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Low-Voltage Power Distribution and Electrical Installation Technology

Switch Disconnectors

Catalog
Extract
LV 10

Edition
10/2021

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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.

Low-Voltage Power Distribution and Electrical Installation Technology

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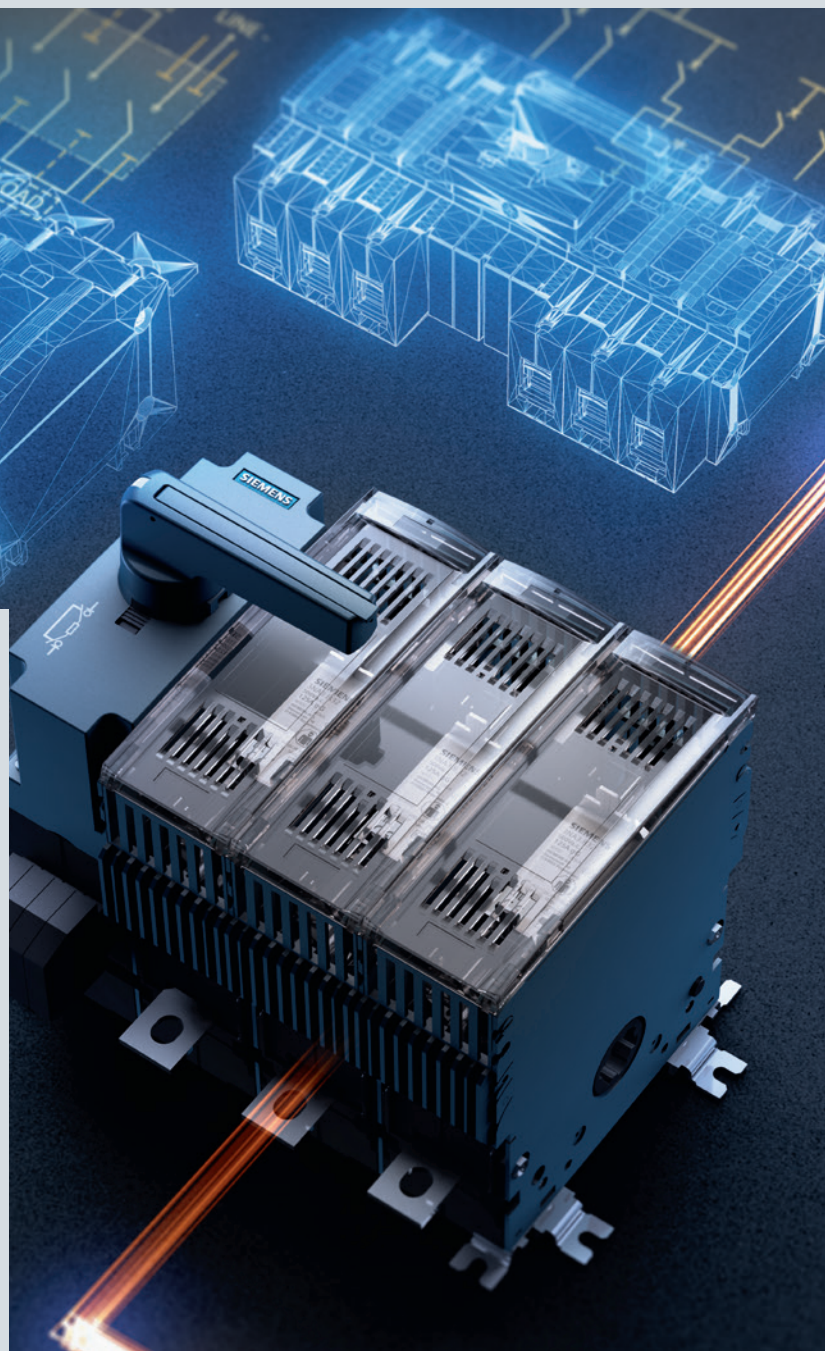
End-to-end safety for user and systems

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

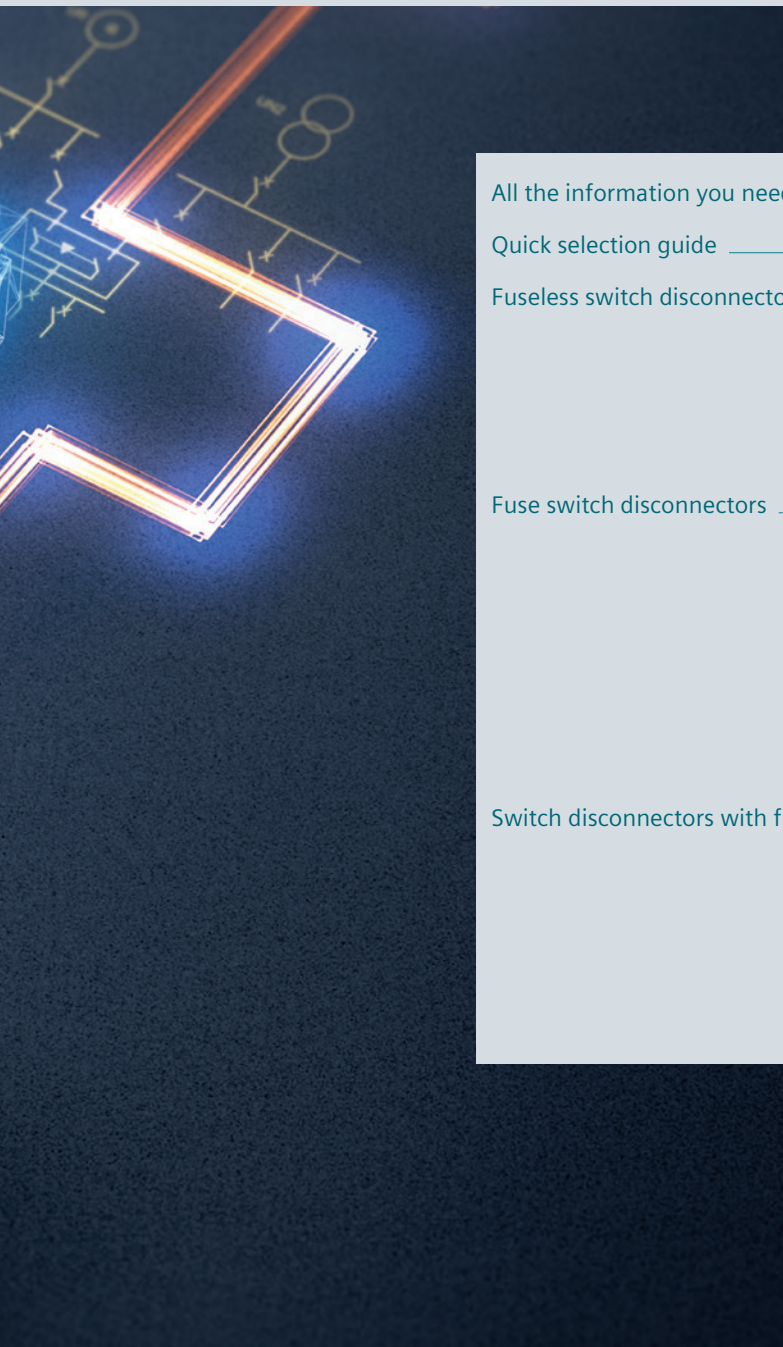
To ensure this, it is necessary to be able to disconnect the installation safely from the power supply. Siemens switch disconnectors permit permanent switch-on and switch-off under a load and thus protect the user from electric shock. They also prevent unauthorized switching on of machines.

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

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



Switch Disconnectors



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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 Siemens Industry Online Support (SIOS) provides comprehensive information

www.siemens.com/lowvoltage/product-support

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

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and your 3NP1 fuse switch disconnector at
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Choose the right SITOR semiconductor fuse for your application

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- Switching devices sie.ag/2mryctm

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www.siemens.com/product?Article No.

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www.siemens.com/lowvoltage/catalogs

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

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Commissioning + operation

Your product in detail

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- Certificates

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- Siemens Industry Mall
www.siemens.com/lowvoltage/mall
- 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

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www.siemens.com/lowvoltage/manuals

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

Technical overview – Switch disconnectors



The fast way to get you to our online services

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

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

Quick selection guide

Load switching devices for all applications

Fuseless switch disconnectors³⁾



Functional switching¹⁾



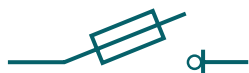
		Type	3LD3	3LD2	3LD5 UL	3KD	3VA
	Uninterrupted current I_u		16 ... 63 A	16 ... 250 A	30 ... 160 A	16 ... 2000 A	63 ... 630 A
	Short-circuit current max.		6 kA	50 kA	50 kA	100 kA	110 kA ⁵⁾
Selection acc. to utilization category	AC max.		AC-3	AC-3	AC-3	AC-23A	AC-23A
	DC max.		–	DC-22A	–	DC-23A	DC-23A (up to 250 A)
Suitable fuses			–	–	–	–	–
Types of mounting	Floor mounting		■	■	■	■	■
	Mounting on a standard mounting rail		■	■ (up to 125 A)	■ (up to 63 A)	■ (up to 250 A)	■ (up to 160 A)
	Front mounting		■	■	■	–	–
	Mounting on busbar systems (spacing of the busbars)		–	–	–	–	■
	Draw-out technology		–	–	–	–	■
Methods of operation	Manual from the front		■	■	■	■	■
	Manual from the side		–	–	–	■	■
	Remote-controllable		–	–	–	–	■
Number of poles	1-pole		–	–	–	–	–
	2-pole		–	–	–	–	–
	3-pole		■	■	■	■	■
	4-pole		■	■	■	■	■
	6-pole		–	■	–	■	–
Switching function	All poles		■	■	■	■	■
	Individual poles switchable		–	–	–	–	–
More information					from page 8/6		from page 2/1

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⁾



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	-
-	-	-	-
■	■	■	■
-	-	-	-
-	-	-	-
■	-	-	■
■	-	-	■
■	■	■	■
■	-	-	■
-	-	-	-
■	■	■	■
-	-	■	-

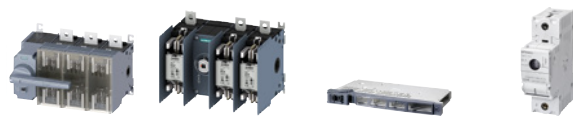
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Switch disconnectors with fuse ⁴⁾



Functional switching ¹⁾

Occasional switching ²⁾



3KF NH	3KF SITOR	3NJ62	5SG71/72
32 ... 800 A	32 ... 800 A	63 ... 630 A	63 A
100 kA	100 kA	100 kA	50 kA

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

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

■	■	-	-
■	■	-	-
-	-	-	-
-	-	185 mm	60 mm
-	-	■	-
■	■	■	■
■	■	-	-
-	-	■	-
-	-	-	■
■	■	■	■
■	■	■	■
-	-	-	-
■	■	■	■
-	-	-	-

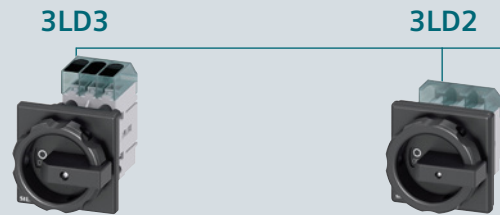
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⁴⁾ The suitable fuses protect persons, motors, installations and generators against short circuit and overload

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			
	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	6	6	6	6	6	50	50	50
	At 690 V AC	kA	6	6	6	6	6	50	50	50
Degree of protection										
Maximum achievable IP degree of protection (with a rotary operating mechanism)		IP65					IP65			
General technical specifications acc. to UL										
General technical specifications										
Certification according to UL standard		UL 508					UL 508			
I_n acc. to UL 508/UL60947-4-1 UL489	A	16 –	25 –	32 –	40 –	63 –	16 –	25 –	32 –	
U_e acc. to UL 508/UL60947-4-1 UL489	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			
More information										
		See page 8/12					See page 8/22			

3LD2

3LD5 UL **new**

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					UL60947-4-1/UL489		
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 8/22					See page 8/54		

Fuseless switch disconnectors

Quick selection guide for AC and AC/DC applications



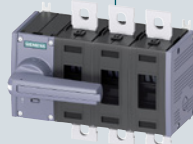
3KD



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
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
	At AC-21A AC-21B at 690 V	A	16	32	–	63	80	100	125	16	32	63
	At AC-22A AC-22B at 400 V	A	16	32	63	63	80	100	125	16	32	63
	At AC-22A AC-22B at 690 V	A	16	32	–	63	80	100	125	16	32	63
	At AC-22A AC-22B at 1000 V	A	–	–	–	–	–	–	–	16	32	63
	At AC-23A AC-23B at 400 V	A	16	32	63	63	75	80	90	16	32	63
	At AC-23A AC-23B at 690 V	A	14	17	–	22	30	35	39	16	32	63
	At DC-20A DC-20B at 1000 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-21A DC-21B at 110 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-21A DC-21B at 220 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-21A DC-21B at 440 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-22A DC-22B at 220 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-22A DC-22B at 440 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-23A DC-23B at 220 V	A	–	–	–	–	–	–	–	16	32	63
	At DC-23A DC-23B at 440 V	A	–	–	–	–	–	–	–	16	32	63
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
	At AC-3 at 400 V	kW	–	–	–	–	–	–	–	–	–	–
	At AC-3 at 690 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
	At 1000 V AC (t=1 s)	kA	–	–	–	–	–	–	–	3	3	3
Rated conditional short-circuit current with upstream fuse	At 400/415 V AC	kA	50	50	50	50	50	50	100	100	100	100
	At 690 V AC	kA	50	50	–	50	50	50	20	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/UL60947-4-1 UL489	A	–										
U_e acc. to UL 508/UL60947-4-1 UL489	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			–									
More information												
		See page 8/64										

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	160	200	200	250	315	400	400	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	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	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	1000	1250	1600	1600
80	80	100	125	160	160	200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
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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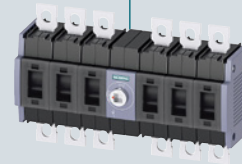
See page 8/64

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
	At DC - at degree of pollution 3	V	1000	1000	1000	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	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
Rated short-time withstand current I_{cw}	At DC 1200 V (t=1 s)	kA	3	3	3	4	4	4	4	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/UL60947-4-1 UL489	A	–								
U_e acc. to UL 508/UL60947-4-1 UL489	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		–								
More information										
		See page 8/64								

¹⁾ Valid for version with box terminal, version with flat terminal max. 1200 V

3KD



3KD 40	3KD 42	3KD 44	3KD 46	3KD 48	3KD 50	3KD 52	3KD 54
315	400	500	630	800	1000	1250	1600
1200	1200	1200	1200	1200	1200	1200	1200
1200	1200	1000	1000	1000	1200	1200	1200
-	-	-	-	-	-	-	-
315	400	500	630	800	800	1250	1600
10	10	20	20	20	20	20	20
IP20							
-							
-							
-							
-							
-							
-							
-							
-							
-							
-							
-							

See page 8/64

3LD switch disconnectors

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

Basic units for front mounting



3P rotary operating mechanisms



3P knob-operated mechanisms

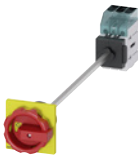


3P+N rotary operating mechanisms



3P+N knob-operated mechanisms

Basic units for floor mounting



3P rotary operating mechanisms



3P knob-operated mechanisms



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms

Basic units for installation in distribution boards



3P knob-operated mechanisms



3P basic switches without knob-operated mechanism



3P+N knob-operated mechanisms



3P+N basic switches without knob-operated mechanism

Additional poles and auxiliary switches



N switching contacts



N/PE terminals



Auxiliary switches

Operating mechanisms



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



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



Door-coupling rotary operating mechanisms



Door-coupling knob-operated mechanisms

Other accessories



Terminal covers, 1 and 3-pole



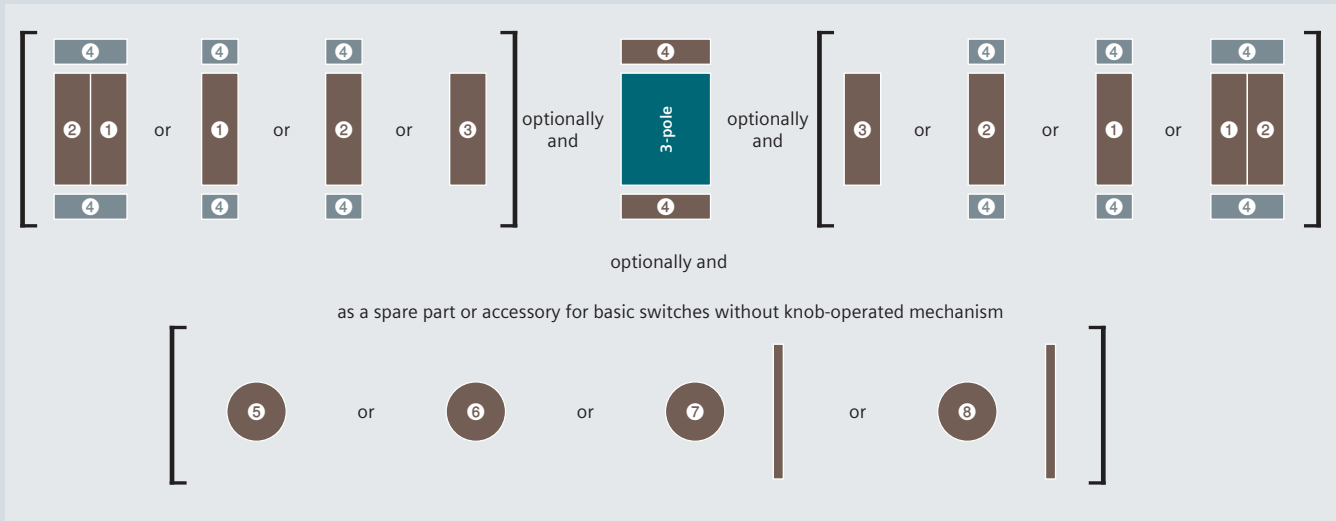
Inscription labels



Note:

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

Mounting concept and accessories



Legend

- 1 N switching contact ¹⁾
- 2 N/PE terminal
- 3 Auxiliary switch
- 4 Terminal cover
- 5 Rotary operating mechanism, center-hole mounting
- 6 Knob-operated mechanism, center-hole mounting
- 7 Door-coupling rotary operating mechanism, center-hole mounting
- 8 Door-coupling knob-operated mechanism, center-hole mounting

¹⁾ The N switching contact 1 first has to be mounted on the basic unit



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). The switches are mounted via the 22.5 mm diameter center hole.

Distribution board mounting



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

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



Floor mounting



The switches for floor mounting are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in 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.

