

Catalog
Extract
LV 10

Edition
10/2023

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Switch Disconnectors

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Catalog LV 10 · 10/2023

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The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep). The certificate is recognized by all IQNet countries.

Technical specifications

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	1/2
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
	Switchboards, Distribution Boards and Small 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

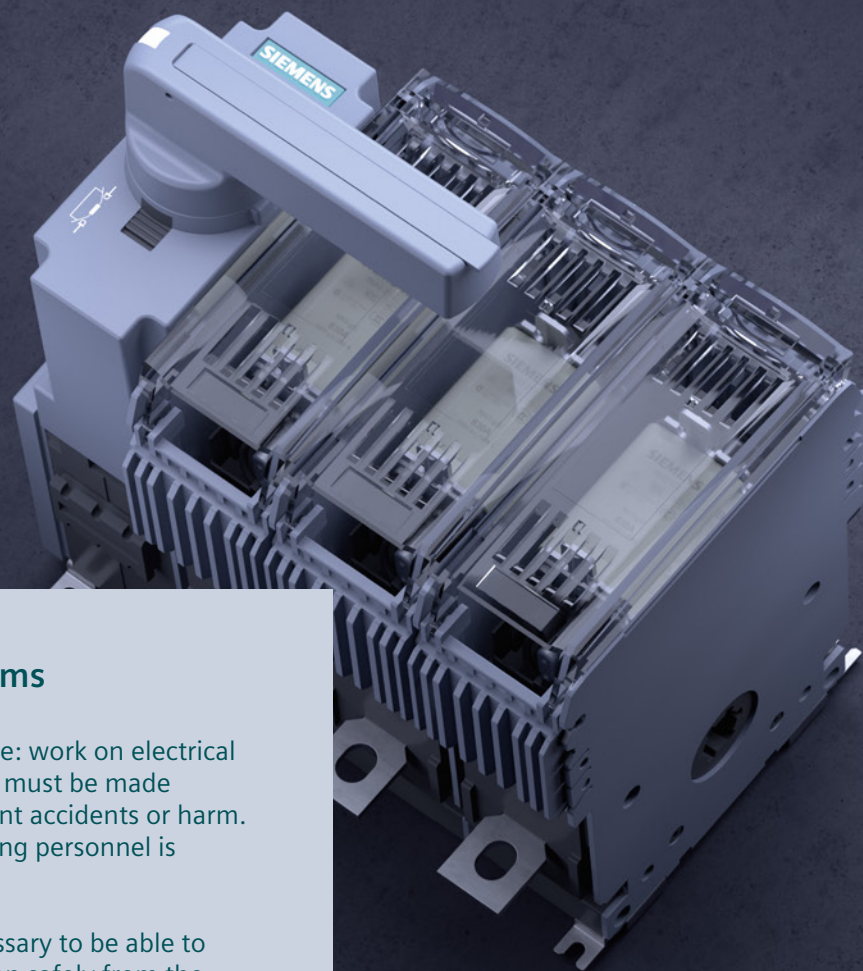
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15

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 easy to install and can be quickly put into operation. 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-keeping and save you time and money. 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	8/12
3KD switch disconnectors	8/66
Fuse switch disconnectors	8/82
Quick selection guide	8/82
3NP1 fuse switch disconnectors	8/84
3NP5 fuse switch disconnectors	8/98
3NJ4 fuse switch disconnectors	8/102
5SG76 fuse switch disconnectors	8/114
Switch disconnectors with fuses	8/116
Quick selection guide	8/116
3KF switch disconnectors with fuses	8/120
3NJ63 switch disconnectors with fuses	8/136
5SG switch disconnectors with fuses	8/144

A multitude of additional information ...

Information + ordering

All the important things at a glance

For information about switch disconnectors, please visit our website www.siemens.com/switching-devices

Your product in detail

The relevant tender specifications can be found at www.siemens.com/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Configurators

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

Configure your switch disconnector at www.siemens.com/lowvoltage/3nj63-configurator
www.siemens.com/lowvoltage/3ld-configurator
www.siemens.de/lowvoltage/3kd-konfigurator
 your switch disconnector with fuses at www.siemens.com/lowvoltage/3kf-configurator
 and your 3NP1 fuse switch disconnector at www.siemens.com/lowvoltage/3np1-configurator

Choose the right SITOR semiconductor fuse for your application www.siemens.com/lowvoltage/sitor-configurator

Everything you need for your order

Refer to SiePortal to find an overview of your products (product catalog)

- Switch disconnectors sie.ag/36HDiZp

Direct forwarding to the individual products in SiePortal by clicking on the article number in the catalog or entering this web address incl. article number www.siemens.com/product_catalog_SIEP?Article No.

You will find order support for the electrical wholesale trade carrying fast-selling items in SiePortal at www.siemens.com/lowvoltage/product-support

- Order Support
 - 3KD switch disconnectors – End-to-end safety for user and systems (109750228)
 - 3LD2 main control and EMERGENCY-STOP-switching equipment – End-to-end safety for user and systems (109755626)
 - 3NP1 fuse switch disconnectors – End-to-end safety for user and systems (109755624)
 - 3KF switch disconnectors with fuses – End-to-end safety for user and systems (109750229)
 - 3NJ63 switch disconnectors with fuses – End-to-end safety for user and systems (109755619)

8

The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/components/contact

You will find further information on services at www.siemens.com/service-offers

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/support-request

... can be found in our online services

Commissioning + operation

Your product in detail

The SiePortal platform (knowledge base) provides detailed technical information
www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Online Support app available for download from the [App Store](#) and [Play Store](#)

You will find further information at
<http://www.siemens.com/support-app>

Provision of 3D data (step and u3d data formats)

- SiePortal (product catalog)
www.siemens.com/lowvoltage/product-catalog
- Image database
www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAX Download Manager at
www.siemens.com/cax

Manuals

Manuals can be found in SiePortal at
www.siemens.com/lowvoltage/manuals

- Configuration Manual
 - Switch disconnectors (**109769744**)
 - Fuse systems (**45314810**)
 - Transfer switching equipment and load transfer switches (**109769745**)
 - 8US busbar systems (**109769746**)
- System Manual
 - SENTRON 3NJ62 in-line plug-in switch disconnectors with fuses (**31753460**)
 - SENTRON 3NP1 fuse switch disconnectors (**33515690**)
- Equipment Manual
 - 3KD switch disconnectors (**109758120**)

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 (**109764946**)

Quick selection guide

Load switching devices for all applications

Fuseless switch disconnectors³⁾



Functional switching¹⁾



Type	3LD3	3LD2	3LD5 UL	3KD	3VA
Uninterrupted current I_u	16 ... 63 A	16 ... 250 A	30 ... 160 A	16 ... 2000 A	63 ... 630 A
Short-circuit current max.	10 kA	50 kA	50 kA	100 kA	110 kA ⁵⁾
Selection acc. to utilization category	AC max.	AC-3	AC-3	AC-3	AC-23A
	DC max.	–	DC-22A	–	DC-23A (up to 250 A)

Suitable fuses	3LD3	3LD2	3LD5 UL	3KD	3VA
	–	–	–	–	–

Types of mounting	Floor mounting	■	■	■	■	■
	Mounting on a DIN rail	■	■ (up to 125 A)	■ (up to 63 A)	■ (up to 250 A)	■ (up to 160 A)
	Front mounting	■	■	■	–	–
	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	–	–	–	–	–

Further information

From page 8/6

From page 2/1

¹⁾ 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.

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

³⁾ Pure switching without protection function

Fuse switch disconnectors ⁴⁾



Occasional switching ²⁾

Switch disconnectors with fuses ⁴⁾



Functional switching ¹⁾



Occasional switching ²⁾

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 8/82

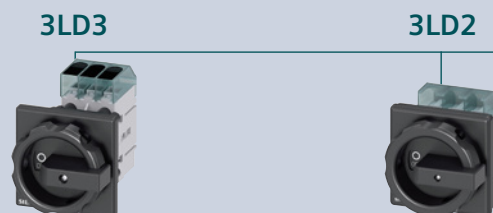
3KF NH	3KF SITOR	3NJ62	5SG71/72
32 ... 800 A	32 ... 800 A	63 ... 630 A	63 A
100 kA	100 kA	100 kA	50 kA
AC-23A	AC-23A	AC-23B	AC-23A
DC-23A	DC-23A	DC-23B	DC-22B
IEC NH	IEC LV HRC, optimized for semiconductor protection	IEC NH	NEOZED
■	■	-	-
■	■	-	-
-	-	-	-
-	-	185 mm	60 mm
-	-	■	-
■	■	■	■
■	■	-	-
-	-	■	-
-	-	-	■
■	■	■	■
■	■	■	■
-	-	-	-
■	■	■	■
-	-	-	-

From page 8/116

⁴⁾ The suitable fuses protect persons, motors, installations and generators against short circuit and overload
⁵⁾ 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_u		A	16	25	32	40	63	16	25	32
Rated operational voltage U_e	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 $I_e^{1)}$	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 at 400 V	kW	5.5	7.5	9.5	11.5	18.5	5.5	7.5	9.5
	At AC-3 at 690 V	kW	5.5	7.5	9.5	11.5	15	5.5	7.5	9.5
Rated short-time withstand current I_{cw}	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	10	10	10	10	10	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_n acc. to UL 508/UL 60947-4-1 UL 489	A	16 –	25 –	32 –	40 –	63 –	16 –	25 –	32 –	
U_e acc. to UL 508/UL 60947-4-1 UL 489	V AC	600 –				600 –				
Operating and short-circuit behavior										
Operational power, 3-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			
Further information										
			See page 8/12				See page 8/24			

3LD2



3LD5 UL



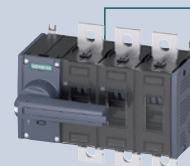
3LD25	3LD27	3LD28	3LD23	3LD24	3LD50	3LD52	3LD54	3LD56	3LD58
63	100	125	160	250	32	63	100	125	160
		690					690		
		-					-		
		-					-		
		-					-		
-	-	-	-	-	-	-	-	-	-
63	100	125	160	250	32	63	100	125	160
63	100	125	160	250	32	63	100	125	160
63	100	125	140	230	32	63	100	125	160
63	100	125	140	230	32	63	100	125	160
-	-	-	-	-	-	-	-	-	-
43	70	80	132	224	32	63	100	125	160
22	34	39	47	58	22	39	39	47	58
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
22	37	45	75	132	15	30	45	55	75
18.5	30	37	45	55	18.5	37	37	45	55
18.5	30	37	50	110	15	30	45	55	75
15	22	30	37	45	-	-	30	37	45
1.26	2	2	4	4	1.26	2	4	4	4
-	-	-	-	-	-	-	-	-	-
50	50	25	50	50	50	50	50	50	50
50	50	25	50	50	50	50	50	50	30
		IP65					IP65		
		UL 508					UL 60947-4-1/UL 489		
63 -	100 -	125 -	160 -	250 -	30 30	60 60	100 100	125 125	150 150
		600 -					480 480		
40	60	75	75	100	20	30	60	75	100
50	75	100	50	75	-	-	-	-	-
5 5	10 10	10 10	10 10	10 10	50 -	65 -	65 -	65 -	50 -
		RK5			J CC	J	J	J	J
		See page 8/24					See page 8/56		

Fuseless switch disconnectors

Quick selection guide for AC and AC/DC applications



3KD



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
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General technical specifications acc. to IEC 60947-3

General technical specifications

Rated uninterrupted current I_u	A	16	32	63	63	80	100	125	16	32	63	80
Rated operational voltage U_e	At 50/60 Hz AC	V	690	690	415	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_e ¹⁾	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
At AC-23A AC-23B at 690 V		kW	11	15	–	18.5	22	30	30	11	30	55	75
At AC-3 at 400 V		kW	–	–	–	–	–	–	–	–	–	–	–
Rated short-time withstand current I_{cw}	At 690 V AC (t = 1 s)	kA	1.26	1.26	1.26 ¹⁾	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_n acc. to UL 508/UL 60947-4-1 | UL 489

U_e acc. to UL 508/UL 60947-4-1 | UL 489

Operating and short-circuit behavior

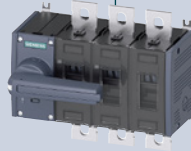
Operational power, 3-phase	At 480 V	hp	–
	At 600 V	hp	–
Short circuit current rating (SCCR)	At 480 V at 600 V	kA	–
Fuse type			–

Further information

See page 8/66

¹⁾ Applies to 415 V AC

3KD



3KD 28..-N	3KD 30..-M.	3KD 30..-N.	3KD 32	3KD 34	3KD 36..-N	3KD 36..-P	3KD 38..-N.	3KD 38..-P.	3KD 40	3KD 42	3KD 44..-P.	3KD 44..-Q.	3KD 46	3KD 48	3KD 50..-Q.	3KD 50..-R.	3KD 52	3KD 54	3KD 56
80	100	100	125	160	200	200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	100	100	125	160	200	200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
80	100	100	125	160	200	200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
80	100	100	125	160	200	200	250	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
80	100	100	125	160	200	200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
80	80	100	125	160	160	200	200	250	315	400	400	500	630	800	800	1000	1250	1600	1600
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
80	100	100	125	160	200	200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	-	-	-	-
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	-	-	-	-
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	-	-	-	-
45	45	55	55	90	90	110	90	132	160	200	200	250	355	400	560	560	710	900	1000
75	75	90	110	110	110	185	110	250	315	315	315	500	630	800	1000	1000	1000	1000	1000
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	3	4	4	4	4	13	4	13	13	13	13	30	30	30	30	55	55	55	55
4	3	4	4	4	4	13	4	13	13	13	13	30	30	30	30	55	55	55	55
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	80	80	80
80	100	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	100	100	65

IP65

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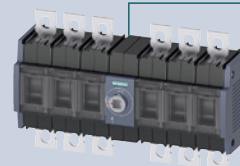
See page 8/66

Fuseless switch disconnectors

Quick selection guide for DC applications



3KD



Type		3KD 16	3KD 22	3KD 26	3KD 28	3KD 30	3KD 32	3KD 34	3KD 36	3KD 38	
General technical specifications acc. to IEC 60947-3											
General technical specifications											
Rated uninterrupted current I_u		A	16	32	63	80	100	125	160	200	250
Rated operational voltage U_e	At DC - at degree of pollution 2	V	1200	1200	1200	1200	1200	1200	1200	1200	1200
	At DC - at degree of pollution 3	V	1000	1000	1000	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1200	1200
Operating and short-circuit behavior											
Rated operational current I_e	At DC-21A at 1200 V	A	16	32	63	80	100	125	160	–	–
	At DC-21B at 1200 V	A	16	32	63	80	100	125	160	200	250
Rated short-time withstand current I_{cw}	At DC 1200 V (t = 1 s)	kA	3	3	3	4	4	4	4	10	10
Degree of protection											
Maximum achievable IP degree of protection (with a rotary operating mechanism)											IP20
General technical specifications acc. to UL											
General technical specifications											
Certification according to UL standard											–
I_n acc. to UL 508/UL 60947-4-1 UL 489		A									–
U_e acc. to UL 508/UL 60947-4-1 UL 489		AC V									–
Operating and short-circuit behavior											
Operational power, 3-phase	At 480 V	hp									–
	At 600 V	hp									–
Short circuit current rating (SCCR)	At 480 V at 600 V	kA									–
Fuse type											–
Further information											
											See page 8/66

¹⁾ Valid for version with box terminal, version with flat terminal max. 1200 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 and basic switches without knob-operated mechanism

3P knob-operated mechanisms
(installation in distribution boards)3P basic switches without
knob-operated mechanism3P+N knob-operated mechanisms
(installation in distribution boards)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 mountingDoor-coupling rotary
operating mechanismsDoor-coupling knob-
operated mechanismsDoor-coupling knob-
operated mechanisms,
defeatable

Further accessories



Terminal covers, 1 and 3-pole



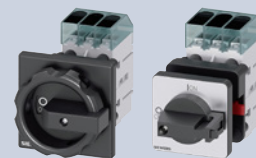
Inscription labels

Note:

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

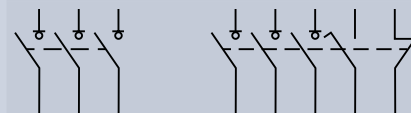
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches,
front mounting, 10 kA_{rms}



Operating mechanisms, black

Number of poles 3P



Uninterrupted current I_u 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
Rotary operating mechanisms				
16 A	7.5 kW	5.5 kW	3LD3054-0TK51	3LD3054-1TK51
25 A	9 kW	7.5 kW	3LD3154-0TK51	3LD3154-1TK51
32 A	11.5 kW	9.5 kW	3LD3254-0TK51	3LD3254-1TK51
40 A	18.5 kW	11.5 kW	3LD3354-0TK51	3LD3354-1TK51
63 A	22 kW	18.5 kW	3LD3454-0TK51	3LD3454-1TK51
Knob-operated mechanisms				
16 A	7.5 kW	5.5 kW	3LD3050-0TK11	3LD3050-1TK11
25 A	9 kW	7.5 kW	3LD3150-0TK11	3LD3150-1TK11
32 A	11.5 kW	9.5 kW	3LD3250-0TK11	3LD3250-1TK11
40 A	18.5 kW	11.5 kW	3LD3350-0TK11	3LD3350-1TK11
63 A	22 kW	18.5 kW	3LD3450-0TK11	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)


Additional poles

Type	Contacts	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
	N switching contact (4th contact element)	Leading switch-on, lagging switch-off	3LD9340-0B	■	■	■	■
	N terminal	Through-type	3LD9340-2B	■	■	■	■
	PE terminal	Through-type	3LD9340-3B	■	■	■	■


Auxiliary switches

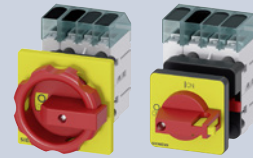
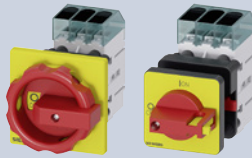
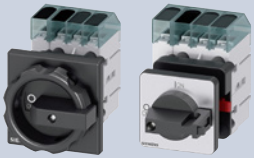
Contacts	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 1 NO + 1 NC	3LD9340-6B	■	■	■	■	■

Rotary operating mechanisms

Version	Color	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 Lockable in 0 position with max. 3 padlocks	Black	3LD9344-4C	■	■	■	■	■
	Red/yellow	3LD9344-5C	■	■	■	■	■

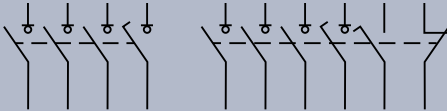
Knob-operated mechanisms

Version	Color	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 Lockable in 0 position with max. 2 padlocks	Black	3LD9343-6C	■	■	■	■	■
	Red/yellow	3LD9343-7C	■	■	■	■	■



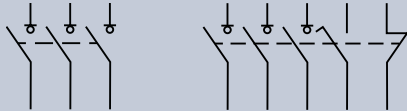
Operating mechanisms, red/yellow

3P+N

Without
auxiliary switch

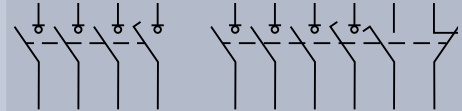
1 NO + 1 NC

3P

Without
auxiliary switch

1 NO + 1 NC

3P+N

Without
auxiliary switch

1 NO + 1 NC

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

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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

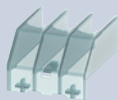
Version

Article No.



For N switching contacts, N terminals or PE terminals

3LD9341-2A



For 3-pole 3LD3 switch disconnectors

3LD9341-0A

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

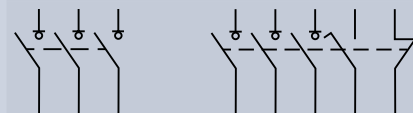
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, floor mounting, 10 kA_{rms}



Operating mechanisms, black

Number of poles 3P



Uninterrupted current I_u 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
Door-coupling rotary operating mechanisms, center-hole mounting \varnothing 22.5 mm				
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
Door-coupling knob-operated mechanisms, center-hole mounting \varnothing 22.5 mm				
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)
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Additional poles

Type	Contacts	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 N switching contact (4th contact element)	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.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 1 NO + 1 NC	3LD9340-6C	■	■	■	■	■


Rotary operating mechanisms

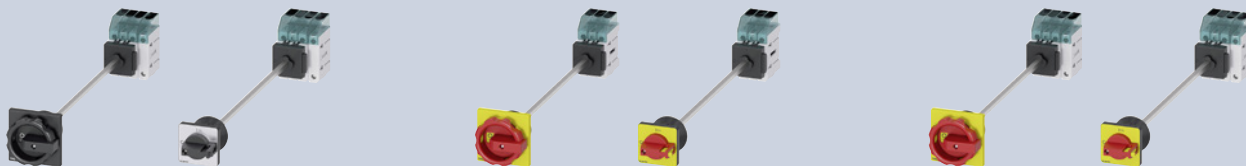
Version	Color	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 • Lockable in 0 position with max. 3 padlocks • Incl. funnel	Black	3LD9344-2C	■	■	■	■	■
	Red/yellow	3LD9344-3C	■	■	■	■	■

Knob-operated mechanisms

Version	Color	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 • Lockable in 0 position with max. 2 padlocks • Incl. funnel	Black	3LD9343-4C	■	■	■	■	■
	Red/yellow	3LD9343-5C	■	■	■	■	■

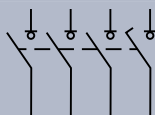
Switch shafts

Cross-section	Length	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
 6 × 6 mm	600 mm	3LD9345-1C	■	■	■	■	■

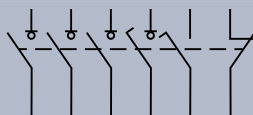


Operating mechanisms, red/yellow

3P+N

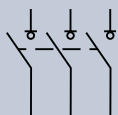


Without auxiliary switch

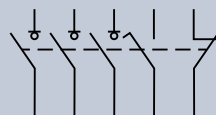


1 NO + 1 NC

3P

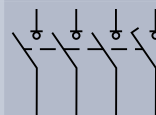


Without auxiliary switch

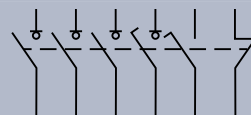


1 NO + 1 NC

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

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



Type	Color	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
German/English (Hauptschalter/Main Switch)	3LD9346-1A	■	■	■	■	■
French/Spanish (Interrupteur Principal/Interruptor Principal)	3LD9346-2A	■	■	■	■	■
Without inscription	3LD9346-3A	■	■	■	■	■

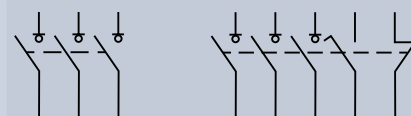
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, installation in distribution boards and basic switches without knob-operated mechanism, 10 kA_{rms}



Operating mechanisms, black

Number of poles 3P



Uninterrupted current I_n 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
Switches for installation in distribution boards with masking plate and selector knob, DIN-rail mounting				
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
Basic switches without knob-operated mechanism				
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:

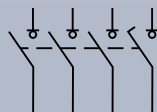
- Using screws or snap-on mounting on 35 mm mounting rails

Accessories see page 8/20

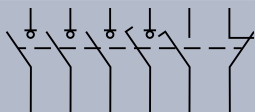


Operating mechanisms, red/yellow

3P+N

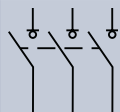


Without auxiliary switch

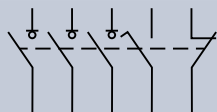


1 NO + 1 NC

3P

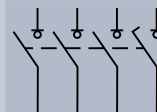


Without auxiliary switch

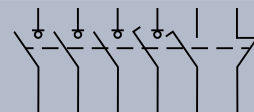


1 NO + 1 NC

3P+N



Without auxiliary switch



1 NO + 1 NC

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

-

-

-

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3LD3210-OTL05

3LD3210-1TL05

-

-

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3LD3310-OTL05

3LD3310-1TL05

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3LD3410-OTL05

3LD3410-1TL05

-

-




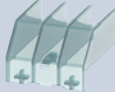
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3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, installation in distribution boards and basic switches without knob-operated mechanism, 10 kA_{rms}

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)
Additional poles								
	Type	Contacts	Article No.					
	N switching contact (4th contact element)	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	■	■	■	■	■
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	■	■	■	■	■








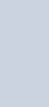
Accessories for basic switches without knob-operated mechanism

