SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

Switch Disconnectors

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Catalog Extract LV 10

Edition 2025

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Catalog LV 10 · 2025

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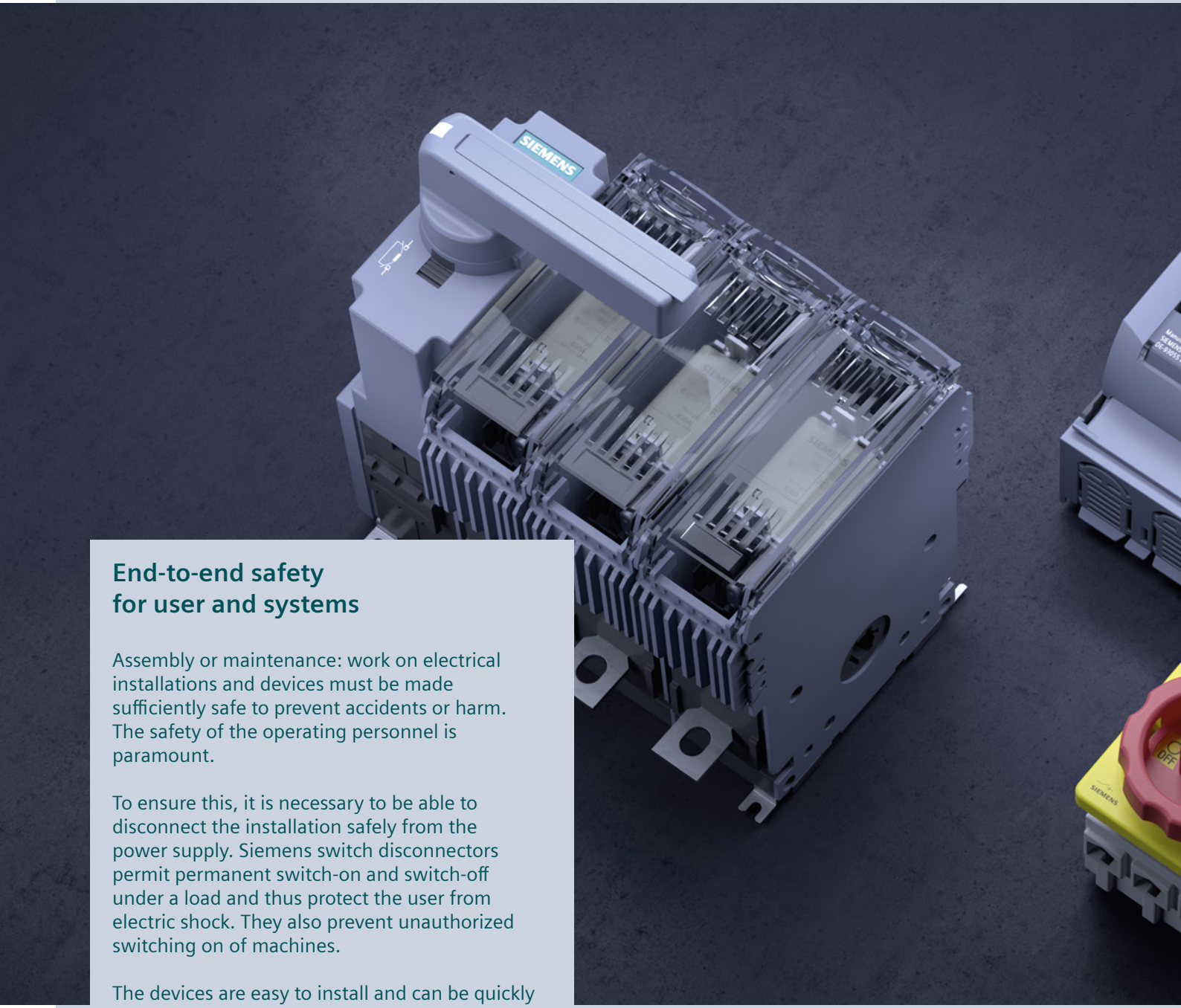
www.siemens.com/lowvoltage/product-catalog

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

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

All illustrations are not binding.

Low-Voltage Power Distribution and Electrical Installation Technology



End-to-end safety for user and systems

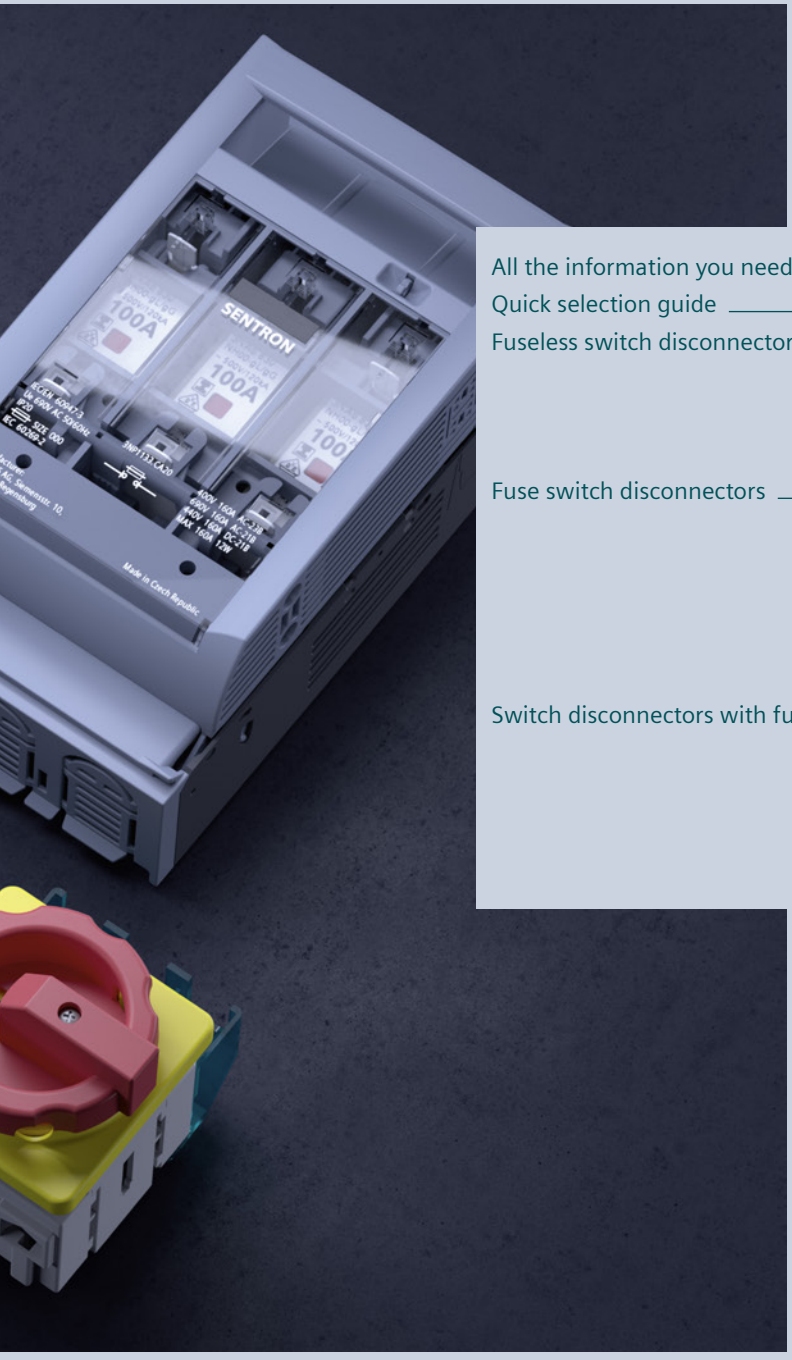
Assembly or maintenance: work on electrical installations and devices must be made sufficiently safe to prevent accidents or harm. The safety of the operating personnel is paramount.

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

The devices are easy to install and can be quickly put into operation. Additional functions can be retrofitted at any time – thanks to the modular design of the devices and a comprehensive range of accessories.

Convenient ordering processes and fast delivery optimize stock-keeping and save you time and money. You can also make use of our CAx data for automated, simplified planning and configuring.

Switch Disconnectors



A multitude of additional information ...

Information + ordering

All the important things at a glance

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

Your product in detail

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

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

Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations.
Configure your switch disconnector at
www.siemens.com/lowvoltage/3nj63-configurator
www.siemens.com/lowvoltage/3ld-configurator
www.siemens.com/lowvoltage/3kd-configurator
your 3KF switch disconnector with fuses at
www.siemens.com/lowvoltage/3kf-configurator
and your 3NP1 fuse switch disconnector at
www.siemens.com/lowvoltage/3np1-configurator

Choose the right fuse systems for your application
www.siemens.com/lowvoltage/fusesystems-configurator

Everything you need for your order

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

- Switch disconnectors **sie.ag/36HDiZp**

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

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

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

Smart Control Panel Design

With the Smart Control Panel Design in the TIA Selection Tool, it is possible to design and dimension the electrical equipment of a machine in conformity with the standards – from the suitable switching devices to the correctly dimensioned cables
www.siemens.com/controlpanel/cpd

The fast track to the experts

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

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

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

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

… can be found in our online services

Commissioning + operation

Your product in detail

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

- Operating instructions
- Certificates

Online Support app available for download from the **App Store** and **Play Store**
You will find further information at
http://www.siemens.com/support-app

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

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

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

Manuals

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

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

Technical overview – Switch disconnectors

The fast way to get you to our online services

This page provides you with comprehensive information and links on switch disconnectors
www.siemens.com/lowvoltage/product-support (109764946)

Quick selection guide

Load switching devices for all applications

Fuseless switch disconnectors [3]

Functional switching [1]





	Type	3LD3	3LD2	3LD5 UL	3KD	3VA
	Uninterrupted current I_u	16 ... 63 A	16 ... 250 A	30 ... 160 A	16 ... 2000 A	63 ... 630 A
	Short-circuit current max.	10 kA	50 kA	50 kA	100 kA	110 kA [5]
Selection acc. to utilization category	**AC max.**	AC-3	AC-3	AC-3	AC-23A	AC-23A
	DC max.	–	DC-22A	–	DC-23A	DC-23A (up to 250 A)
	Suitable fuses	–	–	–	–	–
Types of mounting	**Floor mounting**	■	■	■	■	■
	Mounting on a DIN rail	■	■ (up to 125 A)	■ (up to 63 A)	■ (up to 250 A)	■ (up to 160 A)
	Front mounting	■	■	■	–	–
	Mounting on busbar systems (spacing of the busbars)	–	–	–	–	■
	Draw-out technology	–	–	–	–	■
Methods of operation	**Manual from the front**	■	■	■	■	■
	Manual from the side	–	–	–	■	■
	Remote-controllable	–	–	–	–	■
Number of poles	**1-pole**	–	–	–	–	–
	2-pole	–	–	–	–	–
	3-pole	■	■	■	■	■
	4-pole	■	■	■	■	■
	6-pole	–	■	–	■	–
Switching function	**All poles**	■	■	■	■	■
	Individual poles switchable	–	–	–	–	–

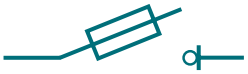
Further information From page 8/6 From page 2/1

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

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

[3] Pure switching without protection function

Fuse switch disconnectors [4]



Occasional switching [2]

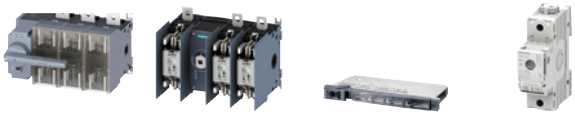
3NP1	3NP5	3NJ4	5SG76
160 ... 630 A	160 ... 630 A	160 ... 1600 A	16 A
120 kA	100 kA	120 kA	50 kA
AC-23B	AC-23B	AC-23B	AC-22A
DC-23B	DC-23B	–	–
IEC NH	IEC NH	IEC NH	NEOZED
■	■	–	–
■	–	–	■
–	–	–	–
40/60 mm	40/60 mm	60/100/185 mm	–
–	–	–	–
■	■	■	■
–	–	–	–
–	–	–	–
■	–	–	■
■	–	–	■
■	■	■	■
■	–	–	■
–	–	–	–
■	■	■	■
–	–	■	–

From page 8/76

Switch disconnectors with fuses [4]

Functional switching [1]

Occasional switching [2]



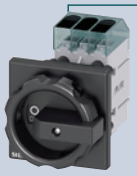
3KF NH	3KF SITOR	3NJ63	5SG71/72
32 ... 800 A	32 ... 800 A	63 ... 630 A	63 A
100 kA	100 kA	100 kA	50 kA
AC-23A	AC-23A	AC-23B	AC-23A
DC-23A	DC-23A	DC-23B	DC-22B
IEC NH	IEC LV HRC, optimized for semiconductor protection	IEC NH	NEOZED
■	■	–	–
■	■	–	–
–	–	–	–
–	–	185 mm	60 mm
–	–	■	–
■	■	■	■
■	■	–	–
–	–	■	–
–	–	–	■
–	–	■	■
■	■	■	■
■	■	■	■
–	–	–	–
■	■	■	■
–	–	–	–

From page 8/110

[4] The suitable fuses protect persons, motors, installations and generators against short circuit and overload
[5] With a line-side fuse for 415 V

Fuseless switch disconnectors

Quick selection guide



Type			3LD30	3LD31	3LD32	3LD33	3LD34	3LD20	3LD21	3LD22
General technical specifications acc. to IEC 60947-3										
General technical specifications										
Rated uninterrupted current I_u		A	16	25	32	40	63	16	25	32
Rated operational voltage U_e	At 50/60 Hz AC	V			690				690	
	At DC – 2 conducting paths in series	V			–				–	
	At DC – 3 conducting paths in series	V			–				–	
	At DC – 4 conducting paths in series	V			–				–	
Operating and short-circuit behavior										
Rated operational current I_e [1]	At AC-20A | AC-20B at 1000 V	A	–	–	–	–	–	–	–	–
	At AC-21A | AC-21B at 400 V	A	16	25	32	40	63	16	25	32
	At AC-21A | AC-21B at 690 V	A	16	25	32	40	63	16	25	32
	At AC-22A | AC-22B at 400 V	A	16	20	22	36	43	16	25	32
	At AC-22A | AC-22B at 690 V	A	9	11	13	17	22	16	25	32
	At AC-22A | AC-22B at 1000 V	A	–	–	–	–	–	–	–	–
	At AC-23A | AC-23B at 400 V	A	16	20	22	36	43	16	20	22
	At AC-23A | AC-23B at 690 V	A	9	11	13	17	22	9	11	13
	At DC-20A | DC-20B at 1000 V	A	–	–	–	–	–	–	–	–
	At DC-21A | DC-21B at 110 V	A	–	–	–	–	–	–	–	–
	At DC-21A | DC-21B at 220 V	A	–	–	–	–	–	–	–	–
	At DC-21A | DC-21B at 440 V	A	–	–	–	–	–	–	–	–
	At DC-22A | DC-22B at 220 V	A	–	–	–	–	–	–	–	–
	At DC-22A | DC-22B at 440 V	A	–	–	–	–	–	–	–	–
	At DC-23A | DC-23B at 220 V	A	–	–	–	–	–	–	–	–
	At DC-23A | DC-23B at 440 V	A	–	–	–	–	–	–	–	–
Motor switching capacity	At AC-23A | AC-23B at 400 V	kW	7.5	9.5	11.5	18.5	22	7.5	9.5	11.5
	At AC-23A | AC-23B at 690 V	kW	7.5	9	11.5	15	18.5	7.5	9.5	11.5
	At AC-3 | at 400 V	kW	5.5	7.5	9.5	11.5	18.5	5.5	7.5	9.5
	At AC-3 | at 690 V	kW	5.5	7.5	9.5	11.5	15	5.5	7.5	9.5
Rated short-time withstand current I_{cw}	At 690 V AC (t = 1 s)	kA	0.5	0.5	0.5	1	1	0.34	0.64	0.64
	At 1000 V AC (t = 1 s)	kA	–	–	–	–	–	–	–	–
Rated conditional short-circuit current with upstream fuse	At 400/415 V AC	kA	10	10	10	10	10	50	50	50
	At 690 V AC	kA	6	6	6	6	6	50	50	50
Degree of protection										
Maximum achievable IP degree of protection (with a rotary operating mechanism)					IP65				IP65	
General technical specifications acc. to UL										
General technical specifications										
Certification according to UL standard					UL 508				UL 508	
I_n acc. to UL 508/UL 60947-4-1 | UL 489		A	16 | –	25 | –	32 | –	40 | –	63 | –	16 | –	25 | –	32 | –
U_e acc. to UL 508/UL 60947-4-1 | UL 489		V AC			600 | –				600 | –	
Operating and short-circuit behavior										
Operational power, 3-phase	At 480 V	hp	7.5	10	20	20	25	7.5	10	20
	At 600 V	hp	10	15	20	20	30	10	15	20
Short circuit current rating (SCCR)	At 480 V | at 600 V	kA			5 | 5			5 | 5	5 | 5	5 | 5
Upstream fuse according to UL					RK5				RK5	
Further information										
					See page 8/12				See page 8/22	