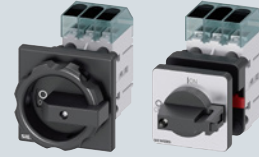
Basic switches without knob-operated mechanism



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

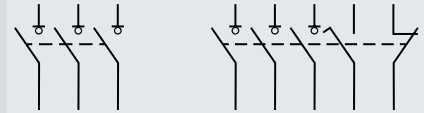
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, front mounting, 6 kA_{rms}



Operating mechanisms, black

Number of poles 3P



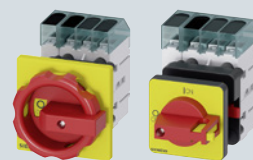
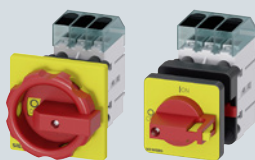
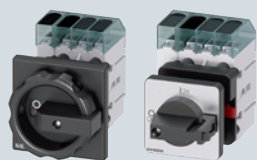
Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC
Rotary operating mechanisms				
16 A	7.5 kW	5.5 kW	3LD3054-0TK51	3LD3054-1TK51
25 A	9 kW	7.5 kW	3LD3154-0TK51	3LD3154-1TK51
32 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

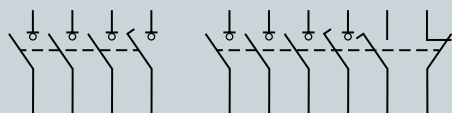
Accessories

				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional poles								
	Type	Contacts	Article No.					
	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0B	■	■	■	■	■
	N terminal	Through-type	3LD9340-2B	■	■	■	■	■
	PE terminal	Through-type	3LD9340-3B	■	■	■	■	■
Auxiliary switches								
		Contacts	Article No.					
		1 NO + 1 NC	3LD9340-6B	■	■	■	■	■
Rotary operating mechanisms								
		Color	Article No.					
		Black	3LD9344-4C	■	■	■	■	■
		Red/yellow	3LD9344-5C	■	■	■	■	■
Knob-operated mechanisms								
		Color	Article No.					
		Black	3LD9343-6C	■	■	■	■	■
		Red/yellow	3LD9343-7C	■	■	■	■	■



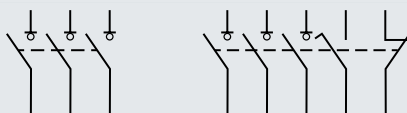
Operating mechanisms, red/yellow

3P+N

Without
auxiliary switch

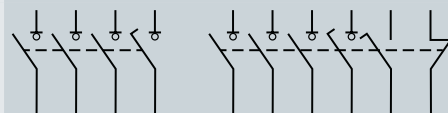
1 NO + 1 NC

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

8

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

- Pack of 4 units

Version

Article No.

For N switching contacts, N terminals or PE terminals

3LD9341-2A



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

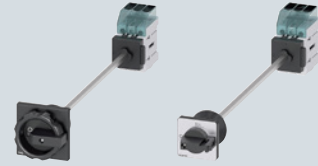
Without inscription

3LD9346-3A



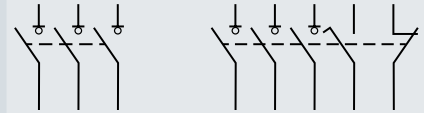
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, floor mounting, 6 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
Rotary operating mechanisms				
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
Knob-operated mechanisms				
16 A	7.5 kW	5.5 kW	3LD3040-OTK11	3LD3040-1TK11
25 A	9 kW	7.5 kW	3LD3140-OTK11	3LD3140-1TK11
32 A	11.5 kW	9.5 kW	3LD3240-OTK11	3LD3240-1TK11
40 A	18.5 kW	11.5 kW	3LD3340-OTK11	3LD3340-1TK11
63 A	22 kW	18.5 kW	3LD3440-OTK11	3LD3440-1TK11

Scope of supply:

- Including terminal covers for the infeed side

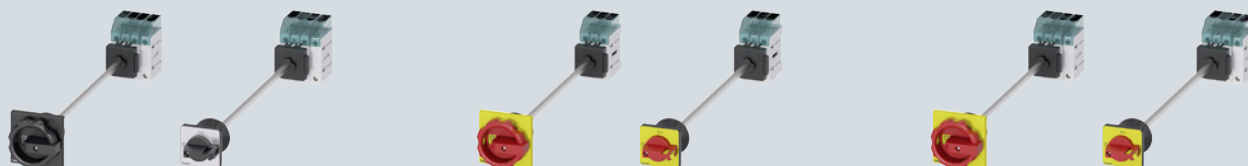
Mounting:

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

Accessories

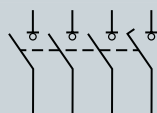
3LD30 (16 A) 3LD31 (25 A) 3LD32 (32 A) 3LD33 (40 A) 3LD34 (63 A)

Additional poles					3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
	Type	Contacts	Article No.						
	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	■	■	■	■	■	■
	N terminal	Through-type	3LD9340-2C	■	■	■	■	■	■
	PE terminal	Through-type	3LD9340-3C	■	■	■	■	■	■
Auxiliary switches									
		Contacts	Article No.						
		1 NO + 1 NC	3LD9340-6C	■	■	■	■	■	■
Rotary operating mechanisms									
	Version	Color	Article No.						
	Incl. funnel	Black	3LD9344-2C	■	■	■	■	■	■
		Red/yellow	3LD9344-3C	■	■	■	■	■	■
Knob-operated mechanisms									
	Version	Color	Article No.						
	Incl. funnel	Black	3LD9343-4C	■	■	■	■	■	■
		Red/yellow	3LD9343-5C	■	■	■	■	■	■
Switch shafts									
	Cross-section	Length	Article No.						
	6 × 6 mm	600 mm	3LD93451C	■	■	■	■	■	■

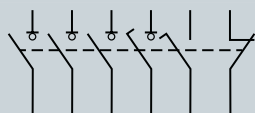


Operating mechanisms, red/yellow

3P+N

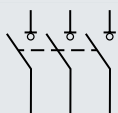


Without auxiliary switch

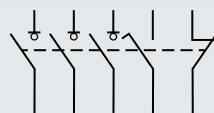


1 NO + 1 NC

3P

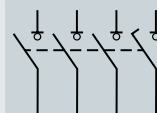


Without auxiliary switch

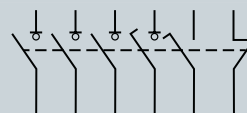


1 NO + 1 NC

3P+N



Without auxiliary switch



1 NO + 1 NC

3LD3048-OTL51	3LD3048-1TL51	3LD3048-OTK53	3LD3048-1TK53	3LD3048-OTL53	3LD3048-1TL53
3LD3148-OTL51	3LD3148-1TL51	3LD3148-OTK53	3LD3148-1TK53	3LD3148-OTL53	3LD3148-1TL53
3LD3248-OTL51	3LD3248-1TL51	3LD3248-OTK53	3LD3248-1TK53	3LD3248-OTL53	3LD3248-1TL53
3LD3348-OTL51	3LD3348-1TL51	3LD3348-OTK53	3LD3348-1TK53	3LD3348-OTL53	3LD3348-1TL53
3LD3448-OTL51	3LD3448-1TL51	3LD3448-OTK53	3LD3448-1TK53	3LD3448-OTL53	3LD3448-1TL53
3LD3040-OTL11	3LD3040-1TL11	3LD3040-OTK13	3LD3040-1TK13	3LD3040-OTL13	3LD3040-1TL13
3LD3140-OTL11	3LD3140-1TL11	3LD3140-OTK13	3LD3140-1TK13	3LD3140-OTL13	3LD3140-1TL13
3LD3240-OTL11	3LD3240-1TL11	3LD3240-OTK13	3LD3240-1TK13	3LD3240-OTL13	3LD3240-1TL13
3LD3340-OTL11	3LD3340-1TL11	3LD3340-OTK13	3LD3340-1TK13	3LD3340-OTL13	3LD3340-1TL13
3LD3440-OTL11	3LD3440-1TL11	3LD3440-OTK13	3LD3440-1TK13	3LD3440-OTL13	3LD3440-1TL13

8

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



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	■	■	■	■	■

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	■	■	■	■	■

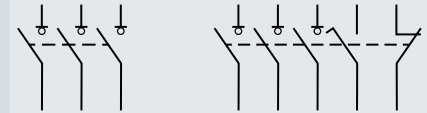
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, installation in distribution boards and basic switches without direct operating mechanism, $6kA_{rms}$



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
Basic switch with masking plate and selector knob, standard 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





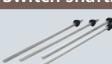
Scope of supply:

- 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

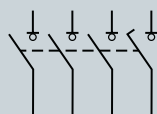
Accessories for switches for installation in distribution boards and basic switches without knob-operated mechanism

	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional poles					
	Type	Contacts	Article No.		
	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	■	■
	N terminal	Through-type	3LD9340-2C	■	■
	PE terminal	Through-type	3LD9340-3C	■	■
Auxiliary switches					
		Contacts	Article No.		
		1 NO + 1 NC	3LD9340-6C	■	■
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	■	■	■
Switch shafts					
	Cross-section	Length	Article No.		
	6 × 6 mm	600 mm	3LD93451C	■	■

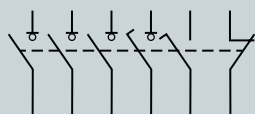


Operating mechanisms, red/yellow

3P+N

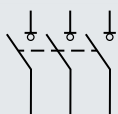


Without auxiliary switch

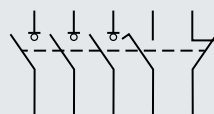


1 NO + 1 NC

3P

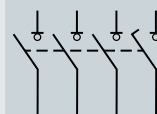


Without auxiliary switch

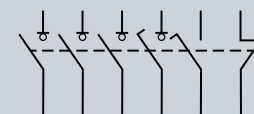


1 NO + 1 NC

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	–	–	–	–
3LD3210-OTL05	3LD3210-1TL05	–	–	–	–
3LD3310-OTL05	3LD3310-1TL05	–	–	–	–
3LD3410-OTL05	3LD3410-1TL05	–	–	–	–

Accessories for basic switches without operating mechanism

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



Version	Color	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
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)
Incl. funnel	Black	3LD9343-4C	■	■	■	■	■
	Red/yellow	3LD9343-5C	■	■	■	■	■

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	■	■	■	■	■

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	3LD93451C	■	■	■	■	■








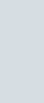
Inscription labels



Inscription	Article No.	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
• Pack of 10 units						
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)
Switching contacts for N conductor (4th contact)									
	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)
Rotary operating mechanisms									
	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, without funnel		Black	3LD9343-6C	■	■	■	■	■
			Red/ yellow	3LD9343-7C	■	■	■	■	■
	For floor mounting and basic switches without knob-operated mechanism, with funnel		Black	3LD9343-4C	■	■	■	■	■
			Red/ yellow	3LD9343-5C	■	■	■	■	■
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	■	■	■	■	■	
Terminal covers									
	<ul style="list-style-type: none"> 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	3LD93451C		■	■	■	■	■
Inscription labels									
	<ul style="list-style-type: none"> 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

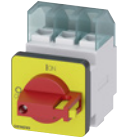
Basic units for front mounting



3P rotary operating mechanisms



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



3P knob-operated mechanisms



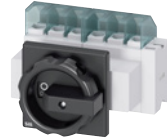
3P+N rotary operating mechanisms



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

8

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

Other accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole

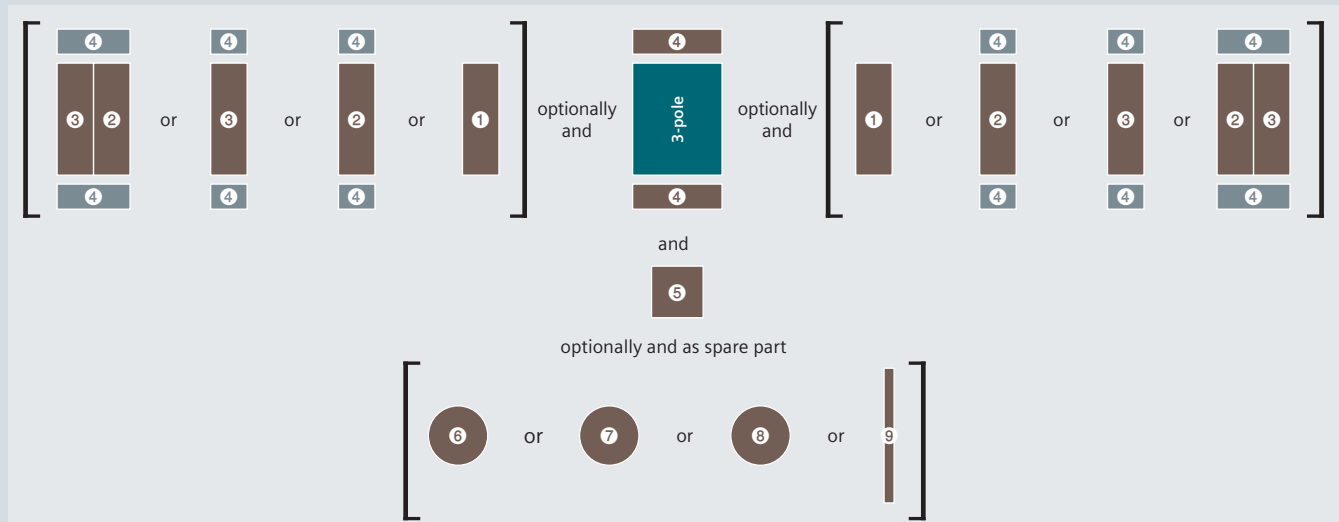


Inscription labels (with and without inscription)

Note:

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

Mounting concept and accessories



Legend

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



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of 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.

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



Floor mounting



The switches for floor mounting up to 125 A (3LD28) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 160 and 250 A (3LD23/3LD24) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in 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 acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers.

DC isolators



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

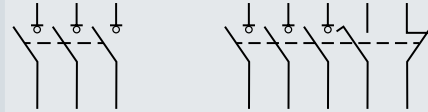
3LD switch disconnectors

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



Operating mechanisms, black

Number of poles 3P

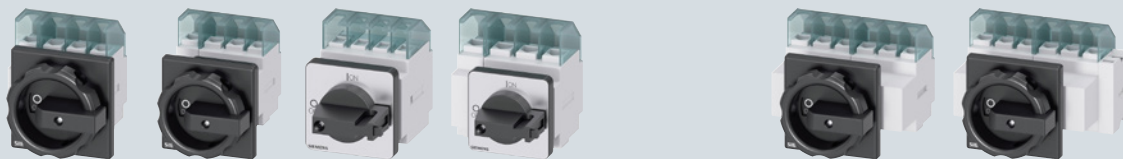


Uninterrupted current I_n At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Rotary operating mechanism, four-hole mounting				
16 A	7.5 kW	5.5 kW	3LD2003-OTK51	3LD2003-1TP51
25 A	9.5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

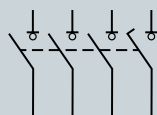
Scope of supply:

- Including terminal covers for the infeed side

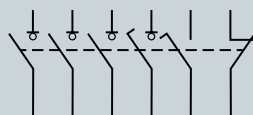
Accessories, see page 8/28



3P+N

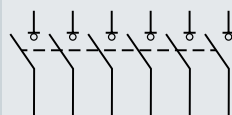


Without
auxiliary switch

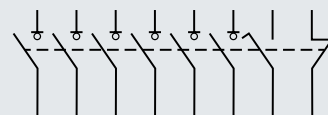


1 NO + 1 NC
(standard version)

6P



Without
auxiliary switch

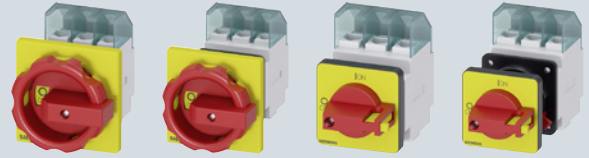


1 NO + 1 NC
(standard version)

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	–	–
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	–	–

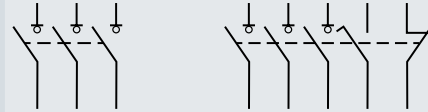
3LD switch disconnectors

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



Operating mechanisms, red/yellow

Number of poles 3P

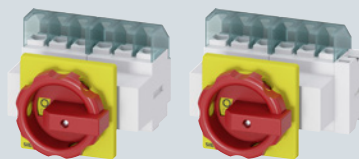
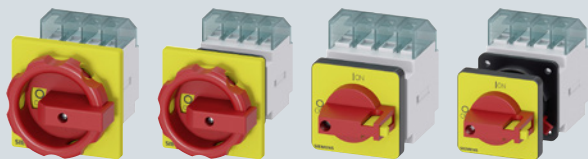


Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Rotary operating mechanism, four-hole mounting				
16 A	7.5 kW	5.5 kW	3LD2003-OTK53	3LD2003-1TP53
25 A	9.5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

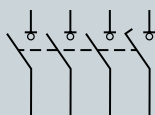
Scope of supply:

- Including terminal covers for the infeed side

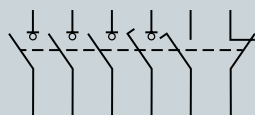
Accessories, see page 8/28



3+N

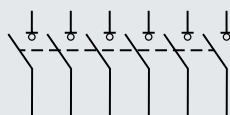


Without
auxiliary switch

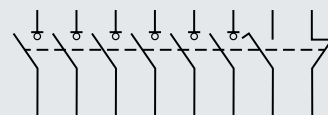


1 NO + 1 NC
(standard version)

6P



Without
auxiliary switch





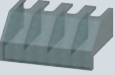


1 NO + 1 NC
(standard version)

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	–	–
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	–	–

3LD switch disconnectors

Accessories for front mounting

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)	
Switching contacts for N conductor (4th contact)											
	Contacts	Article No.									
	Leading switch-on, lagging switch-off	3LD9220-0B		■	■						
		3LD9250-0BA				■					
		3LD9280-0B					■	■			
		3LD9240-0B							■	■	
N/PE terminals											
	Contacts	Article No.									
	Through-type	3LD9200-2B		■							
		3LD9220-2B			■	■					
		3LD9250-2BA				■					
		3LD9280-2B					■	■			
3LD9240-2B								■	■		
Auxiliary switches (standard version)											
	<ul style="list-style-type: none"> 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 switch 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						■	■	
For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B						■	■		

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

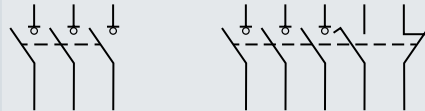
3LD switch disconnectors

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



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

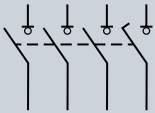
Mounting:

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

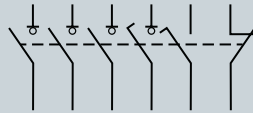
Accessories, see page 8/34



3P+N

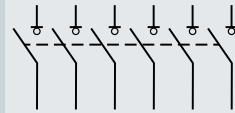


Without
auxiliary switch

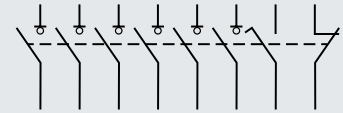


1 NO + 1 NC
(standard version)

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		–	–

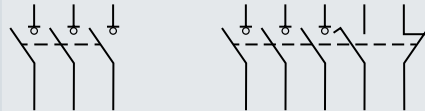
3LD switch disconnectors

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



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

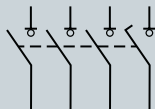
Mounting:

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

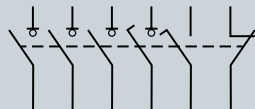
Accessories, see page 8/34



3P+N

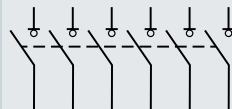


Without
auxiliary switch

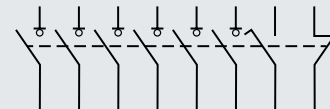


1 NO + 1 NC
(standard version)

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)

Switching contacts for N conductor (4th contact)



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

N/PE terminals



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

Auxiliary switches (standard version)



- 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 switch 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


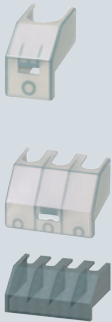

Version	Mounting	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
For main control switches	Four-hole mounting	3LD9243-1B							■	■
		3LD9243-3B							■	■

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			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			Article No.									
	• 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			Article No.									
	• Pack of 5 units												
Version			Article No.										
For main control switches and EMERGENCY-STOP switches				3LD9256-0A									

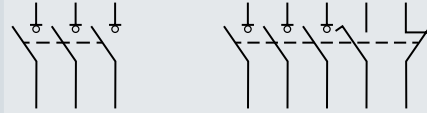
3LD switch disconnectors

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



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)

Switching contacts for N conductor (4th contact)

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

N/PE terminals

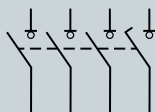
Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Through-type	3LD9200-2C	■							
	3LD9220-2C		■	■					
	3LD9250-2CA				■				
	3LD9280-2C					■	■		
	3LD9240-2C							■	■

Auxiliary switches (standard version)

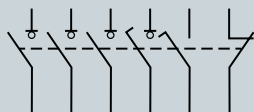
<ul style="list-style-type: none"> • For mounting on the left and/or right • Lagging switch-on, leading switch-off 										
	Contacts	Contact surface	Article No.							
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■	■
2 NO	Standard	3LD9200-6C	■	■	■	■	■	■		



3P+N




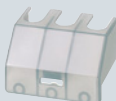
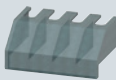
Without
auxiliary switch



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	■						

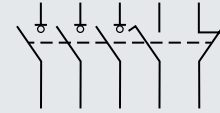
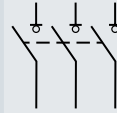
3LD switch disconnectors

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



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)

Switching contacts for N conductor (4th contact)

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

N/PE terminals

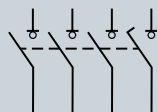
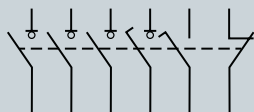
Contacts	Article No.	3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Through-type	3LD9200-2C	■							
	3LD9220-2C		■	■					
	3LD9250-2CA				■				
	3LD9280-2C					■	■		
	3LD9240-2C							■	■

Auxiliary switches (standard version)

 <ul style="list-style-type: none"> • 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	■	■	■	■	■	■		



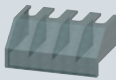


3+N

Without
auxiliary switch1 NO + 1 NC
(standard version)

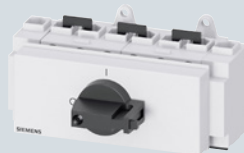
3LD2030-1TL13	3LD2030-1TL13	+ 3LD9200-5C
3LD2130-0TK13 + 3LD9220-0C	3LD2130-0TK13 + 3LD9220-0C	+ 3LD9200-5C
3LD2230-0TK13 + 3LD9220-0C	3LD2230-0TK13 + 3LD9220-0C	+ 3LD9200-5C
3LD2530-0TK13 + 3LD9250-OCA	3LD2530-0TK13 + 3LD9250-OCA	+ 3LD9200-5C
3LD2730-0TK13 + 3LD9280-0C	3LD2730-0TK13 + 3LD9280-0C	+ 3LD9200-5C
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

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	■						

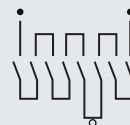
3LD switch disconnectors

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



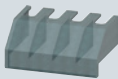


				3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)	
Additional poles												
Switching contacts for N conductor (4th contact)												
	Version	Contacts	Article No.									
	For front mounting	Leading switch-on, lagging switch-off	3LD9220-0B		■	■						
			3LD9250-0BA				■					
			3LD9280-0B					■	■			
3LD9240-0B										■	■	
	For floor mounting, installation in distribution boards	Leading switch-on, lagging switch-off	3LD9220-0C		■	■						
			3LD9250-0CA				■					
			3LD9280-0C					■	■			
			3LD9240-0C								■	■
N/PE terminals												
	For front mounting	Through-type	3LD9200-2B	■								
			3LD9220-2B		■	■						
			3LD9250-2BA				■					
			3LD9280-2B					■	■			
			3LD9240-2B								■	■
	For floor mounting, installation in distribution boards	Through-type	3LD9200-2C	■								
			3LD9220-2C		■	■						
			3LD9250-2CA				■					
			3LD9280-2C					■	■			
			3LD9240-2C								■	■
Auxiliary switches (standard version)												
<ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off 												
	For front mounting	1 NO + 1 NC, standard	3LD9200-5B	■	■	■	■	■	■	■	■	
		1 NO + 1 NC, gold-plated	3LD9200-5BF	■	■	■	■	■	■	■	■	
		For floor mounting, installation in distribution boards	1 NO + 1 NC, standard	3LD9200-5C	■	■	■	■	■	■	■	■
1 NO + 1 NC, gold-plated	3LD9200-5CF		■	■	■	■	■	■	■	■		
2 NO, standard	3LD9200-6C		■	■	■	■	■	■	■	■		
Auxiliary switch for mounting on the front												
	<ul style="list-style-type: none"> 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	■	■	■	■	■	■	■
				Gold-plated	3LD9240-5D						■	■
				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	■	■	■						
			3LD9284-1B				■	■	■			
		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 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 UL508A/NFPA79 Can be locked with up to 1 padlocks in 0 position Can only be switched on by deliberate action 											
	Labeling	Color	Article No.									
	O-I	Gray	3LD9287-1C	■	■	■	■	■				
		Red/yellow	3LD9247-1C							■	■	
		3LD9287-3C	■	■	■	■	■	■				
		3LD9247-3C								■	■	
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							■	■	

Other accessories

		3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
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				■			
		3LD9201-1A	■						
	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

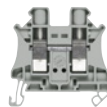


Rotary operating mechanisms for center-hole mounting

Other accessories



Shield terminal

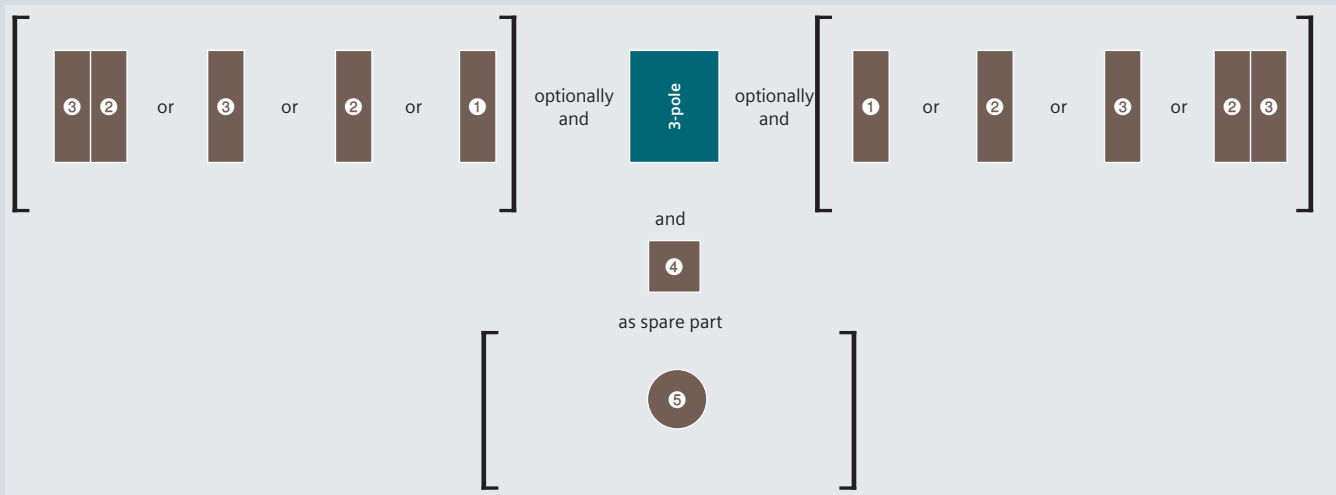


Through-type terminal

Note:

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

Mounting concept and accessories



Legend

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

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



Mounting types

3LD2 main control and EMERGENCY-STOP switches in enclosure



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

DC isolators in enclosure



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

3LD2 maintenance and repair switches with EMC shield plate



The 3LD2 maintenance and repair switch with EMC shield plate is ideal for use between converter and motor. A long leading (20-150 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 between 0 and 550 Hz.

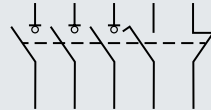
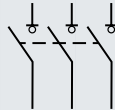
3LD switch disconnectors

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

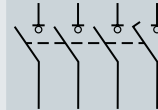


Operating mechanisms, black

Number of poles 3P



3P+N



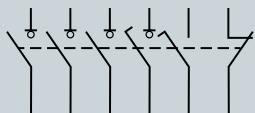
Uninterrupted current I_n At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch		1 NO + 1 NC (standard version)		Without auxiliary switch	
			Base terminal	Article No.	Base terminal	Article No.	Base terminal	Article No.
16 A	7.5 kW	5.5 kW	PE+N	3LD2064-0TB51	N	3LD2064-1GP51	PE	3LD2064-1TCS1
25 A	9.5 kW	7.5 kW	PE+N	3LD2164-0TB51	N	3LD2164-1GP51	PE	3LD2164-1TCS1
32 A	11.5 kW	9.5 kW	PE+N	3LD2264-0TB51	N	3LD2264-1GP51	PE	3LD2264-1TCS1
63 A	22 kW	18.5 kW	PE+N	3LD2565-0TB51	N	3LD2565-1GP51	PE	3LD2565-1TCS1
100 A	37 kW	30 kW	PE+N	3LD2766-0TB51	N	3LD2766-1GP51	PE+N	3LD2766-0TB51 + 3LD9280-0C
125 A	45 kW	37 kW	PE+N	3LD2866-0TB51	N	3LD2866-1GP51	PE+N	3LD2866-0TB51 + 3LD9280-0C

Accessories

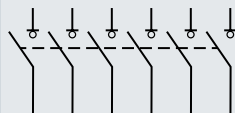
			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
Switching contacts for N conductor (4th contact)								
	Contacts	Article No.						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
N/PE terminals								
	Contacts	Article 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 switch 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	■	■	■	■	■	
Rotary operating mechanisms								
	<ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks 							
			Article No.					
			3LD9224-1G	■	■	■		
		3LD9284-1G				■	■	



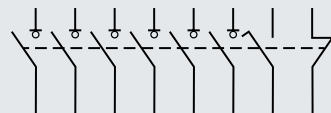
6P



1 NO + 1 NC
(standard version)



Without auxiliary switch



1 NO + 1 NC
(standard version)

Base terminal

PE	3LD2064-1TC51	+ 3LD9200-5C
PE	3LD2164-1TC51	+ 3LD9200-5C
PE	3LD2264-1TC51	+ 3LD9200-5C
PE	3LD2565-1TC51	+ 3LD9200-5C
N	3LD2766-1GP51 + 3LD9280-0C	
N	3LD2866-1GP51 + 3LD9280-0C	

Base terminal

	–
PE+N	3LD2165-3VB51
PE+N	3LD2265-3VB51
PE+N	3LD2566-3VB51
	–
	–

Base terminal

	–
N	3LD2165-4VD51
N	3LD2265-4VD51
PE+N	3LD2566-4VD51
	–
	–

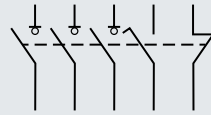
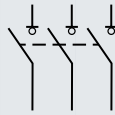
3LD switch disconnectors

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

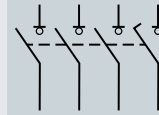


Operating mechanisms, red/yellow

Number of poles 3P



3P+N



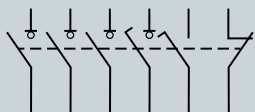
Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch		1 NO + 1 NC (standard version)		Without auxiliary switch	
			Base terminal	3LD	Base terminal	3LD	Base terminal	3LD
16 A	7.5 kW	5.5 kW	PE+N	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

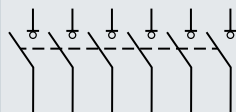
			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
Switching contacts for N conductor (4th contact)								
	Contacts	Article No.						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
N/PE terminals								
	Contacts	Article No.						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C				■	■	
Auxiliary switches (standard version)								
	• For mounting on the left and/or right • Lagging switch-on, leading switch-off							
	Contacts	Contact surface	Article No.					
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
	Gold-plated	3LD9200-5CF	■	■	■	■	■	
	Standard	3LD9200-6C	■	■	■	■	■	
Auxiliary switch for mounting on the front								
	• Mounted on the front of the switch shaft • For long leading times (20 ... 150 ms)							
	Contacts	Contact surface	Article No.					
	1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■
	Gold-plated	3LD9280-5DF	■	■	■	■	■	
Rotary operating mechanisms								
	• Lockable in 0 position with up to 3 padlocks							
	Article No.							
		3LD9224-3G	■	■	■			
		3LD9284-3G				■	■	



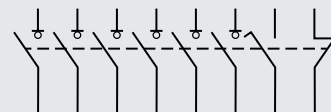
6P



1 NO + 1 NC
(standard version)



Without auxiliary switch



1 NO + 1 NC
(standard version)

Base terminal

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

Base terminal

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

Base terminal

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

3LD switch disconnectors

3LD2 DC isolators in a molded-plastic enclosure



		Operating mechanisms, black	Operating mechanisms, red/yellow
Number of poles		8P	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
Rotary operating mechanisms			
800 V DC	32 A	16 A	3LD2265-8VQ51-0AF6
			3LD2265-8VQ53-0AF6

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

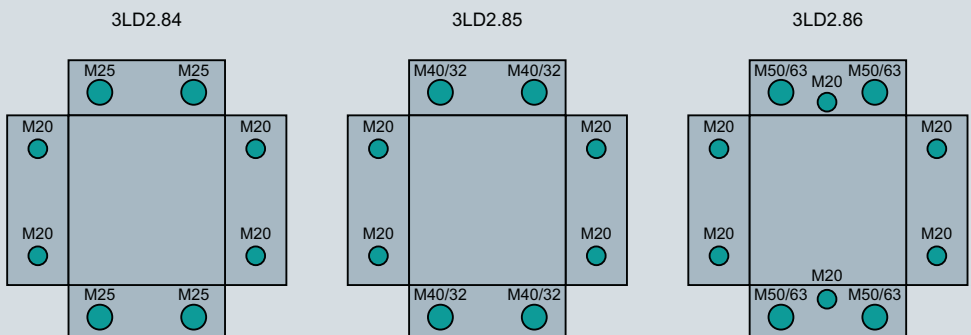


				Operating mechanisms, black	
				3P	6P
Uninterrupted current I_u At AC-20, 0 ... 550 Hz, 380 ... 440 V	Operational power P At AC-20, 0 ... 550 Hz, 380 ... 440 V	Uninterrupted current I_n At AC-21, 50/60 Hz, 380 ... 440 V	Operational power AC-23A, 50/60 Hz, 380 ... 440 V	1 NO + 1 NC (Auxiliary switch for mounting on the front)	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
					2× PE
					3LD2185-5VD21
					3LD2285-5VD21
					3LD2586-5VD21
					2× PE
					–

Scope of supply:

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







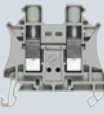

3LD2 cable entries with EMC shield plate



3LD switch disconnectors





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

Accessories

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	
Switching contacts for N conductor (4th contact)									
	Contacts	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	■	■	■	■	■	■
	Standard	3LD9200-6C	■	■	■	■	■	■	
Auxiliary switch 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	■	■	■	■	■	■
Rotary operating mechanisms									
	<ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks 								
	Version	Article No.							
	Main control switches	3LD9224-1G 3LD9284-1G	■	■	■	■	■	■	
	EMERGENCY-STOP switches		3LD9224-3G 3LD9284-3G	■	■	■	■	■	
Terminal blocks									
	Version	Article No.							
	Through-type terminal with screw connection	8WH1000-0AF00	■	■	■	■	■	■	
Shield terminal									
	Terminal area	Article No.							
	3 ... 12 mm	3LD9228-1G	■	■	■	■	■	■	



Accessories for 3LD2 switch disconnectors in enclosure

Additional poles

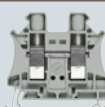

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
Switching contacts for N conductor (4th contact)								
	Contacts	Article No.						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
N/PE terminals								
	Contacts	Article No.						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C					■	■
Auxiliary switches (standard version)								
	<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 switch 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	■	■	■	■	■

8

Operating mechanisms

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

Connection parts

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

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 UL508A/NFPA79



Switch shafts

Other accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole

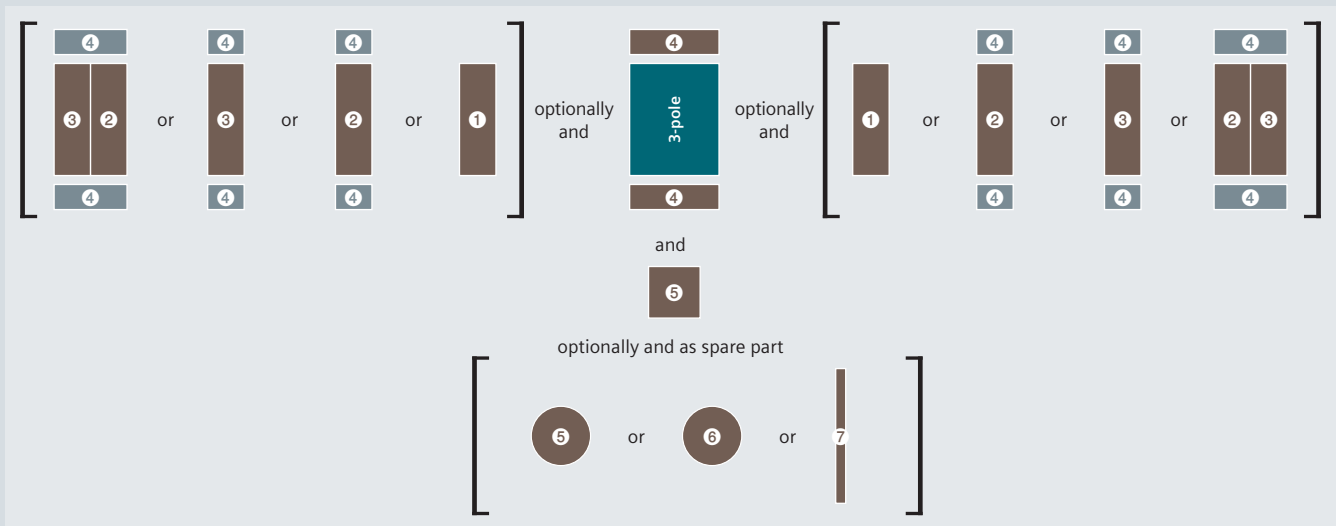


Inscription labels (with and without inscription)

Note:

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

Mounting concept and accessories



Legend

- ① Auxiliary switch
- ② N switching contact ¹⁾
- ③ N/PE terminal
- ④ Terminal cover
- ⑤ Rotary operating mechanism, four-hole mounting
- ⑥ Knob-operated mechanism, four-hole mounting
- ⑦ Switch shaft (300 or 600 mm)

¹⁾ The N switching contact ② first has to be mounted on the basic unit



Main control switches acc. to UL

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

Mounting types

Front mounting of basic units



The switches for front mounting are mounted on the inside of 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 30 A are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels.