3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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Door-coupling rotary operating mechanisms					3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
	Type	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	■	■	■	■	■	
	Knob-operated mechanisms, defeatable, 66 × 66 mm	Black	3LD9343-2CA	■	■	■	■	■	
Red/yellow		3LD9343-3CA	■	■	■	■	■		
Rotary operating mechanisms									
	Version	Color	Article No.						
	<ul style="list-style-type: none"> Lockable in 0 position with max. 3 padlocks Incl. funnel 	Black	3LD9344-2C	■	■	■	■	■	
		Red/yellow	3LD9344-3C	■	■	■	■	■	
Knob-operated mechanisms									
	Version	Color	Article No.						
	Knob-operated mechanisms	Black	3LD9343-4C	■	■	■	■	■	
		Red/yellow	3LD9343-5C	■	■	■	■	■	
	Knob-operated mechanisms, defeatable	Black	3LD9343-2C	■	■	■	■	■	
Red/yellow		3LD9343-3C	■	■	■	■	■		
<ul style="list-style-type: none"> Lockable in 0 position with max. 2 padlocks Incl. funnel 									
	<ul style="list-style-type: none"> Lockable in 0 position with max. 3 padlocks Incl. funnel 								
Switch shafts									
	Cross-section	Length	Article No.						
	6 × 6 mm	600 mm	3LD9345-1C	■	■	■	■	■	
Inscription labels									
	<ul style="list-style-type: none"> 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)
N switching contacts (4th contact element)									
	Version	Contacts	Article No.						
	For front mounting	Leading switch-on, lagging switch-off	3LD9340-0B		■	■	■	■	■
	Version	Contacts	Article No.						
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Leading switch-on, lagging switch-off	3LD9340-0C		■	■	■	■	■
N terminals									
	Version	Contacts	Article No.						
	For front mounting	Through-type	3LD9340-2B		■	■	■	■	■
	Version	Contacts	Article No.						
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Through-type	3LD9340-2C		■	■	■	■	■
PE terminals									
	Version	Contacts	Article No.						
	For front mounting	Through-type	3LD9340-3B		■	■	■	■	■
	Version	Contacts	Article No.						
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Through-type	3LD9340-3C		■	■	■	■	■
Auxiliary switches									
	Version	Contacts	Article No.						
	For front mounting	1 NO + 1 NC	3LD9340-6B		■	■	■	■	■
	Version	Contacts	Article No.						
	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)
Door-coupling rotary operating mechanisms									
	Version	Type	Color	Article No.					
	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	■	■	■	■	■
	Knob-operated mechanisms, defeatable	Knob-operated mechanisms, defeatable, 66 × 66 mm	Black	3LD9343-2CA	■	■	■	■	■
Red/yellow			3LD9343-3CA	■	■	■	■	■	
Rotary operating mechanisms									
	• Lockable in 0 position with max. 3 padlocks								
	Version	Color	Article No.						
	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	■	■	■	■	■	
Knob-operated mechanisms									
	Version	Color	Article No.						
	For front mounting	<ul style="list-style-type: none"> Lockable in 0 position with max. 2 padlocks Without funnel 	Black	3LD9343-6C	■	■	■	■	
			Red/yellow	3LD9343-7C	■	■	■	■	
	For floor mounting and basic switches without knob-operated mechanism	<ul style="list-style-type: none"> Lockable in 0 position with max. 2 padlocks Incl. funnel 	Black	3LD9343-4C	■	■	■	■	
			Red/yellow	3LD9343-5C	■	■	■	■	
	Knob-operated mechanisms, defeatable	<ul style="list-style-type: none"> Lockable in 0 position with max. 3 padlocks Incl. funnel 	Black	3LD9343-2C	■	■	■	■	
Red/yellow			3LD9343-3C	■	■	■	■		
Terminal covers									
	• For front mounting, floor mounting, installation in distribution boards and basic switches without knob-operated mechanism								
	• Pack of 4 units								
	Number of poles	Article No.							
1-pole	3LD9341-2A		■	■	■	■	■		
3-pole	3LD9341-0A		■	■	■	■	■		
Switch shafts									
	Cross-section	Length	Article No.						
	6 × 6 mm	600 mm	3LD9345-1C	■	■	■	■		
Inscription labels									
	• Pack of 10 units								
	• Not for installation in distribution boards								
	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

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



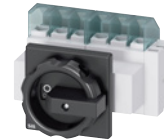
3P+N rotary operating mechanisms



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

Operating mechanisms



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



Knob-operated mechanisms (3LD23/3LD24)



Switch shafts



Coupling pieces without ON-lock



Assembly tools for center-hole mounting

Further accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole

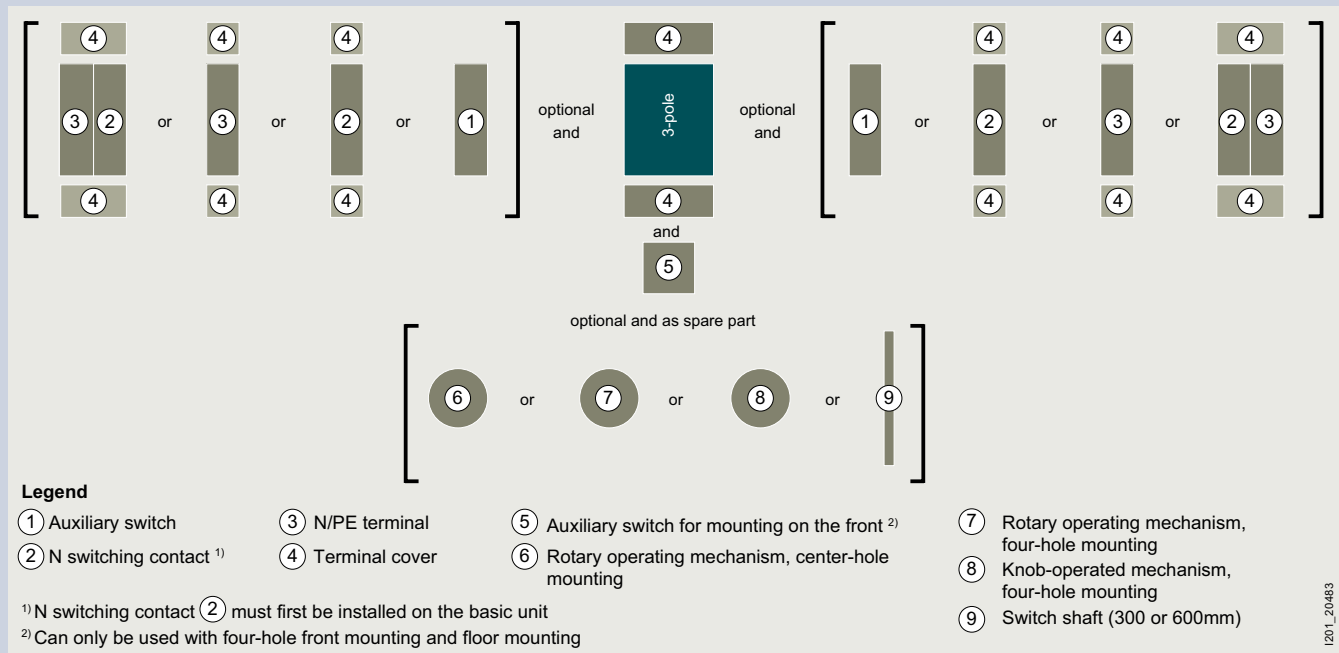


Inscription labels (with and without inscription)

Note:

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

Mounting concept and accessories



Mounting types

You will find further information under:
sie.ag/2UlrAvy



Front mounting



The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). 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 DIN 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 the 0 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 according to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers.

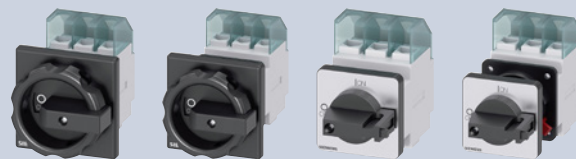
DC isolators



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.

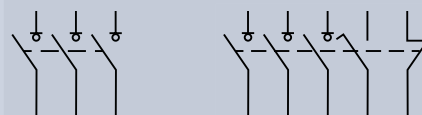
3LD switch disconnectors

3LD2 main control switches, front mounting, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P

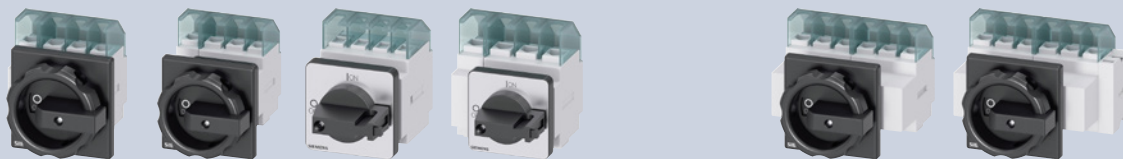


Uninterrupted current I_n At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Rotary operating mechanism, four-hole mounting				
16 A	7.5 kW	5.5 kW	3LD2003-OTK51	3LD2003-1TP51
25 A	9.5 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
Rotary operating mechanism, center-hole mounting \varnothing 22.5 mm				
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
Knob-operated mechanism, four-hole mounting				
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
Knob-operated mechanism, center-hole mounting \varnothing 22.5 mm				
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

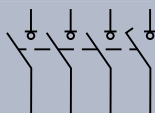
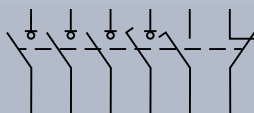
Scope of supply:

- Including terminal covers for the infeed side

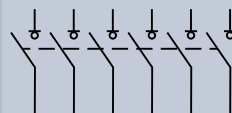
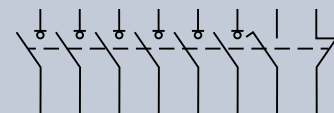
Accessories, see page 8/30



3P+N

Without
auxiliary switch1 NO + 1 NC
(standard version)

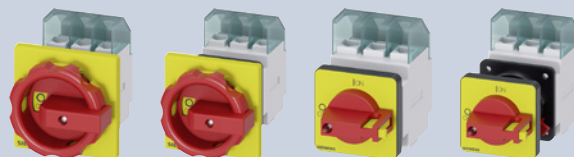
6P

Without
auxiliary switch1 NO + 1 NC
(standard version)

3LD2003-1TL51	3LD2003-2EP51	–	–
3LD2103-1TL51	3LD2103-2EP51	3LD2103-3VK51	3LD2103-4VP51
3LD2203-1TL51	3LD2203-1TL51 + 3LD9200-5B	3LD2203-3VK51	3LD2203-3VK51 + 3LD9200-5B
3LD2504-1TL51	3LD2504-1TP51 + 3LD9250-0BA	3LD2504-3VK51	3LD2504-3VK51 + 3LD9200-5B
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	3LD2305-3VK11	3LD2305-3VK11 + 3LD9200-5B
3LD2405-1TL11	3LD2405-1TL11 + 3LD9200-5B	3LD2405-3VK11	3LD2405-3VK11 + 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	3LD2122-3VK11	–
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	–	–

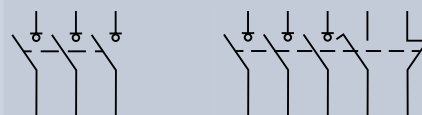
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, front mounting, 25 ... 50 kA_{rms}



Operating mechanisms, red/yellow

Number of poles 3P

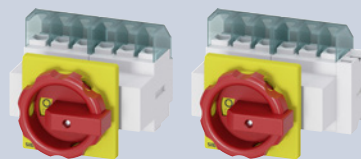
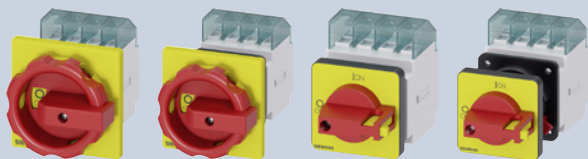


Uninterrupted current I_n At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Rotary operating mechanism, four-hole mounting				
16 A	7.5 kW	5.5 kW	3LD2003-OTK53	3LD2003-1TP53
25 A	9.5 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
Rotary operating mechanism, center-hole mounting \varnothing 22.5 mm				
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
Knob-operated mechanism, four-hole mounting				
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
Knob-operated mechanism, center-hole mounting \varnothing 22.5 mm				
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

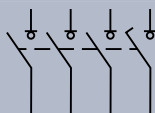
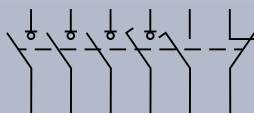
Scope of supply:

- Including terminal covers for the infeed side

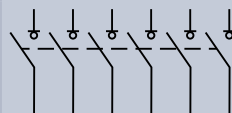
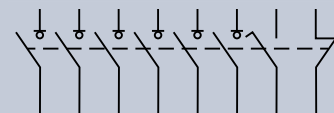
Accessories, see page 8/30



3P+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

3LD2103-3VK53

3LD2103-4VP53

3LD2203-1TL53

3LD2203-1TL53 + 3LD9200-5B

3LD2203-3VK53

3LD2203-3VK53 + 3LD9200-5B

3LD2504-1TL53

3LD2504-1TP53 + 3LD9250-0BA

3LD2504-3VK53

3LD2504-3VK53 + 3LD9200-5B

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

3LD2305-3VK13

3LD2305-3VK13 + 3LD9200-5B

3LD2405-1TL13

3LD2405-1TL13 + 3LD9200-5B

3LD2405-3VK13

3LD2405-3VK13 + 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

3LD2122-3VK13

-

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



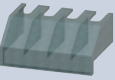

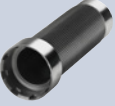
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3LD switch disconnectors

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)	
N switching contacts (4th contact element)											
	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"> For mounting on the left and/or right Lagging switch-on, leading switch-off 										
	Contacts	Contact surface	Article No.								
	1 NO + 1 NC	Standard	3LD9200-5B	■	■	■	■	■	■	■	■
Gold-plated		3LD9200-5BF	■	■	■	■	■	■	■	■	
Auxiliary switches for mounting on the front											
	<ul style="list-style-type: none"> Mounted on the switch shaft For four-hole front mounting and floor mounting only For long leading times (20 ... 150 m) Not for 6-pole 3LD23 (160 A) and 3LD24 (250 A) 										
	Contacts	Contact surface	Article No.								
	1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■	■		
			3LD9240-5D							■	■
		Gold-plated	3LD9280-5DF	■	■	■	■	■	■		
3LD9240-5DF									■	■	
Rotary operating mechanisms											
	<ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks 										
	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"> Lockable in 0 position with up to 3 padlocks 										
	Version	Mounting	Article No.								
	For main control switches	Four-hole mounting	3LD9243-1B							■	■
			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									
<ul style="list-style-type: none"> 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									
<ul style="list-style-type: none"> Pack of 10 units 									
Inscription		Article No.							
	German/English (Hauptschalter/Main Switch)	3LD9286-1A	■	■	■	■	■	■	
	Without inscription	3LD9286-4A	■	■	■	■	■	■	
Assembly tools									
<ul style="list-style-type: none"> For center-hole mounting with nut Pack of 5 units 									
Version		Article No.							
	For main control switches and EMERGENCY-STOP switches	3LD9256-0A	■	■	■	■			

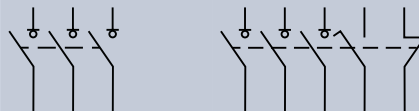
3LD switch disconnectors

3LD2 main control switches, floor mounting, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P



Uninterrupted current I_u 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)
Door-coupling rotary operating mechanism, four-hole mounting				
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
Door-coupling rotary operating mechanism, center-hole mounting Ø 22.5 mm				
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
Defeatable door-coupling knob-operated mechanism, four-hole mounting				
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

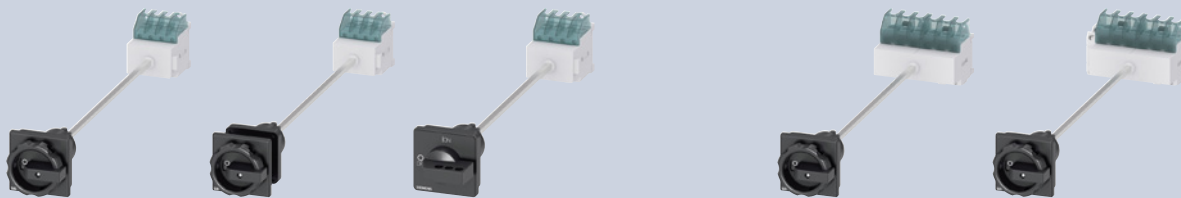
Scope of supply:

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

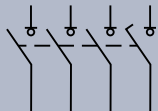
Mounting:

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

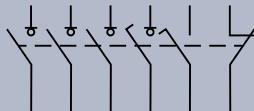
Accessories, see page 8/36



3P+N

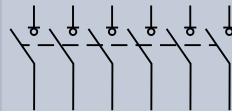


Without
auxiliary switch

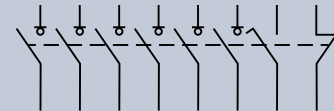


1 NO + 1 NC
(standard version)

6P



Without
auxiliary switch



1 NO + 1 NC
(standard version)

3LD2013-1TL51	3LD2013-1TL51	+ 3LD9200-5C	–	–
3LD2113-1TL51	3LD2113-1TL51	+ 3LD9200-5C	3LD2113-3VK51	3LD2113-4VP51
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	3LD2318-3VK11	3LD2318-3VK11 + 3LD9200-5C
3LD2418-1TL11	3LD2418-1TL11	+ 3LD9200-5C	3LD2418-3VK11	3LD2418-3VK11 + 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		–	–

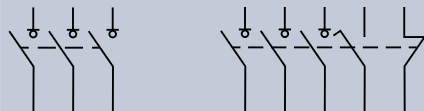
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, floor mounting, 25 ... 50 kA_{rms}



Operating mechanisms, red/yellow

Number of poles 3P



Uninterrupted current I_u 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)
Door-coupling rotary operating mechanism, four-hole mounting				
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
Door-coupling rotary operating mechanism, center-hole mounting Ø 22.5 mm				
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
Defeatable door-coupling knob-operated mechanism, four-hole mounting				
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

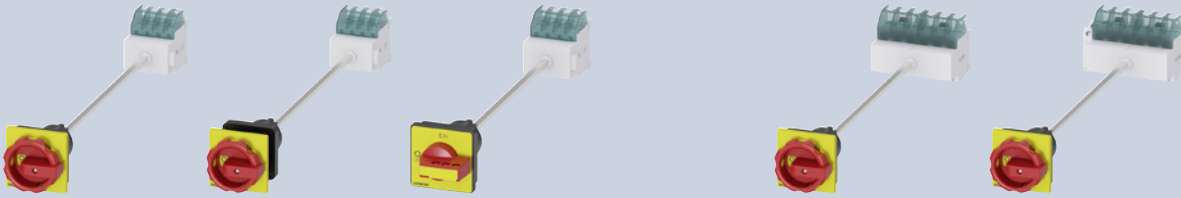
Scope of supply:

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

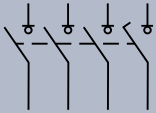
Mounting:

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

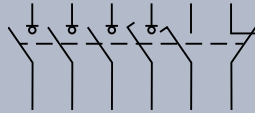
Accessories, see page 8/36



3P+N

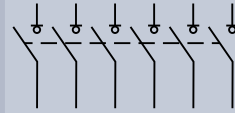


Without
auxiliary switch

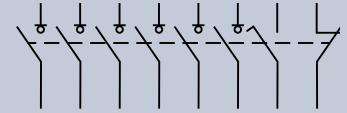


1 NO + 1 NC
(standard version)

6P



Without
auxiliary switch



1 NO + 1 NC
(standard version)

3LD2013-1TL53	3LD2013-1TL53	+ 3LD9200-5C	–	–
3LD2113-1TL53	3LD2113-1TL53	+ 3LD9200-5C	3LD2113-3VK53	3LD2113-4VP53
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	3LD2318-3VK13	3LD2318-3VK13 + 3LD9200-5C
3LD2418-1TL13	3LD2418-1TL13	+ 3LD9200-5C	3LD2418-3VK13	3LD2418-3VK13 + 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		–	–

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)

N switching contacts (4th contact element)



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)



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

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

Auxiliary switches for mounting on the front

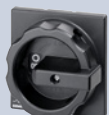


- Mounted on the switch shaft
- For long leading times (20 ... 150 ms)

Contacts	Contact surface	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)
1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■	■		
		3LD9240-5D							■	■
	Gold-plated	3LD9280-5DF	■	■	■	■	■	■		
		3LD9240-5DF							■	■

Rotary operating mechanisms

- Lockable in 0 position with up to 3 padlocks



Version	Mounting	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)
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

- Lockable in 0 position with up to 3 padlocks






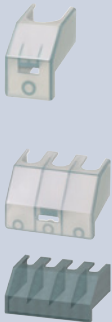


Version	Mounting	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
For main control switches	Four-hole mounting	3LD9243-1B							■	■
For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							■	■

8UC7.. door-coupling rotary operating mechanisms

- To achieve defeatability from 3LD27 (100 A) to 3LD24 (250 A)



Type	Version	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)
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							
Switch 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			Article No.							
	Number of poles										
	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								

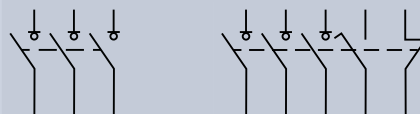
3LD switch disconnectors

3LD2 main control switches, installation in distribution boards, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P



Uninterrupted current I_u 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)
Knob-operated mechanisms with masking plate				
16 A	7.5 kW	5.5 kW	3LD2030-0TK11	3LD2030-0TK11 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK11	3LD2130-0TK11 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK11	3LD2230-0TK11 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK11	3LD2530-0TK11 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK11	3LD2730-0TK11 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK11	3LD2830-0TK11 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK11	3LD2330-0TK11 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2430-0TK11	3LD2430-0TK11 + 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)


N switching contacts (4th contact element)

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

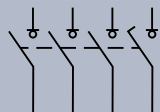
Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Through-type	3LD9200-2C	■							
	3LD9220-2C		■	■					
	3LD9250-2CA				■				
	3LD9280-2C					■	■		
	3LD9240-2C							■	■

Auxiliary switches (standard version)

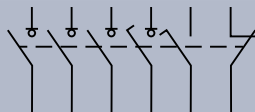
 <ul style="list-style-type: none"> • For mounting on the left and/or right • Lagging switch-on, leading switch-off 											
	Contacts	Contact surface	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■	■	■
2 NO	Standard	3LD9200-6C	■	■	■	■	■	■	■	■	



3P+N




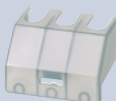
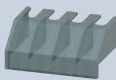
Without auxiliary switch



1 NO + 1 NC (standard version)

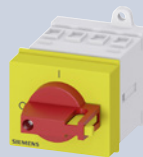
3LD2030-1TL11	3LD2030-1TL11 + 3LD9200-5C
3LD2130-0TK11 + 3LD9220-0C	3LD2130-0TK11 + 3LD9220-0C + 3LD9200-5C
3LD2230-0TK11 + 3LD9220-0C	3LD2230-0TK11 + 3LD9220-0C + 3LD9200-5C
3LD2530-0TK11 + 3LD9250-OCA	3LD2530-0TK11 + 3LD9250-OCA + 3LD9200-5C
3LD2730-0TK11 + 3LD9280-0C	3LD2730-0TK11 + 3LD9280-0C + 3LD9200-5C
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)
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	■						

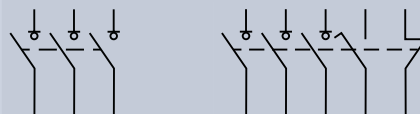
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, installation in distribution boards, 25 ... 50 kA_{rms}



Operating mechanisms, red/yellow

Number of poles 3P



Uninterrupted current I_u 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)
Knob-operated mechanisms with masking plate				
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)


N switching contacts (4th contact element)

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

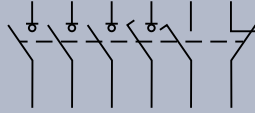
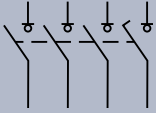
Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Through-type	3LD9200-2C	■							
	3LD9220-2C		■	■					
	3LD9250-2CA				■				
	3LD9280-2C					■	■		
	3LD9240-2C							■	■

Auxiliary switches (standard version)

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




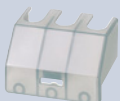
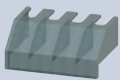
3P+N



Without auxiliary switch

1 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-OCA	3LD2530-0TK13 + 3LD9250-OCA + 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

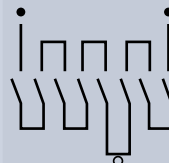
		3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Terminal covers									
• Pack of 4 units									
Number of poles		Article No.							
	1-pole	3LD9201-2A	■						
		3LD9221-2A		■	■				
		3LD9251-2A				■			
		3LD9281-2A					■	■	
		3LD9241-2A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

3LD switch disconnectors

DC isolators, 50 kA_{rms}











Operating mechanisms, black
Number of poles 8P




Mains voltage	Rated operational current I_e At DC-21A, 800 V DC	Rated operational current I_e At DC-22A, 800 V DC	Without auxiliary switch
Knob-operated mechanisms			
800 V DC	32 A	16 A	3LD2230-8VQ11-0AF6

Accessories for 3LD2 main control and EMERGENCY-STOP switches


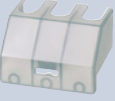
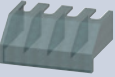

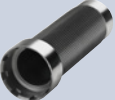
				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)		
Additional poles													
N switching contacts (4th contact element)													
	Version	Contacts	Article No.										
	For front mounting	Leading switch-on, lagging switch-off	3LD9220-0B		■	■							
			3LD9250-0BA			■							
			3LD9280-0B					■	■				
3LD9240-0B										■	■		
	Version	Contacts	Article No.										
	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							■	■					
	Version	Contacts	Article No.										
	For floor mounting, installation in distribution boards	Through-type	3LD9200-2C	■									
			3LD9220-2C		■	■							
			3LD9250-2CA				■						
3LD9280-2C							■	■					
	Version	Contacts	Article No.										
	For floor mounting, installation in distribution boards	Through-type	3LD9240-2C								■	■	
			Auxiliary switches (standard version)										
			<ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off 										
			Version	Contacts	Article No.								
	For front mounting	1 NO + 1 NC, standard	3LD9200-5B	■	■	■	■	■	■	■	■	■	
1 NO + 1 NC, gold-plated		3LD9200-5BF	■	■	■	■	■	■	■	■	■		
	Version	Contacts	Article No.										
	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 switches for mounting on the front													
	<ul style="list-style-type: none"> Mounted on the front of the switch shaft For four-hole front mounting and floor mounting only For long leading times (20 ... 150 ms) 												
	Contacts	Contact surface	Article No.										
	1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■	■	■			
			3LD9240-5D								■	■	
Gold-plated		3LD9280-5DF	■	■	■	■	■	■	■				
		3LD9240-5DF									■	■	