3LD2

3LD5 UL

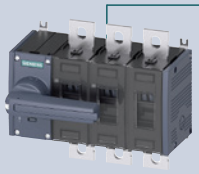
3LD25	3LD27	3LD28	3LD23	3LD24	3LD50	3LD52	3LD54	3LD56	3LD58
63	100	125	160	250	32	63	100	125	160
		690					690		
		–					–		
		–					–		
		–					–		
–	–	–	–	–	–	–	–	–	–
63	100	125	160	250	32	63	100	125	160
63	100	125	160	250	32	63	100	125	160
63	100	125	140	230	32	63	100	125	160
63	100	125	140	230	32	63	100	125	160
–	–	–	–	–	–	–	–	–	–
43	70	80	132	224	32	63	100	125	160
22	34	39	47	58	22	39	39	47	58
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
22	37	45	75	132	15	30	45	55	75
18.5	30	37	45	55	18.5	37	37	45	55
18.5	30	37	50	110	15	30	45	55	75
15	22	30	37	45	–	–	30	37	45
1.26	2	2	4	4	1.26	2	4	4	4
–	–	–	–	–	–	–	–	–	–
50	50	25	50	50	50	50	50	50	50
50	50	25	50	50	50	50	50	50	30
		IP65					IP65		
		UL 508					UL 60947-4-1/UL 489		
63 | –	100 | –	125 | –	160 | –	250 | –	30 | 30	60 | 60	100 | 100	125 | 125	150 | 150
		600 | –					480 | 480		
40	60	75	75	100	20	30	60	75	100
50	75	100	50	75	–	–	–	–	–
5 | 5	10 | 10	10 | 10	10 | 10	10 | 10	50 | –	65 | –	65 | –	65 | –	50 | –
		RK5			J | CC	J	J	J	J
		See page 8/22					See page 8/52		

8

Fuseless switch disconnectors

Quick selection guide for AC and AC/DC applications

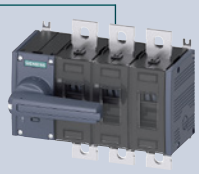
3KD



Type			3KD 16	3KD 22	3KD 26	3KD 28..–M.	3KD 28..–N	3KD 30..–M.	3KD 30..–N.	3KD 32	3KD 34	3KD 36..–.N
General technical specifications acc. to IEC 60947-3												
General technical specifications												
Rated uninterrupted current I_u		A	16	32	63	80	80	100	100	125	160	200
Rated operational voltage U_e	At 50/60 Hz AC	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	At DC – 2 conducting paths in series	V	220	220	220	220	220	220	220	220	220	220
	At DC – 3 conducting paths in series	V	440	440	440	440	440	440	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	80	100	100	125	160	200
	At AC-21A | AC-21B at 400 V	A	16	32	63	80	80	100	100	125	160	200
	At AC-21A | AC-21B at 690 V	A	16	32	63	80	80	100	100	125	160	200
	At AC-22A | AC-22B at 400 V	A	16	32	63	80	80	100	100	125	160	200
	At AC-22A | AC-22B at 690 V	A	16	32	63	80	80	100	100	125	160	160
	At AC-22A | AC-22B at 1000 V	A	16	32	63	80	80	80	100	125	160	160
	At AC-23A | AC-23B at 400 V	A	16	32	63	80	80	80	100	125	160	160
	At AC-23A | AC-23B at 690 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-20A | DC-20B at 1000 V	A	16	32	63	80	80	100	100	125	160	200
	At DC-21A | DC-21B at 110 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-21A | DC-21B at 220 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-21A | DC-21B at 440 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-22A | DC-22B at 220 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-22A | DC-22B at 440 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-23A | DC-23B at 220 V	A	16	32	63	80	80	80	100	125	160	160
	At DC-23A | DC-23B at 440 V	A	16	32	63	80	80	80	100	125	160	160
Motor switching capacity	At AC-23A | AC-23B at 400 V	kW	7.5	15	30	45	45	45	55	55	90	90
	At AC-23A | AC-23B at 690 V	kW	11	30	55	75	75	75	90	110	110	110
	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	3	3	3	3	4	3	4	4	4	4
	At 1000 V AC (t = 1 s)	kA	3	3	3	3	4	3	4	4	4	4
Rated conditional short-circuit current with upstream fuse	At 400/415 V AC	kA	100	100	100	100	100	100	100	100	100	100
	At 690 V AC	kA	100	100	100	100	80	100	80	80	80	80
Degree of protection												
Maximum achievable IP degree of protection (with a rotary operating mechanism)							IP65					
General technical specifications acc. to UL												
General technical specifications												
Certification according to UL standard							–					
I_n acc. to UL 508/UL 60947-4-1 | UL 489		A					–					
U_e acc. to UL 508/UL 60947-4-1 | UL 489		V AC					–					
Operating and short-circuit behavior												
Operational power, 3-phase	At 480 V	hp					–					
	At 600 V	hp					–					
Short circuit current rating (SCCR)	At 480 V | at 600 V	kA					–					
Fuse type							–					
Further information												
							See page 8/60					

[1] Applies to 415 V AC

3KD



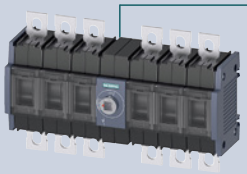
3KD 36..–.P	3KD 38..–N.	3KD 38..–P.	3KD 40	3KD 42	3KD 44..–P.	3KD 44..–Q.	3KD 46	3KD 48	3KD 50..–Q.	3KD 50..–R.	3KD 52	3KD 54	3KD 56
200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
220	220	220	220	220	220	220	220	220	220	220	220	220	220
440	440	440	440	440	440	440	440	440	440	440	440	440	440
–	–	–	–	–	–	–	–	–	–	–	–	–	–
200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
200	200	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
200	200	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
200	200	250	315	400	400	500	630	800	800	1000	1250	1600	1600
200	160	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
200	160	250	315	400	400	500	630	800	1000	1000	1250	1600	2000
200	250	250	315	400	500	500	630	800	1000	1000	1250	1600	2000
200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
200	160	250	315	400	400	500	630	800	800	1000	1250	1600	1600
200	160	250	315	400	400	500	630	800	800	–	–	–	–
200	160	250	315	400	400	500	630	800	800	–	–	–	–
200	160	250	315	400	400	500	630	800	800	–	–	–	–
200	160	250	315	400	400	500	630	800	800	–	–	–	–
110	90	132	160	200	200	250	355	400	560	560	710	900	1000
185	110	250	315	315	315	500	630	800	1000	1000	1000	1000	1000
–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
13	4	13	13	13	13	30	30	30	30	55	55	55	55
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	80	80	80
80	80	80	80	80	80	80	80	80	80	80	100	100	65
IP65													
–													
–													
–													
–													
–													
–													
–													

See page 8/60

Fuseless switch disconnectors

Quick selection guide for DC applications

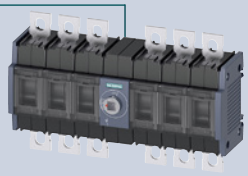
3KD



Type			3KD 16	3KD 22	3KD 26	3KD 28	3KD 30	3KD 32	3KD 34	3KD 36	3KD 38
General technical specifications acc. to IEC 60947-3											
General technical specifications											
Rated uninterrupted current I_u		A	16	32	63	80	100	125	160	200	250
Rated operational voltage U_e	At DC - at degree of pollution 2	V	1200	1200	1200	1200	1200	1200	1200	1200	1200
	At DC - at degree of pollution 3	V	1000	1000	1000	1000 [1]	1000 [1]	1000 [1]	1000 [1]	1200	1200
Operating and short-circuit behavior											
Rated operational current I_e	At DC-21A at 1200 V	A	16	32	63	80	100	125	160	–	–
	At DC-21B at 1200 V	A	16	32	63	80	100	125	160	200	250
Rated short-time withstand current I_{cw}	At 1200 V DC (t = 1 s)	kA	3	3	3	4	4	4	4	10	10
Degree of protection											
Maximum achievable IP degree of protection (with a rotary operating mechanism)			IP20								
General technical specifications acc. to UL											
General technical specifications											
Certification according to UL standard			–								
I_n acc. to UL 508/UL 60947-4-1 | UL 489		A	–								
U_e acc. to UL 508/UL 60947-4-1 | UL 489		V AC	–								
Operating and short-circuit behavior											
Operational power, 3-phase	At 480 V	hp	–								
	At 600 V	hp	–								
Short circuit current rating (SCCR)	At 480 V | at 600 V	kA	–								
Fuse type			–								
Further information											
			See page 8/60								

[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 8/60							

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3LD switch disconnectors

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

Basic units for front mounting


3P rotary operating mechanisms


3P knob-operated mechanisms


3P+N rotary operating mechanisms


3P+N knob-operated mechanisms

Basic units for floor mounting


3P rotary operating mechanisms


3P knob-operated mechanisms


3P+N rotary operating mechanisms


3P+N knob-operated mechanisms

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


3P knob-operated mechanisms (installation in distribution boards)


3P basic switches without knob-operated mechanism


3P+N knob-operated mechanisms (installation in distribution boards)


3P+N basic switches without knob-operated mechanism

Additional poles and auxiliary switches


N switching contacts


N/PE terminals


Auxiliary switches

Operating mechanisms



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




Knob-operated mechanisms for front or floor mounting


Door-coupling rotary operating mechanisms


Door-coupling knob-operated mechanisms


Door-coupling knob-operated mechanisms, defeatable

Further accessories

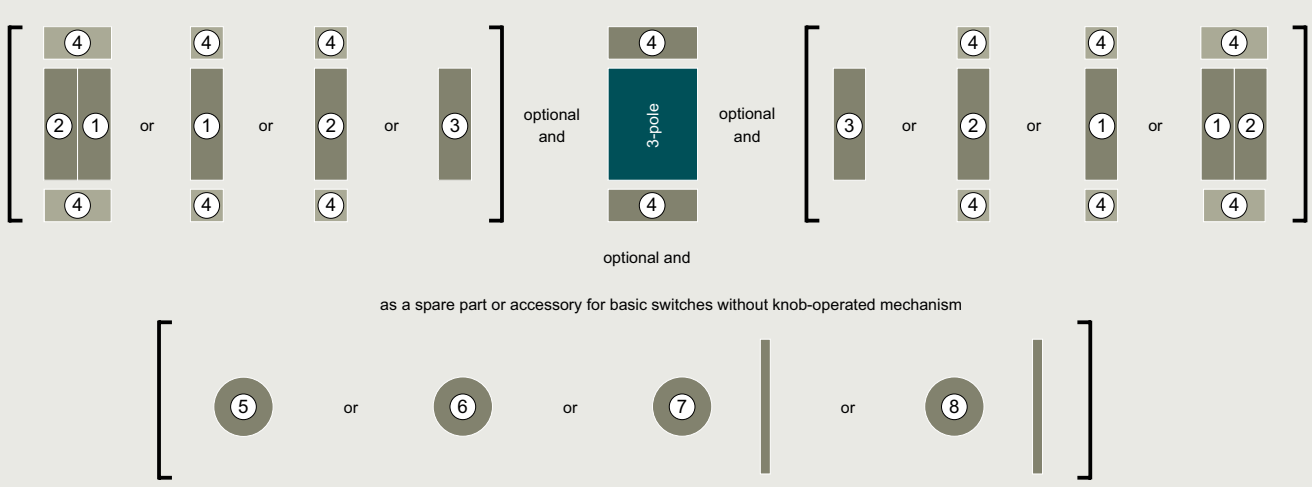


Terminal covers, 1 and 3-pole


Inscription labels

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

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)] N switching contact (1) must first be installed on the basic unit

I201_20482

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Mounting types

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

Front mounting

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

Floor mounting

The switches for floor mounting are snapped onto 35 mm DIN 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.

Distribution board mounting

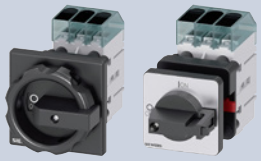
The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. They have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers. The selector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

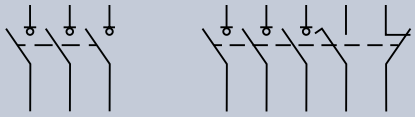
Basic switches without knob-operated mechanism

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, 10 kA_{rms}





Number of poles	Operating mechanisms, black	
	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.**					
	N switching contact (4th contact element)	Leading switch-on, lagging switch-off	3LD9340-0B	■	■	■	■	■
	N terminal	Through-type	3LD9340-2B	■	■	■	■	■
	PE terminal	Through-type	3LD9340-3B	■	■	■	■	■
Auxiliary switches								
	• NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts		**Article No.**					
	1 NO + 1 NC		3LD9340-6B	■	■	■	■	■
Rotary operating mechanisms								
	**Version**	**Color**	**Article No.**					
	Lockable in 0 position with max. 3 padlocks	Black	3LD9344-4C	■	■	■	■	■
		Red/yellow	3LD9344-5C	■	■	■	■	■
Knob-operated mechanisms								
	**Version**	**Color**	**Article No.**					
	Lockable in 0 position with max. 2 padlocks	Black	3LD9343-6C	■	■	■	■	■
		Red/yellow	3LD9343-7C	■	■	■	■	■

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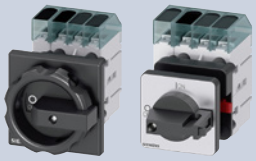
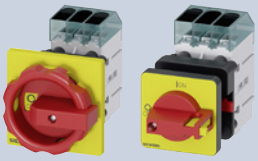
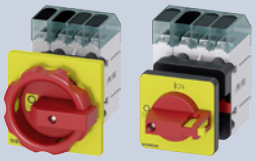
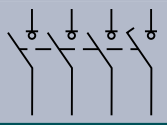
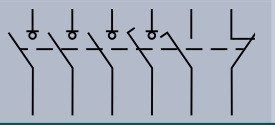
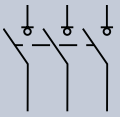
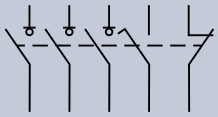
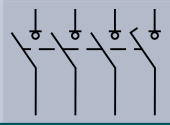
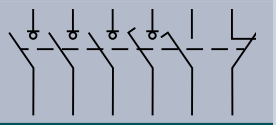




Operating mechanisms, red/yellow					
3P+N		3P		3P+N	
					
Without auxiliary switch	**1 NO + 1 NC**	**Without auxiliary switch**	**1 NO + 1 NC**	**Without auxiliary switch**	**1 NO + 1 NC**
3LD3054-0TL51	3LD3054-1TL51	3LD3054-0TK53	3LD3054-1TK53	3LD3054-0TL53	3LD3054-1TL53
3LD3154-0TL51	3LD3154-1TL51	3LD3154-0TK53	3LD3154-1TK53	3LD3154-0TL53	3LD3154-1TL53
3LD3254-0TL51	3LD3254-1TL51	3LD3254-0TK53	3LD3254-1TK53	3LD3254-0TL53	3LD3254-1TL53
3LD3354-0TL51	3LD3354-1TL51	3LD3354-0TK53	3LD3354-1TK53	3LD3354-0TL53	3LD3354-1TL53
3LD3454-0TL51	3LD3454-1TL51	3LD3454-0TK53	3LD3454-1TK53	3LD3454-0TL53	3LD3454-1TL53
3LD3050-0TL11	3LD3050-1TL11	3LD3050-0TK13	3LD3050-1TK13	3LD3050-0TL13	3LD3050-1TL13
3LD3150-0TL11	3LD3150-1TL11	3LD3150-0TK13	3LD3150-1TK13	3LD3150-0TL13	3LD3150-1TL13
3LD3250-0TL11	3LD3250-1TL11	3LD3250-0TK13	3LD3250-1TK13	3LD3250-0TL13	3LD3250-1TL13
3LD3350-0TL11	3LD3350-1TL11	3LD3350-0TK13	3LD3350-1TK13	3LD3350-0TL13	3LD3350-1TL13
3LD3450-0TL11	3LD3450-1TL11	3LD3450-0TK13	3LD3450-1TK13	3LD3450-0TL13	3LD3450-1TL13

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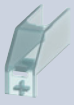
			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Terminal covers							
	Version	**Article No.**					
	For N switching contacts, N terminals or PE terminals	3LD9341-2A	■	■	■	■	■
	For 3-pole 3LD3 switch disconnectors	3LD9341-0A	■	■	■	■	■
Inscription labels							
	**Inscription**	**Article No.**					
	German/English (Hauptschalter/Main Switch)	3LD9346-1A	■	■	■	■	■
	French/Spanish (Interrupteur Général/Interruptor Principal)	3LD9346-2A	■	■	■	■	■
	Without inscription	3LD9346-3A	■	■	■	■	■

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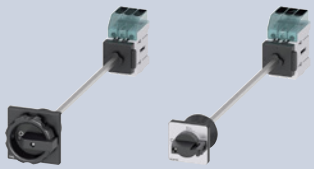
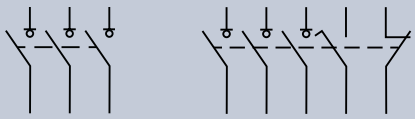
3LD switch disconnectors