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



The switches for floor mounting up to 30 A (3LD50) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in 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 UL508A/NFPA79, a supplementary handle can be mounted on the switch. Combined with the intermediate handle, the shaft can no longer be removed.

3LD switch disconnectors

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

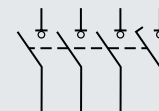
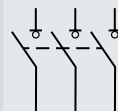


Operating mechanisms, black

Number of poles

3P

3P+N



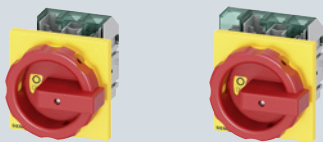
Uninterrupted current I_n At AC-21A, 380 ... 440 V	General use acc. UL489/60947-4-1	Operational power P At AC-23A, 380 ... 440 V		
Rotary operating mechanism, four-hole mounting				
32	30	15	3LD5020-OTK11	3LD5020-OTL11
63	60	30	3LD5220-OTK11	3LD5220-OTL11
100	100	45	3LD5420-OTK11	3LD5420-OTL11
125	125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

Scope of supply:

- Including terminal covers for the infeed side

Accessories for front mounting

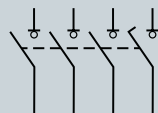
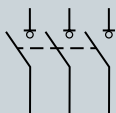
		3LD50	3LD52	3LD54	3LD56	3LD58	
Switching contacts for N conductor (4th contact)							
	Contacts	Article No.					
	Leading switch-on, lagging switch-off	3LD9250-0BA	■				
		3LD9280-0B		■			
		3LD9240-0B			■	■	
N/PE terminals							
	Contacts	Article No.					
	Through-type	3LD9250-2BA	■				
		3LD9280-2B		■			
		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 switch 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	■	■		
			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	Article No.					
	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

3LD9284-3B

Terminal covers

- Pack of 4 units



Number of poles

1-pole

Article No.

3LD9251-2A

3LD9281-2A

3LD9241-2A



3-pole

3LD9251-0A

Inscription labels



- Pack of 10 units

Inscription

German/English (Hauptschalter/Main Switch)

Without inscription

Article No.

3LD9286-1A

3LD9286-4A

3LD switch disconnectors

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

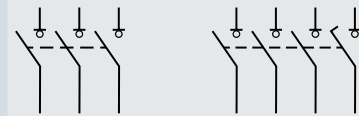


Operating mechanisms, black

Number of poles

3P

3P+N



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

Scope of supply:

- Including terminal covers for the infeed side

Accessories for floor mounting with direct operating mechanisms

3LD50

3LD52

3LD54

3LD56

3LD58

Switching contacts for N conductor (4th contact)



Contacts

Leading switch-on, lagging switch-off

Article No.

3LD9250-OCA

3LD9280-OC

3LD9240-OC

	3LD50	3LD52	3LD54	3LD56	3LD58
3LD9250-OCA	■				
3LD9280-OC		■			
3LD9240-OC			■	■	■

N/PE terminals



Contacts

Through-type

Article No.

3LD9250-2CA

3LD9280-2C

3LD9240-2C

	3LD50	3LD52	3LD54	3LD56	3LD58
3LD9250-2CA	■				
3LD9280-2C		■			
3LD9240-2C			■	■	■

Auxiliary switches



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

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9200-5C

3LD9200-5CF

	3LD50	3LD52	3LD54	3LD56	3LD58
3LD9200-5C	■	■	■	■	■
3LD9200-5CF	■	■	■	■	■

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	■				

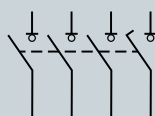
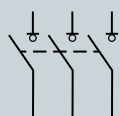




Operating mechanisms, red/yellow

3P

3P+N



3LD5000-OTK13

3LD5000-OTL13

3LD5200-OTK13

3LD5200-OTL13

3LD5400-OTK13

3LD5400-OTL13

3LD5600-OTK13

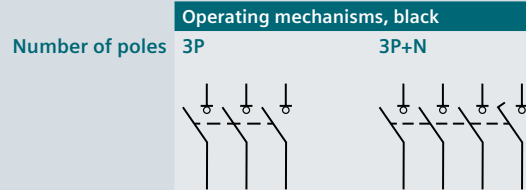
3LD5600-OTL13

3LD5800-OTK13

3LD5800-OTL13

3LD switch disconnectors

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



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

Scope of supply:

- Including terminal covers for the infeed side
- Defeatable door-coupling rotary operating mechanisms with shaft 300 mm
- Without tolerance compensation

Accessories for floor mounting with door-coupling rotary operating mechanism

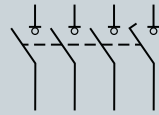
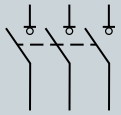
		3LD50	3LD52	3LD54	3LD56	3LD58	
Switching contacts for N conductor (4th contact)							
	Contacts	Article No.					
	Leading switch-on, lagging switch-off	3LD9250-OCA					
		3LD9280-OC					
		3LD9240-OC					
N/PE terminals							
	Contacts	Article No.					
	Through-type	3LD9250-2CA					
		3LD9280-2C					
		3LD9240-2C					
Auxiliary switches (standard version)							
	• For mounting on the left and/or right						
	• Lagging switch-on, leading switch-off						
	Contacts	Contact surface	Article No.				
1 NO + 1 NC	Standard	3LD9200-5C					
	Gold-plated	3LD9200-5CF					
Auxiliary switch for mounting on the front							
	• Mounted on the front of the switch shaft						
	• For long leading times (20 ... 150 ms)						
	Contacts	Contact surface	Article No.				
	1 NO + 1 NC	Standard	3LD9280-5D				
		Gold-plated	3LD9240-5D				
		3LD9280-5DF					
		3LD9240-5DF					
Handles							
	• Supplied with a masking frame, but without an extension shaft or coupling driver						
	• Can be locked with up to 3 padlocks						
	Labeling	Color	Article No.				
	O-I	Gray	8UD1771-2AD01				
		8UD1731-2AD01					
	Red/yellow	8UD1771-2AD05					
		8UD1731-2AD05					



Operating mechanisms, red/yellow

3P

3P+N



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

3LD50 3LD52 3LD54 3LD56 3LD58

Supplementary handles for door-coupling rotary operating mechanism



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

Labeling

O-I

Color

Gray

Red/yellow

Article No.

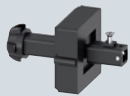
3LD9287-1C

3LD9247-1C

3LD9287-3C

3LD9247-3C

Coupling drivers



Version

With tolerance compensation

Without tolerance compensation

Article No.

8UD1900-1GA00

8UD1900-2GA00

8UD1900-1HA00

8UD1900-2HA00

Terminal covers

- Pack of 4 units



Number of poles

1-pole

Article No.

3LD9251-2A

3LD9281-2A

3LD9241-2A



3-pole

3LD9251-0A

Inscription labels

- Pack of 10 units



Inscription

German/English (Hauptschalter/Main Switch)

Without inscription

Article No.

3LD9286-1A

3LD9286-4A

Switch shafts



Cross-section

6 × 6 mm

Length

300 mm

600 mm

Article No.

3LD9205-0C

3LD9205-2C

8 × 8 mm

300 mm

600 mm

3LD9245-0C

3LD9245-2C

3LD switch disconnectors

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

Additional poles

3LD50 3LD52 3LD54 3LD56 3LD58

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



Contacts

Leading switch-on, lagging switch-off

Article No.

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

3LD50	3LD52	3LD54	3LD56	3LD58
■				
	■			
		■	■	■

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



Contacts

Leading switch-on, lagging switch-off

Article No.

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

3LD50	3LD52	3LD54	3LD56	3LD58
■				
	■			
		■	■	■

N/PE terminals for front mounting



Contacts

Through-type

Article No.

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

3LD50	3LD52	3LD54	3LD56	3LD58
■				
	■			
		■	■	■

N/PE terminals for floor mounting



Contacts

Through-type

Article No.

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

3LD50	3LD52	3LD54	3LD56	3LD58
■				
	■			
		■	■	■

Auxiliary switches (standard version) for front mounting



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

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9200-5B
3LD9200-5BF

3LD50	3LD52	3LD54	3LD56	3LD58
■	■	■	■	■
■	■	■	■	■

Auxiliary switches (standard version) for floor mounting



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

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9200-5C
3LD9200-5CF

3LD50	3LD52	3LD54	3LD56	3LD58
■	■	■	■	■
■	■	■	■	■

Auxiliary switch for mounting on the front



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

Contacts

1 NO + 1 NC

Contact surface

Standard





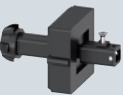
Gold-plated

Article No.

3LD9280-5D
3LD9240-5D
3LD9280-5DF
3LD9240-5DF




3LD50	3LD52	3LD54	3LD56	3LD58
■	■			
		■	■	■
■	■			
		■	■	■

Operating mechanisms

				3LD50	3LD52	3LD54	3LD56	3LD58	
Rotary operating mechanism for front mounting									
	• Lockable in 0 position with up to 3 padlocks								
	Version	Article No.							
	For main control switches	3LD9284-1B			■	■			
	For EMERGENCY-STOP switches	3LD9284-3B			■	■			
Knob-operated mechanism for front mounting									
	• Lockable in 0 position with up to 3 padlocks								
	Version	Article No.							
	For main control switches	3LD9243-1B					■	■	■
	For EMERGENCY-STOP switches	3LD9284-3B					■	■	■
Handles for floor mounting									
	• Supplied with a masking frame, but without an extension shaft or coupling driver								
	• Can be locked with up to 3 padlocks								
	Labeling	Color	Article No.						
	O-I	Gray	8UD1771-2AD01			■	■		
		Red/yellow	8UD1731-2AD01					■	■
		8UD1771-2AD05			■	■			
		8UD1731-2AD05					■	■	
Supplementary handles for door-coupling rotary operating mechanism									
	• For requirements according to UL508A/NFPA79								
	• Can be locked with up to 1 padlock in 0 position								
	• Can only be switched on by deliberate action								
	Labeling	Color	Article No.						
	O-I	Gray	3LD9287-1C			■	■		
	Red/yellow	3LD9247-1C					■	■	
		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					■	■	■

8

Other accessories

				3LD50	3LD52	3LD54	3LD56	3LD58	
Terminal covers									
	• Pack of 4 units								
	Number of poles	Article No.							
	1-pole	3LD9251-2A			■				
		3LD9281-2A				■			
		3LD9241-2A					■	■	■
	3-pole	3LD9251-0A			■				
Inscription labels									
	• Pack of 10 units								
	Inscription	Article No.							
	German/English (Hauptschalter/Main Switch)	3LD9286-1A			■		■	■	■
	Without inscription	3LD9286-4A			■		■	■	■
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



Other accessories for door-coupling rotary operating mechanisms

Other accessories and spare parts



Auxiliary switches



Terminal covers



Phase barriers



Blocking pin test function



Mounting elements



Accessories for DC applications

Note:

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

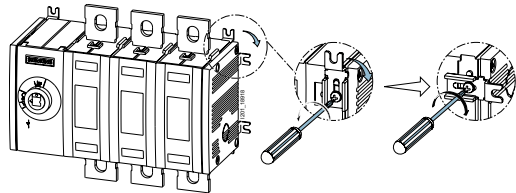


Types of mounting



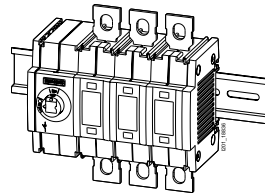
You will find further information under:
sie.ag/2UlrAvy

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.

Standard mounting rail

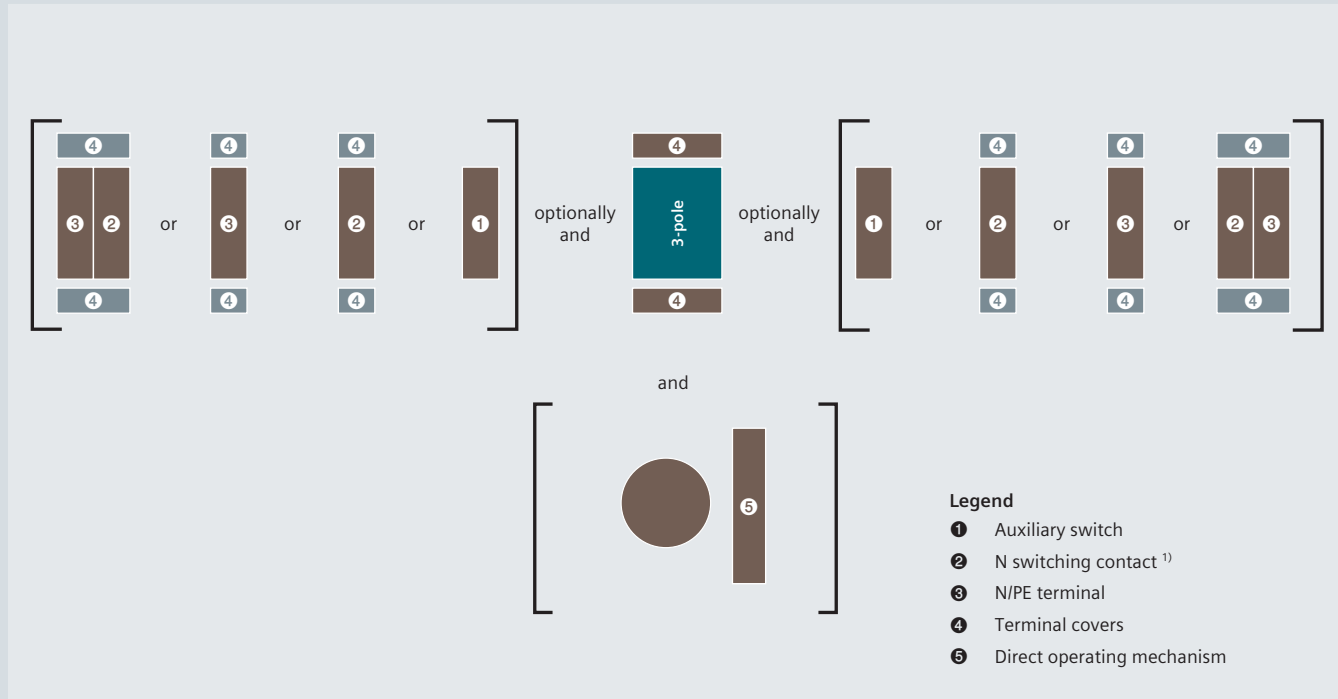


Sizes 01 and 02 of the 3KD0 and sizes 1 and 2 of the 3KD can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.