3LD switch disconnectors

Accessories for 3LD2 main control and EMERGENCY-STOP switches

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"> Lockable in 0 position with up to 3 padlocks Center-hole mounting, including seal and nut Four-hole mounting, including seal 												
	Switch	Mounting	Article No.									
	For main control switches	Center-hole mounting	3LD9224-1D	■	■	■						
		Four-hole mounting	3LD9224-1B	■	■	■	■	■	■			
		For EMERGENCY-STOP switches	Center-hole mounting	3LD9224-3D	■	■	■					
			Four-hole mounting	3LD9224-3B	■	■	■	■	■	■		
Knob-operated mechanisms												
<ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks Including seal 												
	Switch	Mounting	Article No.									
	For main control switches	Four-hole mounting	3LD9243-1B							■	■	
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							■	■	
Supplementary handles for door-coupling rotary operating mechanism												
<ul style="list-style-type: none"> For requirements according to UL 508A/NFPA 79 Can be locked with up to 1 padlocks in 0 position Can only be switched on by deliberate action 												
	Inscription	Color	Article No.									
	O-I	Gray	3LD9287-1C	■	■	■	■	■	■			
		Red/yellow	3LD9287-3C	■	■	■	■	■	■	■	■	
Switch 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"> Without ON-lock 												
	Version	Article No.										
	For floor mounting	3LD9242-4F								■	■	

Further 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)
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									
	Switch	Article No.							
	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



3P/6P
molded-plastic enclosures



3P/6P
molded-plastic enclosures

8

DC isolators in 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

Operating mechanisms



Rotary operating mechanisms for center-hole mounting



Knob-operated mechanisms for 3LD2 with EMC shield plate

Further accessories



Shield terminal

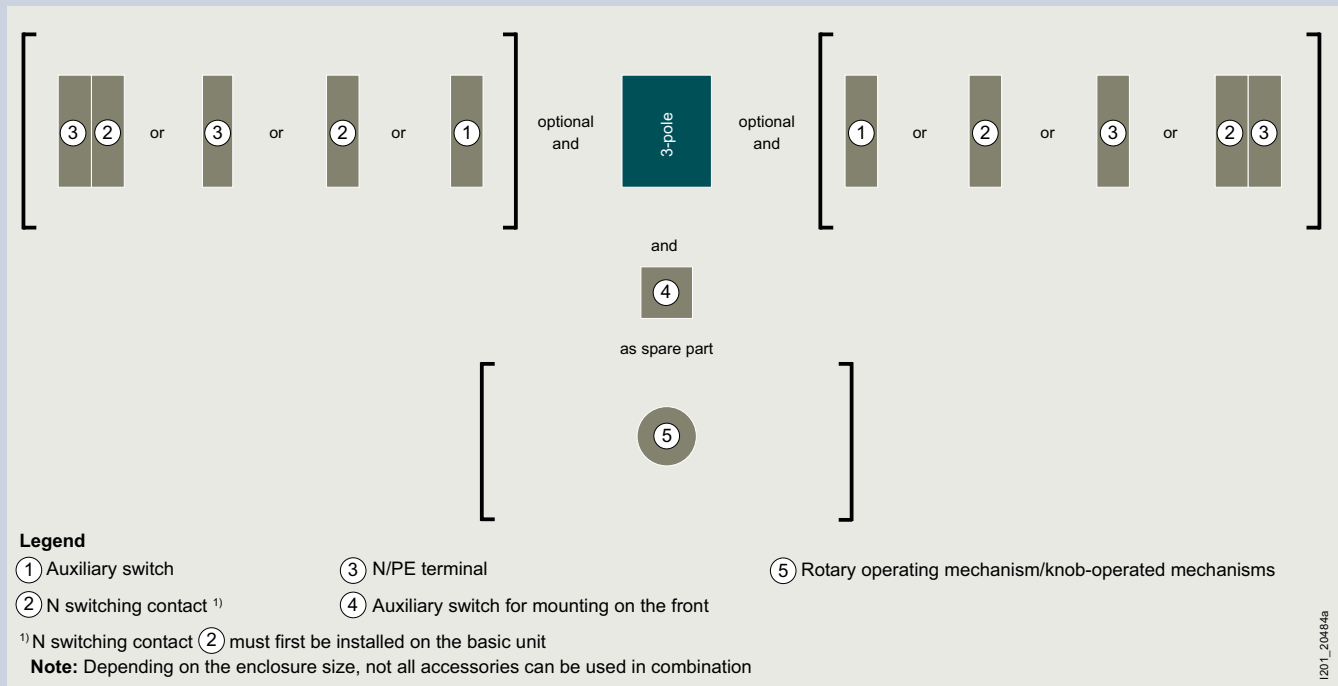


Through-type terminal

Note:

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

Mounting concept and accessories



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



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.

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 ... 150 ms) 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 0 ... 550 Hz.

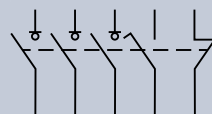
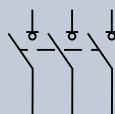
3LD switch disconnectors

3LD2 main control switches in enclosure, 25 ... 50 kA_{rms}

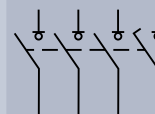


Operating mechanisms, black

Number of poles 3P



3P+N



Uninterrupted current I_u 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)

N switching contacts (4th contact element)



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

N/PE terminals



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

Auxiliary switches (standard version)



Contacts	Contact surface	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■	■
2 NO	Standard	3LD9200-6C	■	■	■	■	■	

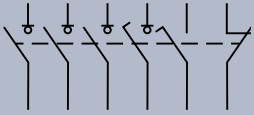
Auxiliary switches for mounting on the front



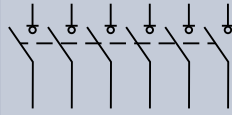
Contacts	Contact surface	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■	■
	Gold-plated	3LD9280-5DF	■	■	■	■	■	■



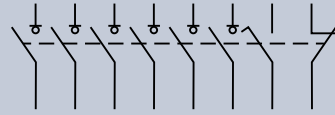
6P



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

8

Accessories

	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.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
3P, 3P+N	3LD9224-1GH ¹⁾	■	■	■			
	3LD9284-1G				■	■	■
6P	3LD9284-1G		■	■	■		



¹⁾ Incl. enclosure cover

3LD switch disconnectors

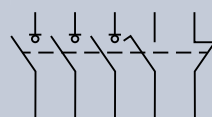
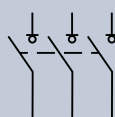
3LD2 EMERGENCY-STOP switches in enclosure, 25 ... 50 kA_{rms}



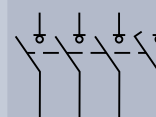
Operating mechanisms, red/yellow

Number of poles

3P



3P+N



Uninterrupted current I_u 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	
			Base terminal	3LD2064-0TB53	Base terminal	3LD2064-1GP53	Base terminal	3LD2064-1TC53
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)
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N switching contacts (4th contact element)



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

N/PE terminals



Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
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

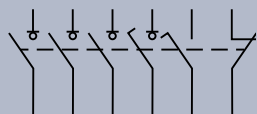
Contacts	Contact surface	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■	■
2 NO	Standard	3LD9200-6C	■	■	■	■	■	

Auxiliary switches for mounting on the front



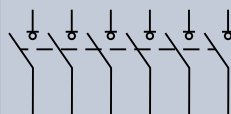
- Mounted on the front of the switch shaft
- For long leading times (20 ... 150 ms)

Contacts	Contact surface	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■	■
	Gold-plated	3LD9280-5DF	■	■	■	■	■	■

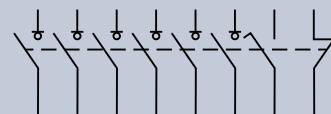


1 NO + 1 NC
(standard version)

6P



Without auxiliary switch



1 NO + 1 NC
(standard version)

Base terminal		Base terminal		Base terminal	
PE	3LD2064-1TC53 + 3LD9200-5C	–	–	–	–
PE	3LD2164-1TC53 + 3LD9200-5C	PE+N	3LD2165-3VB53	N	3LD2165-4VD53
PE	3LD2264-1TC53 + 3LD9200-5C	PE+N	3LD2265-3VB53	N	3LD2265-4VD53
PE	3LD2565-1TC53 + 3LD9200-5C	PE+N	3LD2566-3VB53	PE+N	3LD2566-4VD53
N	3LD2766-1GP53 + 3LD9280-0C	–	–	–	–
N	3LD2866-1GP53 + 3LD9280-0C	–	–	–	–

Accessories

	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.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
3P, 3P+N	3LD9224-3GH ¹⁾	■	■	■			
	3LD9284-3G				■	■	■

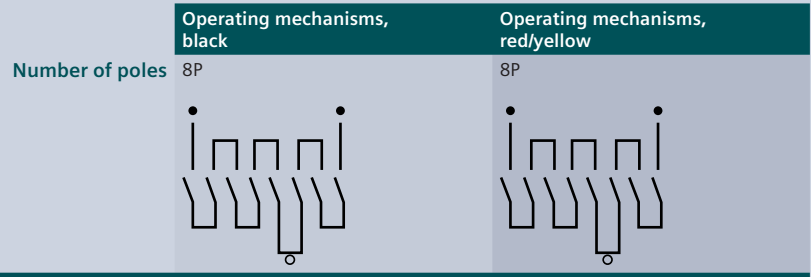


6P	3LD9284-3G		■	■	■		
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¹⁾ Incl. enclosure cover

3LD switch disconnectors

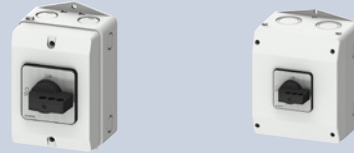
3LD2 DC isolators in a molded-plastic enclosure



Mains voltage	Rated operational current I_e At DC-21A, 800 V DC	Rated operational current I_e At DC-22A, 800 V DC	Without auxiliary switch	
800 V DC	32 A	16 A	3LD2265-8VQ51-0AF6	3LD2265-8VQ53-0AF6

Rotary operating mechanisms

3LD2 maintenance and repair switches with EMC shield plate, 25 ... 50 kA_{rms}

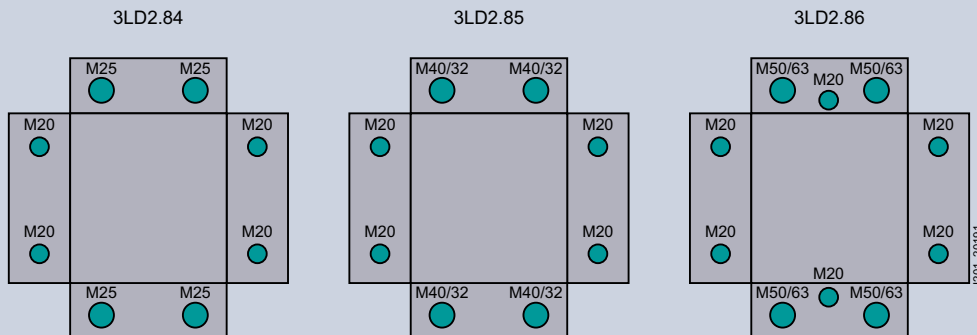


				Operating mechanisms, black	
				3P	6P
Uninterrupted current I_u At AC-20, 0 ... 550 Hz, 380 ... 440 V	Operational power P At AC-20, 0 ... 550 Hz, 380 ... 440 V	Uninterrupted current I_u At AC-21, 50/60 Hz, 380 ... 440 V	Operational power AC-23A, 50/60 Hz, 380 ... 440 V	1 NO + 1 NC (Auxiliary switch for mounting on the front)	1 NO + 1 NC (Auxiliary switch for mounting on the front)
Knob-operated mechanisms with masking plate				Base terminal	Base terminal
10.2 A	4 kW	16 A	7.5 kW	PE	3LD2084-2GP21
13.2 A	5.5 kW	25 A	9 kW	PE	3LD2184-2GP21
18 A	7.5 kW	32 A	11.5 kW	PE	3LD2284-2GP21
38 A	18.5 kW	63 A	22 kW	PE	3LD2585-2GP21
75 A	37 kW	100 A	37 kW	PE	3LD2786-2GP21
90 A	45 kW	125 A	45 kW	PE	3LD2886-2GP21

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 cable entries with EMC shield plate







3LD switch disconnectors

3LD2 maintenance and repair switches with EMC shield plate, 25 ... 50 kA_{rms}


Accessories

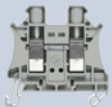

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
N switching contacts (4th contact element)								
	Contacts	Article No.						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
N/PE terminals								
	Contacts	Article No.						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C					■	■
Auxiliary switches (standard version)								
	<ul style="list-style-type: none"> 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	Standard	3LD9200-6C	■	■	■	■	■
Auxiliary switches for mounting on the front								
	<ul style="list-style-type: none"> 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	■	■	■	■	■
	Gold-plated	3LD9280-5DF	■	■	■	■	■	
Knob-operated mechanisms								
	<ul style="list-style-type: none"> Can be used as a replacement Lockable in 0 and 1 position with up to 3 padlocks 							
	Version	Article No.						
	Main control switches	3LD9283-2G	■	■	■	■	■	■
	EMERGENCY-STOP switches	3LD9283-4G	■	■	■	■	■	
Rotary operating mechanisms								
	<ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks Only for 50/60 Hz applications 							
	Type	Version	Article No.					
	Main control switches	3P	3LD9224-1G	■	■	■		
			3LD9284-1G				■	■
		6P	3LD9284-1G		■	■	■	■
	EMERGENCY-STOP switches	3P	3LD9224-3G	■	■	■		
		3LD9284-3G				■	■	
	6P	3LD9284-3G		■	■	■	■	
Terminal blocks								
	Version	Article No.						
	Through-type terminal with screw connection	8WH1000-0AF00	■	■	■	■	■	
Shield terminals								
	Terminal area	Article No.						
	3 ... 12 mm	3LD9228-1G	■	■	■	■	■	

Accessories for 3LD2 switch disconnectors in enclosure

				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)		
Additional poles											
N switching contacts (4th contact element)											
	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)											
											
	<ul style="list-style-type: none"> 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	Standard	3LD9200-6C	■	■	■	■	■	■			
Auxiliary switches for mounting on the front											
											
	<ul style="list-style-type: none"> 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	■	■	■	■	■	■	■	
		Gold-plated	3LD9280-5DF	■	■	■	■	■	■	■	

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				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	
Operating mechanisms										
Rotary operating mechanisms										
		<ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks 								
	Type	Version	Article No.							
	Main control switches	3P, 3P+N	3LD9224-1GH ¹⁾	■	■	■				
			3LD9284-1G				■	■	■	
		6P	3LD9284-1G		■	■	■			
	EMERGENCY-STOP switches	3P, 3P+N	3LD9224-3GH ¹⁾	■	■	■				
			3LD9284-3G				■	■	■	
	6P	3LD9284-3G		■	■	■				

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

¹⁾ Incl. enclosure cover

3LD switch disconnectors

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

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)

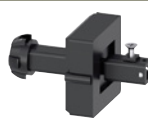


Auxiliary switch for mounting on the front

Operating mechanisms



Rotary operating mechanisms for four-hole mounting



Coupling heads with and without tolerance compensation



Supplementary handles for UL 508A/NFPA 79



Switch shafts

Further accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole

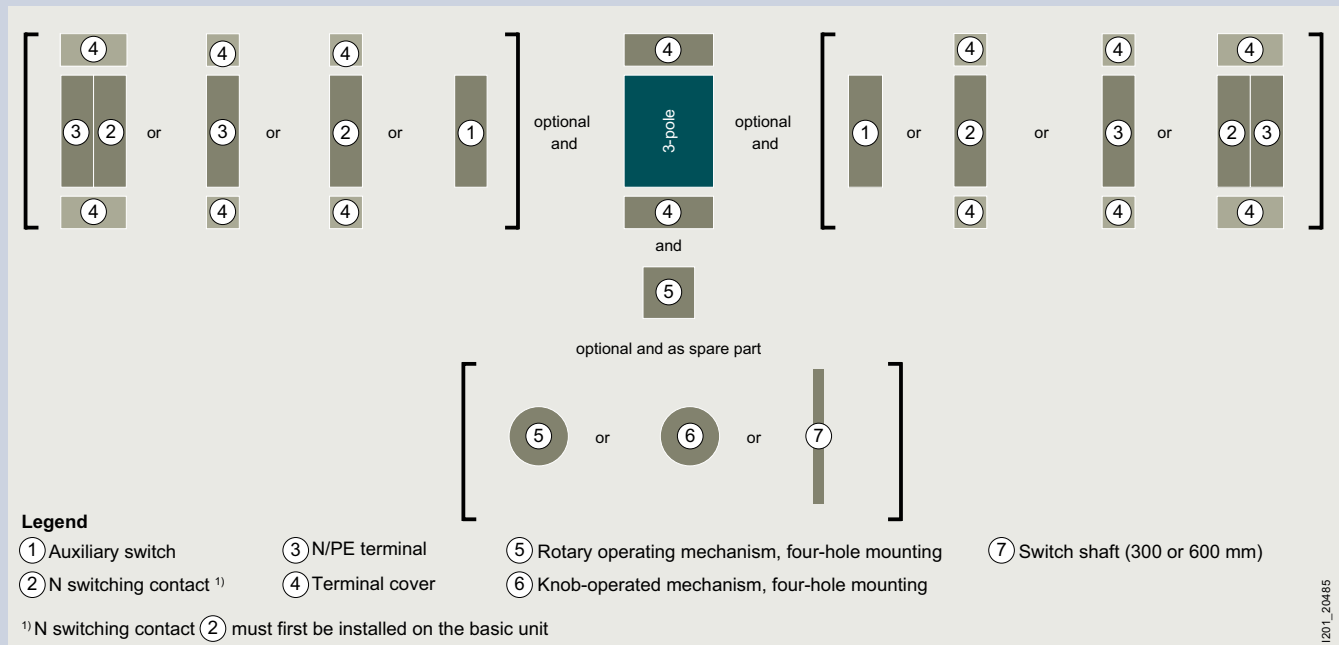


Inscription labels (with and without inscription)

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 UL 489 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 covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). 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 60 A are snapped onto 35 mm DIN rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 ... 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels.

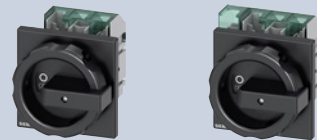
Basic units, floor mounting with door-coupling rotary operating mechanism



The switches for floor mounting up to 30 A (3LD50) are snapped onto 35 mm DIN 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 the 0 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 UL 508A/NFPA 79, 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

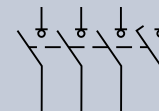
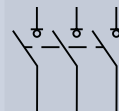


Operating mechanisms, black

Number of poles

3P

3P+N



Uninterrupted current I_u At AC-21A, 380 ... 440 V	General use acc. to UL 489/60947-4-1	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

N switching contacts (4th contact element)

Contacts	Article No.					
		3LD50	3LD52	3LD54	3LD56	3LD58
Leading switch-on, lagging switch-off	3LD9250-0BA	■				
	3LD9280-0B		■			
	3LD9240-0B			■	■	■

N/PE terminals

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

Auxiliary switches (standard version)

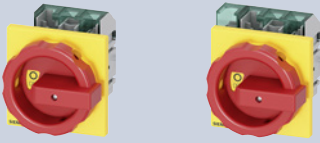
Contacts	Contact surface	Article No.					
			3LD50	3LD52	3LD54	3LD56	3LD58
1 NO + 1 NC	Standard	3LD9200-5B	■	■	■	■	■
	Gold-plated	3LD9200-5BF	■	■	■	■	■

Auxiliary switch for mounting on the front

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

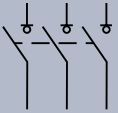
Rotary operating mechanisms

Version	Article No.					
		3LD50	3LD52	3LD54	3LD56	3LD58
For main control switches	3LD9284-1B	■	■			
For EMERGENCY-STOP switches	3LD9284-3B	■	■			

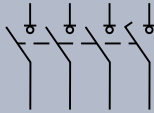


Operating mechanisms, red/yellow

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.

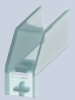
3LD9243-1B

3LD9243-3B

	3LD50	3LD52	3LD54	3LD56	3LD58
3LD9243-1B			■	■	■
3LD9243-3B			■	■	■

Terminal covers

- Pack of 4 units



Number of poles

1-pole

Article No.

3LD9251-2A

3LD9281-2A

3LD9241-2A

	3LD50	3LD52	3LD54	3LD56	3LD58
3LD9251-2A	■				
3LD9281-2A		■			
3LD9241-2A			■	■	■

3-pole

3LD9251-0A

	3LD50	3LD52	3LD54	3LD56	3LD58
3LD9251-0A	■				

Inscription labels

- Pack of 10 units



Inscription

German/English (Hauptschalter/Main Switch)

Without inscription

Article No.

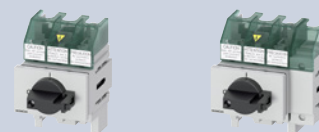
3LD9286-1A

3LD9286-4A

	3LD50	3LD52	3LD54	3LD56	3LD58
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

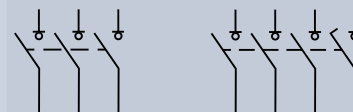


Operating mechanisms, black

Number of poles

3P

3P+N



Uninterrupted current I_u At AC-21A, 380 ... 440 V	General use acc. to UL 489/508	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

N switching contacts (4th contact element)



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Leading switch-on, lagging switch-off	3LD9250-0CA	■				
	3LD9280-0C		■			
	3LD9240-0C			■	■	■

N/PE terminals



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

Auxiliary switches



- 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	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■

Terminal covers

- Pack of 4 units



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

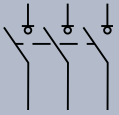


3-pole	3LD9251-0A	■				
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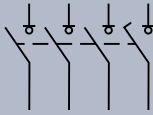


Operating mechanisms, red/yellow

3P



3P+N



3LD5000-0TK13

3LD5000-0TL13

3LD5200-0TK13

3LD5200-0TL13

3LD5400-0TK13

3LD5400-0TL13

3LD5600-0TK13

3LD5600-0TL13

3LD5800-0TK13

3LD5800-0TL13

3LD switch disconnectors

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

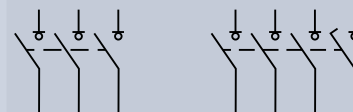


Operating mechanisms, black

Number of poles

3P

3P+N








Uninterrupted current I_u At AC-21A, 380 ... 440 V	General use acc. to UL 489/508	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 with shaft 300 mm
- Without tolerance compensation

Accessories for floor mounting with door-coupling rotary operating mechanism

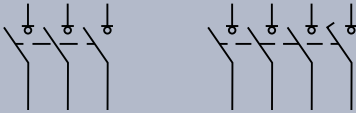
				3LD50	3LD52	3LD54	3LD56	3LD58		
N switching contacts (4th contact element)										
	Contacts			Article No.						
	Leading switch-on, lagging switch-off			3LD9250-0CA	■					
				3LD9280-0C		■				
				3LD9240-0C			■	■	■	
N/PE terminals										
	Contacts			Article No.						
	Through-type			3LD9250-2CA	■					
				3LD9280-2C		■				
				3LD9240-2C			■	■	■	
Auxiliary switches (standard version)										
										
	Contacts	Contact surface			Article No.					
	1 NO + 1 NC	Standard			3LD9200-5C	■	■	■	■	■
	Gold-plated			3LD9200-5CF	■	■	■	■	■	
Auxiliary switch for mounting on the front										
										
	Contacts	Contact surface			Article No.					
	1 NO + 1 NC	Standard			3LD9280-5D	■	■			
		Gold-plated			3LD9240-5D			■	■	■
				3LD9280-5DF	■	■				
				3LD9240-5DF			■	■	■	
Handles										
										
	Inscription	Color			Article No.					
	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							
<ul style="list-style-type: none"> For requirements according to UL 508A/NFPA 79 Can be locked with up to 1 padlocks in 0 position Can only be switched on by deliberate action 	Inscription	Color	Article No.				
	O-I	Gray	3LD9287-1C	■	■		
		Red/yellow	3LD9247-1C			■	■
			3LD9287-3C	■	■		
		3LD9247-3C			■	■	
Coupling drivers							
	Version	Article No.					
	With tolerance compensation	8UD1900-1GA00	■	■			
		8UD1900-2GA00			■	■	
	Without tolerance compensation	8UD1900-1HA00	■	■			
		8UD1900-2HA00			■	■	
Terminal covers							
<ul style="list-style-type: none"> Pack of 4 units 	Number of poles	Article No.					
	1-pole	3LD9251-2A	■				
		3LD9281-2A		■			
		3LD9241-2A			■	■	
	3-pole	3LD9251-0A	■				
Inscription labels							
<ul style="list-style-type: none"> Pack of 10 units 	Inscription	Article No.					
	German/English (Hauptschalter/Main Switch)	3LD9286-1A	■	■	■	■	
	Without inscription	3LD9286-4A	■	■	■	■	
Switch 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			■	

3LD switch disconnectors

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

Additional poles

3LD50 3LD52 3LD54 3LD56 3LD58

N switching contacts (4th contact element) for front mounting



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Leading switch-on, lagging switch-off	3LD9250-0BA	■				
	3LD9280-0B		■			
	3LD9240-0B			■	■	■

N switching contacts (4th contact element) for floor mounting



Contacts	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
Leading switch-on, lagging switch-off	3LD9250-0CA	■				
	3LD9280-0C		■			
	3LD9240-0C			■	■	■

N/PE terminals for front mounting



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

N/PE terminals for floor mounting



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

Auxiliary switches (standard version) for front mounting



Contacts	Contact surface	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1 NO + 1 NC	Standard	3LD9200-5B	■	■	■	■	■
	Gold-plated	3LD9200-5BF	■	■	■	■	■

Auxiliary switches (standard version) for floor mounting







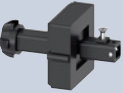
Contacts	Contact surface	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■

Auxiliary switch for mounting on the front






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

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	3LD9243-3B						
Handles for floor mounting								
	• Supplied with a masking plate, but without an extension shaft or coupling driver							
	• Can be locked with up to max. 3 padlocks							
	Inscription	Color	Article No.					
O-I	Gray	8UD1771-2AD01						
		8UD1731-2AD01						
	Red/yellow	8UD1771-2AD05						
		8UD1731-2AD05						
Supplementary handles for floor mounting for door-coupling rotary operating mechanism								
	• For requirements according to UL 508A/NFPA 79							
	• Can be locked with up to 1 padlock in 0 position							
	• Can only be switched on by deliberate action							
Inscription	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						

Further 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						
Switch 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						

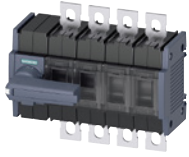
3KD switch disconnectors

System overview

Complete units with direct operating mechanisms



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Front operating mechanisms, 3-pole

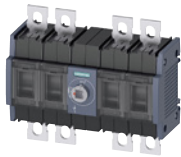


Front operating mechanisms, 4-pole

Basic units



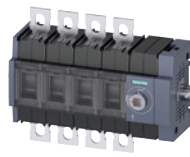
Front operating mechanisms, 3-pole



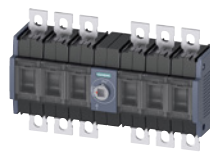
Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



Front-mounted devices, 6-pole for DC applications



Front operating mechanisms, 3-pole

8

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



Further accessories for door-coupling rotary operating mechanisms

Further 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.