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





	Operating mechanisms, black	
Number of poles	3P	
Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC
Door-coupling rotary operating mechanisms, center-hole mounting Ø 22.5 mm				
16 A	7.5 kW	5.5 kW	3LD3048-0TK51	3LD3048-1TK51
25 A	9 kW	7.5 kW	3LD3148-0TK51	3LD3148-1TK51
32 A	11.5 kW	9.5 kW	3LD3248-0TK51	3LD3248-1TK51
40 A	18.5 kW	11.5 kW	3LD3348-0TK51	3LD3348-1TK51
63 A	22 kW	18.5 kW	3LD3448-0TK51	3LD3448-1TK51
Door-coupling knob-operated mechanisms, center-hole mounting Ø 22.5 mm				
16 A	7.5 kW	5.5 kW	3LD3040-0TK11	3LD3040-1TK11
25 A	9 kW	7.5 kW	3LD3140-0TK11	3LD3140-1TK11
32 A	11.5 kW	9.5 kW	3LD3240-0TK11	3LD3240-1TK11
40 A	18.5 kW	11.5 kW	3LD3340-0TK11	3LD3340-1TK11
63 A	22 kW	18.5 kW	3LD3440-0TK11	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								
	Type	Contacts	Article No.					
	N switching contact (4th contact element)	Leading switch-on, lagging switch-off	3LD9340-0C	■	■	■	■	■
	N terminal	Through-type	3LD9340-2C	■	■	■	■	■
	PE terminal	Through-type	3LD9340-3C	■	■	■	■	■
Auxiliary switches								
	• NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts		Article No.					
	1 NO + 1 NC		3LD9340-6C	■	■	■	■	■
Rotary operating mechanisms								
	Version	Color	Article No.					
	• Lockable in 0 position with max. 3 padlocks • Incl. funnel	Black	3LD9344-2C	■	■	■	■	■
		Red/yellow	3LD9344-3C	■	■	■	■	■
Knob-operated mechanisms								
	Version	Color	Article No.					
	• Lockable in 0 position with max. 2 padlocks • Incl. funnel	Black	3LD9343-4C	■	■	■	■	■
		Red/yellow	3LD9343-5C	■	■	■	■	■
Switch shafts								
	Cross-section	Length	Article No.					
	6 × 6 mm	600 mm	3LD9345-1C	■	■	■	■	■

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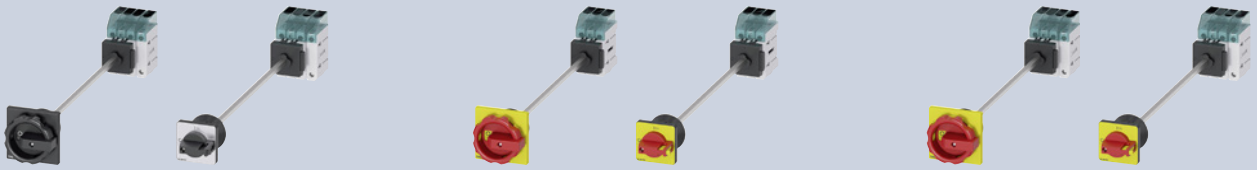
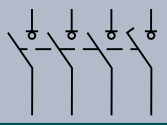
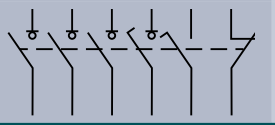
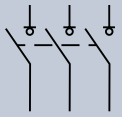
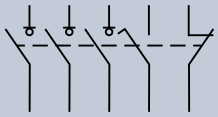
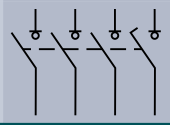
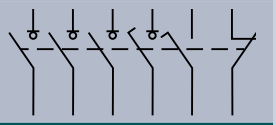
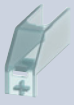
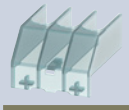


Operating mechanisms, red/yellow					
3P+N		3P		3P+N	
					
Without auxiliary switch	**1 NO + 1 NC**	**Without auxiliary switch**	**1 NO + 1 NC**	**Without auxiliary switch**	**1 NO + 1 NC**
3LD3048-0TL51	3LD3048-1TL51	3LD3048-0TK53	3LD3048-1TK53	3LD3048-0TL53	3LD3048-1TL53
3LD3148-0TL51	3LD3148-1TL51	3LD3148-0TK53	3LD3148-1TK53	3LD3148-0TL53	3LD3148-1TL53
3LD3248-0TL51	3LD3248-1TL51	3LD3248-0TK53	3LD3248-1TK53	3LD3248-0TL53	3LD3248-1TL53
3LD3348-0TL51	3LD3348-1TL51	3LD3348-0TK53	3LD3348-1TK53	3LD3348-0TL53	3LD3348-1TL53
3LD3448-0TL51	3LD3448-1TL51	3LD3448-0TK53	3LD3448-1TK53	3LD3448-0TL53	3LD3448-1TL53
3LD3040-0TL11	3LD3040-1TL11	3LD3040-0TK13	3LD3040-1TK13	3LD3040-0TL13	3LD3040-1TL13
3LD3140-0TL11	3LD3140-1TL11	3LD3140-0TK13	3LD3140-1TK13	3LD3140-0TL13	3LD3140-1TL13
3LD3240-0TL11	3LD3240-1TL11	3LD3240-0TK13	3LD3240-1TK13	3LD3240-0TL13	3LD3240-1TL13
3LD3340-0TL11	3LD3340-1TL11	3LD3340-0TK13	3LD3340-1TK13	3LD3340-0TL13	3LD3340-1TL13
3LD3440-0TL11	3LD3440-1TL11	3LD3440-0TK13	3LD3440-1TK13	3LD3440-0TL13	3LD3440-1TL13

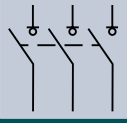
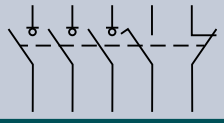
8

				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Door-coupling rotary operating mechanisms								
	**Type**	**Color**	**Article No.**					
	Rotary operating mechanisms 66 × 66 mm	Black	3LD9344-2CA	■	■	■	■	■
		Red/yellow	3LD9344-3CA	■	■	■	■	■
	Knob-operated mechanisms 48 × 48 mm	Black	3LD9343-4CA	■	■	■	■	■
		Red/yellow	3LD9343-5CA	■	■	■	■	■
Terminal covers								
	**Version**		**Article No.**					
	For N switching contacts, N terminals or PE terminals		3LD9341-2A	■	■	■	■	■
	For 3LD3 3-pole switch disconnectors		3LD9341-0A	■	■	■	■	■
Inscription labels								
	• Not for installation in distribution boards							
	Inscription		**Article No.**					
	German/English (Hauptschalter/Main Switch)		3LD9346-1A	■	■	■	■	■
	French/Spanish (Interrupteur Général/Interruptor Principal)		3LD9346-2A	■	■	■	■	■
	Without inscription		3LD9346-3A	■	■	■	■	■

Quick selection guide, page 8/6

3LD switch disconnectors

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

	Operating mechanisms, black	
Number of poles	3P	
		
Uninterrupted current I_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
Switches for installation in distribution boards with masking plate and selector knob, DIN-rail mounting				
16 A	7.5 kW	5.5 kW	3LD3030-0TK11	3LD3030-1TK11
25 A	9 kW	7.5 kW	3LD3130-0TK11	3LD3130-1TK11
32 A	11.5 kW	9.5 kW	3LD3230-0TK11	3LD3230-1TK11
40 A	18.5 kW	11.5 kW	3LD3330-0TK11	3LD3330-1TK11
63 A	22 kW	18.5 kW	3LD3430-0TK11	3LD3430-1TK11
Basic switches without knob-operated mechanism				
16 A	7.5 kW	5.5 kW	3LD3010-0TK05	3LD3010-1TK05
25 A	9 kW	7.5 kW	3LD3110-0TK05	3LD3110-1TK05
32 A	11.5 kW	9.5 kW	3LD3210-0TK05	3LD3210-1TK05
40 A	18.5 kW	11.5 kW	3LD3310-0TK05	3LD3310-1TK05
63 A	22 kW	18.5 kW	3LD3410-0TK05	3LD3410-1TK05

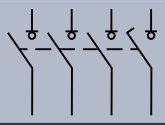
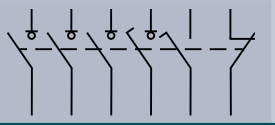
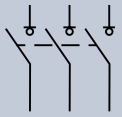
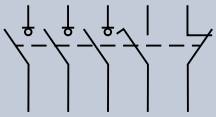
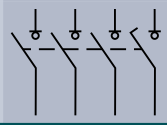
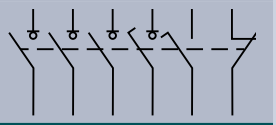
Scope of supply:
- Basic switches without direct operating mechanism, incl. terminal covers for the infeed side

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

Accessories, see page 8/20

Quick selection guide, page 8/6



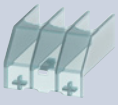
Operating mechanisms, red/yellow					
3P+N		3P		3P+N	
					
Without auxiliary switch	**1 NO + 1 NC**	**Without auxiliary switch**	**1 NO + 1 NC**	**Without auxiliary switch**	**1 NO + 1 NC**
3LD3030-0TL11	3LD3030-1TL11	3LD3030-0TK13	3LD3030-1TK13	3LD3030-0TL13	3LD3030-1TL13
3LD3130-0TL11	3LD3130-1TL11	3LD3130-0TK13	3LD3130-1TK13	3LD3130-0TL13	3LD3130-1TL13
3LD3230-0TL11	3LD3230-1TL11	3LD3230-0TK13	3LD3230-1TK13	3LD3230-0TL13	3LD3230-1TL13
3LD3330-0TL11	3LD3330-1TL11	3LD3330-0TK13	3LD3330-1TK13	3LD3330-0TL13	3LD3330-1TL13
3LD3430-0TL11	3LD3430-1TL11	3LD3430-0TK13	3LD3430-1TK13	3LD3430-0TL13	3LD3430-1TL13
3LD3010-0TL05	3LD3010-1TL05	–	–	–	–
3LD3110-0TL05	3LD3110-1TL05	–	–	–	–
3LD3210-0TL05	3LD3210-1TL05	–	–	–	–
3LD3310-0TL05	3LD3310-1TL05	–	–	–	–
3LD3410-0TL05	3LD3410-1TL05	–	–	–	–

Quick selection guide, page 8/6

3LD switch disconnectors

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

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

				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional poles								
	**Type**	**Contacts**	**Article No.**					
	N switching contact (4th contact element)	Leading switch-on, lagging switch-off	3LD9340-0C	■	■	■	■	■
	N terminal	Through-type	3LD9340-2C	■	■	■	■	■
	PE terminal	Through-type	3LD9340-3C	■	■	■	■	■
Auxiliary switches								
	• NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts		**Article No.**					
	1 NO + 1 NC		3LD9340-6C	■	■	■	■	■
Terminal covers								
	**Version**		**Article No.**					
	For N switching contacts, N terminals or PE terminals		3LD9341-2A	■	■	■	■	■
	For 3LD3 3-pole switch disconnectors		3LD9341-0A	■	■	■	■	■

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Quick selection guide, page 8/6

Accessories for basic switches without knob-operated mechanism

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	■	■	■	■	■

Knob-operated mechanisms, defeatable, 66 × 66 mm	Black	3LD9343-2CA	■	■	■	■	■
	Red/yellow	3LD9343-3CA	■	■	■	■	■

Rotary operating mechanisms

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

Knob-operated mechanisms

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

Knob-operated mechanisms, defeatable	• Lockable in 0 position with max. 3 padlocks • Incl. funnel	Black	3LD9343-2C	■	■	■	■	■
		Red/yellow	3LD9343-3C	■	■	■	■	■

Switch shafts

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

Inscription labels

• Not for installation in distribution boards

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 Général/Interruptor Principal)	3LD9346-2A	■	■	■	■	■
Without inscription	3LD9346-3A	■	■	■	■	■

Quick selection guide, page 8/6

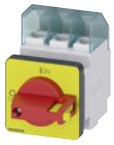
3LD switch disconnectors

System overview of 3LD2 switch disconnectors

Basic units for front mounting


3P rotary operating mechanisms

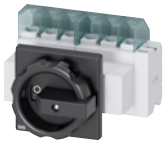

3P knob-operated mechanisms (3LD23/3LD24)


3P knob-operated mechanisms


3P+N rotary operating mechanisms


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


3P+N knob-operated mechanisms


6P rotary operating mechanisms

Basic units for floor mounting


3P rotary operating mechanisms


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


3P knob-operated mechanisms, defeatable


3P+N rotary operating mechanisms


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


3P+N knob-operated mechanisms, defeatable


6P rotary operating mechanisms

Basic units for installation in distribution boards/enclosures, DC


3P knob-operated mechanisms


3P+N knob-operated mechanisms


8P DC isolators

Additional poles and auxiliary switches


N switching contacts


N/PE terminals (through-type)


Auxiliary switches (standard version)


Auxiliary switch for mounting on the front

Operating mechanisms


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


Knob-operated mechanisms (3LD23/3LD24)


Switch shafts


Coupling pieces without ON-lock


Assembly tools for center-hole mounting

Further accessories

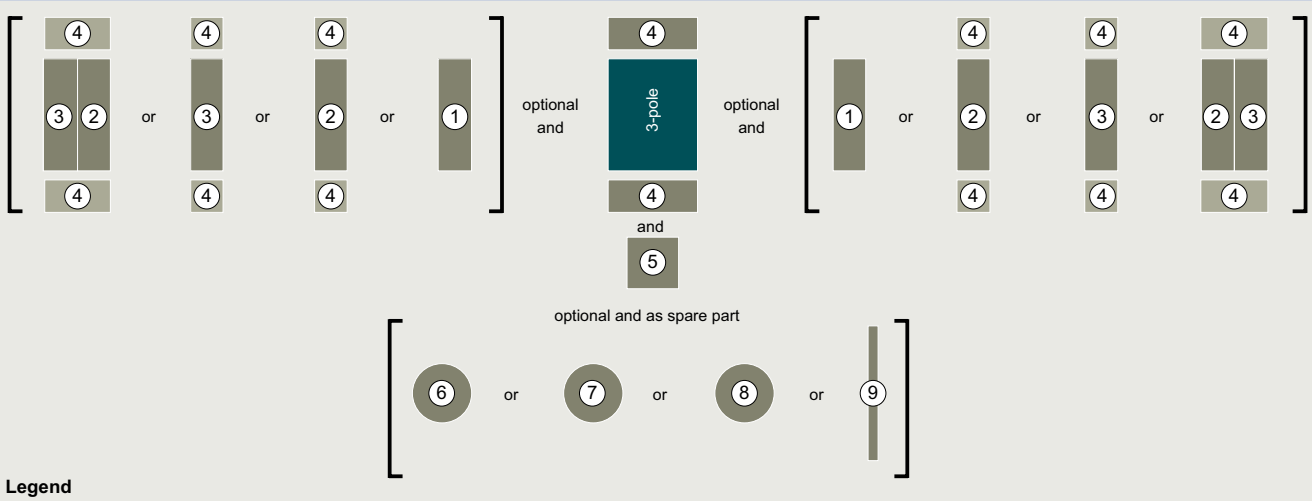

Terminal covers, 1-pole


Terminal covers, 3 and 4-pole

Inscription labels (with and without inscription)

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

Mounting concept and accessories



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 600mm)

[1] N switching contact (2) must first be installed on the basic unit
[2] Can only be used with four-hole front mounting and floor mounting

I201_20483

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Mounting types

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

Front mounting

The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). In addition to the 4-hole fastening of the handle, up to 63 A (3LD25) fastening with the 22.5 mm diameter center hole can also be chosen.

Floor mounting

The switches for floor mounting up to 125 A (3LD28) are snapped onto 35 mm DIN rails according to EN 60715 or screw-mounted on mounting panels. The switches for 160 and 250 A (3LD23/3LD24) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in the 0 position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Distribution board mounting

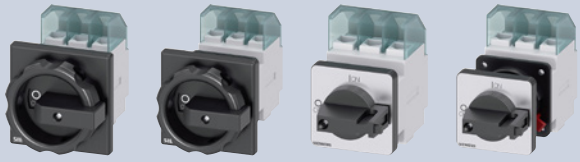
The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. Up to 125 A (3LD28), they have cap and mounting dimensions according to DIN 43880 and can be fitted under the same cover together with miniature circuit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

DC isolators

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

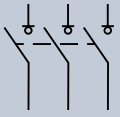
3LD switch disconnectors

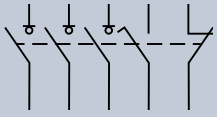
3LD2 main control switches, front mounting, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P



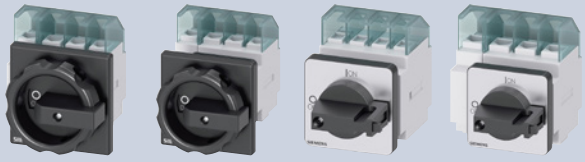


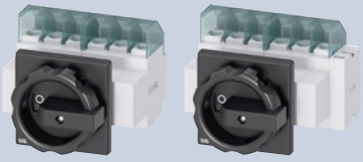
Version	Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power *P* At AC-23A, 380 ... 440 V	Operational power *P* At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Rotary operating mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2003-0TK51	3LD2003-1TP51
	25 A	9.5 kW	7.5 kW	3LD2103-0TK51	3LD2103-1TP51
	32 A	11.5 kW	9.5 kW	3LD2203-0TK51	3LD2203-1TP51
	63 A	22 kW	18.5 kW	3LD2504-0TK51	3LD2504-1TP51
	100 A	37 kW	30 kW	3LD2704-0TK51	3LD2704-1TP51
	125 A	45 kW	37 kW	3LD2804-0TK51	3LD2804-1TP51
Center-hole mounting Ø 22.5 mm	16 A	7.5 kW	5.5 kW	3LD2054-0TK51	3LD2054-1TP51
	25 A	9.5 kW	7.5 kW	3LD2154-0TK51	3LD2154-1TP51
	32 A	11.5 kW	9.5 kW	3LD2254-0TK51	3LD2254-0TK51 + 3LD9200-5B
	63 A	22 kW	18.5 kW	3LD2555-0TK51	3LD2555-0TK51 + 3LD9200-5B
Knob-operated mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2022-0TK11	3LD2022-0TK11 + 3LD9200-5B
	25 A	9.5 kW	7.5 kW	3LD2122-0TK11	3LD2122-0TK11 + 3LD9200-5B
	32 A	11.5 kW	9.5 kW	3LD2222-0TK11	3LD2222-0TK11 + 3LD9200-5B
	160 A	75 kW	50 kW	3LD2305-0TK11	3LD2305-0TK11 + 3LD9200-5B
	250 A	132 kW	110 kW	3LD2405-0TK11	3LD2405-0TK11 + 3LD9200-5B
Center-hole mounting Ø 22.5 mm	16 A	7.5 kW	5.5 kW	3LD2050-0TK11	3LD2050-0TK11 + 3LD9200-5B
	25 A	9.5 kW	7.5 kW	3LD2150-0TK11	3LD2150-0TK11 + 3LD9200-5B
	32 A	11.5 kW	9.5 kW	3LD2250-0TK11	3LD2250-0TK11 + 3LD9200-5B