3KD switch disconnectors

Mounting concept and accessories

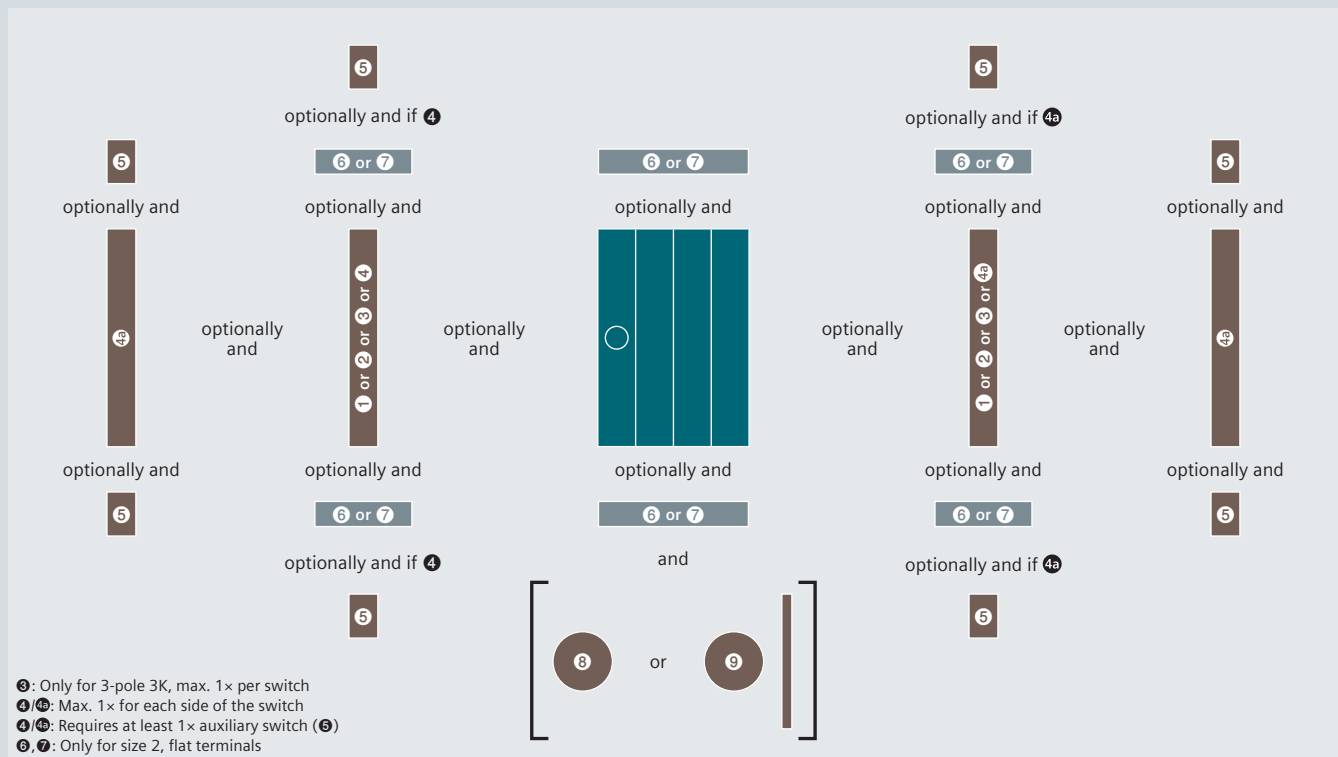
Front operating mechanism center, size 01 and 02



¹⁾ The N switching contact 2 first has to be mounted on the basic unit

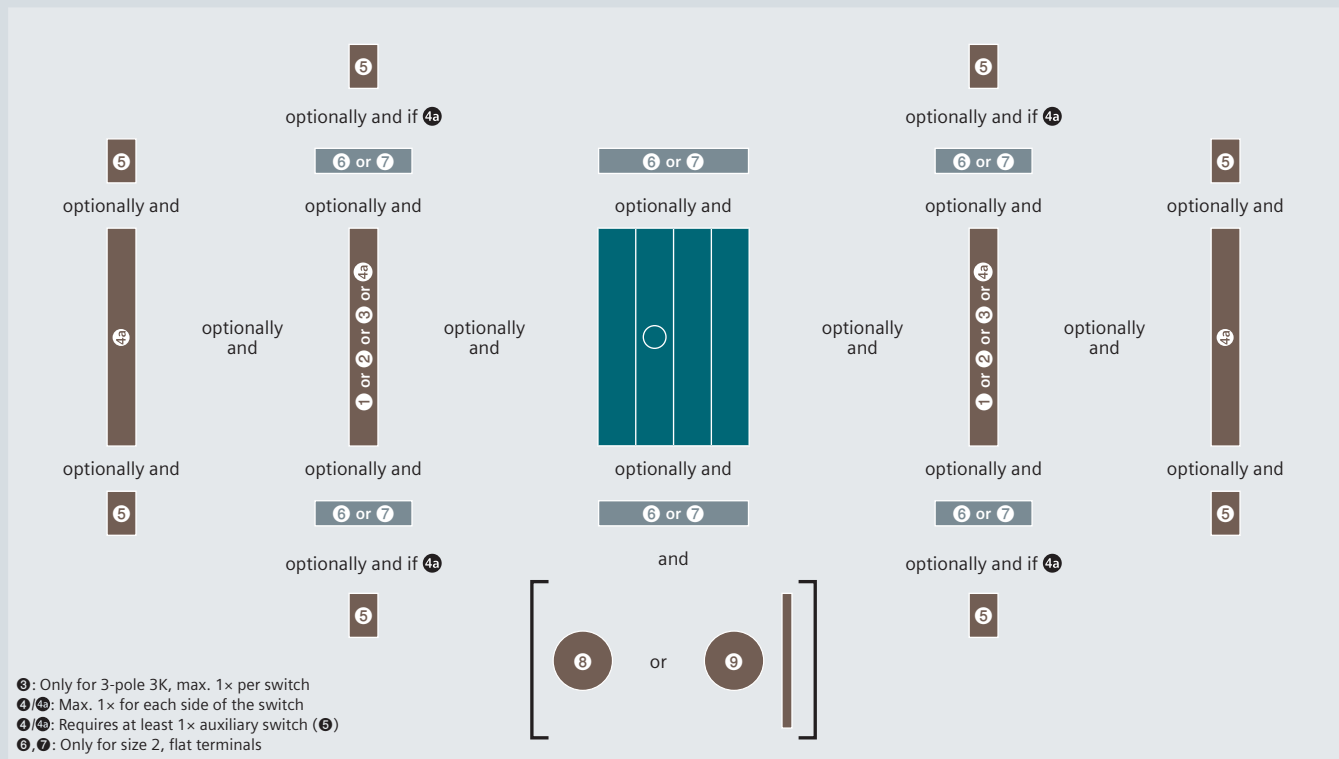
Note: Design with door-coupling rotary operating mechanism for sizes 01 and 02 only possible for basic unit without operating mechanism

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



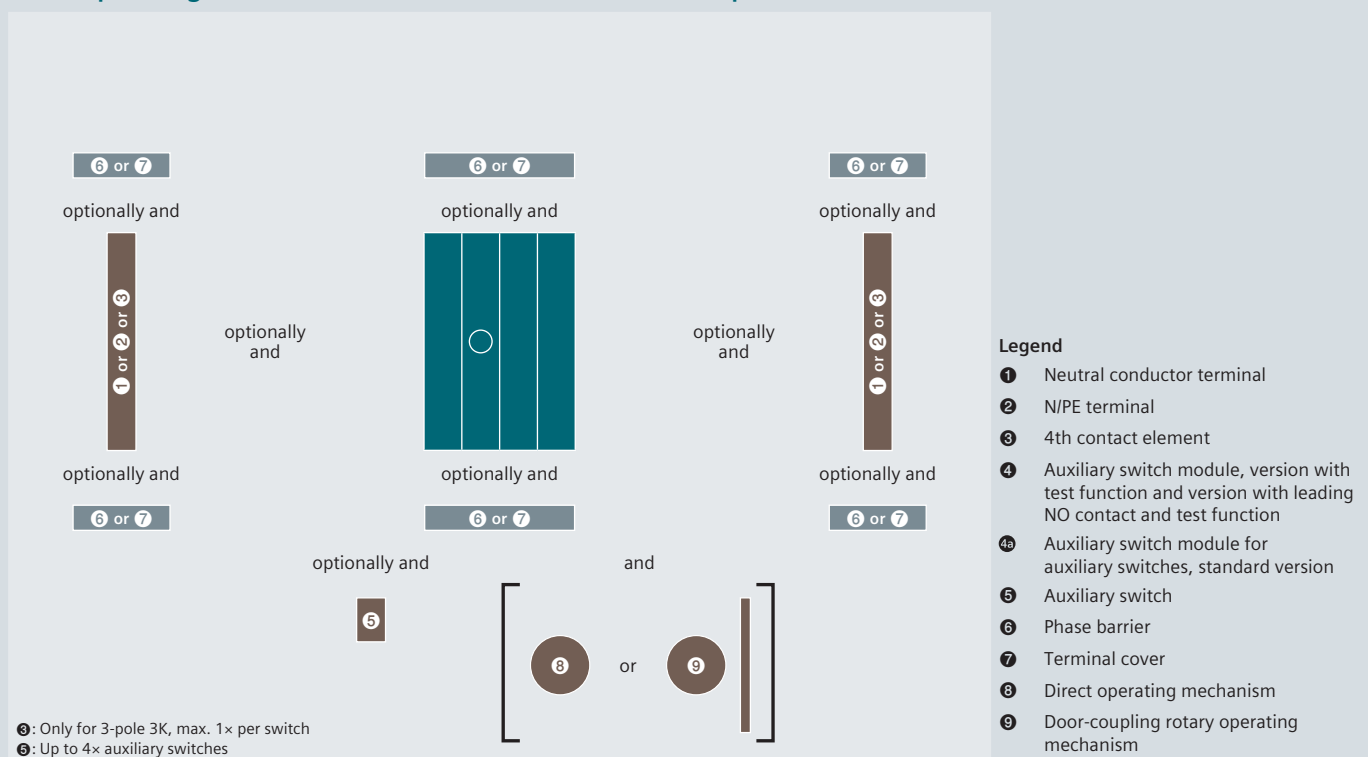
3: Only for 3-pole 3K, max. 1x per switch
 4/4a: Max. 1x for each side of the switch
 4/4a: Requires at least 1x auxiliary switch (5)
 6, 7: Only for size 2, flat terminals

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



8

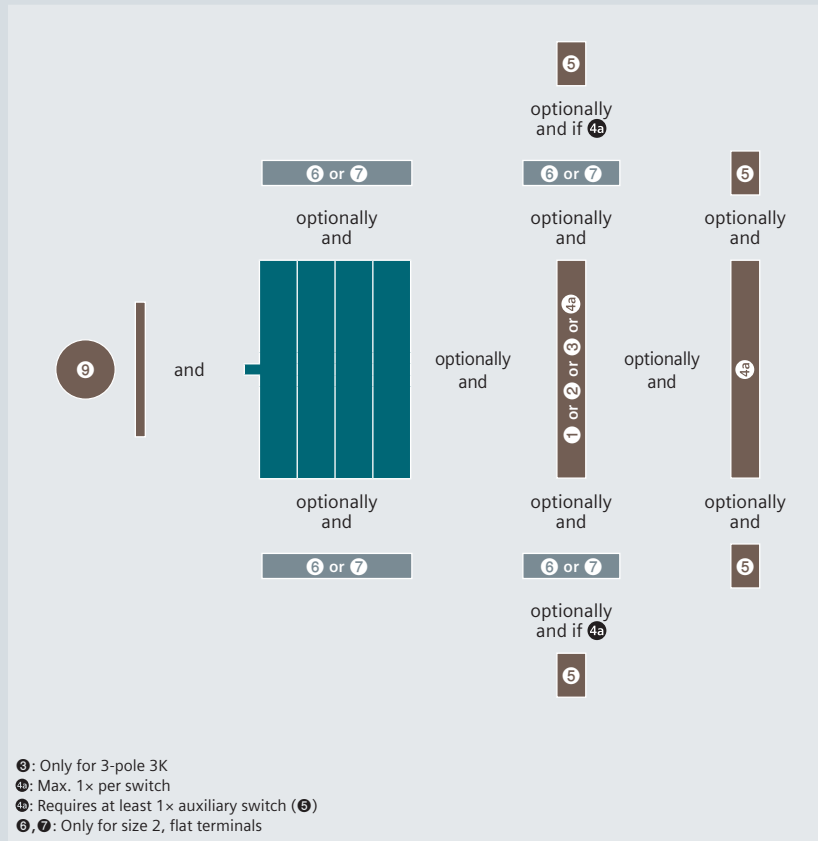
Front operating mechanism center or left, sizes 3 to 5, 3/4-pole



3KD switch disconnectors

Mounting concept and accessories

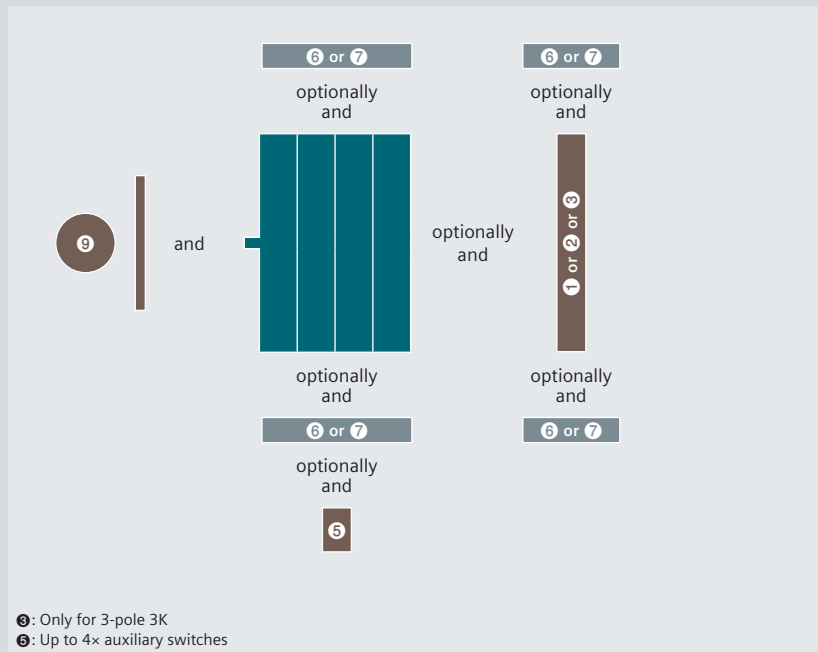
Lateral operating mechanism left, sizes 1 and 2, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④a Auxiliary switch module for auxiliary switches, standard version
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

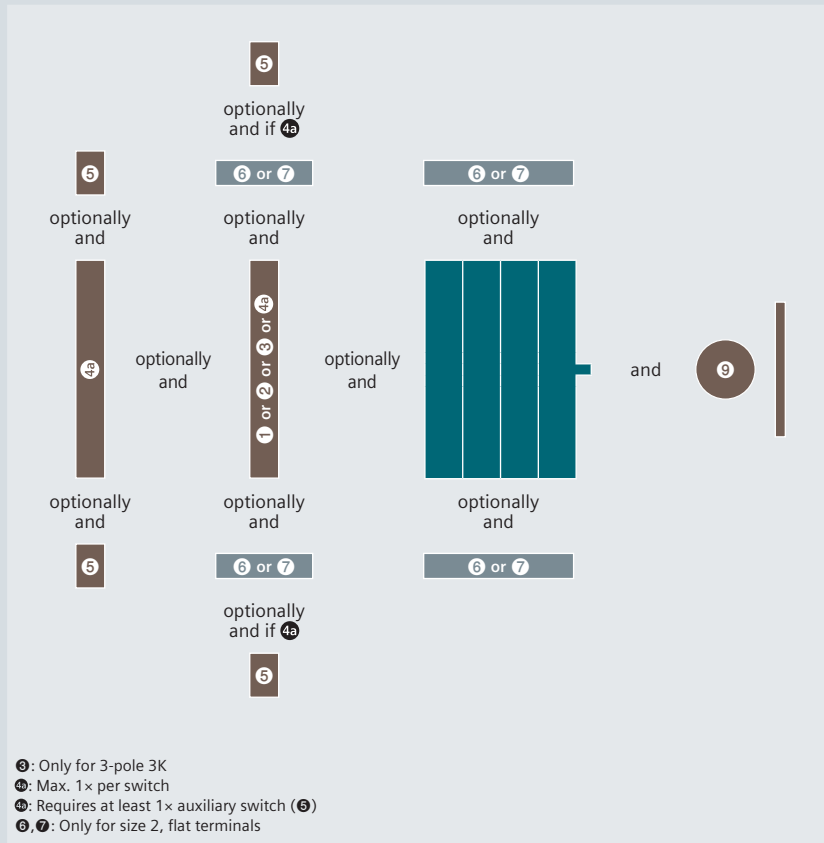
Lateral operating mechanism left, sizes 3 to 5, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

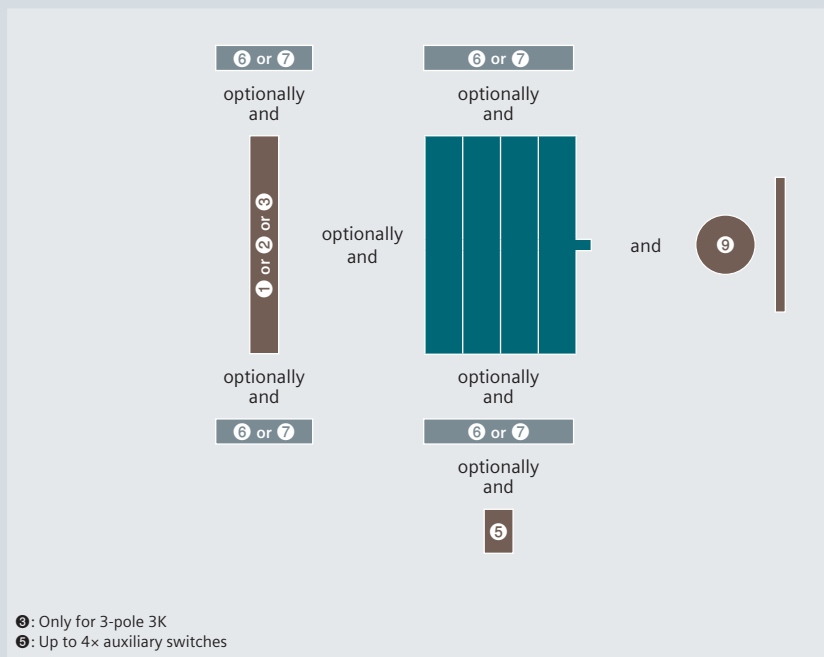
Lateral operating mechanism right, sizes 1 and 2, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④a Auxiliary switch module for auxiliary switches, standard version
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

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



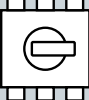
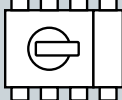
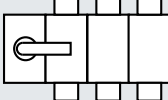
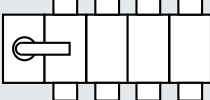
Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

3KD switch disconnectors

Complete units with direct operating mechanisms



Application	Number of poles	Drive, gray Front operating mechanism center		Drive, gray Front operating mechanism left	
		AC	AC	AC/DC	AC/DC
		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 3KDO sizes 01 and 02
- Incl. phase barriers on the input and output side for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms

Mounting:

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

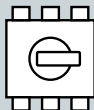


Drive, red/yellow

Front operating mechanism center

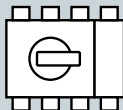
AC

3P



AC

4P



3KD0133-2KG20-3

3KD0143-2KG20-3

3KD0233-2KG20-3

3KD0243-2KG20-3

3KD0333-2KG20-3

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3KD0333-2LG20-3

3KD0343-2LG20-3

3KD0433-2LG20-3

3KD0443-2LG20-3

3KD0533-2LG20-3

3KD0543-2LG20-3

3KD0633-2LG20-3

3KD0643-2LG20-3

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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