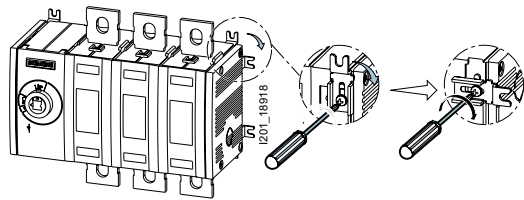


Types of mounting



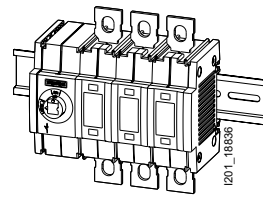
You will find further information under:
sie.ag/2UlrAvy

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.

DIN rail

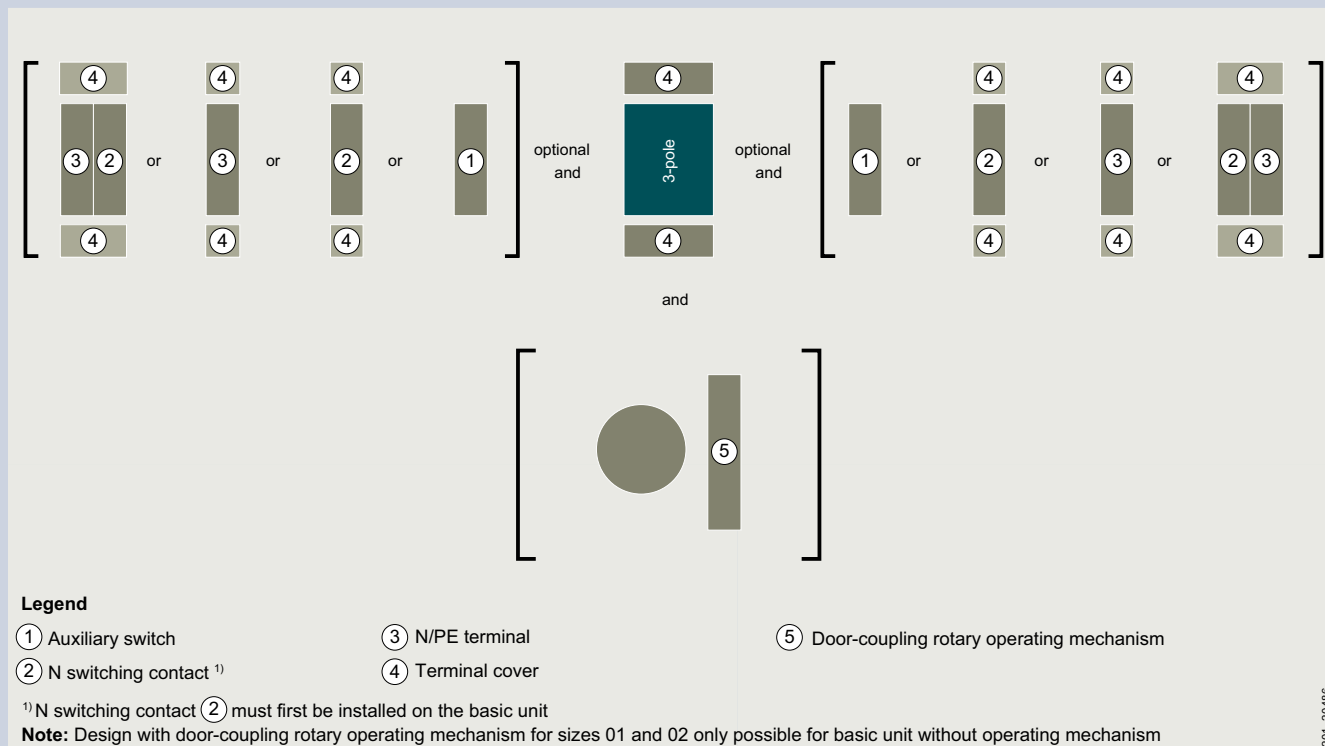


Sizes 01 and 02 of the 3KD0 and sizes 1 and 2 of the 3KD can be snapped onto a DIN rail (TH35 according to EN 60715) as an alternative mounting method.

3KD switch disconnectors

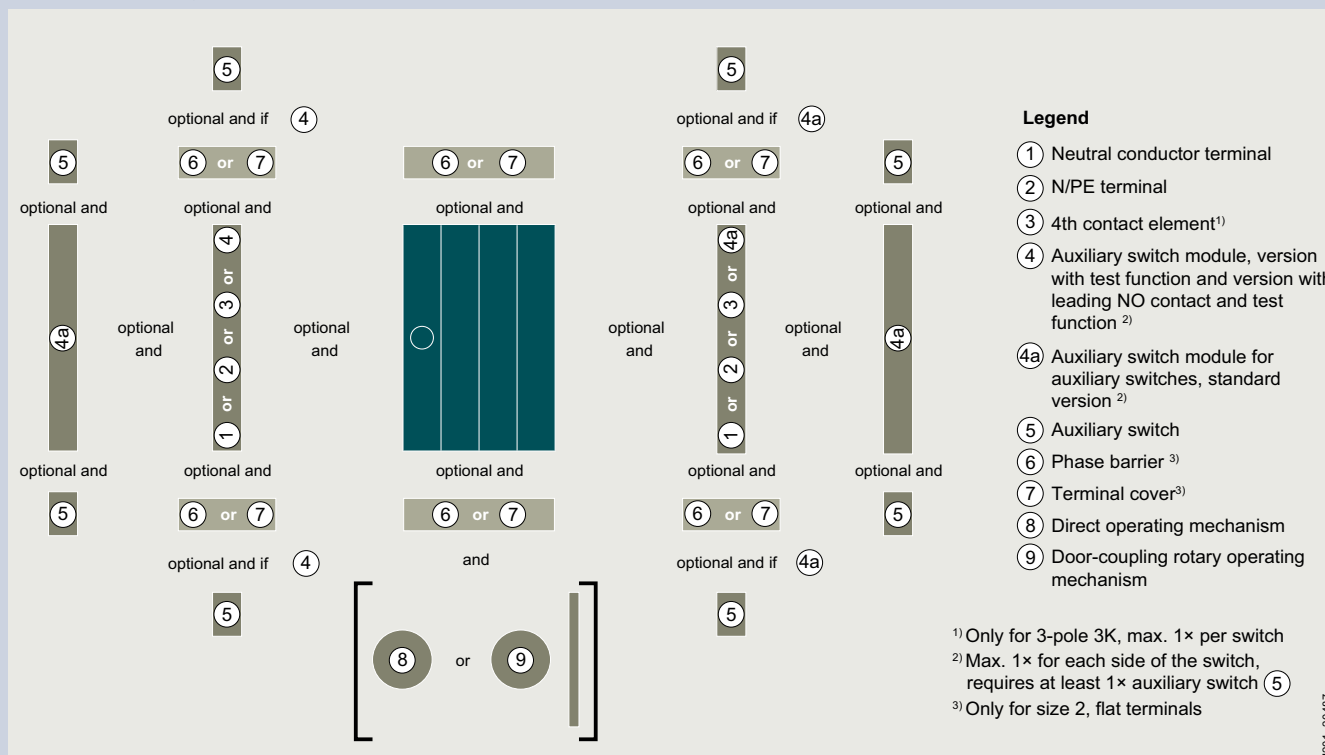
Mounting concept and accessories

Front operating mechanism center, sizes 01 and 02



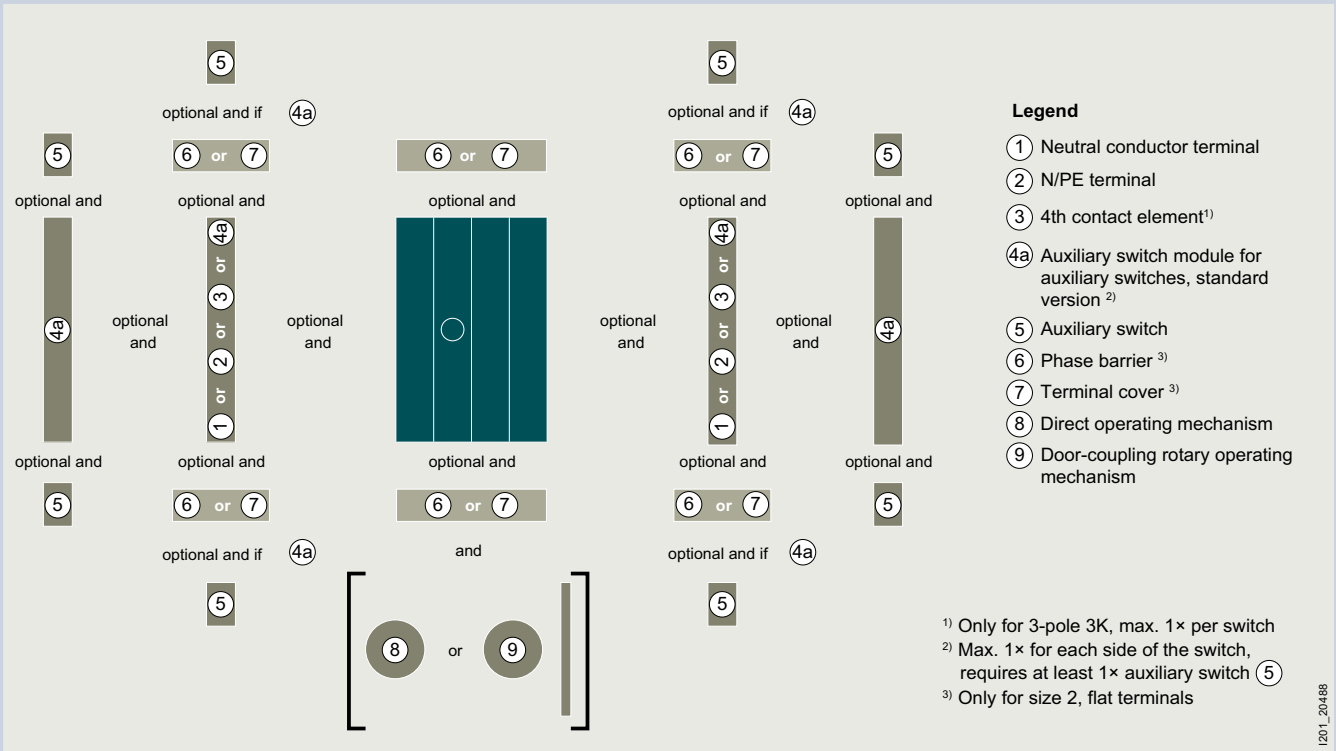
I201_20486

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

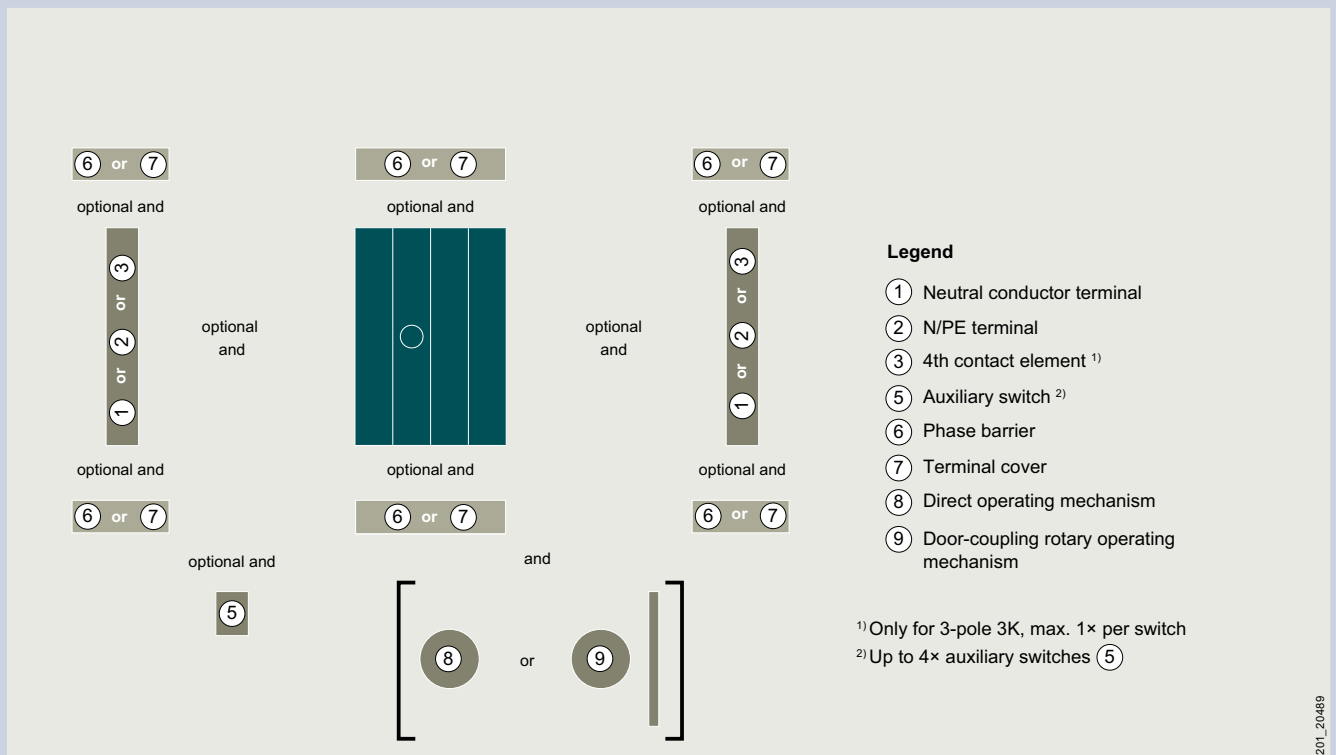


I201_20487

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



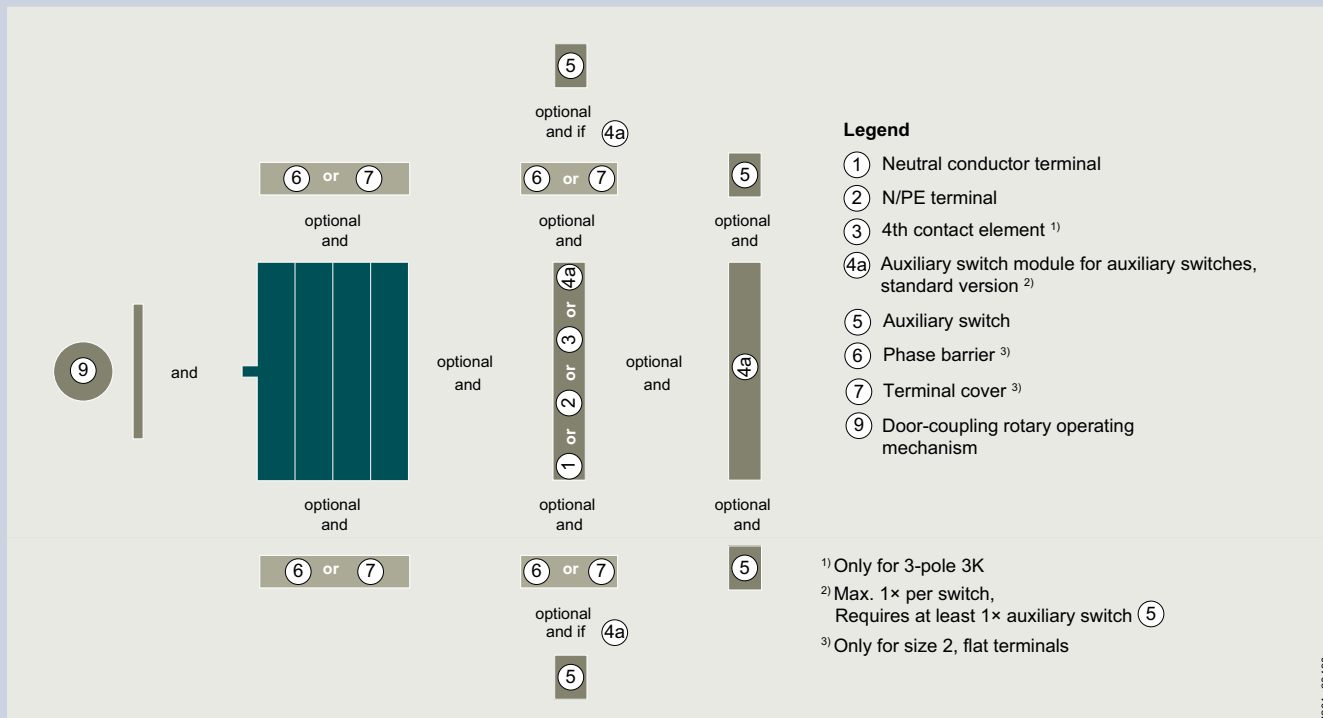
Front operating mechanism center or left, sizes 3 to 5, 3/4-pole



3KD switch disconnectors

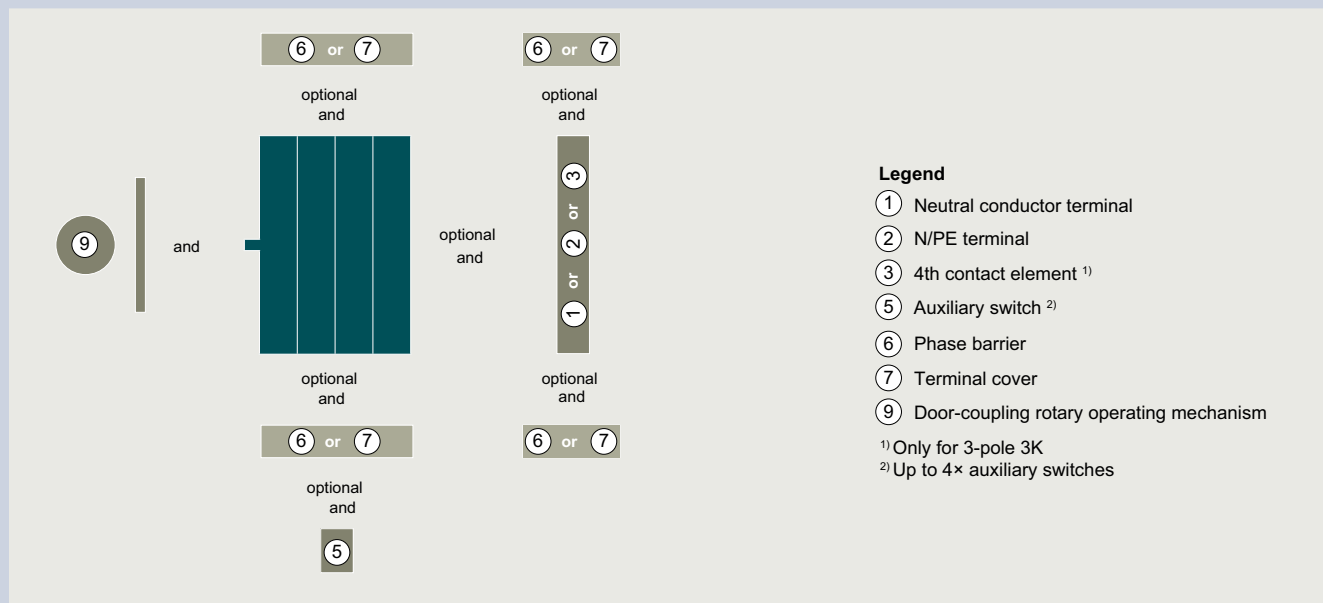
Mounting concept and accessories

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

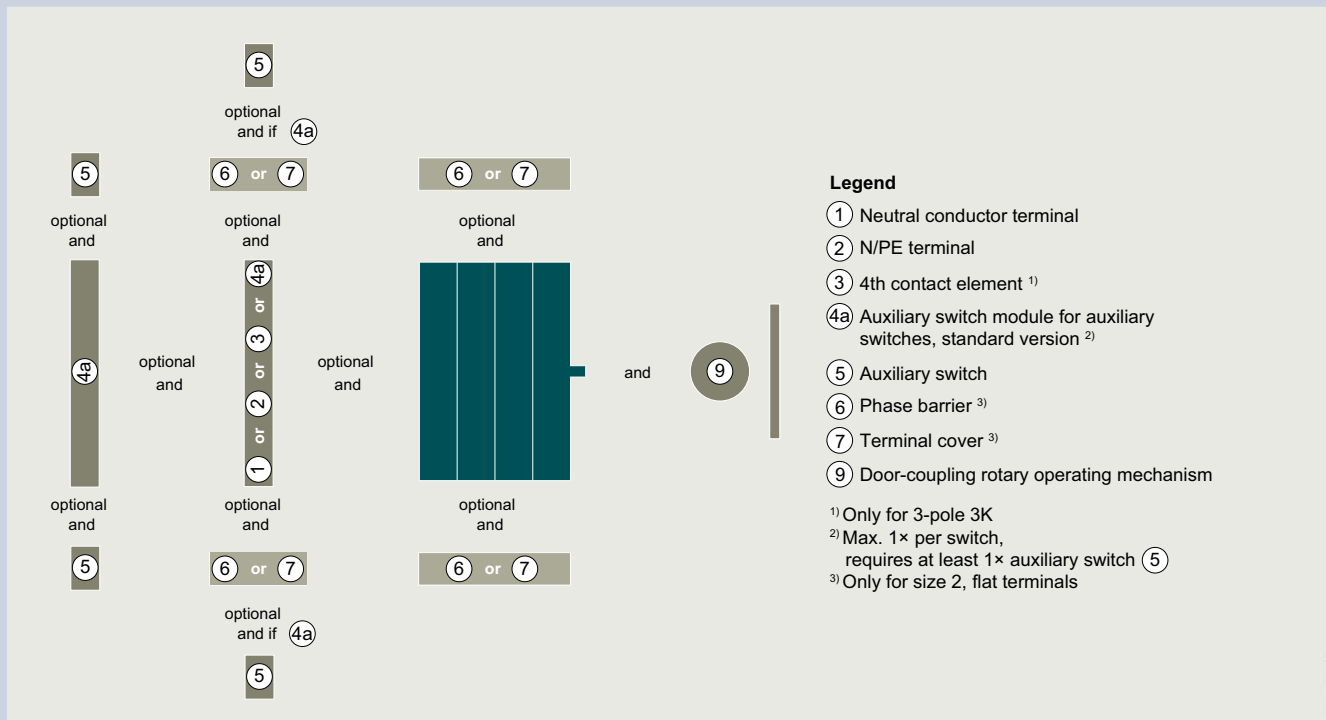


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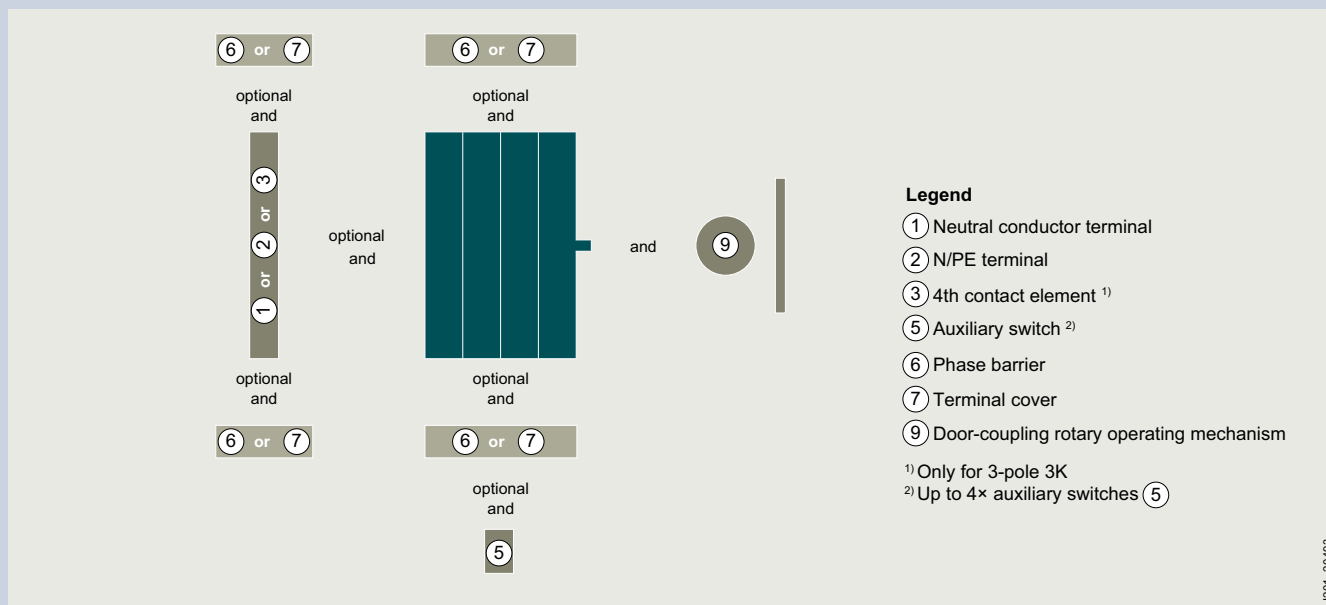
Lateral operating mechanism left, sizes 3 to 5, 3/4-pole