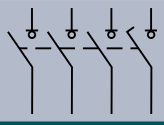
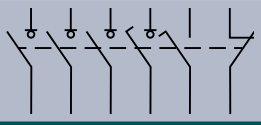
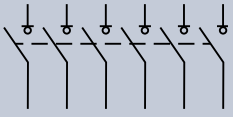
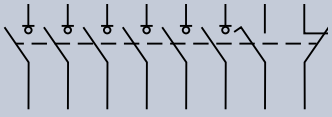
Scope of supply:
- Including terminal covers for the infeed side

Accessories, see page 8/28

Quick selection guide, page 8/6



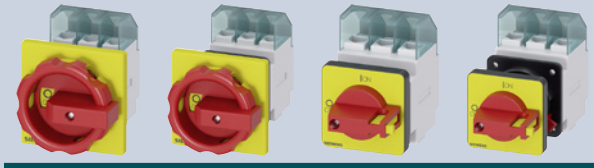


3P+N		6P	
			
Without auxiliary switch	**1 NO + 1 NC (standard version)**	**Without auxiliary switch**	**1 NO + 1 NC (standard version)**
3LD2003-1TL51	3LD2003-2EP51	–	–
3LD2103-1TL51	3LD2103-2EP51	3LD2103-3VK51	3LD2103-4VP51
3LD2203-1TL51	3LD2203-1TL51 + 3LD9200-5B	3LD2203-3VK51	3LD2203-3VK51 + 3LD9200-5B
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	–	–
3LD2054-1TL51	3LD2054-2EP51	–	–
3LD2154-1TL51	3LD2154-2EP51	–	–
3LD2254-1TL51	3LD2254-1TL51 + 3LD9200-5B	–	–
3LD2555-0TK51 + 3LD9250-0BA	3LD2555-0TK51 + 3LD9250-0BA + 3LD9200-5B	–	–
3LD2022-1TL11	3LD2022-1TL11 + 3LD9200-5B	–	–
3LD2122-1TL11	3LD2122-1TL11 + 3LD9200-5B	3LD2122-3VK11	–
3LD2222-0TK11 + 3LD9220-0B	3LD2222-0TK11 + 3LD9220-0B + 3LD9200-5B	–	–
3LD2305-1TL11	3LD2305-1TL11 + 3LD9200-5B	3LD2305-3VK11	3LD2305-3VK11 + 3LD9200-5B
3LD2405-1TL11	3LD2405-1TL11 + 3LD9200-5B	3LD2405-3VK11	3LD2405-3VK11 + 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	–	–

Quick selection guide, page 8/6

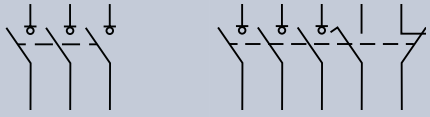
3LD switch disconnectors

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



Operating mechanisms, red/yellow

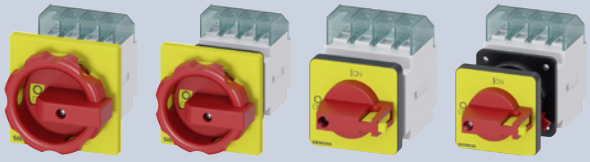
Number of poles 3P

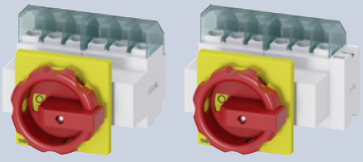


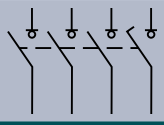
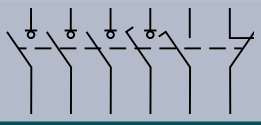
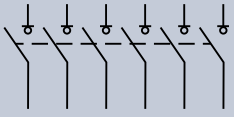
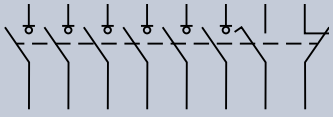
Version	Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Rotary operating mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2003-0TK53	3LD2003-1TP53
	25 A	9.5 kW	7.5 kW	3LD2103-0TK53	3LD2103-1TP53
	32 A	11.5 kW	9.5 kW	3LD2203-0TK53	3LD2203-1TP53
	63 A	22 kW	18.5 kW	3LD2504-0TK53	3LD2504-1TP53
	100 A	37 kW	30 kW	3LD2704-0TK53	3LD2704-1TP53
	125 A	45 kW	37 kW	3LD2804-0TK53	3LD2804-1TP53
Center-hole mounting Ø 22.5 mm	16 A	7.5 kW	5.5 kW	3LD2054-0TK53	3LD2054-1TP53
	25 A	9.5 kW	7.5 kW	3LD2154-0TK53	3LD2154-1TP53
	32 A	11.5 kW	9.5 kW	3LD2254-0TK53	3LD2254-0TK53 + 3LD9200-5B
	63 A	22 kW	18.5 kW	3LD2555-0TK53	3LD2555-0TK53 + 3LD9200-5B
Knob-operated mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2022-0TK13	3LD2022-0TK13 + 3LD9200-5B
	25 A	9.5 kW	7.5 kW	3LD2122-0TK13	3LD2122-0TK13 + 3LD9200-5B
	32 A	11.5 kW	9.5 kW	3LD2222-0TK13	3LD2222-0TK13 + 3LD9200-5B
	160 A	75 kW	50 kW	3LD2305-0TK13	3LD2305-0TK13 + 3LD9200-5B
	250 A	132 kW	110 kW	3LD2405-0TK13	3LD2405-0TK13 + 3LD9200-5B
Center-hole mounting Ø 22.5 mm	16 A	7.5 kW	5.5 kW	3LD2050-0TK13	3LD2050-0TK13 + 3LD9200-5B
	25 A	9.5 kW	7.5 kW	3LD2150-0TK13	3LD2150-0TK13 + 3LD9200-5B
	32 A	11.5 kW	9.5 kW	3LD2250-0TK13	3LD2250-0TK13 + 3LD9200-5B

Scope of supply:
- Including terminal covers for the infeed side

Accessories, see page 8/28





3P+N		6P	
			
Without auxiliary switch	**1 NO + 1 NC (standard version)**	**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	–	–
3LD2054-1TL53	3LD2054-2EP53	–	–
3LD2154-1TL53	3LD2154-2EP53	–	–
3LD2254-1TL53	3LD2254-1TL53 + 3LD9200-5B	–	–
3LD2555-0TK53 + 3LD9250-0BA	3LD2555-0TK53 + 3LD9250-0BA + 3LD9200-5B	–	–
3LD2022-1TL13	3LD2022-1TL13 + 3LD9200-5B	–	–
3LD2122-1TL13	3LD2122-1TL13 + 3LD9200-5B	3LD2122-3VK13	–
3LD2222-0TK13 + 3LD9220-0B	3LD2222-0TK13 + 3LD9220-0B + 3LD9200-5B	–	–
3LD2305-1TL13	3LD2305-1TL13 + 3LD9200-5B	3LD2305-3VK13	3LD2305-3VK13 + 3LD9200-5B
3LD2405-1TL13	3LD2405-1TL13 + 3LD9200-5B	3LD2405-3VK13	3LD2405-3VK13 + 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	–	–

Quick selection guide, page 8/6

3LD switch disconnectors

Accessories for front mounting

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
N switching contacts (4th contact element)										
	**Contacts**	**Article No.**								
	Leading switch-on, lagging switch-off	3LD9220-0B		■	■					
		3LD9250-0BA				■				
		3LD9280-0B					■	■		
		3LD9240-0B							■	■
N/PE terminals										
	**Contacts**	**Article No.**								
	Through-type	3LD9200-2B	■							
		3LD9220-2B		■	■					
		3LD9250-2BA				■				
		3LD9280-2B					■	■		
		3LD9240-2B							■	■
Auxiliary switches (standard version)										
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch									
	Contacts	**Contact surface**	**Article No.**							
	1 NO + 1 NC	Standard	3LD9200-5B	■	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5BF	■	■	■	■	■	■	■	■
Auxiliary switches for mounting on the front										
	• Mounted on the switch shaft • For four-hole front mounting and floor mounting only • NO: lagging during switch-on, leading (20 ... 150 ms) during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch • 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										
	• 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				■	■	■		

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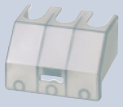
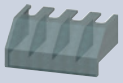
			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Knob-operated mechanisms										
	• Lockable in 0 position with up to 3 padlocks • Only for 3P and 3P+N circuit breakers • Including seal									
Version	**Mounting**	**Article No.**								
For main control switches	Four-hole mounting	3LD9243-1B							■	■
For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							■	■
Terminal covers										
	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										
	**Inscription**	**Article No.**								
	German/English (Hauptschalter/Main Switch)	3LD9286-1A	■	■	■	■	■	■		
	Without inscription	3LD9286-4A	■	■	■	■	■	■		
Assembly tools										
	• For center-hole mounting with nut									
	Version	**Article No.**								
	For main control switches and EMERGENCY-STOP switches	3LD9256-0A	■	■	■	■				

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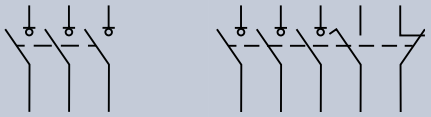
System overview, page 8/22

3LD switch disconnectors

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

Operating mechanisms, black

Number of poles 3P

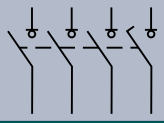
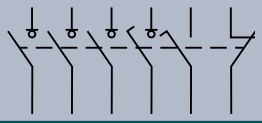
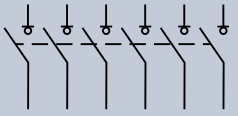
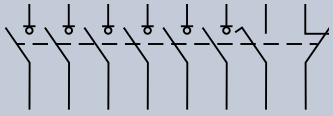


Version	Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Door-coupling rotary operating mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2013-0TK51	3LD2013-0TK51 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2113-0TK51	3LD2113-0TK51 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2213-0TK51	3LD2213-0TK51 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2514-0TK51	3LD2514-0TK51 + 3LD9200-5C
	100 A	37 kW	30 kW	3LD2714-0TK51	3LD2714-0TK51 + 3LD9200-5C
	125 A	45 kW	37 kW	3LD2814-0TK51	3LD2814-0TK51 + 3LD9200-5C
Center-hole mounting Ø 22.5 mm	16 A	7.5 kW	5.5 kW	3LD2044-0TK51	3LD2044-0TK51 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2144-0TK51	3LD2144-0TK51 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2244-0TK51	3LD2244-0TK51 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2545-0TK51	3LD2545-0TK51 + 3LD9200-5C
Door-coupling knob-operated mechanisms					
Four-hole mounting	160 A	75 kW	50 kW	3LD2318-0TK11	3LD2318-0TK11 + 3LD9200-5C
	250 A	132 kW	110 kW	3LD2418-0TK11	3LD2418-0TK11 + 3LD9200-5C
Defeatable door-coupling knob-operated mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2017-0TK11	3LD2017-0TK11 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2217-0TK11	3LD2217-0TK11 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2517-0TK11	3LD2517-0TK11 + 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		6P	
			
Without auxiliary switch	**1 NO + 1 NC (standard version)**	**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	–	–
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	–	–
3LD2318-1TL11	3LD2318-1TL11 + 3LD9200-5C	3LD2318-3VK11	3LD2318-3VK11 + 3LD9200-5C
3LD2418-1TL11	3LD2418-1TL11 + 3LD9200-5C	3LD2418-3VK11	3LD2418-3VK11 + 3LD9200-5C
3LD2017-1TL11	3LD2017-1TL11 + 3LD9200-5C	–	–
3LD2217-1TL11	3LD2217-1TL11 + 3LD9200-5C	–	–
3LD2517-1TL11	3LD2517-1TL11 + 3LD9200-5C	–	–

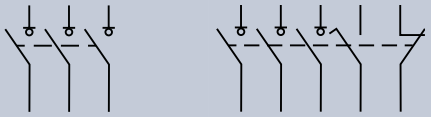
Quick selection guide, page 8/6

3LD switch disconnectors

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

Operating mechanisms, red/yellow

Number of poles 3P

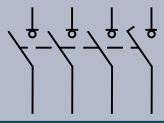
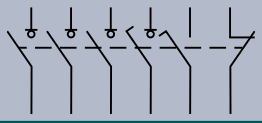
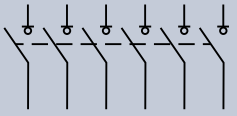
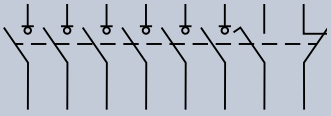


Version	Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power *P* At AC-23A, 380 ... 440 V	Operational power *P* At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Door-coupling rotary operating mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2013-0TK53	3LD2013-0TK53 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2113-0TK53	3LD2113-0TK53 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2213-0TK53	3LD2213-0TK53 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2514-0TK53	3LD2514-0TK53 + 3LD9200-5C
	100 A	37 kW	30 kW	3LD2714-0TK53	3LD2714-0TK53 + 3LD9200-5C
	125 A	45 kW	37 kW	3LD2814-0TK53	3LD2814-0TK53 + 3LD9200-5C
Center-hole mounting Ø 22.5 mm	16 A	7.5 kW	5.5 kW	3LD2044-0TK53	3LD2044-0TK53 + 3LD9200-5C
	25 A	9.5 kW	7.5 kW	3LD2144-0TK53	3LD2144-0TK53 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2244-0TK53	3LD2244-0TK53 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2545-0TK53	3LD2545-0TK53 + 3LD9200-5C
Door-coupling knob-operated mechanisms					
Four-hole mounting	160 A	75 kW	50 kW	3LD2318-0TK13	3LD2318-0TK13 + 3LD9200-5C
	250 A	132 kW	110 kW	3LD2418-0TK13	3LD2418-0TK13 + 3LD9200-5C
Defeatable door-coupling knob-operated mechanism					
Four-hole mounting	16 A	7.5 kW	5.5 kW	3LD2017-0TK13	3LD2017-0TK13 + 3LD9200-5C
	32 A	11.5 kW	9.5 kW	3LD2217-0TK13	3LD2217-0TK13 + 3LD9200-5C
	63 A	22 kW	18.5 kW	3LD2517-0TK13	3LD2517-0TK13 + 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		6P	
			
Without auxiliary switch	**1 NO + 1 NC (standard version)**	**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	–	–
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	–	–
3LD2318-1TL13	3LD2318-1TL13 + 3LD9200-5C	3LD2318-3VK13	3LD2318-3VK13 + 3LD9200-5C
3LD2418-1TL13	3LD2418-1TL13 + 3LD9200-5C	3LD2418-3VK13	3LD2418-3VK13 + 3LD9200-5C
3LD2017-1TL13	3LD2017-1TL13 + 3LD9200-5C	–	–
3LD2217-1TL13	3LD2217-1TL13 + 3LD9200-5C	–	–
3LD2517-1TL13	3LD2517-1TL13 + 3LD9200-5C	–	–

Quick selection guide, page 8/6

3LD switch disconnectors

Accessories for floor mounting

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
N switching contacts (4th contact element)										
	**Contacts**	**Article No.**								
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■					
		3LD9250-0CA				■				
		3LD9280-0C					■	■		
		3LD9240-0C							■	■
N/PE terminals										
	**Contacts**	**Article No.**								
	Through-type	3LD9200-2C	■							
		3LD9220-2C		■	■					
		3LD9250-2CA				■				
		3LD9280-2C					■	■		
		3LD9240-2C							■	■
Auxiliary switches (standard version)										
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch									
	Contacts	**Contact surface**	**Article No.**							
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■	■	■
	2 NO	Standard	3LD9200-6C	■	■	■	■	■	■	■	■
Auxiliary switches for mounting on the front										
	• Mounted on the switch shaft • NO: lagging during switch-on, leading (20 ... 150 ms) during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch									
	Contacts	**Contact surface**	**Article No.**							
	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.**							
	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 • Only for 3P and 3P+N circuit breakers • Including seal									
	Version	**Mounting**	**Article No.**							
	For main control switches	Four-hole mounting	3LD9243-1B						■	■
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B						■	■