Basic units without handles



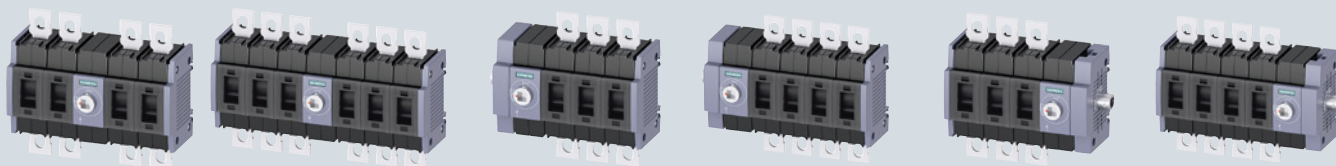
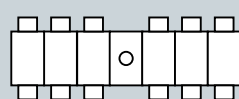
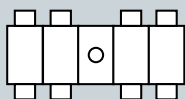
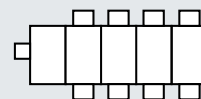
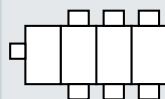
Application	Number of poles	Front operating mechanism Left		Front operating mechanism Center		
		AC/DC	AC/DC	AC	AC	AC/DC
		3P	4P	3P	4P	3P
Size	Uninterrupted current I_u					
Box terminals						
01	16 A	–	–	3KD0130-2KG20-3	3KD0140-2KG20-3	–
	32 A	–	–	3KD0230-2KG20-3	3KD0240-2KG20-3	–
	63 A	–	–	3KD0330-2KG20-3	–	–
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	–
	160 A	–	–	–	–	–
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:

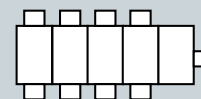
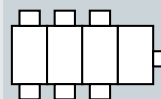
- Incl. terminal covers on input and output side for 3KDO sizes 01 and 02
- Incl. phase barriers on the input and output side for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms

Mounting:

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

Front operating mechanism
CenterAC/DC
4PDC
6P for DC applicationsLateral operating mechanism
LeftAC/DC
3PAC/DC
4P

Right

AC/DC
3PAC/DC
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










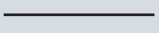

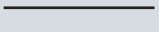
3KD switch disconnectors

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 	3KD9015-2	■						
	3KD9025-2		■					
	3KD9105-2			■				
	3KD9205-2				■			
 Flat terminals 	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

- Can be locked with up to 3 padlocks
- Requires additional mounting depth in locked state



Labeling	Color	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
Test-O-I	Gray	3KD9101-1			■				
		3KD9201-1				■			
		3KD9301-1					■		
		3KD9401-1						■	
		3KD9501-1							■
	Red/yellow	3KD9101-2			■				
		3KD9201-2				■			
		3KD9301-2					■		
		3KD9401-2						■	
		3KD9501-2							■

Direct operating mechanisms, flat version

- Suitable for distribution boards
- Can be locked with 1 padlock
- No additional mounting depth in locked state



Labeling	Color	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
Test-O-I	Gray	3KD9101-0			■				
		3KD9201-0				■			
	Red/yellow	3KD9101-8			■				
		3KD9201-8				■			

Direct operating mechanisms, distribution boards



Number of poles	Color	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
3-pole	Gray	3KD9011-0C	■						
	Red/yellow	3KD9011-8C	■						
4-pole	Gray	3KD9011-0D	■						
	Red/yellow	3KD9011-8D	■						

Door-coupling rotary operating mechanisms, complete

- **Scope of supply:**
 - Handle with masking plate (sizes 01 and 02 without test function)
 - Coupling driver
 - Shaft 300 mm
- Can be locked with up to 3 padlocks



Labeling	Tolerance compensation	Defeat function	Color	Article No.	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5	
O-I	With	With	Gray	8UD1171-1AD21	■	■						
			Red/yellow	8UD1171-1AD25	■	■						
	Without	Without	Gray	3KD9001-5	■	■						
			Red/yellow	3KD9001-6	■	■						
			With	Gray	8UD1171-2AD11			■	■			
				Red/yellow	8UD1171-2AD15			■	■			
Test-O-I	With	With	Gray	8UD1171-2AF21			■	■				
			8UD1141-2AF21					■				
			8UD1151-3AF21						■			
			8UD1161-4AF21							■		
			Red/yellow	8UD1171-2AF25			■	■				
			8UD1141-2AF25						■			
			8UD1151-3AF25							■		
			8UD1161-4AF25								■	

Note:








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

3KD switch disconnectors




Accessories

Accessories for door-coupling rotary operating mechanisms



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

Handles					Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5			
<ul style="list-style-type: none"> Supplied with a masking frame, but without an extension shaft and without coupling driver Can be locked with up to 3 padlocks 														
	Labeling	Lighting	Color	Article No.										
 	O-I	Without	Gray	8UD1771-2AD01	■	■	■	■						
				8UD1841-2AD01				■						
				8UD1851-3AD01							■			
			8UD1861-4AD01									■		
			Red/yellow	8UD1771-2AD05	■	■	■	■						
				8UD1841-2AD05							■			
	8UD1851-3AD05									■				
	With	Gray	Without	8UD1861-4AD05								■		
				8UD1771-2CD01			■	■						
				8UD1841-2CD01							■			
			Red/yellow	8UD1851-3CD01								■		
				8UD1861-4CD01									■	
8UD1771-2CD05							■	■						
 	Test-O-I	Without	Gray	8UD1841-2CD05							■			
				8UD1851-3CD05								■		
				8UD1861-4CD05									■	
			Red/yellow	8UD1771-2AF01						■	■			
				8UD1841-2AF01								■		
				8UD1851-3AF01									■	
	With	Gray	Without	8UD1861-4AF01								■		
				8UD1771-2AF05			■	■						
				8UD1841-2AF05							■			
			Red/yellow	8UD1851-3AF05								■		
				8UD1861-4AF05									■	
				8UD1771-2CF01				■	■					
With	Gray	Without	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										■		
		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							■

Other 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 screw terminals and are mounted on the operating mechanism module of the 3KD. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used. 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

Other accessories and spare parts

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

Phase barriers



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

Version	Scope of supply	Article No.	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							■
		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				■			
		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				■			
		Standard version	3KD9304-8					■		
		Standard version	3KD9404-8						■	
		Short version	3KD9304-5					■		
		Short version	3KD9404-5						■	
		Short version	3KD9404-5							■

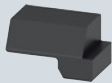
Spare part for terminal covers



- Not permissible for 2000 A devices

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						■	

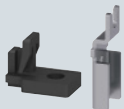
Blocking pin test function



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

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

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							■

Other accessories and spare parts

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

Accessories for DC applications

	Size 01	Size 02	Size 1	Size 2	Size 3	Size 4	Size 5
Connecting bridges							
	<ul style="list-style-type: none"> 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.				
	Box terminals		3KD9118-1				
			3KD9218-1				
	Flat terminals		3KD9218-0				
			3KD9318-0				
			3KD9418-0				
			3KD9518-0				
Terminal covers for connecting bridges							
	<ul style="list-style-type: none"> For 3KD with flat terminals 						
	Article No.						
			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 details acc. to IEC 60947-3

Basic data

Parameter	Unit	000 narrow	000	00	1	2	3
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

Parameter	Unit	000 narrow	000	00	1	2	3	
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⁾

More information

See page 8/94

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 8/96				See page 8/100				See page 8/112	

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

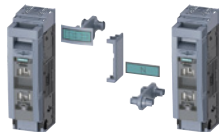


3-phase busbars

Assembly kits



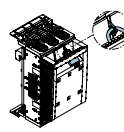
Standard rail mounting



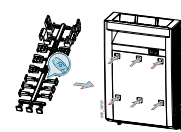
Mechanical connection



1/4-pole busbar mounting

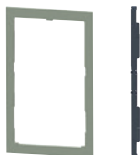


Locking function

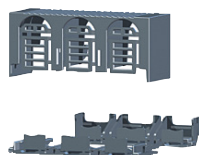


Protection against power theft

Masking frames and covers



Masking frames and supports



Cable connection covers



Reach-around protection for busbar

Other accessories



Auxiliary switches



Isolating blades



Fuse carriers with and without fuse monitoring

Note:

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

General information



3NA COM LV HRC fuse link



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

See [Fuse Systems](#), page 7/42



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 in the Siemens Industry Mall.

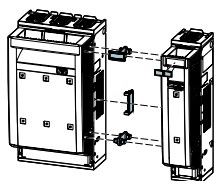
Directly to 3NP1
configurator under:
sie.ag/3IIXQZH



8



Number of poles



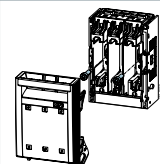
3NP1 fuse switch disconnectors are available from the factory in 1, 3 and 4-pole device versions. 4-pole types are available in all common versions from the factory ready for installation (without fuse monitoring, N-pole on the right-hand side).

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

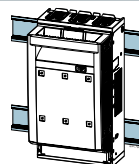


Floor mounting and standard mounting rail



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 standard mounting rail using accessories. For this purpose, the assembly kit for mounting on a standard mounting rail is simply mounted on the rear panel of the 3NP1.

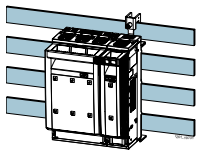


3NP1 fuse switch disconnectors

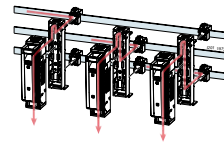
General information



Mounting on busbar systems



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



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

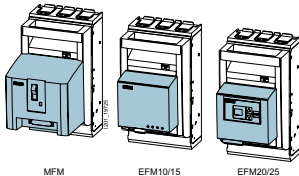


1-pole 3NP1 devices for wall mounting in sizes 000 and 00 can be adapted to the 8US 60 mm busbar system using the assembly kit for 1-pole busbar mounting. Due to the modular design of the assembly kit, any phase can be selected for the infeed.



Fuse monitoring

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



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:

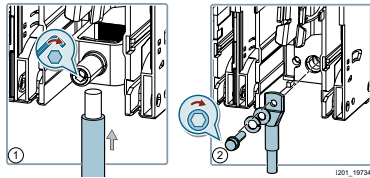
Fuses with insulated grip lugs cannot be used for 3NP1 with fuse monitoring.

		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	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.

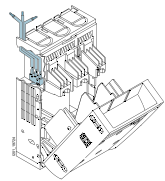


Other accessories

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

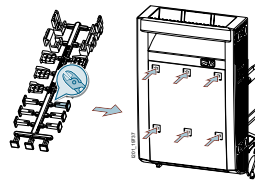


Auxiliary switches



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

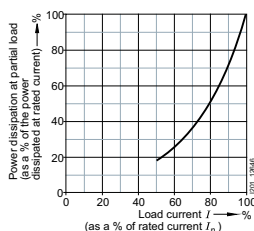


4-pole 3NP1s are used in 3-phase AC systems with switched neutral conductors. They are supplied without an isolating blade for the N pole. The switching instant is selected by choosing the appropriate isolating blade.



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

Box terminals NH000 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
–	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 new 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 new 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

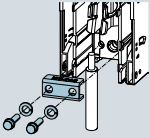
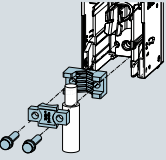
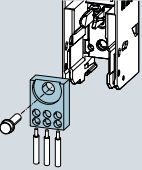
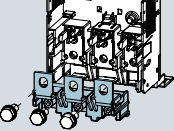
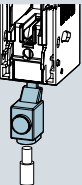
²⁾ If optional infeed terminal is used max. 160 A

3NP1 fuse switch disconnectors

Accessories

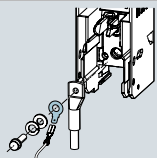
Connection technology – Terminals

- 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 terminal									
 <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		■			

Connection technology

Auxiliary conductor connections



- For connecting small loads directly to the terminals of the 3NP1
- Connection via commercially available flat tab sleeves 6.3 × 0.8 mm, max. 5 A load
- Scope of supply: 3 units

3NP1 connection

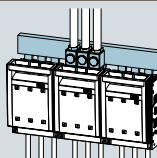
With flat terminals

With box terminals

With retrofitted prism and saddle terminals

3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Article No.						
			■			
				■		
					■	
						■
	■	■				
			■			
				■		
					■	
						■
			■			
				■		
					■	
						■

3-phase busbar system



- For connection of up to 4 3NP1 NH000 for floor mounting on the infeed side
- Infeed is routed through infeed terminals
- With the connection bar, two blocks of bridged 3NP1 can be connected
- Using the cover cap, the connection tags of the busbar are covered on unused feeders to ensure they are safe to touch
- The maximum current-carrying capacity of the interconnected 3NP1 is 225 A in total for the 3-phase busbar system

Version

Scope of supply

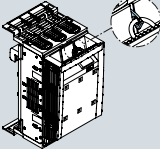
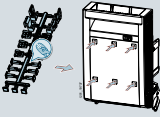
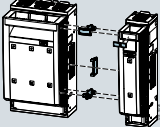
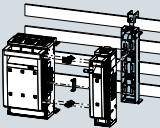
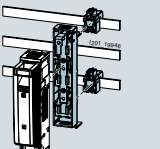
Article No.

For 2× 3NP1	1 pack = 5 units	3NP1923-1BF20		■		
For 3× 3NP1	1 pack = 5 units	3NP1923-1BF30		■		
For 4× 3NP1	1 pack = 3 units	3NP1923-1BF40		■		
Connection bars	1 pack = 3 units	3NP1923-1BF50		■		
Covering caps	1 pack = 20 units	3NP1923-1BF10		■		
Infeed terminal	1 pack = 3 units	3NP1923-1BD00		■		

3NP1 fuse switch disconnectors

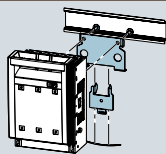
Accessories

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) 							
	Scope of supply 1 pack = 10 units	Article No.					
	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) 							
	Scope of supply 1 pack is sufficient to equip 5 3NP1 units, 2.5 units for NH000, narrow design	Article No.					
	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 connecting 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 3+N system in this combination 							
	3NP1 connection						
	With flat terminals	Article No.					
		3NP1934-1ED20		■			
	With box terminals	Article No.					
		3NP1924-1ED10	■				
	3NP1934-1ED10		■				
With flat terminals or box terminals	Article No.						
	3NP1944-1ED00			■			
	3NP1954-1ED00				■	■	
1-pole connecting 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 							
	3NP1 connection						
	With box terminals	Article No.					
	3NP1921-1EE10	■					
	3NP1931-1EE10		■				

Assembly kits

Assembly kits for mounting on standard mounting rail

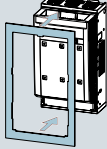
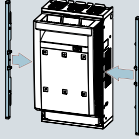
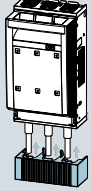
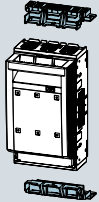


- Must be mounted on the rear of a 3NP1 for floor mounting
- Mounting of the 3NP1 on a standard mounting rail is achieved for size NH000 by mounting on a mounting rail, and for sizes NH00 and NH1 between two mounting rails that are 125 or 150 mm apart

	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			■				
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	new	■				
		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	new	■				
		3NP1931-1CB00	3NP1933-1CB00 ²⁾			■			
		3NP1941-1CB00	3NP1943-1CB00				■		
		3NP1951-1CB00	3NP1953-1CB00					■	
		3NP1961-1CB00	3NP1963-1CB00						■
	With rear reach-around protection	–	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	new	■				
		–	3NP1933-1CA10				■		
		3NP1941-1CA10	–					■	■
		–	3NP1943-1CA10					■	
		–	3NP1953-1CA10						■
	Siemens 8US compact	–	3NP1923-1CA30		■				
		–	3NP1923-1CA20		■				
	Rittal	–	3NP1913-1CA10	new					
		–	3NP1933-1CA20				■		
		–	3NP1943-1CA20					■	
		–	3NP1953-1CA20						■
		–	3NP1963-1CA20						■
–		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

Other 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.

3NP1920-1FA00

3NP1910-1FA00

new

3NP1930-1FA00

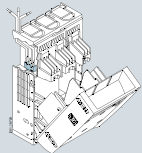
3NP1940-1FA00

1 CO, solid-state compatible

3NP1920-1FB00

3NP1930-1FB00

3NP1940-1FB00



Isolating blades

- Are used if only the isolating function of a 3NP1 is required and not protection with fuses or in the neutral conductor of a 4-pole 3NP1.
- The isolating blade, which is leading on switch-on and lagging on switch-off, is used in the neutral conductor of a 4-pole 3NP1 if shifting of the neutral point of the 3+N system has to be avoided during switching.

Version

Switching simultaneously with fuses

Article No.