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

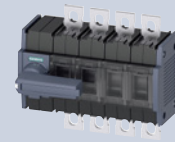
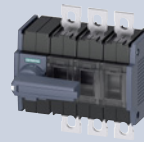


Lateral operating mechanism right, sizes 3 to 5, 3/4-pole



3KD switch disconnectors

Complete units with direct operating mechanisms



Application	Operating mechanism, gray Front operating mechanism center		Operating mechanism, gray Front operating mechanism left	
	AC	AC	AC/DC	AC/DC
Number of poles	3P	4P	3P	4P

Size	Uninterrupted current I_u				
Box terminals					
01	16 A	3KD0132-2KG20-3	3KD0142-2KG20-3	–	–
	32 A	3KD0232-2KG20-3	3KD0242-2KG20-3	–	–
	63 A	3KD0332-2KG20-3	–	–	–
02	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	–	–	3KD2832-2ME10-0	3KD2842-2ME10-0
	100 A	–	–	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	–	–	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	–	–	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	–	–	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	–	–	3KD5632-0RE10-0	3KD5642-0RE10-0

Scope of supply:

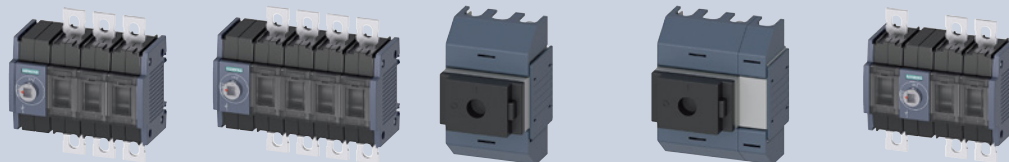
- Incl. terminal covers on input and output side for 3KD0 sizes 01 and 02
- Incl. phase barriers on the input and output side for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms

Mounting:

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

3KD switch disconnectors

Basic units without handles



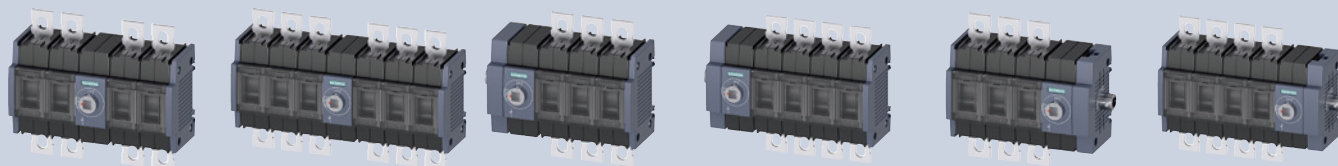
Application	Front operating mechanism Left		Front operating mechanism Center			
	AC/DC	AC/DC	AC	AC	AC/DC	
Number of poles	3P	4P	3P	4P	3P	
Size	Uninterrupted current I_u					
Box terminals						
01	16 A	–	–	3KD0130-2KG20-3	3KD0140-2KG20-3	–
	32 A	–	–	3KD0230-2KG20-3	3KD0240-2KG20-3	–
	63 A	–	–	3KD0330-2KG20-3	–	–
02	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	3KD2830-2ME10-0	3KD2840-2ME10-0	–	–	3KD2830-2ME20-0
	100 A	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	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	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	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	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 DIN rails

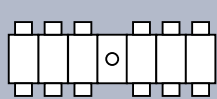
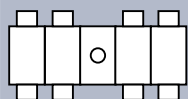

**Front operating mechanism
Center**

AC/DC

DC

4P

6P

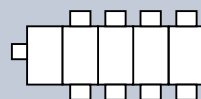
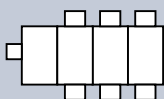

**Lateral operating mechanism
Left**

AC/DC

AC/DC

3P

4P

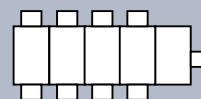
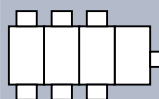

Right

AC/DC

AC/DC

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
3KD3240-2NE20-0	3KD3260-2NE20-0	3KD3234-2NE10-0	3KD3244-2NE10-0	3KD3234-2NE40-0	3KD3244-2NE40-0
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 units 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
4th contact elements (switching pole)								
<ul style="list-style-type: none"> For upgrading a 3-pole to a 4-pole switch disconnector For sizes 1 to 5, identical to the factory-fitted poles For sizes 01 and 02, leading switch-on, lagging switch-off Sizes 01 and 02 equipped at the factory with terminal covers for the input and output side. 								
Connection		Article No.						
 Box terminals N ——— α ——— N	3KD9015-2	■						
	3KD9025-2		■					
	3KD9105-2			■				
	3KD9205-2				■			
 Flat terminals N ——— α ——— N	3KD9205-0				■			
	3KD9305-0					■		
	3KD9405-0						■	
	3KD9505-0							■
N terminals (neutral conductor terminal) with removable jumper								
<ul style="list-style-type: none"> A jumper can be removed in order to interrupt the electrical connection between the terminals 								
Connection		Article No.						
 Box terminals ——— ● ——— ● ———	3KD9106-2			■				
	3KD9206-2				■			
 Flat terminals ——— ● ——— ● ———	3KD9206-0				■			
	3KD9306-0					■		
	3KD9406-0						■	
	3KD9506-0							■
N/PE terminals with permanent jumper								
<ul style="list-style-type: none"> Permanent electrical connection between the terminals, cannot be broken 								
Connection		Article No.						
 Box terminals ——— ———	3KD9016-8	■						
	3KD9026-8		■					
	3KD9106-8			■				
	3KD9206-8				■			
 Flat terminals ——— ———	3KD9206-7				■			
	3KD9306-7					■		
	3KD9406-7						■	
	3KD9506-7							■

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"> Can be locked with up to max. 3 padlocks Requires additional mounting depth in locked state Not suitable for basic units with a lateral operating mechanism 													
	Inscription	Color	Article No.										
	Test-O-I	Gray	3KD9101-1				■						
			3KD9201-1					■					
			3KD9301-1							■			
			3KD9401-1									■	
			3KD9501-1										■
	Red/yellow	Red/yellow	3KD9101-2				■						
			3KD9201-2					■					
			3KD9301-2							■			
			3KD9401-2									■	
3KD9501-2											■		
Direct operating mechanisms, flat version													
<ul style="list-style-type: none"> Suitable for distribution boards and only basic units with a front operating mechanism Can be locked with one padlock No additional mounting depth in locked state 													
	Inscription	Color	Article No.										
	Test-O-I	Gray	3KD9101-0				■						
			3KD9201-0					■					
	Red/yellow	Red/yellow	3KD9101-8				■						
3KD9201-8						■							
Direct operating mechanisms, distribution boards													
<ul style="list-style-type: none"> Not suitable for basic units without handle 													
	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"> Scope of supply: <ul style="list-style-type: none"> Handle with masking plate (sizes 01 and 02 without test function) Coupling driver Shaft 300 mm Can be locked with up to max. 3 padlocks 													
	Inscription	Tolerance compensation	Defeat function	Color	Article No.								
	O-I	With	With	Gray	8UD1171-1AD21	■	■						
				Red/yellow	8UD1171-1AD25	■	■						
				Gray	3KD9001-5	■	■						
		Without	Without	Gray	3KD9001-6	■	■						
				Gray	8UD1171-2AD11			■	■				
				Red/yellow	8UD1171-2AD15			■	■				
	Test-O-I	With	With	Gray	8UD1171-2AF21			■	■				
				Gray	8UD1141-2AF21					■			
				Gray	8UD1151-3AF21						■		
				Gray	8UD1161-4AF21							■	
				Red/yellow	8UD1171-2AF25			■	■				
				Red/yellow	8UD1141-2AF25					■			
				Red/yellow	8UD1151-3AF25						■		
Red/yellow				8UD1161-4AF25							■		







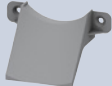
Note:

- 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"> Supplied with a masking plate, but without an extension shaft and without coupling driver Can be locked with up to max. 3 padlocks 												
Inscription					Article No.							
   	O-I	Without	Gray	8UD1771-2AD01	■	■	■	■				
				8UD1841-2AD01				■				
				8UD1851-3AD01						■		
				8UD1861-4AD01							■	
	With	Red/yellow	8UD1771-2AD05	■	■	■	■					
			8UD1841-2AD05					■				
			8UD1851-3AD05							■		
			8UD1861-4AD05								■	
		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								■	
	With	Red/yellow	8UD1771-2AF05			■	■					
			8UD1841-2AF05					■				
			8UD1851-3AF05							■		
			8UD1861-4AF05								■	
		Gray	8UD1771-2CF01			■	■					
			8UD1841-2CF01					■				
			8UD1851-3CF01							■		
			8UD1861-4CF01								■	
Red/yellow	8UD1771-2CF05			■	■							
	8UD1841-2CF05					■						
	8UD1851-3CF05							■				
	8UD1861-4CF05								■			
Extension shafts												
<ul style="list-style-type: none"> 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 												
Length					Article No.							
	300 mm	3KD9002-0			■	■						
		8UC6032					■	■	■			
		8UC6033									■	
		8UC6034										■
	600 mm	3KD9002-1			■	■						
		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
Coupling drivers									
	Version	Article No.							
	With tolerance compensation	8UD1900-1GA00	■	■					
		8UD1900-2GA00			■	■			
		8UD1900-6GA00					■		
		8UD1900-3GA00						■	
	8UD1900-4GA00							■	
	Version	Article No.							
	Without tolerance compensation	8UD1900-1HA00	■	■					
		8UD1900-2HA00			■	■			
		8UD1900-6HA00					■		
		8UD1900-3HA00						■	
	8UD1900-4HA00							■	
Adapters for shafts									
	Version	Article No.							
		8UC6022			■	■	■		
		8UC6023						■	
	8UC6024							■	

Further accessories and spare parts

				Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5	
Auxiliary switch modules											
	<ul style="list-style-type: none"> Auxiliary switch modules are supplied without auxiliary switches. A maximum of 2 auxiliary switches can be installed per auxiliary module 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 										
	Type	Article No.									
Standard version	3KD9103-5										
With test function	3KD9103-6										
With leading NO contact and test function	3KD9103-7										
Auxiliary switches											
<ul style="list-style-type: none"> Auxiliary switches for sizes 01 and 02 are snapped onto the side of the switches Auxiliary switches for sizes 3 to 5 have a screw terminal and are mounted on the 3KD operating mechanism module. Auxiliary switches with spring-type terminals from the 3SU1 program can also be used. 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). 											
	Type	Contacts	Contact surface	Article No.							
	With connecting cables	1 CO	Standard	3KD9103-1			■	■			
			Solid-state compatible	3KD9103-3			■	■			
	Without connecting cables	1 NO + 1 NC	Standard	3KD9003-2	■	■					
			Solid-state compatible	3KD9003-4	■	■					
		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

Further 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.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
For 3-pole devices	6 units	3KD9108-6				■			
		3KD9308-6					■		
		3KD9408-6							■
		3KD9508-6							■
For 4-pole devices	8 units	3KD9108-8				■			
		3KD9308-8					■		
		3KD9408-8							■
		3KD9508-8							■

Terminal covers



- 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	Type	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
For 1-pole devices	4 units		3KD9014-1B	■						
			3KD9024-1B		■					
For 3-pole devices	4 units		3KD9014-3B	■						
			3KD9504-6							■
	6 units	Standard version	3KD9204-6				■			
		Short version	3KD9204-7				■			
	8 units	Standard version	3KD9304-6					■		
			3KD9404-6							■
		Short version	3KD9304-7					■		
			3KD9404-7							■
For 4-pole devices	8 units	Standard version	3KD9504-8							■
		Short version	3KD9204-8				■			
	10 units	Standard version	3KD9204-5				■			
			3KD9304-8					■		
		Short version	3KD9404-8							■
			3KD9304-5					■		
		3KD9404-5						■		

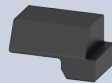
Spare part for terminal covers



- Not permissible for 2000 A devices

Version	Scope of supply	Type	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
	1 unit	Standard version	3KD9504-1							■
		Short version	3KD9204-1				■			
			3KD9304-1					■		
			3KD9404-1							■

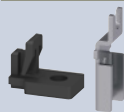
Blocking pin test function



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

Version	Scope of supply	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
	10 units	3KF9112-1AA00			■	■			
		3KF9412-1AA00					■	■	
		3KF9512-1AA00							■

Mounting brackets



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

Version	Scope of supply	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
	4 units	3KD9120-1			■	■			
		3KF9212-0AA00					■		
		3KF9412-0AA00							■
		3KF9512-0AA00							■

Further accessories and spare parts

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

Slide for mounting on a DIN rail



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

Scope of supply	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
5 units	3KF9112-0BA00			■	■			

Accessories for DC applications

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

Connecting bridges



- Suitable for connecting 2 poles
- For 3KD switch disconnectors with 400 A, 800 A, 1250 A and 1600 A, two units are required.

Connection	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals	3KD9118-1			■				
	3KD9218-1				■			
Flat terminals	3KD9218-0				■			
	3KD9318-0					■		
	3KD9418-0						■	
	3KD9518-0							■

Terminal covers for connecting bridges



- For 3KD with flat terminals

Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
3KD9204-0				■			
3KD9304-0					■		
3KD9404-0						■	
3KD9504-0							■

Fuse switch disconnectors

Quick selection guide



3NP1



Size

000 narrow	000	00	1	2	3
---------------	-----	----	---	---	---

General technical specifications acc. to IEC 60947-3

Basic data

Rated uninterrupted current I_u	A	125	125 ²⁾	160	250	400	630
For fuse links acc. to IEC 60269-2	Size	000	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	690	690		
	At DC (3 conducting paths in series)	V	–	440	440		
	At DC (2 conducting paths in series)	V	–	240	240		
	At DC	V	–	–	–		
	For utilization category AC-20B or DC-20B	V	–	690 ¹⁾	690 ¹⁾		

Operating and short-circuit behavior

Rated operational current I_e	At AC-21B, 400 V AC	A	125	125 ²⁾	160	250	400	630
	At AC-22A, 400 V AC	A	–	–	–	–	–	–
	At AC-22B, 400 V AC	A	125	125 ²⁾	160	250	400	630
	At AC-23B, 400 V AC	A	63	125 ²⁾	160	250	400	630
	At AC-21B, 500 V AC	A	125	125 ²⁾	160	250	400	630
	At AC-22B, 500 V AC	A	125	125	160	250	400	630
	At AC-23B, 500 V AC	A	–	40	63	200	315	500
	At AC-21B, 690 V AC	A	80	125 ²⁾	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	–	125 ²⁾	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	80/80/80	80/80/50	80/80/50	50/50/50
	Permissible let-through current of the fuses, peak value	kA	10	10	15	25	40	50
Short-circuit strength with fuses (with closed disconnector)	Rated current at 500 V/690 V	kA	80/80	120/100	120/100	120/100	100/100	100/100
	Permissible let-through I^2t value of the fuses	kA ² s	59	223	223	780	2150	5400
	Permissible let-through current of the fuses, peak value	kA	10	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	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Rated impulse withstand voltage U_{imp}		kV	6	8	8	8	8	8
Power loss per pole of the switch at I_{th} (without fuses)		W	4.6	5	5	8	14	30
Maximum power loss of the usable fuses (per fuse)		W	9	7.5 ³⁾	12	23	34	48
Mechanical endurance, operating cycles			2000	2000	2000	1600	1000	1000

Degree of protection, on the front

Without masking plate or terminal cover – switch closed/open	IP30/IP10	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20
With masking plate or terminal cover – switch closed/open	IP30/IP10	IP40/IP20	IP40/IP20	IP40/IP20	IP40/IP20	IP40/IP20

Certifications and approvals

VDE, CCC, LR,  us⁴⁾

Further information

See page 8/84

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

3NP5



3NJ4/3NJ5



5SG76



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
-	-	-	-	-	-	-	-	-	16
160	250	400	630	160	250	400	630	1250	-
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	-	-	-	-	-	-
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 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	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 8/98

See page 8/102

See page 8/114

¹⁾ Applies to degree of pollution 3
(for degree of pollution 2, use up to U_i 1000 V possible)

²⁾ If optional infeed terminal is used max. 160 A

³⁾ Max. 9 W for operation up to 160 A

⁴⁾ 3NP1 NH000 in narrow design only has IEC approval

3NP1 fuse switch disconnectors

System overview

Basic units

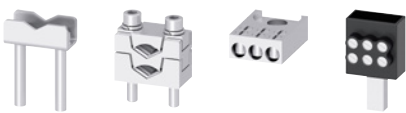


1, 3, 4-pole for floor mounting



3 and 4-pole mounting on busbar systems

Connection parts



Terminals for retrofitting to 3NP1



Auxiliary conductor connections



3-phase busbars

Assembly kits



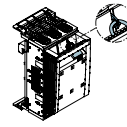
DIN-rail mounting



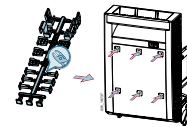
Mechanical connection



1/4-pole busbar mounting

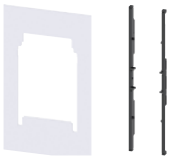


Locking function



Protection against power theft

Masking frames and covers



Masking frames and supports



Cable connection covers



Reach-around protection for busbar

Further 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



3NA COM LV HRC fuse links

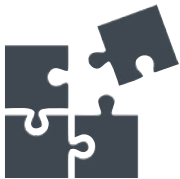


The new 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See [Fuse Systems](#), page 7/50



Modular design



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 at sie.ag/3IIXQZH.

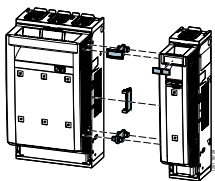
Directly to 3NP1
configurator under:
sie.ag/3IIXQZH



8



Number of poles



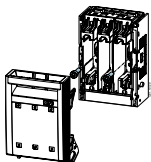
3NP1 fuse switch disconnectors are available from the factory in 1, 3 and 4-pole device versions. 4-pole types are available in all common versions from the factory ready for installation (without fuse monitoring, N-pole on the right-hand side).

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).

You will find further
information under:
sie.ag/2UlrAvy

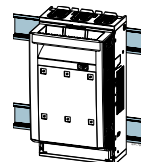


Floor mounting and DIN rail



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

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



You will find further
information under:
sie.ag/2UlrAvy



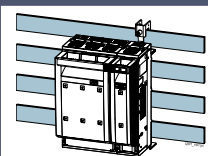
The devices for floor mounting of sizes 000, 00 and 1 can also be mounted on a DIN rail using accessories. For this purpose, the assembly kit for mounting on a DIN rail is simply mounted on the rear panel of the 3NP1.

3NP1 fuse switch disconnectors

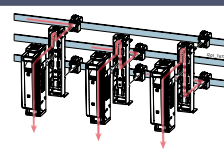
General information



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



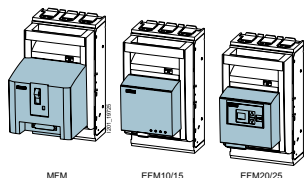
1-pole 3NP1 devices for wall mounting in sizes 000 and 00 can be adapted to the 8US 60 mm busbar system using the assembly kit for 1-pole busbar mounting. Due to the modular design of the assembly kit, any phase can be selected for the infeed.

8



Fuse monitoring

You will find further information under: 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:

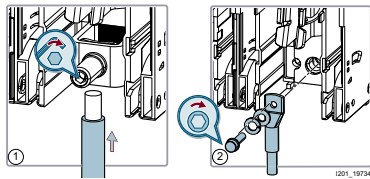
Fuses with insulated grip lugs cannot be used for 3NP1 with fuse monitoring.

		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	–	220 ... 440 V
Detection and indication of	Overvoltage	–	–	–	–	–	–	■	■	
	Undervoltage	–	–	–	–	–	–	■	■	
	Phase failure	–	–	–	–	–	–	■	–	



Electrical connection

You will find further information under:
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 three-tier terminals.

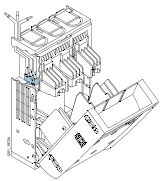


Further accessories

You will find further information under:
sie.ag/2UlrAvy

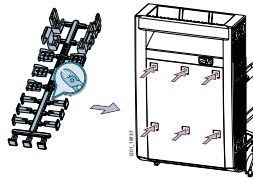


Auxiliary switches



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



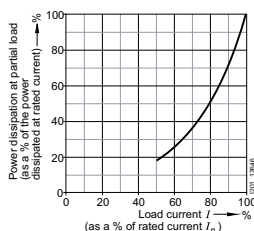
4-pole 3NP1s are used in 3-phase AC systems with switched neutral conductors. They are supplied without an isolating blade for the N pole. The switching instant is selected by choosing the appropriate isolating blade.