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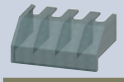
			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Knob-operated mechanisms, defeatable										
 • Can be used as a replacement for 3LD2.17 • Lockable in 0 position with max. 3 padlocks • Incl. funnel										
Version	**Mounting**									
For main control switches	Four-hole mounting	3LD9343-2C	■		■	■				
For EMERGENCY-STOP switches	Four-hole mounting	3LD9343-3C	■		■	■				
8UC7 handle with masking plate, defeatable										
 • For implementing defeatability of 3LD27 (100 A) to 3LD24 (250 A) with the 8UC7 door mounted rotary operator										
Version	**Mounting**	**Article No.**								
For main control switches	Four-hole mounting	8UC7110-1BB					■	■		
	Four-hole mounting	8UC7210-1BB					■	■		
For EMERGENCY-STOP switches	Four-hole mounting	8UC7120-3BB							■	■
	Four-hole mounting	8UC7220-3BB							■	■
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 and OFF interlock • Suitable for all non-defeatable door-coupling rotary operators/knob-operated mechanisms										
Version		**Article No.**								
With tolerance compensation		3LD9202-4E new	■	■	■	■	■	■		
Without tolerance compensation		3LD9242-4F							■	■
Terminal covers										
	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										
 • Not for installation in distribution boards • 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										
Version		**Article No.**								
For main control switches and EMERGENCY-STOP switches		3LD9256-0A	■	■	■	■				

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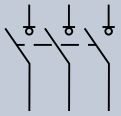
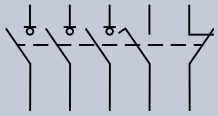
System overview, page 8/22

3LD switch disconnectors

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

	Operating mechanisms, black	
Number of poles	3P	
		
Uninterrupted current I_u At AC-21A, 380 ... 440 V	Operational power P At AC-23A, 380 ... 440 V	Operational power P At AC-3A, 380 ... 440 V	Without auxiliary switch	1 NO + 1 NC (standard version)
Knob-operated mechanisms with masking plate				
16 A	7.5 kW	5.5 kW	3LD2030-0TK11	3LD2030-0TK11 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK11	3LD2130-0TK11 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK11	3LD2230-0TK11 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK11	3LD2530-0TK11 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK11	3LD2730-0TK11 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK11	3LD2830-0TK11 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK11	3LD2330-0TK11 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2430-0TK11	3LD2430-0TK11 + 3LD9200-5C

Scope of supply:
- 3LD23/3LD24 including terminal covers for the infeed side

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

Accessories, see page 8/40

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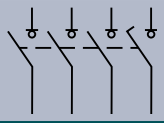
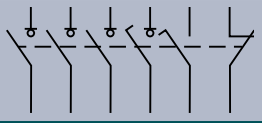
3P+N





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 + 3LD9250-0CA	3LD2530-0TK11 + 3LD9250-0CA + 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

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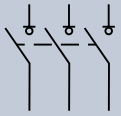
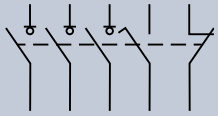
Quick selection guide, page 8/6

3LD switch disconnectors

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

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

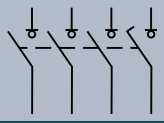
Scope of supply:
- 3LD23/3LD24 including terminal covers for the infeed side

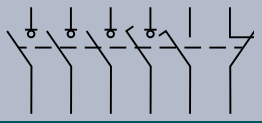
Mounting:
- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessories, see page 8/40

Quick selection guide, page 8/6

3P+N





Without auxiliary switch	1 NO + 1 NC (standard version)
3LD2030-1TL13	3LD2030-1TL13 + 3LD9200-5C
3LD2130-0TK13 + 3LD9220-0C	3LD2130-0TK13 + 3LD9220-0C + 3LD9200-5C
3LD2230-0TK13 + 3LD9220-0C	3LD2230-0TK13 + 3LD9220-0C + 3LD9200-5C
3LD2530-0TK13 + 3LD9250-0CA	3LD2530-0TK13 + 3LD9250-0CA + 3LD9200-5C
3LD2730-0TK13 + 3LD9280-0C	3LD2730-0TK13 + 3LD9280-0C + 3LD9200-5C
3LD2830-0TK13 + 3LD9280-0C	3LD2830-0TK13 + 3LD9280-0C + 3LD9200-5C
3LD2330-0TK13 + 3LD9240-0C	3LD2330-0TK13 + 3LD9240-0C + 3LD9200-5C
3LD2430-0TK13 + 3LD9240-0C	3LD2430-0TK13 + 3LD9240-0C + 3LD9200-5C

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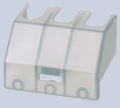
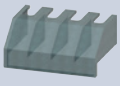
Quick selection guide, page 8/6

3LD switch disconnectors

Accessories for distribution board mounting

Accessories			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
N switching contacts (4th contact element)										
	**Contacts**	**Article No.**								
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■					
		3LD9250-0CA				■				
		3LD9280-0C					■	■		
		3LD9240-0C							■	■
N/PE terminals										
	**Contacts**	**Article No.**								
	Through-type	3LD9200-2C	■							
		3LD9220-2C		■	■					
		3LD9250-2CA				■				
		3LD9280-2C					■	■		
		3LD9240-2C							■	■
Auxiliary switches (standard version)										
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch									
	Contacts	**Contact surface** / **Article No.**								
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■	■	■
	2 NO	Standard	3LD9200-6C	■	■	■	■	■	■	■	■
Terminal covers										
	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	■							

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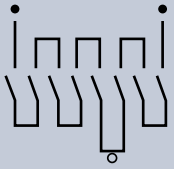
System overview, page 8/22

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

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Quick selection guide, page 8/6

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

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DC isolators in enclosure

8P DC isolators in a molded-plastic enclosure

Additional poles and auxiliary switch modules

N switching
contact

N/PE terminals
(through-type)

Auxiliary switches
(standard version)

Auxiliary switch for mounting on
the front

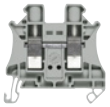
Operating mechanisms

Rotary operating mechanisms for center-hole mounting

Knob-operated mechanisms for 3LD2 with EMC shield plate

Further accessories

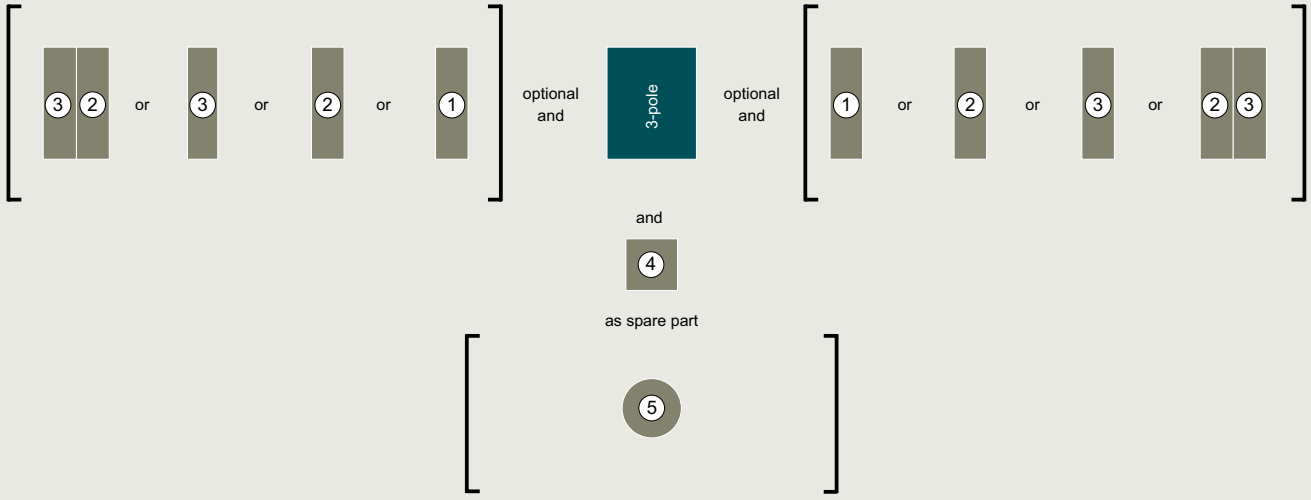
Shield terminal



Through-type terminal

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

Mounting concept and accessories



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/knob-operated mechanisms

[1)] N switching contact (2) must first be installed on the basic unit
Note: Depending on the enclosure size, not all accessories can be used in combination

I201_20484a

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Mounting types

3LD2 main control and EMERGENCY-STOP switches in enclosure

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

DC isolators in enclosure

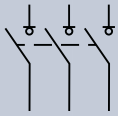
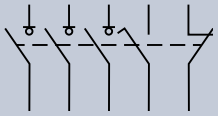
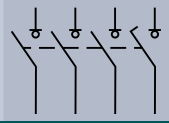
The DC isolators in the enclosure are suitable for disconnecting loads of up to 800 V DC due to their 8-pole design. To provide additional safety, the isolators can be locked in the 0 position.

3LD2 maintenance and repair switches with EMC shield plate

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

3LD switch disconnectors

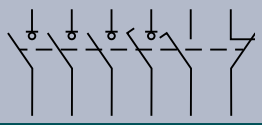
3LD2 main control switches in enclosure, 25 ... 50 kA_{rms}

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

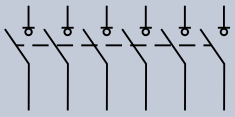
Accessoires, see page 8/48

Quick selection guide, page 8/6

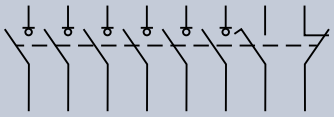
6P



1 NO + 1 NC (standard version)



Without auxiliary switch



1 NO + 1 NC (standard version)

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

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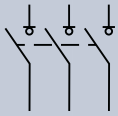
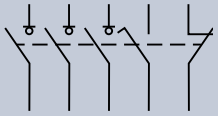
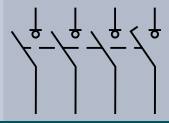
Quick selection guide, page 8/6

3LD switch disconnectors

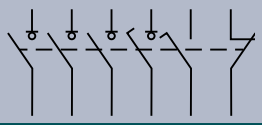
3LD2 EMERGENCY-STOP switches in enclosure, 25 ... 50 kA_{rms}

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

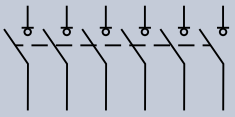
Accessoires, see page 8/48

Quick selection guide, page 8/6

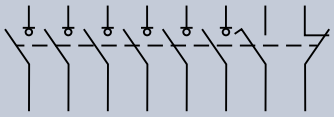
6P



1 NO + 1 NC (standard version)



Without auxiliary switch



1 NO + 1 NC (standard version)

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

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Quick selection guide, page 8/6

3LD switch disconnectors

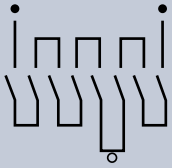
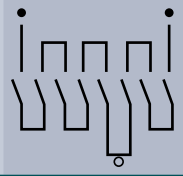
Accessories for 3LD2 switch disconnectors in enclosure

Accessories			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
N switching contacts (4th contact element)								
	**Contacts**	**Article No.**						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
N/PE terminals								
	**Contacts**	**Article No.**						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C					■	■
Auxiliary switches (standard version)								
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts	**Contact surface**	**Article No.**					
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■
	2 NO	Standard	3LD9200-6C	■	■	■	■	■	■
Auxiliary switches for mounting on the front								
	• Mounted on the front of the switch shaft • NO: lagging during switch-on, leading (20 ... 150 ms) during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	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							
	Type	**Version**	**Article No.**					
	Main control switches	3P, 3P+N	3LD9224-1GH [1]	■	■	■			
			3LD9284-1G				■	■	■
		6P	3LD9284-1G		■	■	■		
	EMERGENCY-STOP switches	3P, 3P+N	3LD9224-3GH [1]	■	■	■			
			3LD9284-3G				■	■	■
		6P	3LD9284-3G		■	■	■		

[1] Incl. enclosure cover

System overview, page 8/42

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

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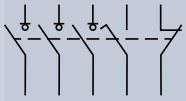
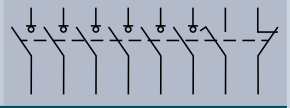
Quick selection guide, page 8/6

3LD switch disconnectors

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

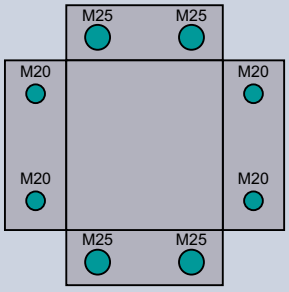
	Operating mechanisms, black	
Number of poles	3P	6P
		

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

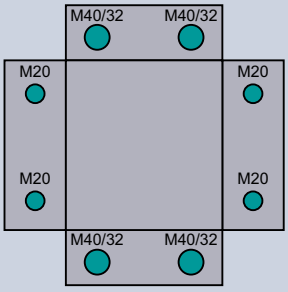
Scope of supply:
- Incl. shield clamps or hose clips for contacting the cable shield
- The PE terminal as a through-type terminal is insulated from the cable shield

3LD2 cable entries with EMC shield plate

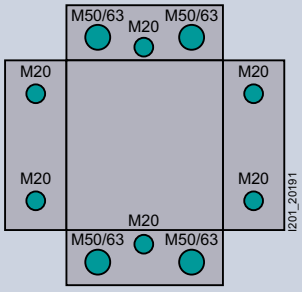
3LD2.84



3LD2.85

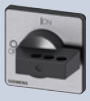
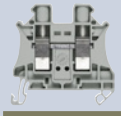


3LD2.86



Quick selection guide, page 8/6

Accessories

			3LD20 (16 A)	3LD21 (25 A)	3LD22 (32 A)	3LD25 (63 A)	3LD27 (100 A)	3LD28 (125 A)
N switching contacts (4th contact element)								
	**Contacts**	**Article No.**						
	Leading switch-on, lagging switch-off	3LD9220-0C		■	■			
		3LD9250-0CA				■		
		3LD9280-0C					■	■
N/PE terminals								
	**Contacts**	**Article No.**						
	Through-type	3LD9200-2C	■					
		3LD9220-2C		■	■			
		3LD9250-2CA				■		
		3LD9280-2C					■	■
Auxiliary switches (standard version)								
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts	**Contact surface**	**Article No.**					
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■	■
	2 NO	Standard	3LD9200-6C	■	■	■	■	■	■
Auxiliary switches for mounting on the front								
	• Mounted on the front of the switch shaft • NO: lagging during switch-on, leading (20 ... 150 ms) during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts	**Contact surface**	**Article No.**					
	1 NO + 1 NC	Standard	3LD9280-5D	■	■	■	■	■	■
		Gold-plated	3LD9280-5DF	■	■	■	■	■	■
Knob-operated mechanisms								
	• Can be used as a replacement • Lockable in 0 and 1 position with up to 3 padlocks							
	Version		**Article No.**					
	Main control switches		3LD9283-2G	■	■	■	■	■	■
	EMERGENCY-STOP switches		3LD9283-4G	■	■	■	■	■	■
Rotary operating mechanisms								
	• Lockable in 0 position with up to 3 padlocks • Only for 50/60 Hz applications							
	Type	**Version**	**Article No.**					
	Main control switches	3P	3LD9224-1G	■	■	■			
			3LD9284-1G				■	■	■
		6P	3LD9284-1G		■	■	■		
	EMERGENCY-STOP switches	3P	3LD9224-3G	■	■	■			
			3LD9284-3G				■	■	■
		6P	3LD9284-3G		■	■	■		
Terminal blocks								
	**Version**		**Article No.**					
	Through-type terminal with screw connection		8WH1000-0AF00	■	■	■	■	■	■
Shield terminals								
	**Terminal area**		**Article No.**					
	3 ...12 mm		3LD9228-1G	■	■	■	■	■	■

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Quick selection guide, page 8/6

3LD switch disconnectors

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

Basic units for front mounting


3LD5020 (3-pole)


3LD5020 (4-pole)


3LD5420 (3-pole)


3LD5420 (4-pole)

Basic units, floor mounting with direct operating mechanism


3LD5000 (3-pole)


3LD5000 (4-pole)


3LD5400 (3-pole)


3LD5400 (4-pole)

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


3LD5010 (3-pole)


3LD5010 (4-pole)


3LD5410 (3-pole)


3LD5410 (4-pole)

Additional poles and auxiliary switches


N switching contact


N/PE terminals (through-type)


Auxiliary switches (standard version)


Auxiliary switch for mounting on the front

Operating mechanisms


Rotary operating mechanisms for four-hole mounting


Coupling heads with and without tolerance compensation


Supplementary handles for UL 508A/NFPA 79


Switch shafts

Further accessories

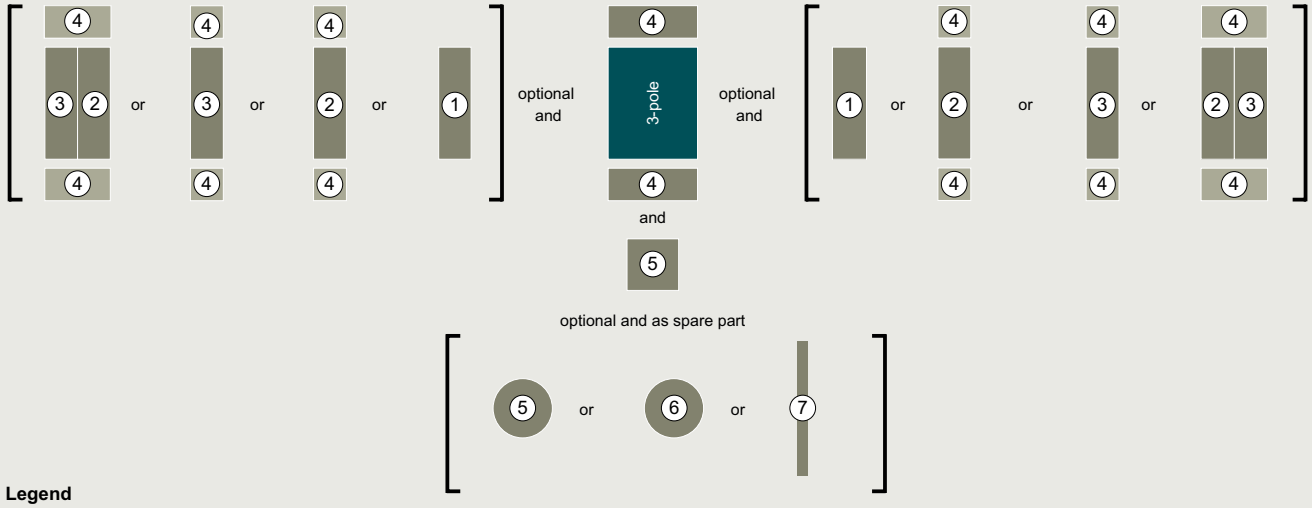

Terminal covers, 1-pole


Terminal covers, 3 and 4-pole

Inscription labels (with and without inscription)

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

Mounting concept and accessories



8

Main control switches acc. to UL

The certification according to UL 489 makes the 3LD5 UL ideal for use as a main control switch for machinery and plants for export to the NAFTA states. The variety of accessories makes it especially suitable as a main disconnect switch for industrial machinery. The switch is also certified according to UL 508 and can also be used as a manual motor controller.