3NG1002

3NG1202

3NG1302

3NG1402

Leading switch-on, lagging switch-off

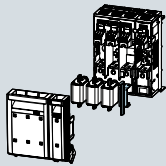
3NP1924-1MA20

3NP1934-1MA20

3NP1944-1MA20

3NP1954-1MA20

3NP1964-1MA20



	NH000 narrow	NH000	NH00	NH1	NH2	NH3
3NP1920-1FA00		■				
3NP1910-1FA00	■					
3NP1930-1FA00			■			
3NP1940-1FA00				■	■	■
3NP1920-1FB00		■				
3NP1930-1FB00			■			
3NP1940-1FB00				■	■	■
3NG1002		■	■			
3NG1202				■		
3NG1302					■	
3NG1402						■
3NP1924-1MA20		■				
3NP1934-1MA20			■			
3NP1944-1MA20				■		
3NP1954-1MA20					■	
3NP1964-1MA20						■

3NP1 fuse switch disconnectors

Other accessories

Fuse carriers (spare part)

- For retrofitting fuse monitoring on an existing 3NP1

	1-pole	3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
								
Version	Article No.	Article No.						
Standard – without fuse monitoring	3NP1921-1GA00	3NP1923-1GA00		■				
	–	3NP1913-1GA00 new	■					
	3NP1931-1GA00	3NP1933-1GA00			■			
	3NP1941-1GA00	3NP1943-1GA00				■		
	3NP1951-1GA00	3NP1953-1GA00					■	
	3NP1961-1GA00	3NP1963-1GA00						■
MFM - for operating voltage 24 ... 690 V AC (L-L)/ 24 ... 240 V DC (L+ - L-)	–	3NP1923-1GB10		■				
	–	3NP1933-1GB10			■			
	–	3NP1943-1GB10				■		
	–	3NP1953-1GB10					■	
	–	3NP1963-1GB10						■
EFM10 - for operating voltage 230 ... 690 V AC (L-L)	–	3NP1923-1GB20		■				
	–	3NP1933-1GB20			■			
	–	3NP1943-1GB20				■		
	–	3NP1953-1GB20					■	
	–	3NP1963-1GB20						■
EFM15 - for operating voltage 24 ... 240 V AC (L - N)/ 24 ... 250 V DC (L+ - L-)	3NP1921-1GB43	–		■				
	3NP1931-1GB43	–			■			
	3NP1941-1GB43	–				■		
	3NP1951-1GB43	–					■	
	3NP1961-1GB43	–						■
EFM15 - for operating voltage 110 ... 690 V AC (L - N)	3NP1921-1GB41	–		■				
	3NP1931-1GB41	–			■			
	3NP1941-1GB41	–				■		
	3NP1951-1GB41	–					■	
	3NP1961-1GB41	–						■
EFM15 - for operating voltage 120 ... 440 V DC (L - N)	3NP1921-1GB44	–		■				
	3NP1931-1GB44	–			■			
	3NP1941-1GB44	–				■		
	3NP1951-1GB44	–					■	
	3NP1961-1GB44	–						■
EFM15 - for operating voltage 190 ... 690 V AC (L - L)	–	3NP1923-1GB42		■				
	–	3NP1933-1GB42			■			
	–	3NP1943-1GB42				■		
	–	3NP1953-1GB42					■	
	–	3NP1963-1GB42						■
EFM15 - for operating voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB45		■				
	–	3NP1933-1GB45			■			
	–	3NP1943-1GB45				■		
	–	3NP1953-1GB45					■	
	–	3NP1963-1GB45						■
EFM20 - for operating voltage 230 ... 690 V AC (L - L)	–	3NP1923-1GB30		■				
	–	3NP1933-1GB30			■			
	–	3NP1943-1GB30				■		
	–	3NP1953-1GB30					■	
	–	3NP1963-1GB30						■
EFM25 - for operating voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB50		■				
	–	3NP1933-1GB50			■			
	–	3NP1943-1GB50				■		
	–	3NP1953-1GB50					■	
	–	3NP1963-1GB50						■

3NP5 fuse switch disconnectors

System overview

Basic units



Floor mounting



For 40 mm busbar system

Connection parts



Clamp terminals



Busbar adapters for 60 mm systems

Masking frames and covers

Molded-plastic
masking frames

Cable connection covers

Other accessories



Auxiliary switches



Arc chutes

Assembly kits for
flush mounting

Fuse carriers

Note:

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

General information



3NA COM LV HRC fuse link



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

See [Fuse Systems](#), page 7/42



System description

You will find further information under:
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3NP50



3NP52



3NP54

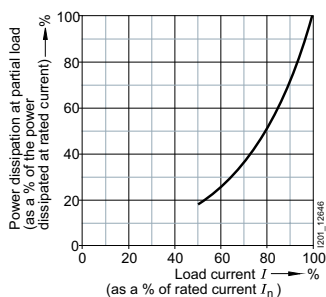
The 3NP5 fuse switch disconnector is an extremely robust device for extreme operating conditions. The fuse carrier has a pretensioned spring that prevents accidental, slow closure. All 3NP5 are designed for mounting on a mounting plate. Size NH00 is also available in versions for 40 mm busbar systems.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

8



Suitable fuses

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



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



Types of mounting	Auxiliary switches	Flat terminals			
		NH00	NH1	NH2	NH3
		$I_u = 160 \text{ A}$	$I_u = 250 \text{ A}$	$I_u = 400 \text{ A}$	$I_u = 630 \text{ A}$
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
	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
	1 NO + 1 NC	3NP5065-1EF26	–	–	–
Electronic fuse monitoring with 1 NO + 1 NC as a signaling contact					
Floor mounting	1 NO + 1 NC	3NP5060-0HA13	3NP5260-0HA13	3NP5360-0HA13	3NP5460-0HA13
	1 NO + 1 NC	3NP5065-1HF13	–	–	–

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		Article No.				
	Version	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		Article No.				
	Color	Version	Dimensions				
	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		Article No.				
	Color	Version	Dimensions				
	Gray	Flat	215 × 135 mm	3NY1105	■		
	Black	Flat	290 × 135 mm	3NY1106	■		
	Angled	265 × 135 mm	3NY1107	■			
	Flat, with additional bending edges	290 × 135 mm	3NY1108	■			

Accessories

			NH00	NH1	NH 2	NH3
Auxiliary switches						
	Version	Article No.				
	1 NO + 1 NC, including mounting kit	3NY3033	■			
		3NY3034		■	■	■
Arc chutes						
	<ul style="list-style-type: none"> 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			■	
	3NY1104				■	
Fuse carriers						
	Version	Article No.				
	Without fuse monitoring	3NY1074	■			
		3NY1371		■		
		3NY1372			■	
		3NY1373				■
	With electromechanical fuse monitoring by circuit breakers, signaling contact 1 NO + 1 NC, without connecting cable	3NY1420	■			
		3NY1421		■		
		3NY1422			■	
		3NY1423				■
	With electromechanical fuse monitoring, signaling contact 1 NO + 1 NC, without connecting cable	3NY1513-0	■			
		3NY1513-2		■		
		3NY1513-3			■	
	3NY1513-4				■	
Connectors and connecting cables						
	Version	Length	Article No.			
	For electromechanical fuse monitoring	1 m	3NY1910	■	■	■
		3 m	3NY1911	■	■	■
	For electronic fuse monitoring	3 m	3NY1915	■	■	■

3NJ4 fuse switch disconnectors

System overview

1-pole switchable



Standard

For integratable
current transformers

3-pole switchable



Standard

For integratable
current transformersWith electronic
fuse monitoring

8

Accessories



Covers

Adapters on
busbar systemsMounting and
assembly elementsBusbar connection
assembly kits

Fuses

Current
transformers

Note:

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

General information



3NA COM LV HRC fuse link



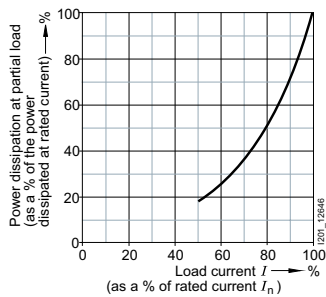
The new the 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See [Fuse Systems](#), page 7/42



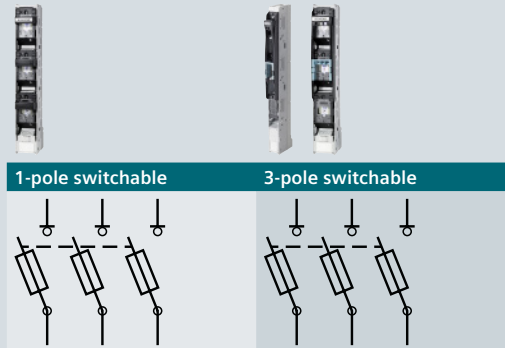
Suitable fuses

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



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

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.

3NJ4 fuse switch disconnectors

Accessories

Covers



- Additional touch protection when using cable lugs and as spacer

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

Blanking covers



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

Lateral masking frame supports



- 3 clips with T profile

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

Fixing clips



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

Unequipped section covers



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

Adapters for screw fixing on busbar systems



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

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

Adapters for screw fixing on busbar systems



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

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

Fixing screws

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

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











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)							
■ 2)	■ 2)							
■ 2)	■ 2)							
		■	■	■	■	■	■	■
				■	■	■	■	■
■	■							
■	■	■	■	■	■	■	■	■
		■	■	■				
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■
■	■							
	■							
	■							

3NJ4 fuse switch disconnectors

Accessories

Busbar supports		
	<ul style="list-style-type: none"> For screwing on the busbars 	
Version	For 100 and 185 mm busbar center-to-center spacing	Article No. 3NJ5974-0AB
Grounding kit		
	<ul style="list-style-type: none"> With connecting cable 25 mm² 	
Version		Article No. 3NJ4910-1AA00
Busbar terminals		
	<ul style="list-style-type: none"> Not for devices with transformer installation 	
Version	For each fuse switch disconnector, 3 units are required For more rapid mounting of the switch disconnectors onto the busbars (1 set = 3 units)	Article No. 3NJ4911-3AA00 3NJ4911-3BA01
Saddle terminals		
	<ul style="list-style-type: none"> 1 set = 3 units 	
Connection	Cu 1.5 ... 70 mm ²	Article No. 3NJ4911-4AA00
Prism terminal assembly kits		
	<ul style="list-style-type: none"> 1 set = 3 units 	
Connection	Al/Cu 10 ... 70 mm ²	Article No. 3NJ4911-1AA00
Box terminal assembly kits		
	<ul style="list-style-type: none"> For connection to version with flat connector 1 set = 3 units 	
Connection	Al/Cu 95 ... 240 mm ²	Article No. 3NJ4911-2BQ00
Auxiliary switch mounting kits		
	<ul style="list-style-type: none"> For 3-pole switchable switch disconnectors only 	
Version	For NH00 ... NH3 with connecting cables	Article No. 3NJ4913-1AA01
Contacts	1 CO	
Mounting hook		
	<ul style="list-style-type: none"> 1 per in-line disconnector required 	
Version		Article No. 3NJ4918-1AA00
Distance compensation		
	<ul style="list-style-type: none"> For NH00 For fuse switch disconnectors, with integratable current transformers if no current transformer is built in 	
Version		Article No. 3NJ4915-1BA00 3NJ4915-2BA00
Terminal strips		
		Article No. 3NJ4915-1CA00

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

3NJ4 fuse switch disconnectors

Accessories

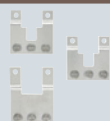
Busbar connection assembly kits for NH2 and NH3



- 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× 185 mm ²	3NJ4911-6AA00
	4× 240 mm ²	3NJ4911-6BA00

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

Fuses NH3



- Minimum order quantity 3 units

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

Isolating blades NH3

Rated 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	5.0 VA	3NJ4915-2HB20
500/5 A	0.5	2.5 VA	3NJ4915-2JB10
	1	5.0 VA	3NJ4915-2JB20
600/5 A	0.5	2.5 VA	3NJ4915-2KB10
	0.5 calibrated	2.5 VA	3NJ4915-2KB11
	1	5.0 VA	3NJ4915-2KB20

5SG76 fuse switch disconnectors

System overview

MINIZED fuse switch disconnectors



1P



1P+N



2P



3P



3P+N



		Number of poles				
		1P	1P+N	2P	3P	3P+N
Size of fuse	Rated current I_n	Mounting width 1 MW	Mounting width 2 MW	Mounting width 2 MW	Mounting width 3 MW	Mounting width 4 MW
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:

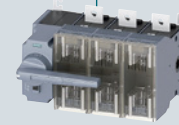
No NEOZED adapter sleeves are required for this type series

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			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



1 1 1 2 2 3 4 5 5 00 00 00 00 1 2 3 3 5SG71. 5SG7230 5SG7234.

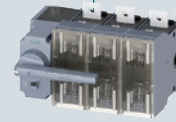
									3KF SITOR				3NJ63				5SG7			
32	63	80	125	160	250	400	630	800	-	-	-	-	-	-	-	-	63	63	63	
000 and 00					0 and 1	1 and 2	2 and 3		000 and 00				1	1 and 2	2 and 3	D02	D02	D02		
					690					500 ... 690				690	230 ... 690	400, 415	400	400		
					220					230 ... 440				230 ... 440	-	130	110	-		
					440									-	-	-	-	-	-	
					-									-	-	-	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 _{eff}							-	-	-		
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		-	-	-	-	-	-	-	-	-

More information

Technical specifications

[See page 8/126](#)

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 8/118									See page 8/134									See page 8/142		
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

Additional poles



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



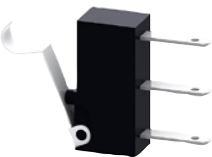
Handles for door-coupling rotary operating mechanisms



Other accessories for door-coupling rotary operating mechanisms



Other accessories and spare parts



Auxiliary switches



Fuse monitoring



Terminal covers



Mounting elements



Fuse covers

Note:

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

General information



3NA COM LV HRC fuse links

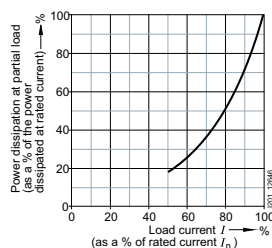


The new the 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

See [Fuse Systems](#), page 7/42



Suitable fuses



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

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

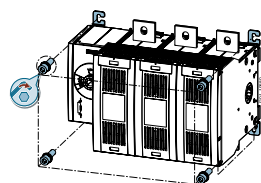


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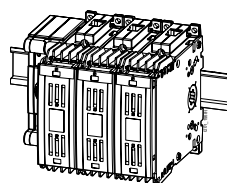
Types of mounting

Floor mounting



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

Standard mounting rail



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

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



3KF switch disconnectors with fuses

General information

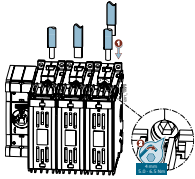


Electrical connection

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

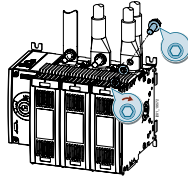


Box terminals



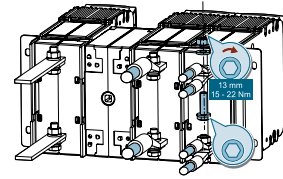
The box terminals for size 1 (32 A ... 80 A) are designed to allow the rapid connection of stripped conductors.

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

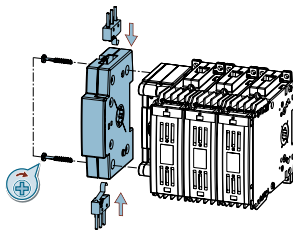


Auxiliary switch modules and auxiliary switches

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

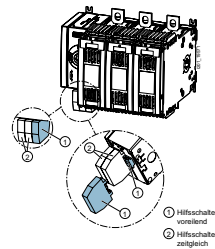


Size 1



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

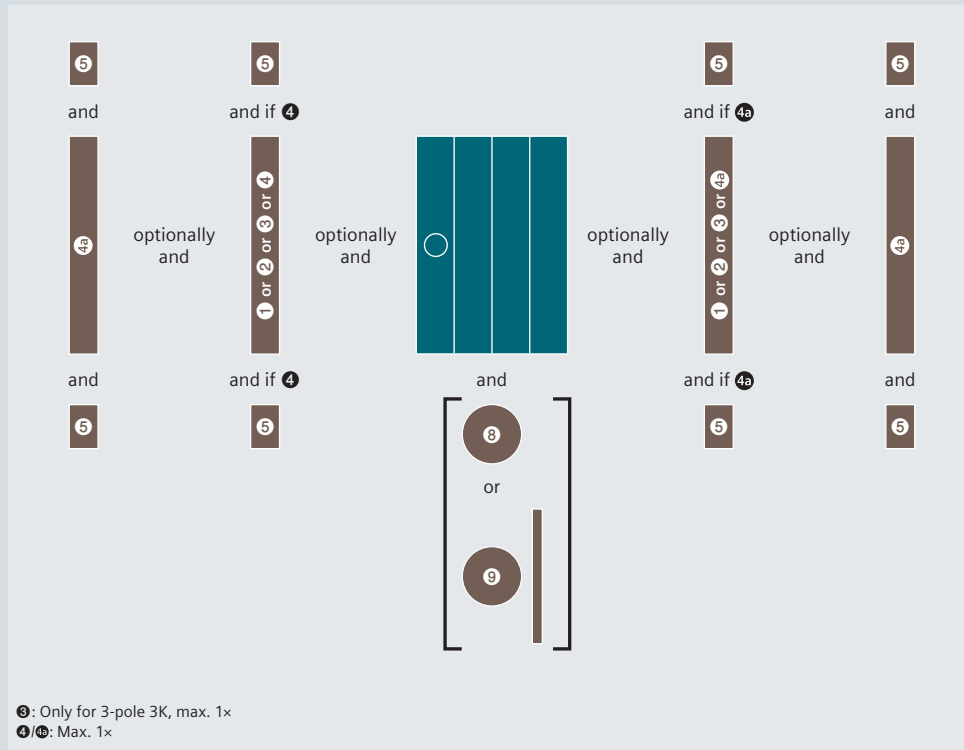


For sizes 2 ... 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts. Auxiliary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

3KF switch disconnectors with fuses

Mounting concept and accessories 3KF

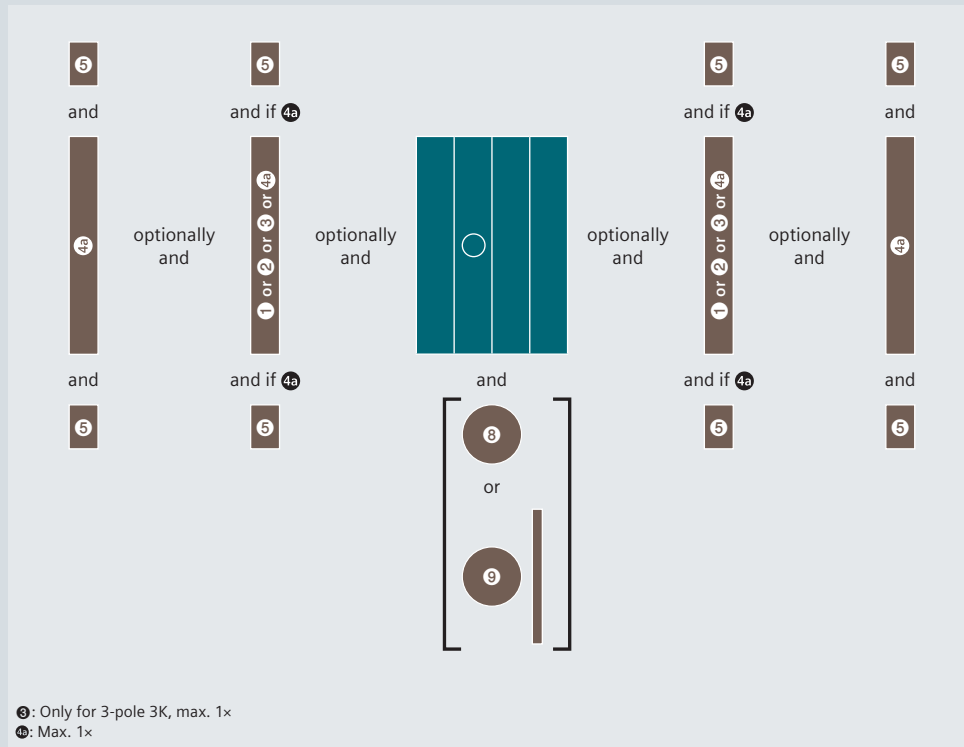
Front operating mechanism left, size 1, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④ Auxiliary switch module, leading, with test function
- ④a Auxiliary switch module for auxiliary switches
- ⑤ Auxiliary switch
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