8



Suitable fuses

You will find further information under:
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 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 fuse switch disconnector is not exceeded. For use of SITOR 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

Flat terminals

NH00



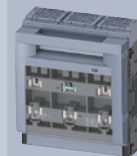
NH1



NH2









NH3



Fuse monitoring	Number of poles	$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
Floor mounting					
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
Mounting on 60 mm busbar systems with reach-around protection for Siemens 8US					
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
	3-pole	3NP1133-1BC13	3NP1143-1BC13	3NP1153-1BC13	3NP1163-1BC13
Mounting on 60 mm busbar systems with reach-around protection for Rittal					
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
Mounting on 40 mm busbar systems with reach-around protection for Siemens 8US					
Without FM	3-pole	3NP1133-1BB10	–	–	–
MFM	3-pole	3NP1133-1BB11	–	–	–
EFM10	3-pole	3NP1133-1BB12	–	–	–
EFM20	3-pole	3NP1133-1BB13	–	–	–
Mounting on 40 mm busbar systems with reach-around protection for Rittal					
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 operational 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 operational 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 narrow	NH000	NH00	NH1	NH2	NH3
					
$I_u = 125 \text{ A}$	$I_u = 125 \text{ A}^{2)}$	$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
–	3NP1121-1CA20	3NP1131-1CA20	3NP1141-1DA20	3NP1151-1DA20	3NP1161-1DA20
3NP1113-1CA20	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
3NP1113-1BC20 ¹⁾	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
3NP1113-1BC20 ¹⁾	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	–	–	–

¹⁾ The direction of the cable outlet for the load side cannot be changed on size NH000, narrow design
 3NP1113-1BC20 → Cable outlet at the bottom
 3NP1113-2BC20 → Cable outlet at the top

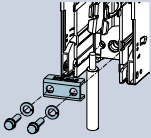
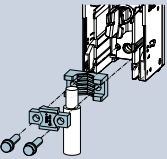
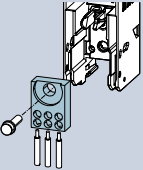
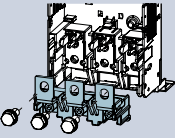
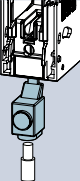
²⁾ If optional infeed terminal is used max. 160 A

3NP1 fuse switch disconnectors

Accessories

Connection technology – Terminals

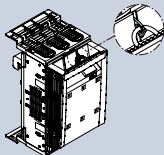
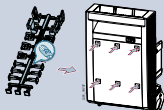
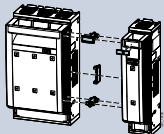
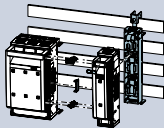
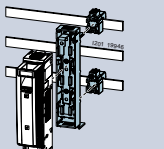
- For adaptation to the respective wiring situation
- Contain enough parts to retrofit one side of a 3NP1 accordingly (three terminals for 3-pole 3NP1, one terminal for 1-pole unit)
- If the incoming cable and cable outlet are retrofitted, two packages must be ordered

		1-pole	3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Saddle terminals									
 <ul style="list-style-type: none"> • Allows connection of stripped circular conductors to 3NP1 with flat terminals 	Connection	Conductor cross-section	Article No.	Article No.					
		1.5 ... 70 mm ²	3NP1931-1BA00	3NP1933-1BA00		■			
		70 ... 120 mm ²	3NP1941-1BA00	3NP1943-1BA00			■		
		120 ... 240 mm ²	3NP1951-1BA00	3NP1953-1BA00				■	
		150 ... 300 mm ²	3NP1961-1BA00	3NP1963-1BA00					■
Prism terminals									
 <ul style="list-style-type: none"> • Allows connection of stripped circular conductors to 3NP1 with flat terminals • Also approved for connection of aluminum conductors, available for one or two conductors 	Type	Conductor cross-section	Article No.	Article No.					
	Single	35 ... 95 mm ²	3NP1931-1BB10	3NP1933-1BB10		■			
		70 ... 150 mm ²	3NP1941-1BB10	3NP1943-1BB10			■		
		120 ... 240 mm ²	3NP1951-1BB10	3NP1953-1BB10				■	
		150 ... 300 mm ²	3NP1961-1BB10	3NP1963-1BB10					■
	Double	2 × 35 ... 70 mm ²	3NP1941-1BB20	3NP1943-1BB20			■		
		2 × 70 ... 120 mm ²	3NP1951-1BB20	3NP1953-1BB20				■	
2 × 150 ... 185 mm ²		3NP1961-1BB20	3NP1963-1BB20					■	
Three-tier terminals									
 <ul style="list-style-type: none"> • Distributes one outgoing feeder directly to three smaller loads 	Type	Conductor cross-section	Article No.	Article No.					
	For 3NP1 with flat terminals	3 × 1.5 ... 16 mm ²	3NP1931-1BE10	3NP1933-1BE10		■			
	For 3NP1 with box terminals	3 × 1.5 ... 16 mm ²	3NP1921-1BE20	3NP1923-1BE20		■	■		
Connection module									
 <ul style="list-style-type: none"> • 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) • For 3NP1 with flat terminals 	Type	Conductor cross-section	Article No.	Article No.					
	Connection module	3 × 6 ... 70 mm ²	3NP1931-1BC00	3NP1933-1BC00		■			
Infeed terminal									
 <ul style="list-style-type: none"> • Extends the conductor cross-section of a 000 with box terminal to up to 95 mm² 	Version	Conductor cross-section	Article No.	Article No.					
	Infeed terminal	16 ... 95 mm ²	3NP1921-1BD00	3NP1923-1BD00		■			

3NP1 fuse switch disconnectors

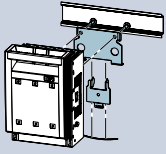
Accessories

Assembly kits

	NH000 narrow	NH000	NH00	NH1	NH2	NH3	
Retrofitting of locking function							
 <ul style="list-style-type: none"> For all versions of the 3NP1 If required for locking with a padlock (not necessary for the 1-pole 3NP1 and NH000, narrow design) 	Article No.						
	Scope of supply 1 pack = 10 units	3NP1900-1HA00	■	■	■	■	■
Protection against power theft							
 <ul style="list-style-type: none"> 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) 	Article No.						
	Scope of supply 1 pack is sufficient to equip 5 3NP1 units, 2.5 units for NH000, narrow design	3NP1900-1EF00	■	■	■	■	■
Mechanical connection of 1-pole and 3-pole 3NP1 devices							
 <ul style="list-style-type: none"> For 3NP1 with floor mounting By combining two 3NP1s for floor mounting, any 2-pole and 4-pole devices can be created 	Article No.						
		3NP1921-1EC00	■				
		3NP1931-1EC00		■			
		3NP1941-1EC00			■	■	■
4-pole connection assembly kit for mounting on a 8US 60-mm busbar							
 <ul style="list-style-type: none"> Connects a 3-pole 3NP1 for busbar mounting 60 mm 8US to a 1-pole 3NP1 for floor mounting The 1-pole 3NP1 switches the neutral conductor of a 3P+N system in this combination 	Article No.						
	3NP1 connection						
	With flat terminals	3NP1934-1ED20		■			
	With box terminals	3NP1924-1ED10	■				
		3NP1934-1ED10		■			
	With flat terminals or box terminals	3NP1944-1ED00			■		
	3NP1954-1ED00				■	■	
1-pole connection assembly kit for mounting on a 8US 60-mm busbar							
 <ul style="list-style-type: none"> Permits adaptation of a 1-pole 3NP1 for floor mounting to a 3-pole busbar system The feeding busbar (L1, L2 or L3) can be chosen freely If two such 3NP1 are combined by mechanical connection using the assembly kit, 2-pole 3NP1 for busbar mounting can also be assembled 	Article No.						
	3NP1 connection						
	With box terminals	3NP1921-1EE10	■				
	3NP1931-1EE10		■				

Assembly kits

Assembly kits for mounting on DIN rail

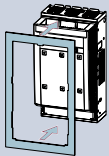
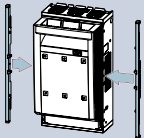
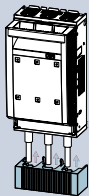
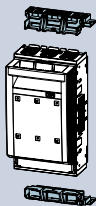


- Must be mounted on the rear of a 3NP1 for floor mounting
- Mounting of the 3NP1 on a DIN rail is achieved for size NH000 by mounting on a DIN rail, and for sizes NH00 and NH1 between two DIN rails that are 125 or 150 mm apart

	1/2-pole	3-pole	4-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Article No.	Article No.	Article No.							
3NP1921-1EA00	3NP1923-1EA00	3NP1924-1EA00		■					
–	3NP1913-1EB00 new	–	■						
3NP1931-1EB00	3NP1933-1EB00	3NP1933-1EB00				■			
3NP1943-1EB00	3NP1943-1EB00	3NP1943-1EB00					■		

3NP1 fuse switch disconnectors

Accessories

	1-pole	3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Masking frames and covers								
Masking frames								
	<ul style="list-style-type: none"> Used to cover an existing gap for a masking frame mounted on the application side 							
Outer dimensions (H×W)	Article No.	Article No.						
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"> Are mounted on the side of the 3NP1 and prevent the supported masking frame from sagging (pack of 2 units) 							
	Article No.	Article No.						
	3NP1923-1CF00	3NP1923-1CF00		■				
	–	3NP1913-1CF00 ¹⁾	■					
	3NP1933-1CF00	3NP1933-1CF00			■			
	3NP1943-1CF00	3NP1943-1CF00				■	■	■
Cable connection covers								
	<ul style="list-style-type: none"> Extends the terminal covers integrated in the 3NP1 In the version with rear reach-around protection, the underside is also covered 							
Version	Article No.	Article No.						
Without rear reach-around protection	3NP1921-1CB00	3NP1923-1CB00 ¹⁾		■				
	–	3NP1913-1CB00	■					
	3NP1931-1CB00	3NP1933-1CB00 ²⁾			■			
	3NP1941-1CB00	3NP1943-1CB00				■		
	3NP1951-1CB00	3NP1953-1CB00					■	
With rear reach-around protection	3NP1961-1CB00	3NP1963-1CB00						■
	–	3NP1933-1CC00 ¹⁾			■			
	3NP1931-1CD00	3NP1933-1CD00 ³⁾			■			
	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"> Covers the busbar For conversion of a 3NP1 to another busbar system 							
For busbar systems	Article No.	Article No.						
Siemens 8US	–	3NP1923-1CA10		■				
	–	3NP1913-1CA10	■					
	–	3NP1933-1CA10			■			
	3NP1941-1CA10	–				■	■	■
	–	3NP1943-1CA10				■		
	–	3NP1953-1CA10					■	
–	3NP1963-1CA10						■	
Siemens 8US compact	–	3NP1923-1CA30		■				
Rittal	–	3NP1923-1CA20		■				
	–	3NP1913-1CA10						
	–	3NP1933-1CA20			■			
	–	3NP1943-1CA20				■		
	–	3NP1953-1CA20					■	
	–	3NP1963-1CA20						■

¹⁾ Only for 3NP1 for mounting on busbar systems

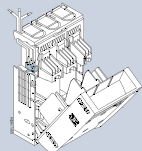
²⁾ Only for 3NP1 with flat terminals

³⁾ Only for 3NP1 with flat terminals for floor mounting

Further accessories

Auxiliary switches

- Up to 2 auxiliary switches can be mounted
- 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)



Contacts

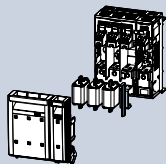
1 CO

Article No.

	NH000 narrow	NH000	NH00	NH1	NH2	NH3
3NP1920-1FA00		■				
3NP1910-1FA00	■					
3NP1930-1FA00			■			
3NP1940-1FA00				■	■	■
3NP1920-1FB00		■				
3NP1930-1FB00			■			
3NP1940-1FB00				■	■	■

1 CO, solid-state compatible

Isolating blades



- Are used in a 3NP1 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.
- The isolating blade, which is leading switch-on and lagging switch-off, is used in the neutral conductor of a 4-pole 3NP1 if shifting of the neutral point of the 3P+N system has to be avoided during switching.

Version

Switching simultaneously with fuses

Article No.

	NH000 narrow	NH000	NH00	NH1	NH2	NH3
3NG1002		■	■			
3NG1202				■		
3NG1302					■	
3NG1402						■
3NP1924-1MA20		■				
3NP1934-1MA20			■			
3NP1944-1MA20				■		
3NP1954-1MA20					■	
3NP1964-1MA20						■

Leading switch-on, lagging switch-off

3NP1 fuse switch disconnectors

Further accessories

Fuse carriers (spare part)

- For retrofitting fuse monitoring on an existing 3NP1



	1-pole	3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Version	Article No.	Article No.						
Standard – without fuse monitoring	3NP1921-1GA00	3NP1923-1GA00		■				
	–	3NP1913-1GA00	■					
	3NP1931-1GA00	3NP1933-1GA00			■			
	3NP1941-1GA00	3NP1943-1GA00				■		
	3NP1951-1GA00	3NP1953-1GA00					■	
	3NP1961-1GA00	3NP1963-1GA00						■
MFM - for operational voltage 24 ... 690 V AC (L-L)/ 24 ... 240 V DC (L+ - L-)	–	3NP1923-1GB10		■				
	–	3NP1933-1GB10			■			
	–	3NP1943-1GB10				■		
	–	3NP1953-1GB10					■	
	–	3NP1963-1GB10						■
EFM10 - for operational voltage 230 ... 690 V AC (L-L)	–	3NP1923-1GB20		■				
	–	3NP1933-1GB20			■			
	–	3NP1943-1GB20				■		
	–	3NP1953-1GB20					■	
	–	3NP1963-1GB20						■
EFM15 - for operational 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 operational voltage 110 ... 690 V AC (L - N)	3NP1921-1GB41	–		■				
	3NP1931-1GB41	–			■			
	3NP1941-1GB41	–				■		
	3NP1951-1GB41	–					■	
	3NP1961-1GB41	–						■
EFM15 - for operational voltage 120 ... 440 V DC (L - N)	3NP1921-1GB44	–		■				
	3NP1931-1GB44	–			■			
	3NP1941-1GB44	–				■		
	3NP1951-1GB44	–					■	
	3NP1961-1GB44	–						■
EFM15 - for operational voltage 190 ... 690 V AC (L - L)	–	3NP1923-1GB42		■				
	–	3NP1933-1GB42			■			
	–	3NP1943-1GB42				■		
	–	3NP1953-1GB42					■	
	–	3NP1963-1GB42						■
EFM15 - for operational voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB45		■				
	–	3NP1933-1GB45			■			
	–	3NP1943-1GB45				■		
	–	3NP1953-1GB45					■	
	–	3NP1963-1GB45						■
EFM20 - for operational voltage 230 ... 690 V AC (L - L)	–	3NP1923-1GB30		■				
	–	3NP1933-1GB30			■			
	–	3NP1943-1GB30				■		
	–	3NP1953-1GB30					■	
	–	3NP1963-1GB30						■
EFM25 - for operational 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

Further 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



3NA COM LV HRC fuse links



The new 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See [Fuse Systems](#), page 7/50



System description

You will find further information under:
sie.ag/2UlrAvy



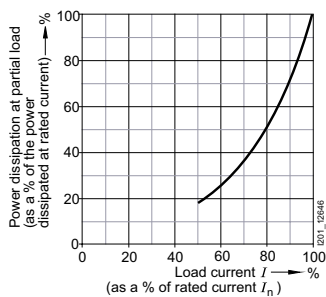
The 3NP5 fuse switch disconnector is an extremely robust device for extreme operating conditions. The fuse carrier has a pretensioned spring that prevents accidental, slow closure. All 3NP5 are designed for mounting on a mounting plate. Size NH00 is also available in versions for 40 mm busbar systems.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



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 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 fuse switch disconnector is not exceeded. For use of Siemens SITOR semiconductor fuses, ready-made derating tables are available in the linked document.







3NP5 fuse switch disconnectors







Type of mounting	Auxiliary switches	$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
Without fuse monitoring					
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	–	–	–
Electromechanical fuse monitoring with 1 NO + 1 NC as a signaling contact					
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	–	–	–
Electromechanical fuse monitoring with 2 NO as a signaling contact					
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	–	–	–

8

Accessories

				NH00	NH1	NH2	NH3
Clamp terminals							
	Version	Scope of supply	Article No.				
	For retrofitting to 3NP5 with flat terminals	3 units	3NY1903 3NY1907	■	■		
Busbar adapters							
	• For 60 mm busbar system						
	Version	Article No.					
	For adaptation of a 3NP5, for floor mounting on a 60-mm busbar system	8US1291-4SB00 8US1210-4AG00	■	■	■	■	
Covers for cable lug connections							
	Version	Scope of supply	Article No.				
	Can be screwed onto the free end of the screw	6 units	3NY1241 3NY1245		■	■	■
Covers for 3NP5, with auxiliary switch mounted							
	• With punched cutouts for auxiliary switches						
	Color	Version	Dimensions	Article No.			
	Gray	Flat	215 × 135 mm	3NY1115	■		
	Black	Flat, with additional bending edges	290 × 135 mm	3NY1116	■		
Covers for 3NP5, without auxiliary switches mounted							
	• With prepunched cutouts for retrofitting an auxiliary switch						
	Color	Version	Dimensions	Article No.			
	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	■			
Auxiliary switches							
	Version	Article No.					
	1 NO + 1 NC, including mounting kit	3NY3033 3NY3034	■	■	■	■	

Accessories

			NH00	NH1	NH 2	NH3	
Arc chutes							
	<ul style="list-style-type: none"> Spare part for arc chutes installed in the factory, one unit per switch is required for NH00, three units for NH1 to NH3 						
			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			■		
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				■	
Connectors and connecting cables							
	Version		Length		Article No.		
	For electromechanical fuse monitoring		1 m		3NY1910	■	■
			3 m		3NY1911	■	■

3NJ4 fuse switch disconnectors

System overview

1-pole switchable



NH00/NH000 ... NH3
(690 V)



NH4a
(690 V)



NH1 ... NH3 (690 V) for
integratable current transformers

3-pole switchable



NH00/NH000 ... NH3
(690 V)



NH00/NH000 ... NH3
(690 V) for integratable
current transformers



NH00/NH000 ... NH3
(690 V) with electronic
fuse monitoring EFM



NH00/NH000 ... NH3
(690 V) for integratable
current transformers with
electronic fuse monitoring
EFM



NH3 (400 V) for
secondary-side fusing
of transformers and
incoming block



NH00/NH000,
NH1 and NH3
(800 V)

8

Accessories



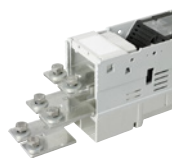
Covers



Adapters on
busbar systems



Mounting and
assembly elements



Busbar connection
assembly kits



Fuses



Current
transformers

Note:

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

General information



3NA COM LV HRC fuse links



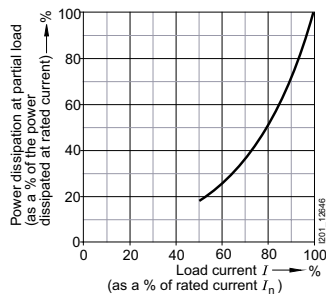
The new the 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See [Fuse Systems](#), page 7/50



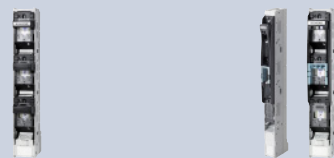
Suitable fuses

You will find further information under:
sie.ag/2UlrAvy



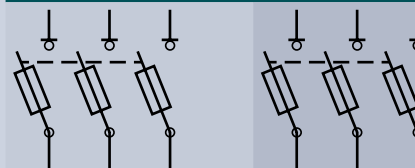
The 3NJ4 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection.

3NJ4 fuse switch disconnectors



1-pole switchable

3-pole switchable

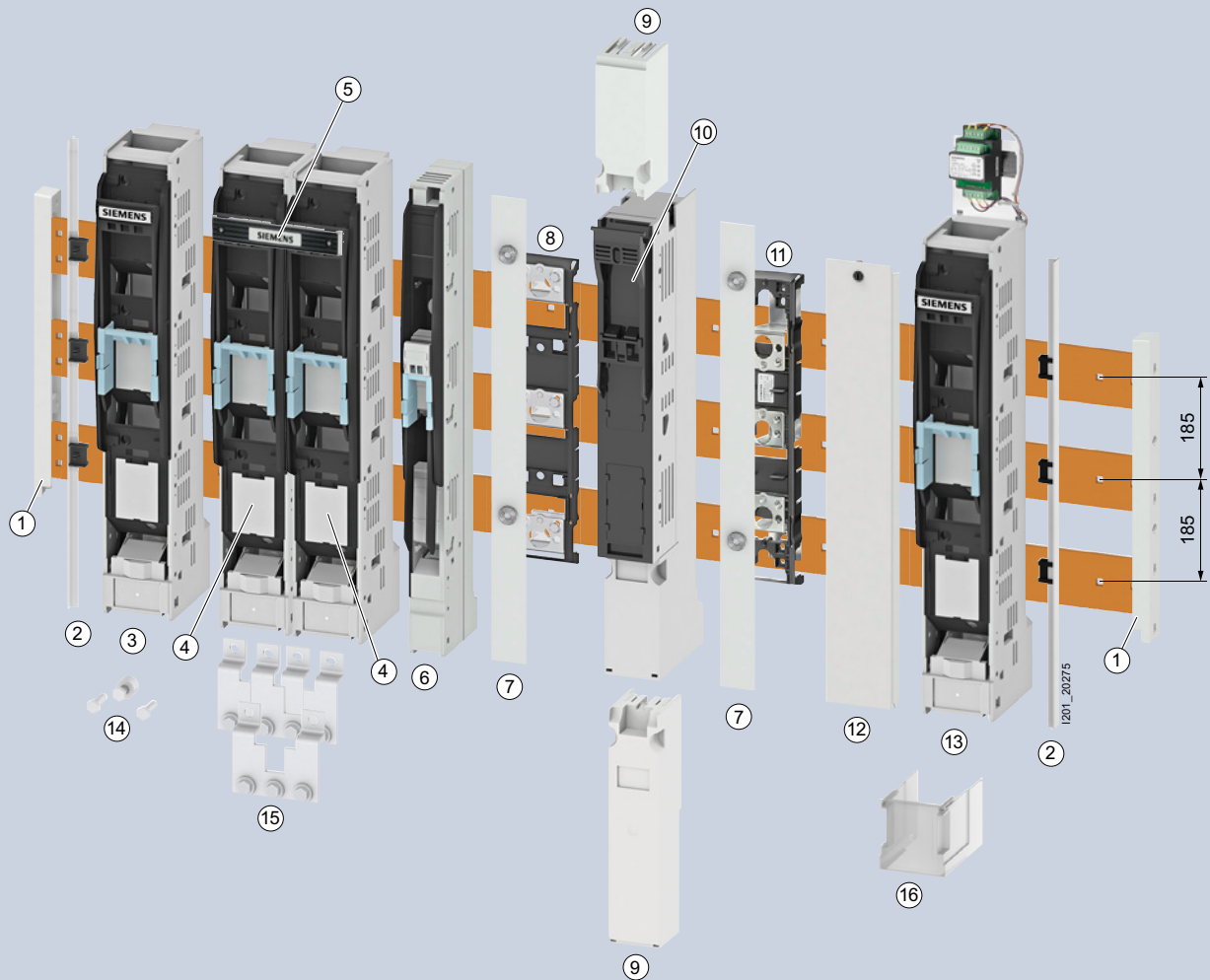


Rated operational current I_e	Busbar center-to-center spacing	Fuse size	Connection		
NH00/NH000 ... NH3 (690 V)					
160 A	100 mm	NH00/NH000	M8 flat terminal	–	3NJ4103-3BF02
		NH00/NH000	F70 box terminal	–	3NJ4103-3BR02
250 A	185 mm	NH00/NH000 ¹⁾	M8 flat terminal	3NJ4101-3BF01	3NJ4103-3BF01
			M10 flat terminal	3NJ4121-3BF01	3NJ4123-3BF01
			M12 stud terminal	–	3NJ4123-3BJ01
400 A	185 mm	NH2	V terminal	–	3NJ4123-3BT01
			M12 flat terminal	3NJ4131-3BF01	3NJ4133-3BF01
			M12 stud terminal	–	3NJ4133-3BJ01
630 A	185 mm	NH3	V terminal	–	3NJ4133-3BT01
			M12 flat terminal	3NJ4141-3BF01	3NJ4143-3BF01
			M12 stud terminal	–	3NJ4143-3BJ01
			V terminal	–	3NJ4143-3BT01
NH00/NH000 ... NH4a (690 V)					
1250 A	185 mm	NH4a	M16 × 60 stud terminal	3NJ5643-0BB00	–
NH00/NH000 ... NH3 (690 V) for integratable current transformers					
160 A	100 mm	NH00/NH000	M8 flat terminal	–	3NJ4103-3BF12
250 A	185 mm	NH1	M10 flat terminal	3NJ4121-3BF11	3NJ4123-3BF11
400 A	185 mm	NH2	M12 flat terminal	3NJ4131-3BF11	3NJ4133-3BF11
630 A	185 mm	NH3	M12 flat terminal	3NJ4141-3BF11	3NJ4143-3BF11
NH00/NH000 ... NH3 (690 V) with electronic fuse monitoring EFM					
160 A	100 mm	NH00/NH000	M8 flat terminal	–	3NJ4103-3CF02
250 A	185 mm	NH1	M10 flat terminal	–	3NJ4123-3CF01
400 A	185 mm	NH2/NH1	M12 flat terminal	–	3NJ4133-3CF01
630 A	185 mm	NH3/NH2	M12 flat terminal	–	3NJ4143-3CF01
NH00/NH000 ... NH3 (690 V) for integratable current transformers, with electronic fuse monitoring EFM					
160 A	100 mm	NH00/NH000	M8 flat terminal	–	3NJ4103-3CF12
250 A	185 mm	NH1	M10 flat terminal	–	3NJ4123-3CF11
400 A	185 mm	NH2/NH1	M12 flat terminal	–	3NJ4133-3CF11
630 A	185 mm	NH3/NH2	M12 flat terminal	–	3NJ4143-3CF11
NH3 (400 V) for secondary-side fusing of transformers and incoming block					
1000 A	185 mm	NH3	2 × M12 flat terminal	–	3NJ4153-3BF01
1250 A	185 mm	NH3	2 × M12 flat terminal	–	3NJ4183-3BF01
1600 A	185 mm	NH3	3 × M12 flat terminal	–	3NJ4163-3BF01
2000 A	185 mm	NH3	4 × M12 flat terminal	–	3NJ4173-3BF01
NH00/NH000, NH1 and NH3 (800 V)					
63 A	100 mm	NH00/NH000 ¹⁾	M8 flat terminal	–	3NJ4103-3DF02
	185 mm	NH00/NH000	M8 flat terminal	–	3NJ4103-3DF01
160 A	185 mm	NH1	M10 flat terminal	–	3NJ4123-3DF01
315 A	185 mm	NH3	M12 flat terminal	–	3NJ4143-3DF01

¹⁾ 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.