Mounting types

Front mounting of basic units

The switches for front mounting are mounted on the inside of covers, side panels or, if applicable, control cabinet doors (depending on the applicable standard and switching function). Installation is achieved by 4-hole mounting of the handle. This switch is especially suitable when door interlocking is not required or is implemented in a different way.

Floor mounting with direct operating mechanism

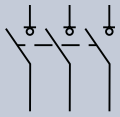
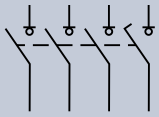
The switches for floor mounting with direct operating mechanism up to 60 A are snapped onto 35 mm DIN rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 ... 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels.

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

The switches for floor mounting up to 30 A (3LD50) are snapped onto 35 mm DIN rails according to EN 60715 or screw-mounted on mounting panels. The switches for 100 to 160 A (3LD54 ... 3LD58) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in the 0 position, and a 300 mm long switch shaft. The rotary operating mechanisms are also defeatable, i.e. it is possible to open the control cabinet door with a deliberate action while the switch is in the ON position. To meet the requirement acc. to UL 508A/NFPA 79, a supplementary handle can be mounted on the switch. Combined with the intermediate handle, the shaft can no longer be removed.

3LD switch disconnectors

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

Number of poles	Operating mechanisms, black	
	3P	3P+N
		

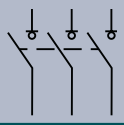
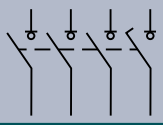
Uninterrupted current I_u At AC-21A, 380 ... 440 V	General use acc. to UL 489/60947-4-1	Operational power P At AC-23A, 380 ... 440 V		
Rotary operating mechanism, four-hole mounting				
32	30	15	3LD5020-0TK11	3LD5020-0TL11
63	60	30	3LD5220-0TK11	3LD5220-0TL11
Knob-operated mechanism, four-hole mounting				
100	100	45	3LD5420-0TK11	3LD5420-0TL11
125	125	55	3LD5620-0TK11	3LD5620-0TL11
160	150	75	3LD5820-0TK11	3LD5820-0TL11

Scope of supply:
- Including terminal covers for the infeed side

Accessories

			3LD50	3LD52	3LD54	3LD56	3LD58
N switching contacts (4th contact element)							
	**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)							
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch						
	Contacts	**Contact surface**	**Article No.**					
	1 NO + 1 NC	Standard	3LD9200-5B	■	■	■	■	■
		Gold-plated	3LD9200-5BF	■	■	■	■	■
Auxiliary switch for mounting on the front							
	• Mounted on the front of the switch shaft • NO: lagging during switch-on, leading (20 ... 150 ms) during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch						
	Contacts	**Contact surface**	**Article No.**					
	1 NO + 1 NC	Standard	3LD9280-5D	■	■			
			3LD9240-5D			■	■	■
		Gold-plated	3LD9280-5DF	■	■			
			3LD9240-5DF			■	■	■

Quick selection guide, page 8/6

Operating mechanisms, red/yellow	
3P	3P+N
	
3LD5020-0TK13	3LD5020-0TL13
3LD5220-0TK13	3LD5220-0TL13
3LD5420-0TK13	3LD5420-0TL13
3LD5620-0TK13	3LD5620-0TL13
3LD5820-0TK13	3LD5820-0TL13

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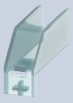
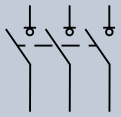
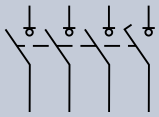
			3LD50	3LD52	3LD54	3LD56	3LD58
Rotary operating mechanisms							
	• Lockable in 0 position with up to 3 padlocks						
	Version	**Article No.**					
	For main control switches	3LD9284-1B	■	■			
	For EMERGENCY-STOP switches	3LD9284-3B	■	■			
Knob-operated mechanisms							
	• Lockable in 0 position with up to 3 padlocks • Incl. funnel						
	Version	**Article No.**					
	For main control switches	3LD9243-1B			■	■	■
	For EMERGENCY-STOP switches	3LD9243-3B			■	■	■
Terminal covers							
	Number of poles	**Article No.**					
	1-pole	3LD9251-2A	■				
		3LD9281-2A		■			
		3LD9241-2A			■	■	■
	3-pole	3LD9251-0A	■				
Inscription labels							
	**Inscription**	**Article No.**					
	German/English (Hauptschalter/Main Switch)	3LD9286-1A	■	■	■	■	■
	Without inscription	3LD9286-4A	■	■	■	■	■

Quick selection guide, page 8/6

3LD switch disconnectors

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

Number of poles	Operating mechanisms, black	
	3P	3P+N
		

Uninterrupted current I_u At AC-21A, 380 ... 440 V	General use acc. to UL 489/508	Operational power P At AC-23A, 380 ... 440 V		
Knob-operated mechanism, four-hole mounting				
32	30	15	3LD5000-0TK11	3LD5000-0TL11
63	60	30	3LD5200-0TK11	3LD5200-0TL11
100	100	45	3LD5400-0TK11	3LD5400-0TL11
125	125	55	3LD5600-0TK11	3LD5600-0TL11
160	150	75	3LD5800-0TK11	3LD5800-0TL11

Scope of supply:
- Including terminal covers for the infeed side

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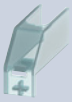
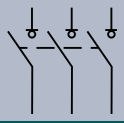
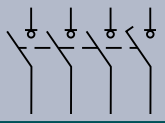
Accessories

				3LD50	3LD52	3LD54	3LD56	3LD58
N switching contacts (4th contact element)								
	**Contacts**		**Article No.**					
	Leading switch-on, lagging switch-off		3LD9250-0CA	■				
			3LD9280-0C		■			
			3LD9240-0C			■	■	■
N/PE terminals								
	**Contacts**		**Article No.**					
	Through-type		3LD9250-2CA	■				
			3LD9280-2C		■			
			3LD9240-2C			■	■	■
Auxiliary switches								
	• For mounting on the left and/or right • NO: lagging during switch-on, leading during switch-off of 3LD switch • NC: leading during switch-on, lagging during switch-off of 3LD switch							
	Contacts	**Contact surface**	**Article No.**					
	1 NO + 1 NC	Standard	3LD9200-5C	■	■	■	■	■
		Gold-plated	3LD9200-5CF	■	■	■	■	■
Terminal covers								
	Number of poles		**Article No.**					
	1-pole		3LD9251-2A	■				
			3LD9281-2A		■			
			3LD9241-2A			■	■	■
	3-pole		3LD9251-0A	■				

Quick selection guide, page 8/6

Operating mechanisms, red/yellow

3P	3P+N
	
3LD5000-0TK13	3LD5000-0TL13
3LD5200-0TK13	3LD5200-0TL13
3LD5400-0TK13	3LD5400-0TL13
3LD5600-0TK13	3LD5600-0TL13
3LD5800-0TK13	3LD5800-0TL13

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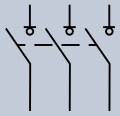
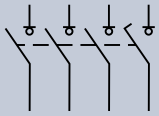
Quick selection guide, page 8/6

3LD switch disconnectors

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

Number of poles	Operating mechanisms, black	
	3P	3P+N
		

Uninterrupted current I_u At AC-21A, 380 ... 440 V	General use acc. to UL 489/508	Operational power P At AC-23A, 380 ... 440 V		
Door-coupling rotary operating mechanism, four-hole mounting				
32	30	15	3LD5010-0TK11	3LD5010-0TL11
63	60	30	3LD5210-0TK11	3LD5210-0TL11
100	100	45	3LD5410-0TK11	3LD5410-0TL11
125	125	55	3LD5610-0TK11	3LD5610-0TL11
160	150	75	3LD5810-0TK11	3LD5810-0TL11

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

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Accessories

N switching contacts (4th contact element)

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

N/PE terminals

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

Auxiliary switches (standard version)

- For mounting on the left and/or right
- NO: lagging during switch-on, leading during switch-off of 3LD switch
- NC: leading during switch-on, lagging during switch-off of 3LD switch

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

Auxiliary switch for mounting on the front

- Mounted on the front of the switch shaft
- NO: lagging during switch-on, leading (20 ... 150 ms) during switch-off of 3LD switch
- NC: leading during switch-on, lagging during switch-off of 3LD switch

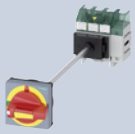
Contacts	Contact surface	Article No.	3LD50	3LD52	3LD54	3LD56	3LD58
1 NO + 1 NC	Standard	3LD9280-5D	■	■			
		3LD9240-5D			■	■	■
	Gold-plated	3LD9280-5DF	■	■			
		3LD9240-5DF			■	■	■

Handles

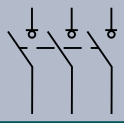
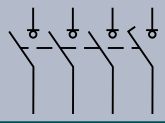
- Supplied with a masking plate, but without an extension shaft or coupling driver
- Can be locked with up to max. 3 padlocks

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

Quick selection guide, page 8/6

Operating mechanisms, red/yellow

3P	3P+N
	
3LD5010-0TK13	3LD5010-0TL13
3LD5210-0TK13	3LD5210-0TL13
3LD5410-0TK13	3LD5410-0TL13
3LD5610-0TK13	3LD5610-0TL13
3LD5810-0TK13	3LD5810-0TL13

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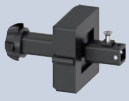
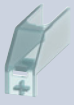
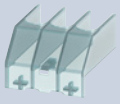
			3LD50	3LD52	3LD54	3LD56	3LD58
Supplementary handles for door-coupling rotary operating mechanism							
 • For requirements according to UL 508A/NFPA 79 • Can be locked with up to 1 padlocks in 0 position • Can only be switched on by deliberate action							
Inscription	**Color**	**Article No.**					
O-I	Gray	3LD9287-1C	■	■			
		3LD9247-1C			■	■	■
	Red/yellow	3LD9287-3C	■	■			
		3LD9247-3C			■	■	■
Coupling drivers							
	**Version**	**Article No.**					
	With tolerance compensation	8UD1900-1GA00	■	■			
		8UD1900-2GA00			■	■	■
	Without tolerance compensation	8UD1900-1HA00	■	■			
		8UD1900-2HA00			■	■	■
Terminal covers							
	Number of poles	**Article No.**					
	1-pole	3LD9251-2A	■				
		3LD9281-2A		■			
		3LD9241-2A			■	■	■
	3-pole	3LD9251-0A	■				
Inscription labels							
 • Not for installation in distribution boards							
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			■	■	■

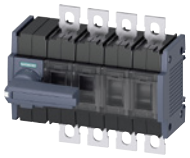
Quick selection guide, page 8/6

3KD switch disconnectors

System overview

Complete units with direct operating mechanisms

Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole

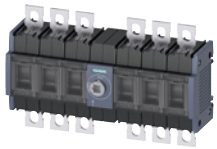
Basic units

Front operating mechanisms, 3-pole

Front operating mechanisms, 4-pole

Lateral operating mechanisms, 3-pole

Lateral operating mechanisms, 4-pole



Front-mounted devices, 6-pole for DC applications

Front operating mechanisms, 3-pole

Additional poles and auxiliary switch modules

4th contact elements

N terminals

N/PE terminals

Auxiliary switch modules

Operating mechanisms

Direct operating mechanisms

Door-coupling rotary operating mechanisms

Handles for door-coupling rotary operating mechanisms

Further accessories for door-coupling rotary operating mechanisms

Further accessories and spare parts

Auxiliary switches

Terminal covers

Phase barriers

Blocking pin test function

Mounting elements

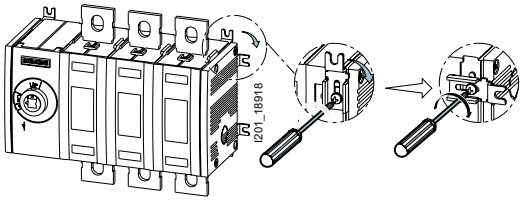
Accessories for DC applications

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

Types of mounting

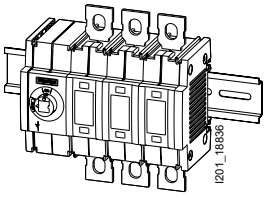
You will find further information under:
sie.ag/2UlrAvy

Floor mounting



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

DIN rail



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

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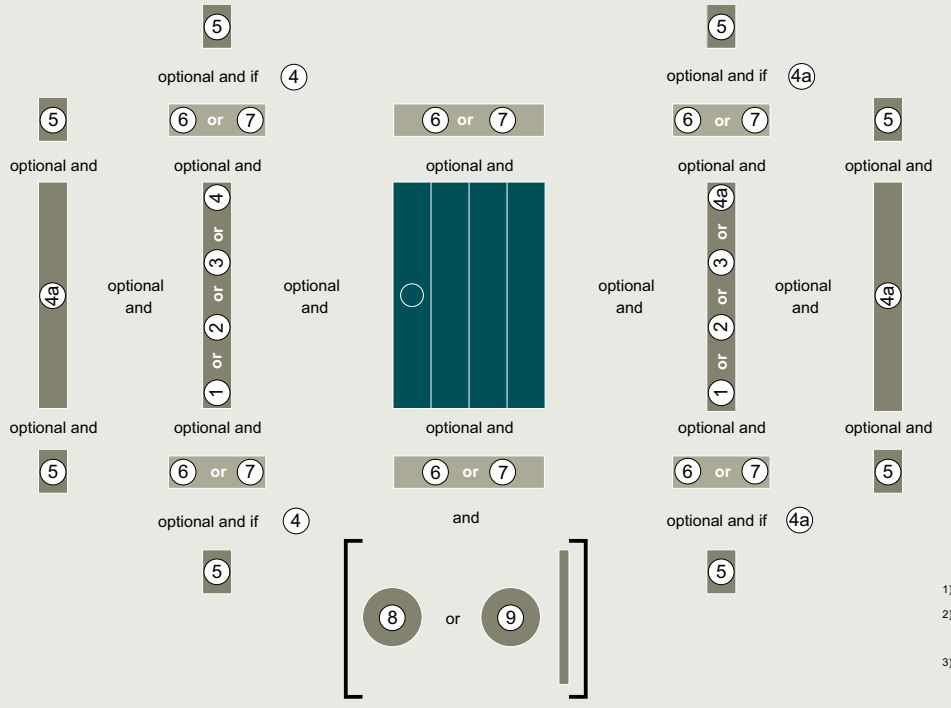
3KD switch disconnectors

Mounting concept and accessories

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



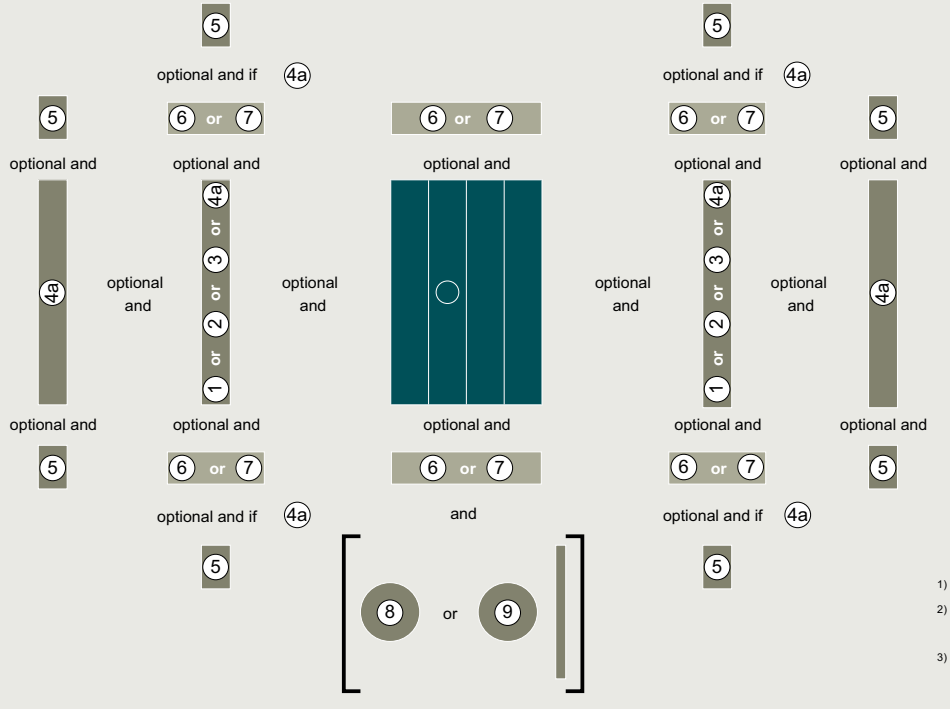
Legend

1. Neutral conductor terminal
2. N/PE terminal
3. 4th contact element[1)]
4. Auxiliary switch module, version with test function and version with leading NO contact and test function [2)]
4a. Auxiliary switch module for auxiliary switches, standard version [2)]
5. Auxiliary switch
6. Phase barrier [3)]
7. Terminal cover[3)]
8. Direct operating mechanism
9. Door-coupling rotary operating mechanism

