs">www.siemens.com/lowvoltage/catalogs</a>
Operating instructions / manuals	<a href="http://www.siemens.com/lowvoltage/manuals">www.siemens.com/lowvoltage/manuals</a>
Siemens Industry Online Support	<a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a>
Siemens Industry Online Support app	<a href="http://www.siemens.com/support-app">www.siemens.com/support-app</a>
My Documentation Manager (MDM)	<a href="http://www.siemens.com/lowvoltage/mdm">www.siemens.com/lowvoltage/mdm</a>
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## LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and  
Monitoring Devices, Switchboards and  
Distribution Systems

PDF (E86060-K8280-A101-B2-7600)



## LV 14 Power Monitoring Made Simple SENTRON

E86060-K1814-A101-A7-7600



## LV 18 Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification SENTRON

PDF (E86060-K8280-E347-A5-7600)



## ET D1 Switches and Socket Outlets DELTA

PDF



## IC 10 Industrial Controls SIRIUS

E86060-K1010-A101-B1-7600



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## Siemens TIA Selection Tool for the selection, configuration and ordering of TIA products and devices

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[www.siemens.com/sitrain](http://www.siemens.com/sitrain)

The catalogs listed above and additional catalogs are  
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Further information on low-voltage power distribution  
and electrical installation technology is available on the  
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