- | | | |
|-------------------------------------|-------------------------------------|---|
| ① Busbar support | ⑦ Unequipped section cover, 50 mm | ⑬ Switch disconnector, NH3, with EFM |
| ② Lateral masking frame support | ⑧ Adapter, 185 mm to 185 mm | ⑭ Assembly kit, 2 x 240 mm ² |
| ③ Switch disconnector, NH1 | ⑨ Cover, spacer | ⑮ Busbar connection assembly kit, 4 x 185 mm ² |
| ④ Switch disconnector, NH2 | ⑩ Switch disconnector, NH00, 100 mm | ⑯ Cover, NH1-3 |
| ⑤ Coupling of operating handle | ⑪ Adapter, 100 mm to 185 mm | |
| ⑥ Switch disconnector, NH00, 185 mm | ⑫ Blanking cover, 633 x 100 mm | |

3NJ4 fuse switch disconnectors

Accessories

⑧ 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
⑩ NH1 ... NH3	Connection for top and bottom		3NJ4912-1AA01
NH3	For double in-line disconnectors		3NJ4912-1EA00

⑨ 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

⑩ 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

⑪ 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	⑧ From 100 mm to 185 mm	3NJ4918-0DA02
	⑩ 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

¹⁾ Touch protection only suitable for 3NJ4103-3BF02

²⁾ Touch protection only suitable for 3NJ4101-3BF01 and 3NJ4103-3BF01

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
■	■	■	■	■	■	■	■	■
		■	■	■	■	■	■	■
■	■	■	■	■				
	■ ¹⁾							
■	■ ¹⁾							
		■	■	■				
■	■	■	■	■	■	■	■	■
		■	■	■				
	■	■	■	■				
	■							

3NJ4 fuse switch disconnectors

Accessories

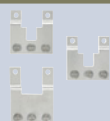
Busbar connection assembly kits for NH2 and NH3



- With flat terminals

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

Busbar connection assembly kits for NH3



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

⑤ 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 operational current I_e	Article No.
1250 A	3NJ4914-8BA00

Current transformers .../1 A



Rated primary current I_{pr}	Accuracy class	Rated power P_n	Article No.
100/1 A	0.5	1.5 VA	3NJ4915-1EA10
	1	2.0 VA	3NJ4915-1EA20
	0.5 calibrated	2.5 VA	3NJ4915-1FA10
150/1 A	0.5	2.5 VA	3NJ4915-1FA10
	0.5 calibrated	2.5 VA	3NJ4915-1FA11
	1	3.0 VA	3NJ4915-1FA20
75/1 A	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
250/1 A	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 primary current I_{pr}	Accuracy class	Rated power P_n	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	3.75 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	
Fuse size	Rated current I_n	Mounting width 1 MW	Mounting width 2 MW	Mounting width 2 MW	Mounting width 3 MW	Mounting width 4 MW

MINIZED fuse switch disconnectors						
D01	6 A ¹⁾	5SG7611-0KK06	–	–	5SG7631-0KK06	–
	10 A	5SG7611-0KK10	–	–	5SG7631-0KK10	–
	16 A	5SG7611-0KK16	5SG7651-0KK16	5SG7621-0KK16	5SG7631-0KK16	5SG7661-0KK16

¹⁾ For 2 A, 4 A, 6 A fuses

Note:

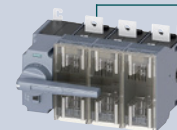
No NEOZED adapter sleeves are required for this type series

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_u	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_e	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_e ¹⁾	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 65 V	A	–	–	–	–	–	–	–	–	–	
	At DC-21A DC-21B at 110 V	A	–	–	–	–	–	–	–	–	–	
	At DC-21A DC-21B at 130 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 65 V	A	–	–	–	–	–	–	–	–	–	
	At DC-22A DC-22B at 110 V	A	–	–	–	–	–	–	–	–	–	
	At DC-22A DC-22B at 130 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	–	–	–	–	–	–	–	–	–	
	At DC-23A DC-23B at 220 V	A	32	63	80	125	160	250	400	630	800	
	At DC-23A DC-23B at 400 V	A	–	–	–	–	–	–	–	–	–	
	At DC-23A DC-23B at 440 V	A	32	63	80	125	160	250	400	630	800	
	Motor switching capacity ²⁾	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 ³⁾	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. ³⁾	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. ³⁾	At 400/500 V AC	kA ² s	34	34	34	223	223	1500	2150	10400	10400	
	At 690 V AC	kA ² 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										
Maximum IP degree of protection		–										

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

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

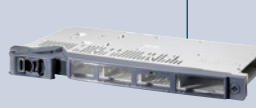
³⁾ Valid for combination of 3KF and fuse type 3NA/3ND, characteristic gG/aM



3KF SITOR



3NJ63



5SG7



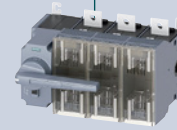
3KF SITOR									3NJ63				5SG7							
1	1	1	2	2	3	4	5	5	00	00	00	00	1	2	3	3	5SG71.	5SG7230	5SG7234.	
32	63	80	125	160	250	400	630	800	-	-	-	-	-	-	-	-	63	63	63	
000 and 00					0 and 1	1 and 2	2 and 3		000 and 00				1	1 and 2	2 and 3	D02	D02	D02		
690					500 ... 690				690		230 ... 690		400, 415	400	400					
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	-	-	-	
32	63	80	125	160	250	400	630	800	-	-	125	-	250	400	500	-	- 35	-	- 63	
32	63	80	125	160	250	400	630	800	-	-	-	-	-	-	-	-	-	63 -	-	
-	-	-	-	-	-	-	-	-	-	-	-	160	-	-	-	630	-	-	-	
32	63	80	125	160	250	400	630	800	63	100	125	-	250	400	500	-	-	- 63	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	
32	63	80	125	160	250	400	630	800	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	63	80	125	160	250	400	630	800	-	-	-	-	250	400	-	630	-	- 63	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 63	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 63	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 63	-	-	
32	63	80	125	160	250	400	630	800	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 _{rms}	-	-	-	
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_e acc. to UL 508		–	–	–	–	–	–	–	–	–
Operating and short-circuit behavior										
Operational power, 3-phase	At 240 V	kA	–	–	–	–	–	–	–	–
	At 480 V	kA	–	–	–	–	–	–	–	–
	At 600 V	kA	–	–	–	–	–	–	–	–
Short circuit current rating (SCCR)		–	–	–	–	–	–	–	–	–
Fuse type		–	–	–	–	–	–	–	–	–

Further information

Technical specifications

[See page 8/128](#)

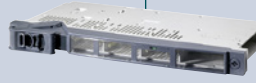
Configuration in SIMARIS



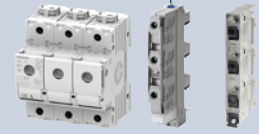
3KF SITOR



3NJ63



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	-	-	-	-	-	-	-	-	-	-	-	
See page 8/120									See page 8/136									See page 8/144		
Configuration in SIMARIS									Configuration in SIMARIS									Configuration in SIMARIS		

3KF switch disconnectors with fuses

System overview

Complete units 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

8

Additional poles



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



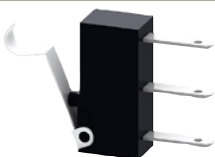
Handles for door-coupling rotary operating mechanisms



Further accessories for door-coupling rotary operating mechanisms



Further 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.

General information



3NA COM LV HRC fuse links



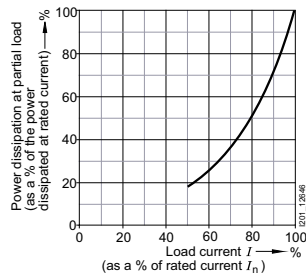
The new the 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See [Fuse Systems](#), page 7/30



Suitable fuses

You will find further information under:
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

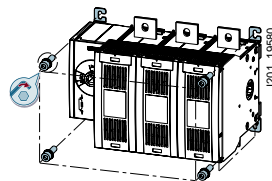


Types of mounting

You will find further information under:
sie.ag/2UlrAvy

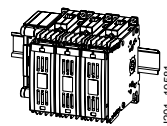


Floor mounting



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

DIN rail



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

3KF switch disconnectors with fuses

General information

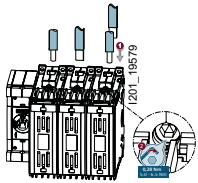


Electrical connection

You will find further information under:
sie.ag/2UlrAvy

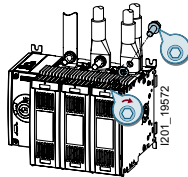


Box terminals



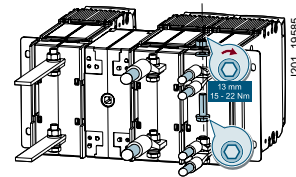
The box terminals for size 1 (32 A ... 80 A) are designed to allow the rapid connection of stripped conductors.

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.

8

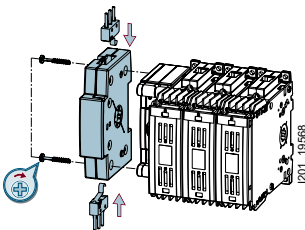


Auxiliary switch modules and auxiliary switches

You will find further information under:
sie.ag/2UlrAvy

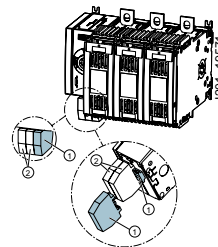


Size 1



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



- ① Auxiliary switch, leading
- ② Auxiliary switch, simultaneous

For sizes 2 ... 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switching 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 program can also be used.



Differentiation 3KF SITOR and derating tables for SITOR fuses

You will find further information under: sie.ag/2UlrAvy



Size 1



3KF SITOR is a variation of the proven switch disconnector 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

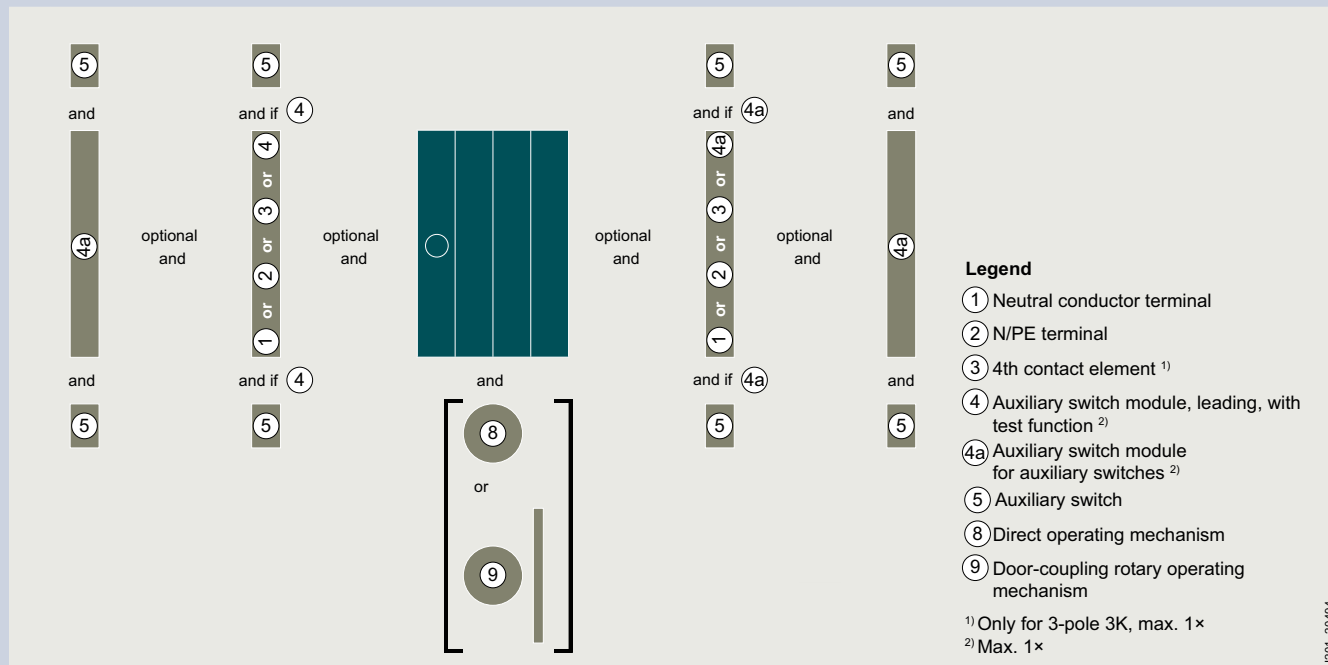
Type	Rated Current	Rated Voltage	Rated Power	Type	Permissible load currents of fuses when installed in										
					Type SFP 50					Type SFP SITOR					
					10 kV	12 kV	15 kV	17.5 kV	20 kV	25 kV	30 kV	35 kV	40 kV	50 kV	
3KF1000-1	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-2	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-3	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-4	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-5	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-6	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-7	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-8	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-9	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-10	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-11	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-12	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-13	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-14	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-15	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-16	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-17	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-18	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-19	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-20	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-21	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-22	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-23	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-24	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-25	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-26	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-27	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-28	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-29	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-30	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-31	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-32	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-33	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-34	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-35	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-36	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-37	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-38	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-39	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-40	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-41	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-42	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-43	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-44	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-45	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-46	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-47	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-48	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-49	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100
3KF1000-50	100	690V	30	100	100	100	100	100	100	100	100	100	100	100	100

Siemens provides you with pretested load currents of the SITOR semiconductor fuses for installation in the 3KF SITOR. 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 SITOR.

3KF switch disconnectors with fuses

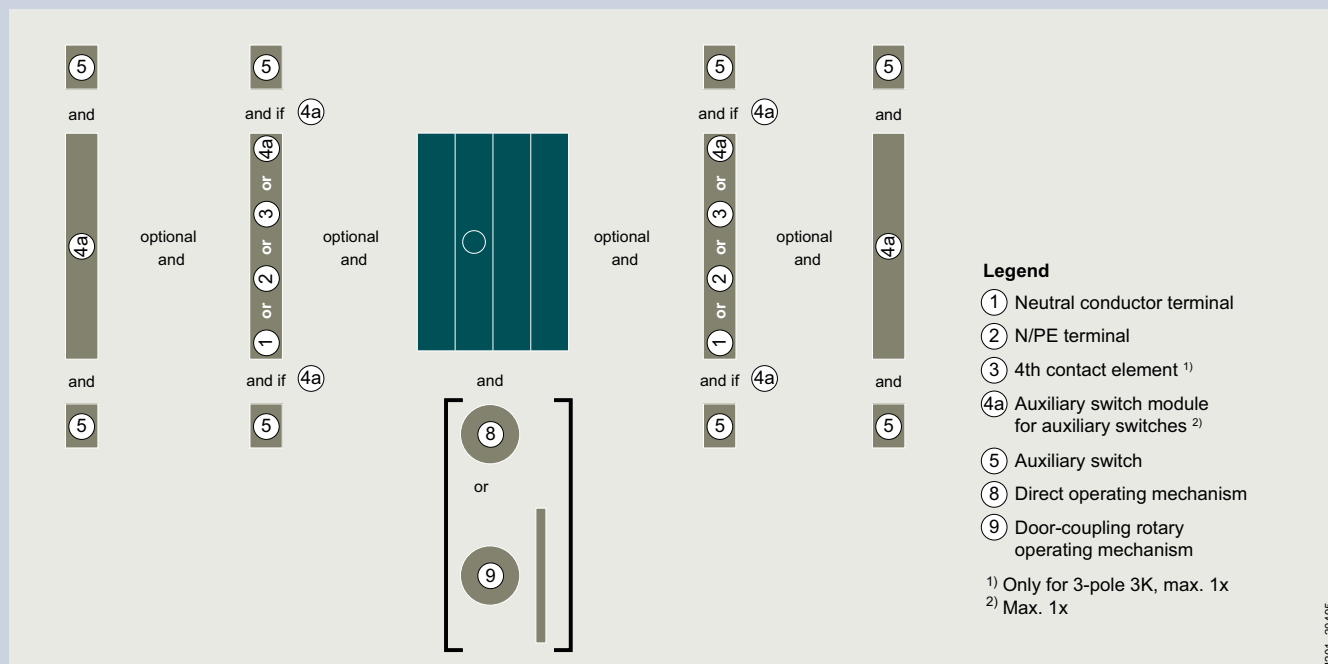
Mounting concept and accessories 3KF

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

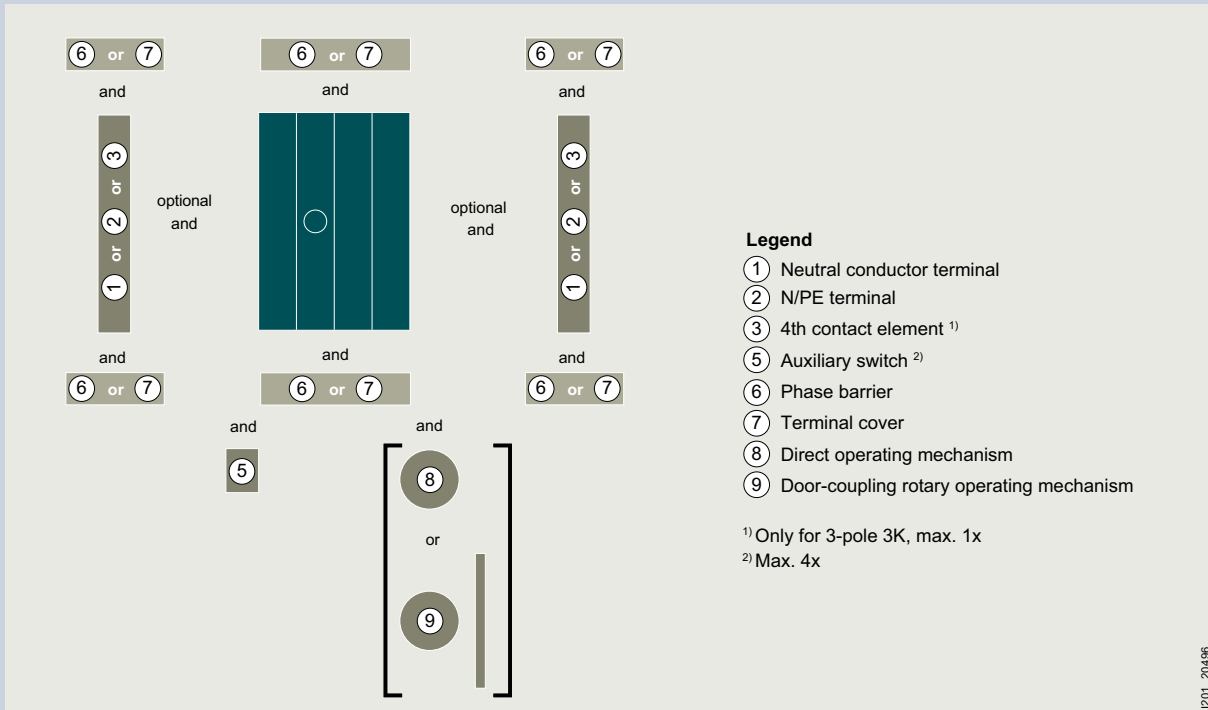


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Front operating mechanism center, size 1, 3/4-pole



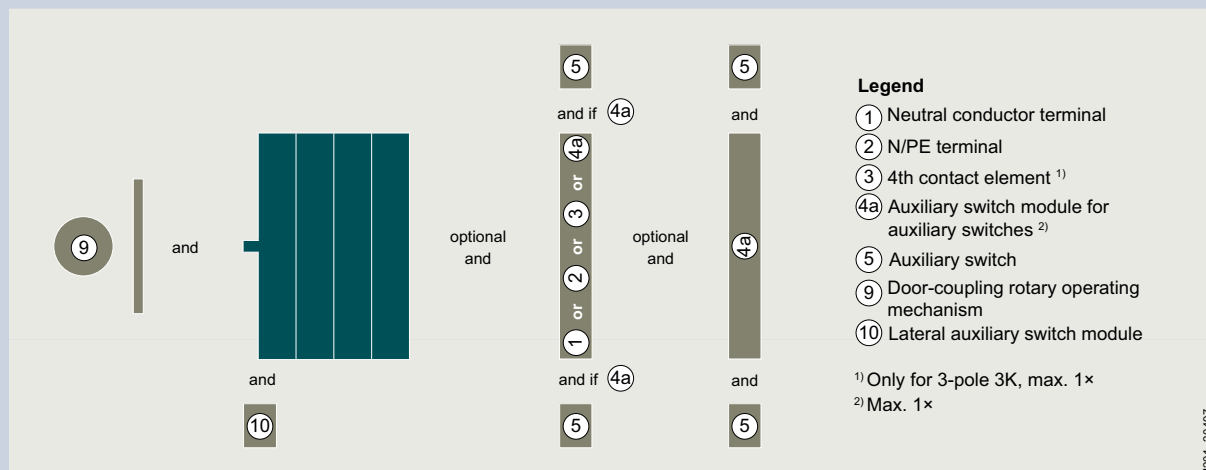
Front operating mechanism center or left, sizes 2 to 5, 3/4-pole



3KF switch disconnectors with fuses

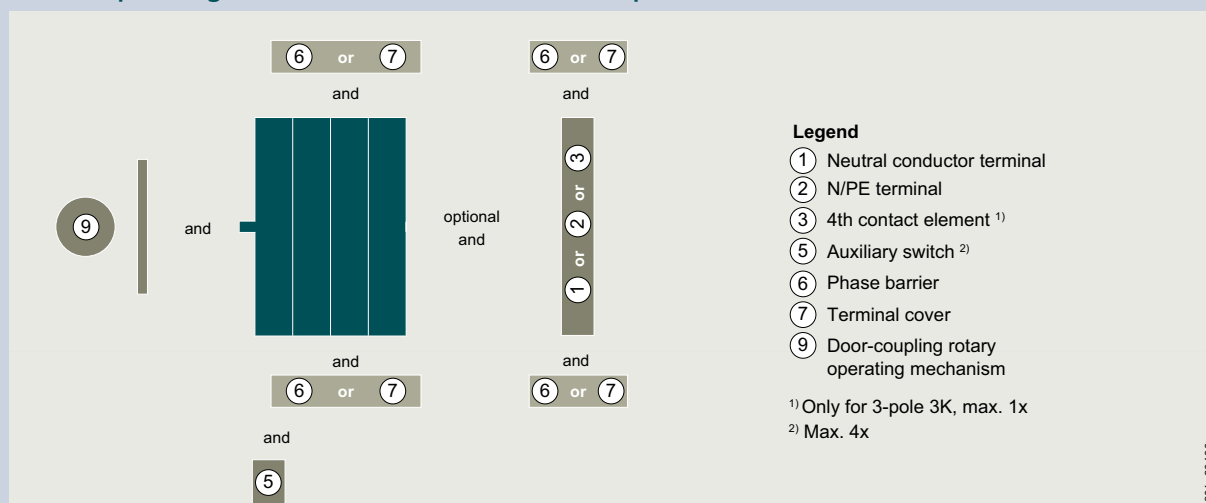
Mounting concept and accessories 3KF

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

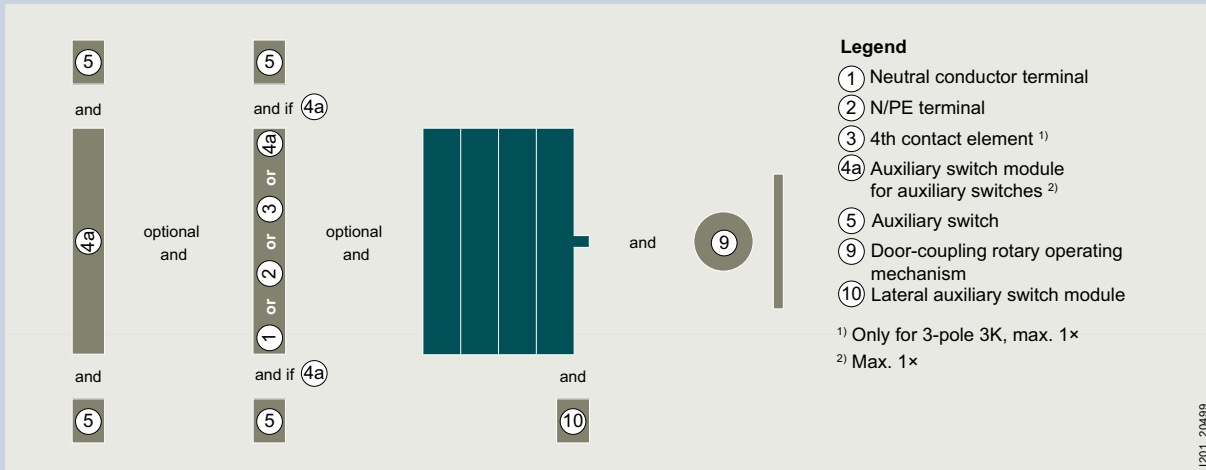


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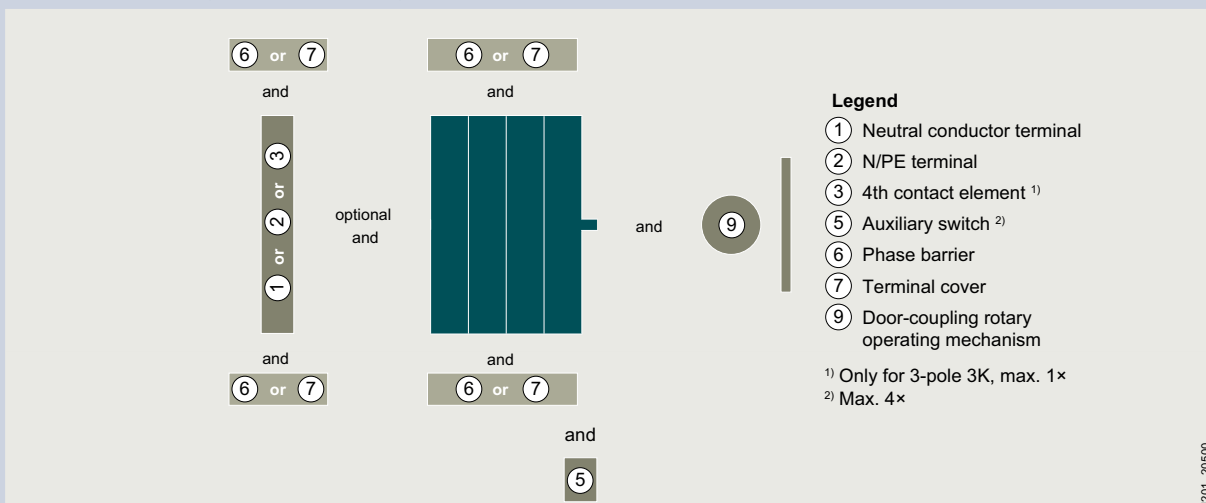
Lateral operating mechanism left, sizes 2 to 5, 3/4-pole



Lateral operating mechanism right, size 1, 3/4-pole



Lateral operating mechanism right, sizes 2 to 5, 3/4-pole



3KF switch disconnectors with fuses

3KF LV HRC switch disconnectors



Complete units with direct operating mechanisms
Front operating mechanisms,
left

Basic units without handle
Front operating mechanisms,
left

Front operating mechanism,
center

Number of poles

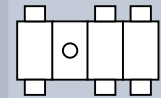
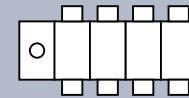
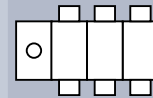
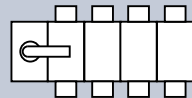
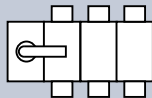
3P

4P

3P

4P

3P



Size	Uninterrupted current I_u					
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 units 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

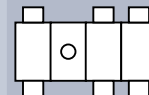
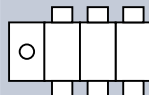
Front operating mechanism
Left