[1)] Only for 3-pole 3K, max. 1× per switch
[2)] Max. 1× for each side of the switch, requires at least 1× auxiliary switch 5
[3)] Only for size 2, flat terminals

I201_20487

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



Legend

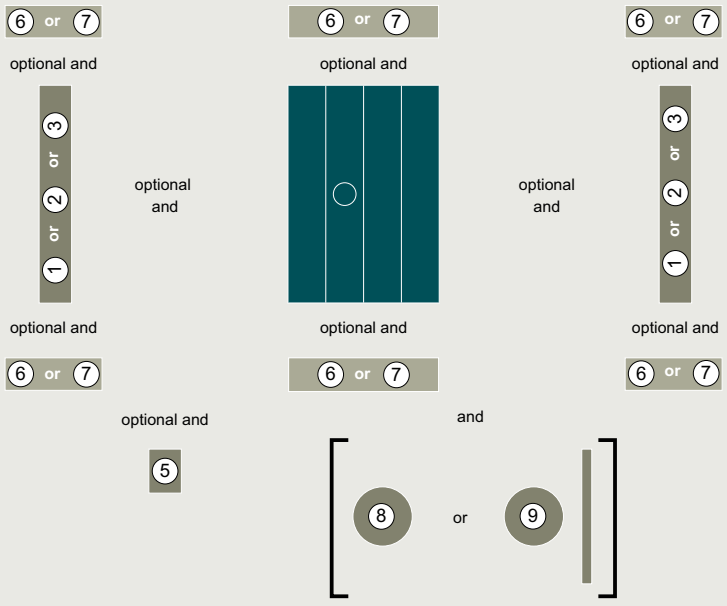
1. Neutral conductor terminal
2. N/PE terminal
3. 4th contact element[1)]
4a. Auxiliary switch module for auxiliary switches, standard version [2)]
5. Auxiliary switch
6. Phase barrier [3)]
7. Terminal cover [3)]
8. Direct operating mechanism
9. Door-coupling rotary operating mechanism

[1)] Only for 3-pole 3K, max. 1× per switch
[2)] Max. 1× for each side of the switch, requires at least 1× auxiliary switch 5
[3)] Only for size 2, flat terminals

I201_20488

System overview, page 8/60

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



Legend

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

[1] Only for 3-pole 3K, max. 1× per switch
[2] Up to 4× auxiliary switches (5)

I201_20489

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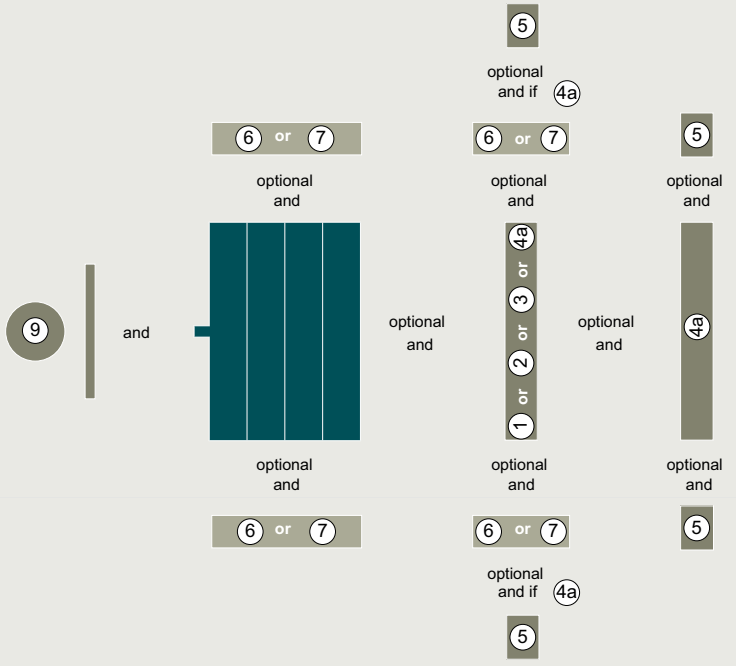
System overview, page 8/60

3KD switch disconnectors

Mounting concept and accessories

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



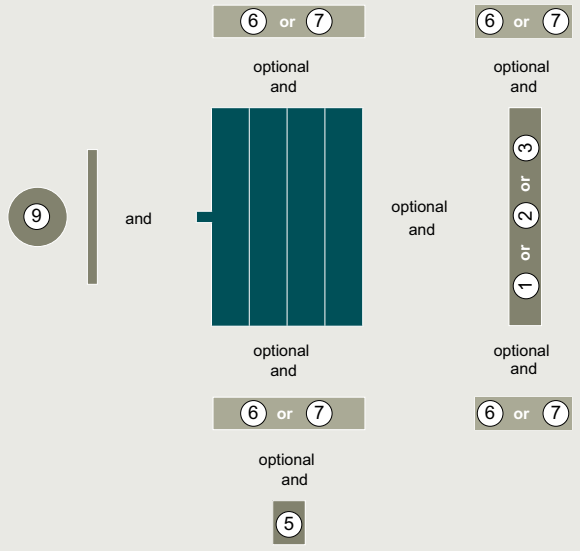
Legend

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

[1] Only for 3-pole 3K
[2] Max. 1× per switch, Requires at least 1× auxiliary switch 5
[3] Only for size 2, flat terminals

I201_20490

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



Legend

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

[1] Only for 3-pole 3K
[2] Up to 4× auxiliary switches

I201_20491

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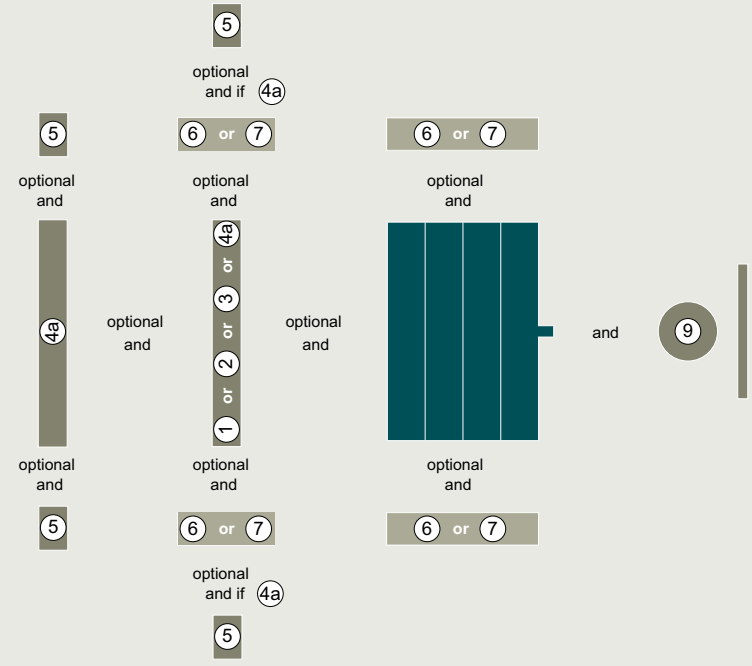
System overview, page 8/60

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



Legend

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

[1] Only for 3-pole 3K
[2] Max. 1× per switch, requires at least 1× auxiliary switch (5)
[3] Only for size 2, flat terminals

I201_20492

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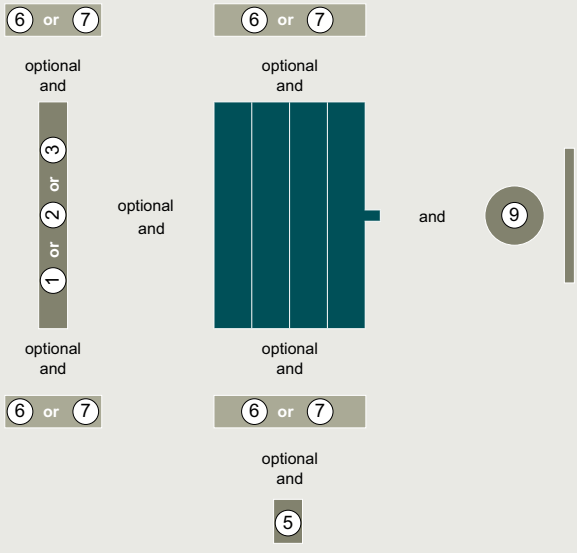
Lateral operating mechanism right, sizes 3 to 5, 3/4-pole



Legend

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

[1] Only for 3-pole 3K
[2] Up to 4× auxiliary switches (5)

I201_20493

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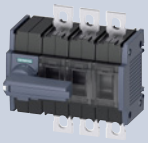
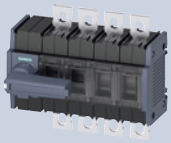
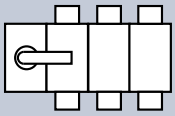
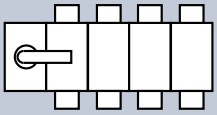
3KD switch disconnectors

Complete units with direct operating mechanisms





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

Size	Uninterrupted current I_u		
Box terminals			
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. 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 1 and 2 can optionally also be mounted on DIN rails

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

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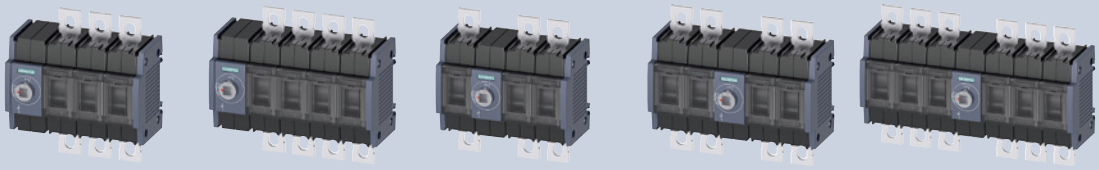
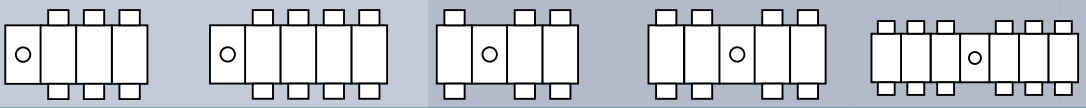
3KD switch disconnectors

Basic units without handles



	Front operating mechanism Left		Front operating mechanism Center		
Application	AC/DC	AC/DC	AC/DC	AC/DC	DC
Number of poles	3P	4P	3P	4P	6P



Size	Uninterrupted current I_u					
Box terminals						
1	16 A	3KD1630-2ME10-0	3KD1640-2ME10-0	3KD1630-2ME20-0	3KD1640-2ME20-0	3KD1660-2ME20-0
	32 A	3KD2230-2ME10-0	3KD2240-2ME10-0	3KD2230-2ME20-0	3KD2240-2ME20-0	3KD2260-2ME20-0
	63 A	3KD2630-2ME10-0	3KD2640-2ME10-0	3KD2630-2ME20-0	3KD2640-2ME20-0	3KD2660-2ME20-0
	80 A	3KD2830-2ME10-0	3KD2840-2ME10-0	3KD2830-2ME20-0	3KD2840-2ME20-0	–
	100 A	3KD3030-2ME10-0	3KD3040-2ME10-0	3KD3030-2ME20-0	3KD3040-2ME20-0	–
2	80 A	3KD2830-2NE10-0	3KD2840-2NE10-0	3KD2830-2NE20-0	3KD2840-2NE20-0	3KD2860-2NE20-0
	100 A	3KD3030-2NE10-0	3KD3040-2NE10-0	3KD3030-2NE20-0	3KD3040-2NE20-0	3KD3060-2NE20-0
	125 A	3KD3230-2NE10-0	3KD3240-2NE10-0	3KD3230-2NE20-0	3KD3240-2NE20-0	3KD3260-2NE20-0
	160 A	3KD3430-2NE10-0	3KD3440-2NE10-0	3KD3430-2NE20-0	3KD3440-2NE20-0	3KD3460-2NE20-0
Flat terminals						
2	80 A	3KD2830-0NE10-0	3KD2840-0NE10-0	3KD2830-0NE20-0	3KD2840-0NE20-0	3KD2860-0NE20-0
	100 A	3KD3030-0NE10-0	3KD3040-0NE10-0	3KD3030-0NE20-0	3KD3040-0NE20-0	3KD3060-0NE20-0
	125 A	3KD3230-0NE10-0	3KD3240-0NE10-0	3KD3230-0NE20-0	3KD3240-0NE20-0	3KD3260-0NE20-0
	160 A	3KD3430-0NE10-0	3KD3440-0NE10-0	3KD3430-0NE20-0	3KD3440-0NE20-0	3KD3460-0NE20-0
	200 A	3KD3630-0NE10-0	3KD3640-0NE10-0	3KD3630-0NE20-0	3KD3640-0NE20-0	–
	250 A	3KD3830-0NE10-0	3KD3840-0NE10-0	3KD3830-0NE20-0	3KD3840-0NE20-0	–
3	200 A	3KD3630-0PE10-0	3KD3640-0PE10-0	3KD3630-0PE20-0	3KD3640-0PE20-0	3KD3660-0PE20-0
	250 A	3KD3830-0PE10-0	3KD3840-0PE10-0	3KD3830-0PE20-0	3KD3840-0PE20-0	3KD3860-0PE20-0
	315 A	3KD4030-0PE10-0	3KD4040-0PE10-0	3KD4030-0PE20-0	3KD4040-0PE20-0	3KD4060-0PE20-0
	400 A	3KD4230-0PE10-0	3KD4240-0PE10-0	3KD4230-0PE20-0	3KD4240-0PE20-0	3KD4260-0PE20-0
	500 A	3KD4430-0PE10-0	3KD4440-0PE10-0	3KD4430-0PE20-0	3KD4440-0PE20-0	–
4	500 A	3KD4430-0QE10-0	3KD4440-0QE10-0	3KD4430-0QE20-0	3KD4440-0QE20-0	3KD4460-0QE20-0
	630 A	3KD4630-0QE10-0	3KD4640-0QE10-0	3KD4630-0QE20-0	3KD4640-0QE20-0	3KD4660-0QE20-0
	800 A	3KD4830-0QE10-0	3KD4840-0QE10-0	3KD4830-0QE20-0	3KD4840-0QE20-0	3KD4860-0QE20-0
	1000 A	3KD5030-0QE10-0	3KD5040-0QE10-0	3KD5030-0QE20-0	3KD5040-0QE20-0	–
5	1000 A	3KD5030-0RE10-0	3KD5040-0RE10-0	3KD5030-0RE20-0	3KD5040-0RE20-0	3KD5060-0RE20-0
	1250 A	3KD5230-0RE10-0	3KD5240-0RE10-0	3KD5230-0RE20-0	3KD5240-0RE20-0	3KD5260-0RE20-0
	1600 A	3KD5430-0RE10-0	3KD5440-0RE10-0	3KD5430-0RE20-0	3KD5440-0RE20-0	3KD5460-0RE20-0
	2000 A	3KD5630-0RE10-0	3KD5640-0RE10-0	3KD5630-0RE20-0	3KD5640-0RE20-0	–

Scope of supply:
- 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 1 and 2 can optionally also be mounted on DIN rails

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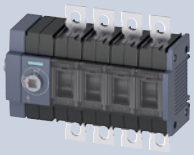
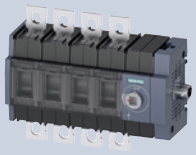
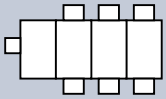
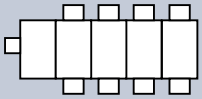
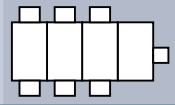
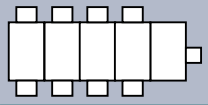




Front operating mechanism Left		**Right**	
AC/DC	AC/DC	AC/DC	AC/DC
3P	4P	3P	4P
			
3KD1634-2ME10-0	3KD1644-2ME10-0	3KD1634-2ME40-0	3KD1644-2ME40-0
3KD2234-2ME10-0	3KD2244-2ME10-0	3KD2234-2ME40-0	3KD2244-2ME40-0
3KD2634-2ME10-0	3KD2644-2ME10-0	3KD2634-2ME40-0	3KD2644-2ME40-0
3KD2834-2ME10-0	3KD2844-2ME10-0	3KD2834-2ME40-0	3KD2844-2ME40-0
3KD3034-2ME10-0	3KD3044-2ME10-0	3KD3034-2ME40-0	3KD3044-2ME40-0
3KD2834-2NE10-0	3KD2844-2NE10-0	3KD2834-2NE40-0	3KD2844-2NE40-0
3KD3034-2NE10-0	3KD3044-2NE10-0	3KD3034-2NE40-0	3KD3044-2NE40-0
3KD3234-2NE10-0	3KD3244-2NE10-0	3KD3234-2NE40-0	3KD3244-2NE40-0
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3KD4634-0QE10-0	3KD4644-0QE10-0	3KD4634-0QE40-0	3KD4644-0QE40-0
3KD4834-0QE10-0	3KD4844-0QE10-0	3KD4834-0QE40-0	3KD4844-0QE40-0
3KD5034-0QE10-0	3KD5044-0QE10-0	3KD5034-0QE40-0	3KD5044-0QE40-0
3KD5034-0RE10-0	3KD5044-0RE10-0	3KD5034-0RE40-0	3KD5044-0RE40-0
3KD5234-0RE10-0	3KD5244-0RE10-0	3KD5234-0RE40-0	3KD5244-0RE40-0
3KD5434-0RE10-0	3KD5444-0RE10-0	3KD5434-0RE40-0	3KD5444-0RE40-0
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

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3KD switch disconnectors

Accessories

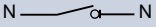
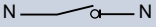
Additional poles

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).