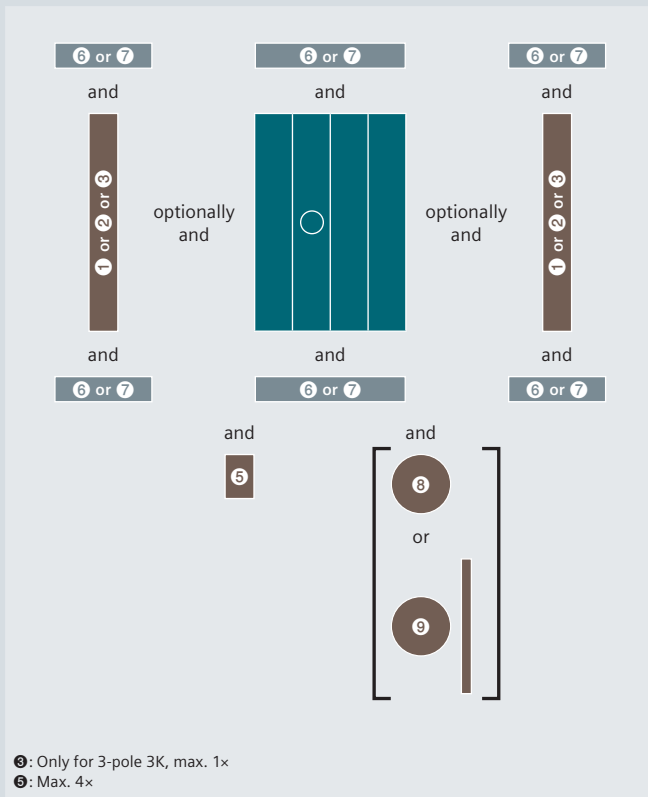
Front operating mechanism right, size 1, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④a Auxiliary switch module for auxiliary switches
- ⑤ Auxiliary switch
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

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



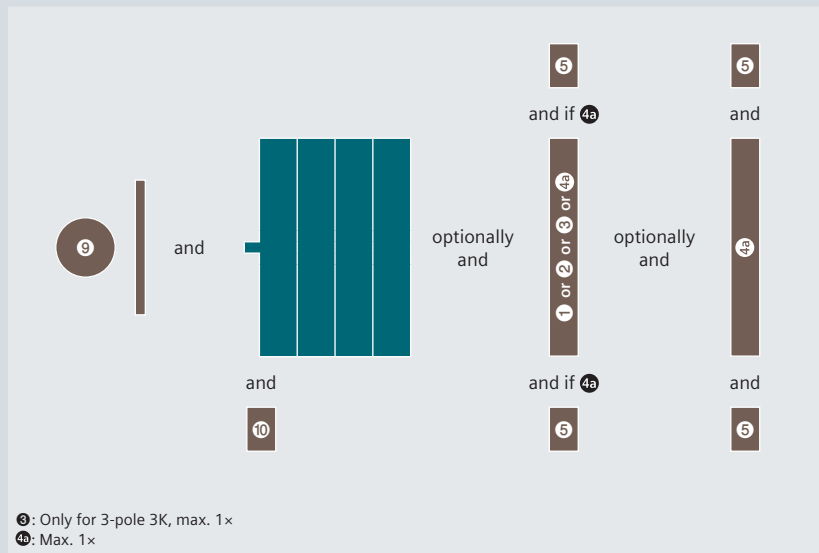
Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

3KF switch disconnectors with fuses

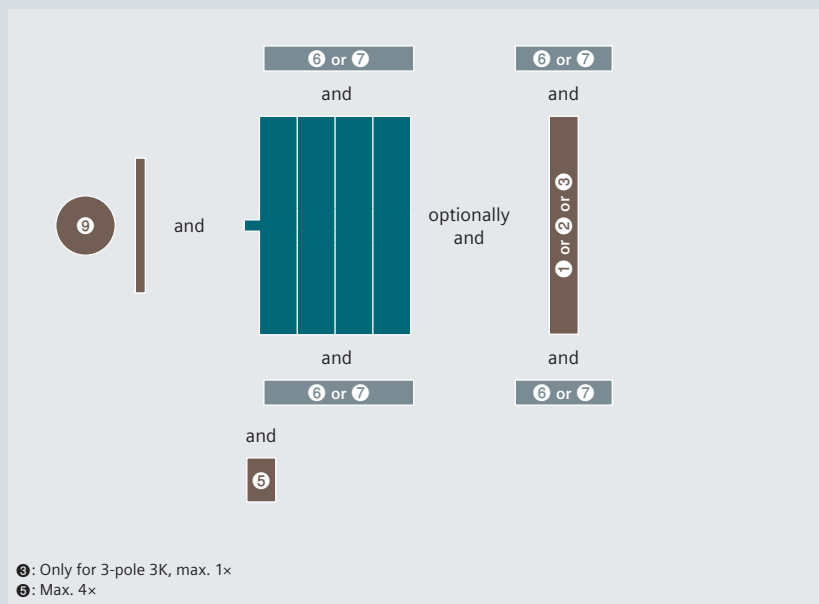
Mounting concept and accessories 3KF

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

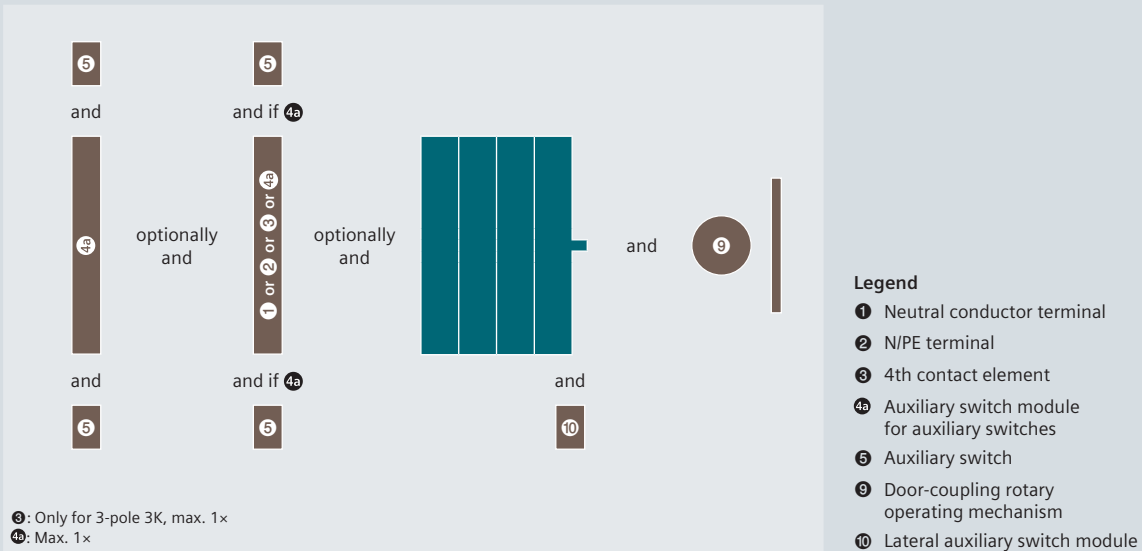


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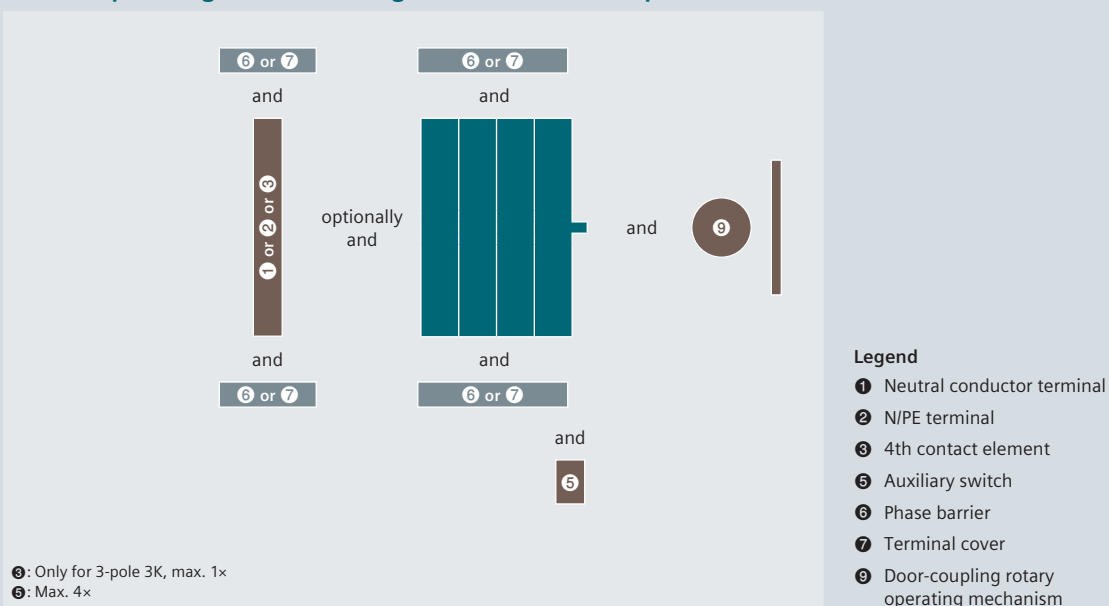
Lateral operating mechanism left, sizes 2 to 5, 3/4-pole



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 disconnector



Number of poles	Complete units with direct operating mechanisms Front operating mechanisms, left		Basic units without handle Front operating mechanisms, left		Front operating mechanism, center	
	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

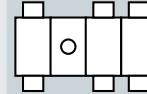
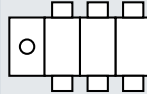
Front operating mechanism
Left

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	–	3KF2312-0MF51
	160 A	–	3KF2316-0MF51
3	250 A	–	3KF3325-0MF51
4	400 A	–	3KF4340-0MF51
5	630 A	–	3KF5363-0MF51
	800 A	–	3KF5380-0MF51

Note:


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


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


Additional poles

Note:

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

			Size 1	Size 2	Size 3	Size 4	Size 5
4th contact element (switching pole) for 3KF LV HRC							
	Connection	Article No.					
	Box terminals	3KF9105-2AA00	■				
	Flat terminals at rear	3KF9105-1AA00	■				
		3KF9205-1AA00		■			
	Flat terminals	3KF9205-0AA00		■			
		3KF9305-0AA00			■		
		3KF9405-0AA00				■	
	3KF9505-0AA00					■	

			Size 1	Size 2	Size 3	Size 4	Size 5
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					■

			Size 1	Size 2	Size 3	Size 4	Size 5
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					■	

			Size 1	Size 2	Size 3	Size 4	Size 5
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					
	Can be locked with up to 3 padlocks	Gray	■				
				■			
					■		
						■	
							■
		Red/yellow	■				
				■			
					■		
						■	
							■
							■
							■
							■

3KF switch disconnectors with fuses

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

Operating mechanisms

Size 1 Size 2 Size 3 Size 4 Size 5

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



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

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



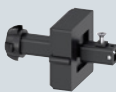


Handles, for 3KF LV HRC and 3KF SITOR

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





Labeling	Lighting	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5			
O – I	Without	Gray	8UD1771-2AD01	■							
			8UD1841-2AD01		■	■					
			8UD1851-3AD01				■				
		Red/yellow	8UD1861-4AD01						■		
			8UD1771-2AD05	■							
			8UD1841-2AD05		■	■					
			8UD1851-3AD05				■				
			8UD1861-4AD05						■		
			8UD1771-2CD01	■							
	With	Gray	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							■				
Red/yellow	8UD1861-4AF01								■		
	8UD1771-2AF05	■									
	8UD1841-2AF05				■	■					
	8UD1851-3AF05						■				
	8UD1861-4AF05								■		
	8UD1771-2CF01	■									
With	Gray	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	8UC6023	8UC6024		
	10 × 10 mm					
	12 × 12 mm					

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Other 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	3KD9103-6	3KD9103-7		
	With test function					
	With leading NO and test function					
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

Other 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 screw terminals and are mounted on the operating mechanism module of the 3KF. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.
- 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




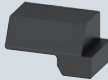






Version	Scope of supply	Type	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For 3-pole devices	6 units	Standard version	3KF9204-6 new		■			
			3KF9304-6			■		
			3KF9404-6 new				■	
		Short version	3KD9504-6					■
			3KF9204-7			■		
			3KF9304-7				■	
For 4-pole devices	8 units	Standard version	3KF9404-7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

Other accessories and spare parts

				Size 1	Size 2	Size 3	Size 4	Size 5
Spare part for terminal covers (N and N/PE terminal), for 3KF HRC								
	Scope of supply	Type	Article No.					
	1 unit	Standard version	3KD9504-1					■
		Short version	3KD9304-1		■			
	6 units	Standard version	3KD9404-1 new			■	■	
			3KD9304-6		■			
		3KD9404-6 new			■	■		
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 							
	Scope of supply	Article No.						
	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 							
	Connection	Article No.						
	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					■	
Phase barriers, for 3KF LV HRC and 3KF SITOR								
	Version	Scope of supply	Article No.					
	For mounting on standard mounting rail	5 units	3KF9112-0BA00	■				
Fuse covers, for 3KF LV HRC								
	Connection	Article No.						
	Box terminals, flat terminals	3KF9112-OCA00	■					
		3KF9212-OCA00		■				
		3KF9312-OCA00			■			
		3KF9412-OCA00				■		
		3KF9512-OCA00					■	
	Flat terminals at rear	3KF9212-OCB00		■				
NH000 NH00 NH1 NH2 NH3								
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



For BS fuses

Accessories



Connection terminals and covers



Auxiliary switches



Current transformers



Ammeters



Guide rails

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Note:

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

General information



3NA COM LV HRC fuse link **new**



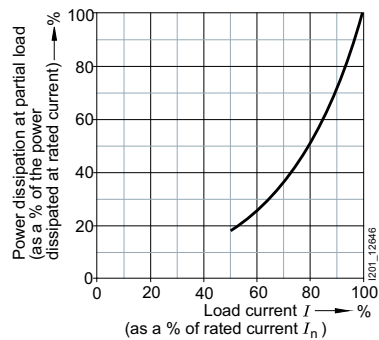
The new the 3NA COM LV HRC fuse links with communication and measuring function make your products communication-capable.

[See Fuse Systems, page 7/42](#)



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		-	A		0					
Size and type of fuse	LV HRC fuse	00	160 A	0								
		1	250 A	1								
		2	400 A	2								
		3	630 A	3								
Number of poles	2-pole		2									
	3-pole		3									
	4-pole ¹⁾		4									
Breaking capacity	AC-22B	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⁾ 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



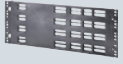




				NH00	NH1	NH2	NH3
Terminals							
	Type		Article No.				
	For 2/3-pole devices		3NJ6923-1BA00	■			
			3NJ6933-1BA00		■		
			3NJ6943-1CA00			■	■
	For 4-pole devices		3NJ6924-1BA00	■			
			3NJ6934-1BA00		■		
		3NJ6944-1CA00			■	■	
Terminal covers							
	Type	Version	Article No.				
	For 2/3-pole devices	–	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	–	3NJ6920-3FB00	■			
			3NJ6930-3FB00		■		
			3NJ6940-3FB00			■	■
	EFM 20	With line monitoring for AC networks	3NJ6920-3FC00	■			
			3NJ6930-3FC00		■		
			3NJ6940-3FC00			■	■
	EFM 25	–	3NJ6920-3FE00	■			
			3NJ6930-3FE00		■		
		3NJ6940-3FE00			■	■	
Auxiliary switches							
	Contacts	Version	Article No.				
	1 NO	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.				
	50 A/1 A	1	1 VA	Ø 21 mm	3NJ6920-3BB11	■	■		
	50 A/5 A	1	1 VA	Ø 21 mm	3NJ6920-3BB21	■	■		
	100 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BD11	■	■		
		0.5	1.5 VA	Ø 21 mm	3NJ6920-3BD12	■	■		
		0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BD13	■			
	100 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BD21	■	■		
		0.5	1.5 VA	Ø 21 mm	3NJ6920-3BD22	■	■		
		0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BD23	■			
	150 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BE11	■	■		
		0.5	1.5 VA	Ø 21 mm	3NJ6920-3BE12	■	■		
		0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BE13	■			
	150 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BE21	■	■		
		0.5	1.5 VA	Ø 21 mm	3NJ6920-3BE22	■	■		
		0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BE23	■			
	200 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF11		■		
		0.5	3.75 VA	Ø 21 mm	3NJ6930-3BF12		■		
		0.5 calibrated new	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 new	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 new	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 new	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.					
	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.						
	For ammeters	3NJ6900-4GA00	■	■		■		
Ammeters								
	Type	Version	Rated current I_e	Article No.				
	Moving-iron measuring instruments	For measurements on transformer x/1 A with double overload	50 A/1 A	3NJ6900-4HB11	■	■		
			100 A/1 A	3NJ6900-4HD11	■	■		
			150 A/1 A	3NJ6900-4HE11	■	■		
			200 A/1 A	3NJ6900-4HF11		■		
			250 A/1 A	3NJ6900-4HG11		■		
			300 A/1 A	3NJ6900-4HH11			■	■
			400 A/1 A	3NJ6900-4HJ11			■	■
			500 A/1 A	3NJ6900-4HK11			■	■
			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.				
	3NJ6303-1AA...	With LV HRC fuse	3NJ6923-4BB00	■			
	3NJ6313-1AA...	With LV HRC fuse	3NJ6933-4BB00		■		
	3NJ6323-1AA...	With LV HRC fuse	3NJ6943-4BB00			■	■
	3NJ6333-1AA...	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		XPT:8PT9624	■	■	■	■
	For NH1, NH2, NH3		XPT:8PT9625	■	■	■	■
Locking devices for padlocks							
			Article No.				
			3NJ6900-4LL	■	■	■	■

5SG switch disconnectors with fuses

System overview

MINIZED switch disconnectors with fuses



1P



3P

NEOZED bus-mounting switch disconnectors



3P



3P, with terminals

Accessories



Auxiliary switches



Lateral modules



Reducers

Note:

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



Number of poles		1P	1P+N	2P	3P	3P+N	
Size of fuse	Rated current I_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 ⁴⁾	–	–
NEOZED bus-mounting switch disconnectors, with LED signal detector							
D02	63 A	–	–	–	5SG7234-2 ⁵⁾	–	–

¹⁾ Using draw-out technology 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 products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as „T&C“). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

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

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- for consulting services the „Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland“ (available only in German) and/or
- for other services, the „Supplementary Terms and Conditions for Services (‘BL’)¹⁾ and/or
- for other supplies the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾.

In case such supplies 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⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

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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 of the Division DF for Customers with a Seat or Registered Office Outside of Germany“¹⁾ and/or
- for other services the „International Terms & Conditions for Services“¹⁾ supplemented by „Software Licensing Conditions“¹⁾ and/or
- for other supplies of hard- and software 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 our supplies and/or services 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

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Link directory

Catalog LV 10

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Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
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LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and
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PDF (E86060-K8280-A101-B4-7600)



LV 14 Power Monitoring Made Simple SENTRON

PDF (E86060-K1814-A101-A8-7600)



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

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Published by
Siemens AG

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

Smart Infrastructure
Electrical Products
Siemensstraße 10
93055 Regensburg, Germany

100 Technology Drive
Alpharetta, GA 30005
United States

PDF (Catalog Extract E86060-K8280-A101-B4-7600)
KG 1021 150 En
Produced in Germany
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