Front operating mechanism
Center

Number of poles

3P

3P



Size	Uninterrupted current I_u	
Box terminals		
1	32 A	3KF1303-0LB51
	63 A	3KF1306-0LB51
	80 A	3KF1308-0LB51
Flat terminals		
2	125 A	–
	160 A	–
3	250 A	–
4	400 A	–
5	630 A	–
	800 A	–

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

Operating mechanisms

				Size 1	Size 2	Size 3	Size 4	Size 5	
Direct operating mechanisms, for 3KF LV HRC									
	Version	Color	Article No.						
	Can be locked with up to 3 padlocks	Gray	3KF9101-1AA00	■					
			3KF9201-1AA00		■				
			3KF9301-1AA00			■			
			3KF9401-1AA00				■		
			3KF9501-1AA00					■	
			3KF9101-2AA00	■					
	Red/yellow	Red/yellow	3KF9201-2AA00			■			
			3KF9301-2AA00				■		
			3KF9401-2AA00					■	
			3KF9501-2AA00						■

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 max. 3 padlocks

Inscription	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
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					■


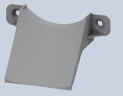


Handles, for 3KF LV HRC and 3KF SITOR

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



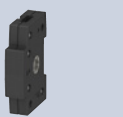

Inscription	Lighting	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5	
O – I	Without	Gray	8UD1771-2AD01	■					
			8UD1841-2AD01		■	■			
			8UD1851-3AD01				■		
			8UD1861-4AD01					■	
		Red/yellow	8UD1771-2AD05	■					
			8UD1841-2AD05		■	■			
			8UD1851-3AD05				■		
			8UD1861-4AD05					■	
	With	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	
Extension shaft, for 3KF LV HRC and 3KF SITOR							
	<ul style="list-style-type: none"> A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1 and 2 						
	Length	Article No.					
	300 mm	8UC6032	■	■			
		8UC6033			■	■	
		8UC6034					■
	600 mm	8UC6082	■	■			
		8UC6083			■	■	
	8UC6084					■	
Shaft jack for 8UD1 handle, for 3KF LV HRC and 3KF SITOR							
	Version	Article No.					
	For shaft 600 mm	8UD1900-0FA00	■	■			
Coupling drivers, for 3KF LV HRC and 3KF SITOR							
	Version	Article No.					
	With tolerance compensation	8UD1900-2GA00	■				
		8UD1900-6GA00		■			
		8UD1900-3GA00			■	■	
		8UD1900-4GA00					■
	Without tolerance compensation	8UD1900-2HA00	■				
		8UD1900-6HA00		■			
		8UD1900-3HA00			■	■	
8UD1900-4HA00						■	
Adapters for shafts, for 3KF LV HRC and 3KF SITOR							
	Shaft size	Article No.					
	8 × 8 mm	8UC6022	■	■			
	10 × 10 mm	8UC6023			■	■	
	12 × 12 mm	8UC6024				■	

8

Further accessories and spare parts

		Size 1	Size 2	Size 3	Size 4	Size 5	
Auxiliary switch modules, for 3KF LV HRC and 3KF SITOR							
	<ul style="list-style-type: none"> Auxiliary switch modules are supplied without auxiliary switches The 3KF9112-0AB00 mounting bracket is additionally required for mounting the auxiliary switch modules with the rear terminal 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 						
	Type	Article No.					
	Standard version	3KD9103-5	■				
	With test function	3KD9103-6	■				
	With leading NO and test function	3KD9103-7	■				
Mounting brackets for auxiliary switch modules, for 3KF size 1 with rear terminals							
	<ul style="list-style-type: none"> For mounting auxiliary switch modules on 3KF switch disconnectors with rear terminal 						
		Article No.					
	3KF9112-0AB00	■					

3KF switch disconnectors with fuses

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

Further accessories and spare parts

Size 1 Size 2 Size 3 Size 4 Size 5

Auxiliary switches, for 3KF LV HRC and 3KF SITOR

- Auxiliary switches for sizes 2 to 5 have a screw terminal and are mounted on the 3KF operating mechanism module. Auxiliary switches with spring-type terminals from the 3SU1 program can also be used.
- 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).



Type	Contacts	Contact surface	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
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 SITOR



Version	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For remote display of tripped fuses	3KF9010-1AA00	■	■	■	■	■

Phase barriers, for 3KF LV HRC and 3KF SITOR



Version	Scope of supply	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
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	Type	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For 3-pole devices	6 units	Standard version	3KF9204-6		■			
			3KF9304-6			■		
			3KF9404-6				■	
		Short version	3KD9504-6					■
			3KF9204-7		■			
			3KF9304-7			■		
For 4-pole devices	8 units	Standard version	3KF9204-8		■			
			3KF9304-8			■		
			3KF9404-8				■	
		Short version	3KD9504-8					■
			3KF9204-5		■			
			3KF9304-5			■		
3KF9404-5					■			

Spare part for terminal covers (4th contact element), for 3KF LV HRC



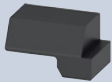






Scope of supply	Type	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
1 unit	Standard version	3KD9504-1					■
		3KF9204-1		■			
	Short version	3KF9304-1			■		
		3KF9404-1				■	
6 units	Standard version	3KF9204-6		■			
		3KF9304-6			■		
	Short version	3KF9404-6				■	
		3KF9404-6					■

Spare part for terminal covers (N and N/PE terminal), for 3KF LV HRC



Scope of supply	Type	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
1 unit	Standard version	3KD9504-1					■
		3KD9304-1		■			
	Short version	3KD9404-1			■	■	
		3KD9304-6		■			
6 units	Standard version	3KD9404-6			■	■	
		3KD9404-6				■	■

Further accessories and spare parts

				Size 1	Size 2	Size 3	Size 4	Size 5
Blocking pin test function, for 3KF LV HRC and 3KF SITOR								
	<ul style="list-style-type: none"> Enables permanent deactivation of the test function for auxiliary switches It is installed in the operating mechanism module of the 3KF switch disconnector 		Article No.					
	Scope of supply		10 units	3KF9112-1AA00	■			
				3KF9412-1AA00		■		■
				3KF9512-1AA00				■
Mounting brackets, for 3KF LV HRC								
	<ul style="list-style-type: none"> The 3KF9112-0AB00 mounting bracket is needed if an auxiliary switch module is mounted on a 3KF1 with rear terminals 		Article No.					
	Connection		Box terminals, flat terminals	3KF9112-0AA00	■			
				3KF9212-0AA00		■		
			Flat terminals at rear	3KF9212-0AB00	■	■		
Mounting brackets, for 3KF SITOR								
	Connection		Article No.					
			Box terminals, flat terminals	3KF9112-0AA10	■			
				3KF9212-0AA10		■		
Mounting brackets, for 3KF LV HRC and 3KF SITOR								
	Connection		Article No.					
			Flat terminals	3KF9412-0AA00			■	■
				3KF9512-0AA00				■
Slides, for 3KF LV HRC and 3KF SITOR								
	Version	Scope of supply	Article No.					
	For mounting on DIN rail	5 units	3KF9112-0BA00	■				
Fuse covers, for 3KF LV HRC								
	Connection		Article No.					
			Box terminals, flat terminals	3KF9112-0CA00	■			
				3KF9212-0CA00		■		
				3KF9312-0CA00			■	
				3KF9412-0CA00				■
			3KF9512-0CA00					■
		Flat terminals at rear	3KF9212-0CB00		■			
				NH 000	NH 00	NH 1	NH 2	NH 3
LV HRC isolating blades, for 3KF LV HRC and 3KF SITOR								
	Version		Article No.					
			With insulated grip lugs	3NG1002	■	■		
				3NG1202			■	
				3NG1302				■
				3NG1402				

3NJ63 switch disconnectors with fuses

System overview

Fuse links



For LV HRC 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



3NA COM LV HRC fuse links



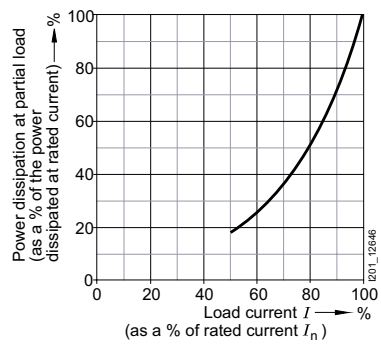
The new the 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See Fuse Systems, page 7/50



Suitable fuses

You will find further information under:
sie.ag/2UlrAvy



The 3NJ63 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.

3NJ63 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/3nj63-configurator

		6	7	8	9	10	11	12	13	14	15	16
3NJ63												
Size and type of fuse	LV HRC fuse	00	160 A	0								
		1	250 A	1								
		2	400 A	2								
		3	630 A	3								
Number of poles	2-pole		2									
	3-pole		3									
	4-pole ¹⁾		4									
Breaking capacity	AC-22B ¹⁾	Manually operated		1								
		Motorized operating mechanism		2								
	AC-23A, DC-23B	Manually operated		3								
		Motorized operating mechanism		4								
Electronic fuse monitoring	Without					A						
	≤ 690 V AC	Operate voltage < 20 V	EFM10			B						
	≤ 690 V AC with line monitoring	Operate voltage < 13 V	EFM20			C						
	≤ 440 V DC	Operate voltage < 20 V	EFM25			E						
Auxiliary switches	Without							0				
	1 NC							1				
	1 NO							2				
	1 NO + 1 NC							3				

¹⁾ 4-pole only in AC-22B

		6	7	8	9	10	11	12	13	14	15	16	
				-									
		3NJ63											
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	

3NJ63 switch disconnectors with fuses

Accessories

				NH00	NH1	NH2	NH3
Terminals							
	Type	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							
	Type	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							
	Type	Version	Article No.				
	EFM 10	With line monitoring for AC networks	3NJ6920-3FB00		■		
			3NJ6930-3FB00			■	
			3NJ6940-3FB00				■
	EFM 20	With line monitoring for AC networks	3NJ6920-3FC00		■		
			3NJ6930-3FC00			■	
			3NJ6940-3FC00				■
	EFM 25	With line monitoring for AC networks	3NJ6920-3FE00		■		
			3NJ6930-3FE00			■	
			3NJ6940-3FE00				■
Auxiliary switches							
	Contacts	Version	Article No.				
	1 NO	With cover	3NJ6920-2BB00		■		
			3NJ6930-2BB00			■	
			3NJ6940-2BB00				■
		Without cover	3NJ6900-2BC00		■	■	■
	1 NC	With cover	3NJ6920-2CB00		■		
			3NJ6930-2CB00			■	
			3NJ6940-2CB00				■
		Without cover	3NJ6900-2CC00		■	■	■

NH00 NH1 NH2 NH3

Current transformers for main devices and contact extensions




Rated current I_{pr}	Class	Apparent power consumption	Feed-through opening diameter	Article No.	NH00	NH1	NH2	NH3
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	■			
		2.5 VA	Ø 15.2 mm	3NJ6930-3BE13		■		
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	■			
		2.5 VA	Ø 15.2 mm	3NJ6930-3BE23		■		
200 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF11		■		
	0.5	3.75 VA	Ø 21 mm	3NJ6930-3BF12		■		
	0.5 calibrated	2.5 VA	Ø 14 mm	3NJ6930-3BF13		■		
200 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF21		■		
	0.5	5 VA	Ø 21 mm	3NJ6930-3BF22		■		
	0.5 calibrated	2.5 VA	Ø 14 mm	3NJ6930-3BF23		■		
250 A/1 A	1	5 VA	Ø 21 mm	3NJ6930-3BG11		■		
	0.5	5 VA	Ø 21 mm	3NJ6930-3BG12		■		
	0.5 calibrated	2.5 VA	Ø 14 mm	3NJ6930-3BG13		■		
250 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BG21		■		
	0.5	2.5 VA	Ø 21 mm	3NJ6930-3BG22		■		
	0.5 calibrated	2.5 VA	Ø 14 mm	3NJ6930-3BG23		■		
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			■	■

3NJ63 switch disconnectors with fuses

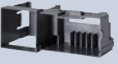
Accessories

NH00 NH1 NH2 NH3



Current transformer busbars



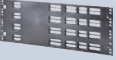




Type	Version	Article No.	NH00	NH1	NH2	NH3
 For current transformers with feed-through opening diameter 21 mm	For 1 current transformer	3NJ6920-3DB00	■			
		3NJ6930-3DB00		■		
	For 3 current transformers	3NJ6920-3DC00	■			
		3NJ6930-3DC00		■		
	For 4 current transformers	3NJ6920-3DD00	■			
		3NJ6930-3DD00			■	
For current transformers with feed-through opening diameter 14 mm	For 1 current transformer	3NJ6920-3DE00	■			
		3NJ6930-3DE00		■		
	For 3 current transformers	3NJ6920-3DF00	■			
		3NJ6930-3DF00			■	
	For 4 current transformers	3NJ6920-3DG00	■			

Holders

Version	Article No.	NH00	NH1	NH2	NH3
 For ammeters	3NJ6900-4GA00	■	■		■

Amperemeter

Type	Version	Rated current I_c	Article No.	NH00	NH1	NH2	NH3
 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				■
		600 A/1 A	3NJ6900-4HL11				■
	For measurements on transformer x/5 A with double overload	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				■
		500 A/5 A	3NJ6900-4HK21				■
		600 A/5 A	3NJ6900-4HL21				■
 Bi-metal measuring instruments	For measurements on transformer x/1 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				■
		500 A/1 A	3NJ6900-4HK12				■
		600 A/1 A	3NJ6900-4HL12				■
	For measurements on transformer x/5 A with 1.2-times overload	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				■

				NH00	NH1	NH2	NH3
Multi-function plugs							
	Version	Dimensions	Article No.				
	With fixing screws	6 × 2.5 mm ²	3NJ6920-3EB01	■	■		
		8 × 2.5 mm ²	3NJ6920-3ED01	■	■		
			3NJ6940-3EC00			■	■
	Without fixing screws	8 × 2.5 mm ²	3NJ6940-3ED00			■	■
		10 × 1.5 mm ² and 8 × 2.5 mm ²	3NJ6920-3EE01	■	■		
		12 × 1.5 mm ² and 8 × 2.5 mm ²	3NJ6940-3EF00			■	■
Front panels							
	Use	Version	Article No.				
	3NJ6303-.....	With LV HRC fuse	3NJ6923-4BB00	■			
	3NJ6313-.....	With LV HRC fuse	3NJ6933-4BB00		■		
	3NJ6323-.....	With LV HRC fuse	3NJ6943-4BB00			■	■
	3NJ6333-.....	With LV HRC fuse	3NJ6953-4BB00			■	■
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		8PQ9400-1AA50	■			
	For NH1, NH2, NH3		8PQ9400-1AA51		■	■	■
Locking devices for padlocks							
			Article No.				
			3NJ6900-4LL	■	■	■	■

5SG switch disconnectors with fuses

System overview

MINIZED switch disconnectors with fuses



1P



3P

NEOZED 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	
Fuse size	Rated current I_n	Mounting width	Mounting width	Mounting width	Mounting width	Mounting width	Mounting width
		1.5 MW	3 MW	3 MW	1.5 MW	4.5 MW	6 MW
MINIZED switch disconnectors with fuses ^{1) 3)}							
D02	63 A	5SG7113	5SG7153	5SG7123	–	5SG7133	5SG7163
MINIZED switch disconnectors with fuses – version for Austria only ^{2) 3)}							
D02	25 A	–	–	–	–	5SG7133-8BA25	–
	35 A	–	–	–	–	5SG7133-8BA35	–
	50 A	–	–	–	–	5SG7133-8BA50	–
NEOZED bus-mounting switch disconnectors							
D02	63 A	–	–	–	5SG7230 ⁴⁾	–	–
NEOZED bus-mounting switch disconnectors, without LED signal detector							
D02	63 A	–	–	–	5SG7234-1 ⁵⁾	–	–
NEOZED bus-mounting switch disconnectors, with LED signal detector							
D02	63 A	–	–	–	5SG7234-2 ⁵⁾	–	–

¹⁾ Using withdrawable design with touch protection according to BGV A3, adapter sleeves not included in the scope of delivery

²⁾ With permanently fitted adapter sleeves, incl. fuse link

³⁾ Do not use fuse links with nickel-plated contact caps

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


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

Note:


NEOZED adapter sleeves are required for these devices

Accessories


Auxiliary switches

Version	Type	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 bus-mounting switch disconnectors	Standard	0.5 MW	1 CO	5SH5525

Lateral modules

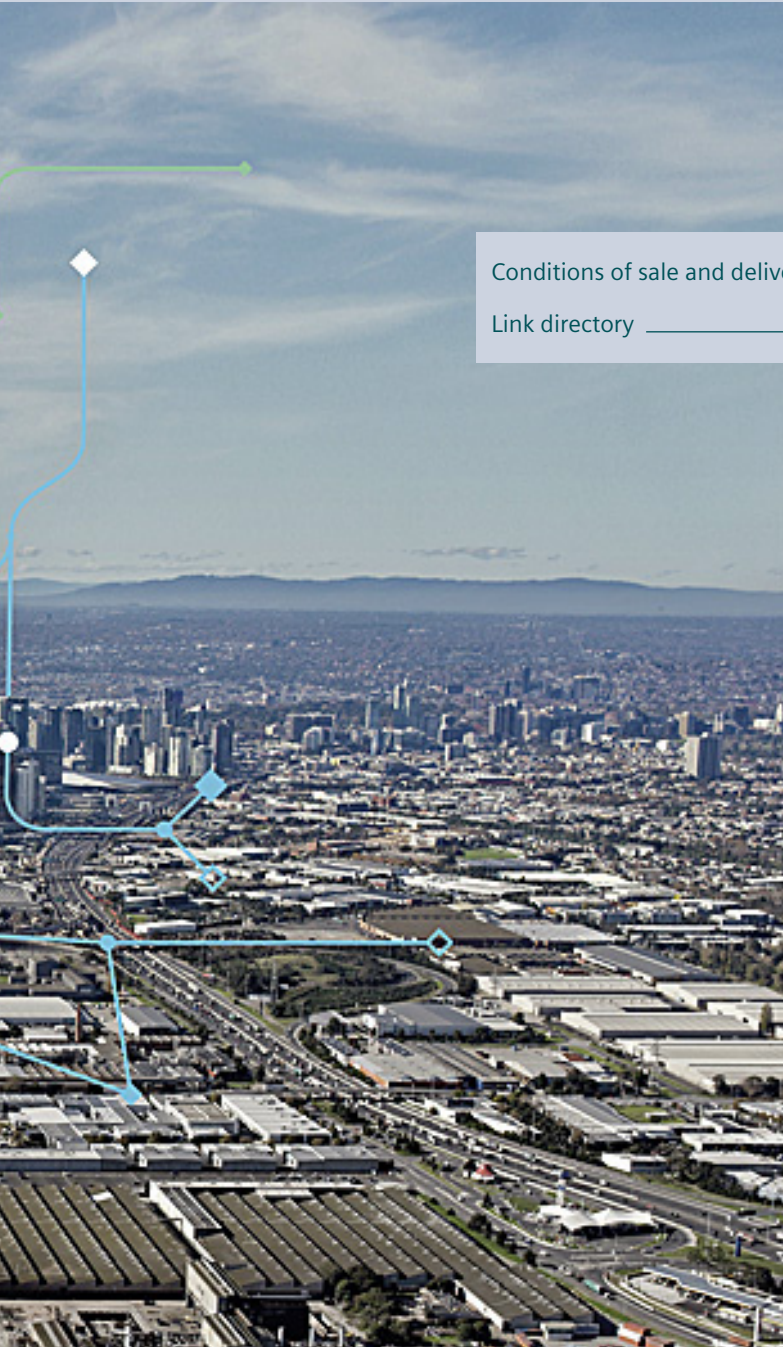
Version	Type	Mounting width	Article No.
 For NEOZED bus-mounting switch disconnectors	5SG7230	0.5 MW	5SH5526
	5SG7234-1 and -2	0.5 MW	5SH5533

Reducers

Version	Article No.
 For D01 fuse links	5SH5527



Appendix



Conditions of sale and delivery _____ A/2

Link directory _____ A/4

Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase hard- and software products as well as services (together hereinafter referred to as "products") described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Note, for products purchased from any Siemens entity having a registered office outside of Germany, the respective terms and conditions of sale and delivery of the respective Siemens entity apply exclusively. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)"¹⁾ and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"¹⁾ (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"¹⁾ and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.

In case such products should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾, the Product will be given a note as to which special conditions apply to this open source software. This shall apply mutatis mutandis for notices referring to other third-party software components.

1.2 For customers with a seat or registered office outside European Union

For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services for Infrastructure & Industry Business (Swiss Law)"¹⁾ and/or
- for other services the "International Terms & Conditions for Services"¹⁾ supplemented by "Software Licensing Conditions"¹⁾ and/or
- for other products the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

1.3 For customers with master or framework agreement

To the extent products offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

3. Export Control and Sanctions Compliance

3.1 General

Customer shall comply with all applicable sanctions, embargoes and (re-)export control laws and regulations, and, in any event, with those of the European Union, the United States of America and any locally applicable jurisdiction (collectively "Export Regulations").

3.2 Checks for Products

Prior to any transaction by customer concerning products (including hardware, documentation and technology) delivered by Siemens, or products (including maintenance and technical support) performed by Siemens with a third party, customer shall check and certify by appropriate measures that

- (i) the customer's use, transfer, or distribution of such products, the brokering of contracts or the provision of other economic resources in connection with products will not be in violation of any Export Regulations, also taking into account any prohibitions to circumvent these (e.g., by undue diversion)
- (ii) the products are not intended or provided for prohibited or unauthorized non-civilian purposes (e.g. armaments, nuclear technology, weapons, or any other usage in the field of defense and military);
- (iii) customer has screened all direct and indirect parties involved in the receipt, use, transfer, or distribution of the products against all applicable restricted party lists of the Export Regulations concerning trading with entities, persons and organizations listed therein and
- (iv) products within the scope of items-related restrictions, as specified in the respective annexes to the Export Regulations, will not, unless permitted by the Export Regulations, be (a) exported, directly or indirectly (e.g., via Eurasian Economic Union (EAEU) countries), to Russia or Belarus, or (b) resold to any third party business partner that does not take a prior commitment not to export such products to Russia or Belarus.

3.3 Non-Acceptable Use of Software and Cloud Services

Customer shall not, unless permitted by the Export Regulations or respective governmental licenses or approvals,

- (i) download, install, access or use the products from or in any location prohibited by or subject to comprehensive sanctions or subject to license requirements according to the Export Regulations;
 - (ii) grant access to, transfer, (re-)export (including any "deemed (re-)exports"), or otherwise make available the products to any entity, person, or organization identified on a restricted party list of the Export Regulations;
 - (iii) use the products for any purpose prohibited by the Export Regulations (e.g. use in connection with armaments, nuclear technology or weapons);
 - (iv) upload to a products platform any customer content unless it is non-controlled (e.g. in the EU: AL = N; in the U.S.: ECCN = N or EAR99);
 - (v) facilitate any of the afore mentioned activities by any user.
- Customer shall provide all users with all information necessary to ensure compliance with the Export Regulations.

3.4 Semiconductor Development

Customer will not, without advance written authorization from Siemens, use offerings for the development or production of integrated circuits at any semiconductor fabrication facility located in China meeting the criteria specified in the U.S. Export Administration Regulations, 15 C.F.R. 744.23.

3.5 Information

Upon request by Siemens, customer shall promptly provide Siemens with all information pertaining to users, the intended use and the location of use or the final destination (in the case of hardware, documentation and technology) of the products. Customer will notify Siemens prior to customer disclosing any information to Siemens that is defense-related or requires controlled or special data handling pursuant to applicable government regulations, and will use the disclosure tools and methods specified by Siemens.

3.6 Reservation

Siemens shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions. Customer acknowledges that Siemens may be obliged under the Export Regulations to limit or suspend access by customer and/or users to products.

4. Miscellaneous

Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAX download manager	www.siemens.com/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Catalog LV 10	www.siemens.com/lv10
Catalog LV 13	www.siemens.com/lv13
Catalog LV 18	www.siemens.com/lv18
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
SiePortal (knowledge base)	www.siemens.com/lowvoltage/product-support
SiePortal (product catalog)	www.siemens.com/lowvoltage/product-catalog
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Direct forwarding to SiePortal	www.siemens.com/product_catalog_SIEP?Article No.
Training	www.siemens.com/sitrain-lowvoltage
Local contacts	www.siemens.com/lowvoltage/contact www.siemens.com/lowvoltage/components/contact www.siemens.com/lowvoltage/systems/contact www.siemens.com/lowvoltage/software/contact
Technical Support	www.siemens.com/support-request
Information on services	www.siemens.com/service-offers
Control panels for the North American market	www.siemens.com/northamerican-standards
Integrated Control Panels	www.siemens.com/controlpanel
Energy savings and amortization	www.automation.siemens.com/sinasave
SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip
TIA Selection Tool	www.siemens.com/tst
Electrical Product Finder	www.siemens.com/electrical-product-finder
Sustainability	www.siemens.com/sustainability

Catalogs and further information



LV 10
Low-Voltage Power Distribution and Electrical Installation Technology
SENTRON • SIVACON • ALPHA
PDF (E86060-K8280-A101-B8-7600)



ET D1
Switches and Socket Outlets
DELTA
PDF (SIEP-C10409-00-7600)



LV 13
3WA Air Circuit Breakers
SENTRON
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Published by
Siemens AG

Smart Infrastructure
Electrical Products
Siemensstraße 10
93055 Regensburg, Germany

For the U.S. published by
Siemens Industry Inc.

100 Technology Drive
Alpharetta, GA 30005
United States

PDF (Catalog Extract
E86060-K8280-A101-B8-7600)
KG 1223 152 En
Produced in Germany
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