4th contact elements (switching pole)

- For upgrading a 3-pole to a 4-pole switch disconnector
- For sizes 1 to 5, identical to the factory-fitted poles

	Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
	Box terminals 	3KD9105-2	■				
		3KD9205-2		■			
	Flat terminals 	3KD9205-0		■			
		3KD9305-0			■		
		3KD9405-0				■	
		3KD9505-0					■

N terminals (neutral conductor terminal) with removable jumper

- A jumper can be removed in order to interrupt the electrical connection between the terminals

	Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
	Box terminals 	3KD9106-2	■				
		3KD9206-2		■			
	Flat terminals 	3KD9206-0		■			
		3KD9306-0			■		
		3KD9406-0				■	
		3KD9506-0					■

N/PE terminals with permanent jumper

- Permanent electrical connection between the terminals, cannot be broken

	Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
	Box terminals 	3KD9106-8	■				
		3KD9206-8		■			
	Flat terminals 	3KD9206-7		■			
		3KD9306-7			■		
		3KD9406-7				■	
		3KD9506-7					■

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Operating mechanisms

Direct operating mechanisms, standard version

- Can be locked with up to max. 3 padlocks
- Requires additional mounting depth in locked state
- Not suitable for basic units with a lateral operating mechanism

Inscription	Color	Article No.	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					■

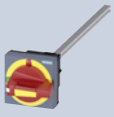
Direct operating mechanisms, flat version

- Suitable for distribution boards and only basic units with a front operating mechanism
- Can be locked with one padlock
- No additional mounting depth in locked state

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

Door-coupling rotary operating mechanisms, complete

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



Inscription	Tolerance compensation	Defeat function	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
O – I	Without	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

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3KD switch disconnectors

Accessories

Accessories for door-coupling rotary operating mechanisms

Handles

- Supplied with a masking plate, but without an extension shaft and without coupling driver
- Can be locked with up to max. 3 padlocks

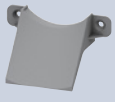
Inscription	Lighting	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
O – I	Without	Gray	8UD1771-2AD01	■	■			
			8UD1841-2AD01			■		
			8UD1851-3AD01				■	
			8UD1861-4AD01					■
		Red/yellow	8UD1771-2AD05	■	■			
			8UD1841-2AD05			■		
			8UD1851-3AD05				■	
			8UD1861-4AD05					■
	With	Gray	8UD1771-2CD01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

Extension shafts

- 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.	Size 1	Size 2	Size 3	Size 4	Size 5
300 mm	8UC6032	■	■	■		
	8UC6033				■	
	8UC6034					■
600 mm	8UC6082	■	■	■		
	8UC6083				■	
	8UC6084					■

Shaft jack for 8UD1 handle



Version	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For shaft 600 mm	8UD1900-0FA00	■	■			

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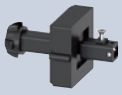
System overview, page 8/60

Accessories for door-coupling rotary operating mechanisms

Coupling drivers



Version	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
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

Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
8UC6022	■	■	■		
8UC6023				■	
8UC6024					■

Further accessories and spare parts

Auxiliary switch modules

- 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.	Size 1	Size 2	Size 3	Size 4	Size 5
Standard version	3KD9103-5	■	■			
With test function	3KD9103-6	■	■			
With leading NO contact and test function	3KD9103-7	■	■			

Auxiliary switches

- Auxiliary switches for sizes 3 to 5 have a screw terminal and are mounted on the 3KD operating mechanism module. Auxiliary switches with spring-type terminals from the 3SU1 program can also be used.
- All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see operating instructions).

Type	Contacts	Contact surface	Article No.	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			■	■	■

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System overview, page 8/60

3KD switch disconnectors

Accessories

Further accessories and spare parts

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

Terminal covers

- For 3KD with flat terminals
- Not permissible for 2000 A devices

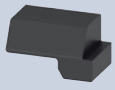
Version	Scope of supply	Type	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For 3-pole devices	6 units	Standard version	3KD9504-6					■
			3KD9204-6		■			
		Short version	3KD9204-7		■			
	8 units	Standard version	3KD9304-6			■		
			3KD9404-6				■	
		Short version	3KD9304-7			■		
			3KD9404-7				■	
For 4-pole devices	8 units	Standard version	3KD9504-8					■
			3KD9204-8		■			
		Short version	3KD9204-5		■			
	10 units	Standard version	3KD9304-8			■		
			3KD9404-8				■	
		Short version	3KD9304-5			■		
			3KD9404-5				■	

Spare part for terminal covers

- Not permissible for 2000 A devices

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

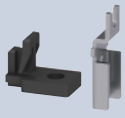
Blocking pin test function



- 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 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 1	Size 2	Size 3	Size 4	Size 5
4 units	3KD9120-1	■	■			
	3KF9212-0AA00			■		
	3KF9412-0AA00				■	
	3KF9512-0AA00					■

Slide for mounting on a DIN rail

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

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

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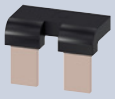
System overview, page 8/60

Accessories for DC applications

Connecting bridges



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

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

Terminal covers for connecting bridges

- For 3KD with flat terminals

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

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System overview, page 8/60

Fuse switch disconnectors

Quick selection guide

3NP1

Size			000 narrow	000	00	1	2	3
General technical specifications acc. to IEC 60947-3								
Basic data								
Rated uninterrupted current I_u		A	125	125 [2]	160	250	400	630
For fuse links acc. to IEC 60269-2		Size	000	000	00 and 000	1 and 0	2 and 1	3 and 2
Rated operational voltage U_e	At 50/60 Hz AC	V	690	690	690			
	At DC (3 conducting paths in series)	V	–	440	440			
	At DC (2 conducting paths in series)	V	–	240	240			
	At DC	V	–	–	–			
	For utilization category AC-20B or DC-20B	V	–	690 [1]	690 [1]			
Operating and short-circuit behavior								
Rated operational current I_e	At AC-21B, 400 V AC	A	125	125 [2]	160	250	400	630
	At AC-22A, 400 V AC	A	–	–	–	–	–	–
	At AC-22B, 400 V AC	A	125	125 [2]	160	250	400	630
	At AC-23B, 400 V AC	A	63	125 [2]	160	250	400	630
	At AC-21B, 500 V AC	A	125	125 [2]	160	250	400	630
	At AC-22B, 500 V AC	A	125	125	160	250	400	630
	At AC-23B, 500 V AC	A	–	40	63	200	315	500
	At AC-21B, 690 V AC	A	80	125 [2]	160	250	400	630
	At AC-22B, 690 V AC	A	–	50	125	250	400	500
	At AC-23B, 690 V AC	A	–	25	35	100	125	200
	At DC-21B (2 conducting paths in series), 240 V DC	A	–	125 [2]	160	250	400	630
	At DC-22B (2 conducting paths in series), 240 V DC	A	–	100	160	250	400	630
	At DC-23B (2 conducting paths in series), 240 V DC	A	–	80	100	200	250	400
	At DC-21B (3 conducting paths in series), 440 V DC	A	–	100	160	250	400	630
	At DC-22B (3 conducting paths in series), 440 V DC	A	–	50	125	200	315	500
	At DC-23B (3 conducting paths in series), 440 V DC	A	–	25	63	100	160	250
Rated conditional short-circuit current with fuses (by fast switch on)	Rated current at 400 V/500 V/690 V	kA	80/80/80	80/80/80	80/80/80	80/80/50	80/80/50	50/50/50
	Permissible let-through current of the fuses, peak value	kA	10	10	15	25	40	50
Short-circuit strength with fuses (with closed disconnector)	Rated current at 500 V/690 V	kA	80/80	120/100	120/100	120/100	100/100	100/100
	Permissible let-through I^2t value of the fuses	kA^2s	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, cULus [4]			
Further information								
					See page 8/78			

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
									
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	–	–	–	–	–	–
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 8/92				See page 8/96					See page 8/108

[1] Applies to degree of pollution 3 (for degree of pollution 2, use up to U_i 1000 V possible)
[2] If optional infeed terminal is used max. 160 A
[3] Max. 9 W for operation up to 160 A
[4] 3NP1 NH000 in narrow design only has IEC approval

3NP1 fuse switch disconnectors

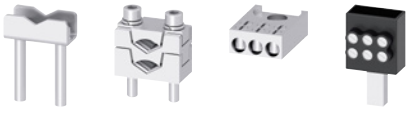
System overview

Basic units

1, 3, 4-pole for floor mounting

3 and 4-pole mounting on busbar systems

Connection parts



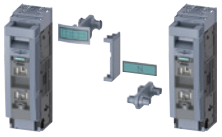
Terminals for retrofitting to 3NP1

Auxiliary conductor connections

3-phase busbars

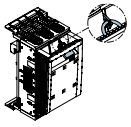
Assembly kits

DIN-rail mounting

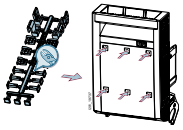


Mechanical connection

1/4-pole busbar mounting

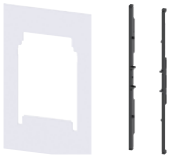


Locking function



Protection against power theft

Masking frames and covers



Masking frames and supports

Cable connection covers

Reach-around protection for busbar

Further accessories

Auxiliary switches

Isolating blades

Fuse carriers with and without fuse monitoring

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

General information

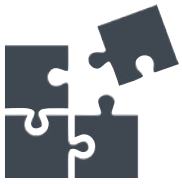
3NA COM LV HRC fuse links

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

See Fuse Systems, page 7/50

Modular design

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

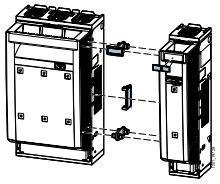


The 3NP1 fuse switch disconnector has a modular design.
A wide variety of switch combinations can be created by connecting two devices or by subsequently fitting accessories. All common switch combinations are available from the factory ready for installation and can be found on the following ordering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

The fastest and simplest way to find the right switch combination is to use our 3NP1 configurator at **sie.ag/3IlXQZH**.

Number of poles

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

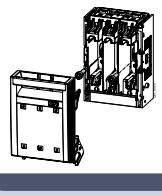


3NP1 fuse switch disconnectors are available from the factory in 1, 3 and 4-pole device versions.
4-pole types are available in all common versions from the factory ready for installation (without fuse monitoring, N-pole on the right-hand side).

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

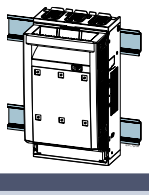
Floor mounting and DIN rail

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



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

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



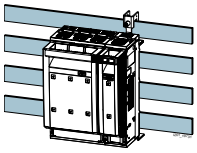
The devices for floor mounting of sizes 000, 00 and 1 can also be mounted on a DIN rail using accessories. For this purpose, the assembly kit for mounting on a DIN rail is simply mounted on the rear panel of the 3NP1.

3NP1 fuse switch disconnectors

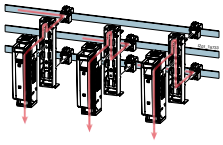
General information

Mounting on busbar systems

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



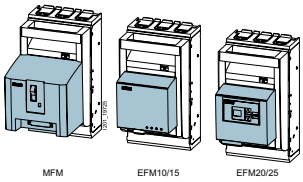
3-pole and 4-pole 3NP1 are available for mounting on busbar systems. In the case of 4-pole devices, the infeed for the fourth pole is supplied by the neutral conductor bar located above the 3 phases.



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



MFM EFM10/15 EFM20/25

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

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

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

MFM electromechanical fuse monitoring with an installed SIRIUS circuit breaker

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

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

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

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

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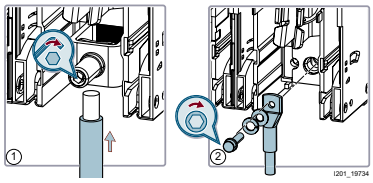
Electrical connection

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



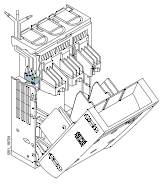
3NP1 are available in versions with box terminals (all sizes) or flat terminals (sizes 00 and larger).

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

Further accessories

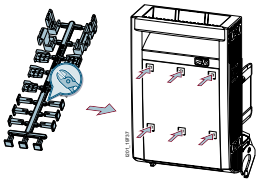
You will find further information under: sie.ag/2UlrAvy

Auxiliary switches



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

Power theft



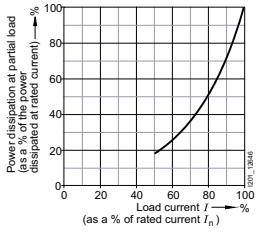
The assembly kit for protection from power theft seals the holes on the front of the 3NP1 (for voltage testing) permanently, which reliably prevents unauthorized access to live parts.

Isolating blades

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

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.

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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 A**	**I_u = 250 A**	**I_u = 400 A**	**I_u = 630 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 operational voltage is limited by the fuse monitoring
- Permissible operational voltage with fuse monitoring:
  - MFM AC max. 690 V (L – L)/max. 440 V (L+ – L–)
  - EFM10 230 ... 690 V AC (L – L)
  - EFM15 3-pole 190 ... 690 V AC (L – L)
  - EFM15 1-pole 24 ... 240 V AC (L – N)/24 ... 250 V DC (L+ – L–)
  - EFM20 230 ... 690 V AC (L – L)
- Additional variants are available as accessories:
  - EFM15 with further operational voltage ranges
  - EFM25 – DC version of the EFM20
- Devices for busbar mounting with reach-around protection
  - For Siemens 8US, mounting is possible on the Wöhner Classic and Rittal RiLine systems without a floor pan
  - For Rittal, mounting is possible on the RiLine60 system with a floor pan

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Box terminals					
NH000 narrow	NH000	NH00	NH1	NH2	NH3
					
I_u = 125 A	I_u = 125 A [2]	I_u = 160 A	I_u = 250 A	I_u = 400 A	I_u = 630 A
–	3NP1121-1CA20	3NP1131-1CA20	3NP1141-1DA20	3NP1151-1DA20	3NP1161-1DA20
3NP1113-1CA20	3NP1123-1CA20	3NP1133-1CA20	3NP1143-1DA20	3NP1153-1DA20	3NP1163-1DA20
–	3NP1124-1CA20	3NP1134-1CA20	3NP1144-1DA20	3NP1154-1DA20	3NP1164-1DA20
–	–	3NP1133-1CA21	3NP1143-1DA21	3NP1153-1DA21	3NP1163-1DA21
–	3NP1123-1CA22	3NP1133-1CA22	3NP1143-1DA22	3NP1153-1DA22	3NP1163-1DA22
–	3NP1121-1CA24	3NP1131-1CA24	3NP1141-1DA24	3NP1151-1DA24	3NP1161-1DA24
–	3NP1123-1CA24	3NP1133-1CA24	3NP1143-1DA24	3NP1153-1DA24	3NP1163-1DA24
–	3NP1123-1CA23	3NP1133-1CA23	3NP1143-1DA23	3NP1153-1DA23	3NP1163-1DA23
3NP1113-1BC20 [1]	3NP1123-1BC20	3NP1133-1BC20	3NP1143-1BC20	3NP1153-1BC20	3NP1163-1BC20
–	3NP1124-1BC20	3NP1134-1BC20	3NP1144-1BC20	3NP1154-1BC20	3NP1164-1BC20
–	–	3NP1133-1BC21	3NP1143-1BC21	3NP1153-1BC21	3NP1163-1BC21
–	3NP1123-1BC22	3NP1133-1BC22	3NP1143-1BC22	3NP1153-1BC22	3NP1163-1BC22
–	3NP1123-1BC24	3NP1133-1BC24	3NP1143-1BC24	3NP1153-1BC24	3NP1163-1BC24
–	3NP1123-1BC23	3NP1133-1BC23	3NP1143-1BC23	3NP1153-1BC23	3NP1163-1BC23
3NP1113-1BC20 [1]	3NP1123-1JC20	3NP1133-1JC20	3NP1143-1JC20	3NP1153-1JC20	3NP1163-1JC20
–	–	3NP1133-1JC21	3NP1143-1JC21	3NP1153-1JC21	3NP1163-1JC21
–	3NP1123-1JC22	3NP1133-1JC22	3NP1143-1JC22	3NP1153-1JC22	3NP1163-1JC22
–	3NP1123-1JC23	3NP1133-1JC23	3NP1143-1JC23	3NP1153-1JC23	3NP1163-1JC23
–	3NP1123-1BB20	3NP1133-1BB20	–	–	–
–	–	3NP1133-1BB21	–	–	–
–	3NP1123-1BB22	3NP1133-1BB22	–	–	–
–	3NP1123-1BB23	3NP1133-1BB23	–	–	–
–	3NP1123-1JB20	3NP1133-1JB20	–	–	–
–	–	3NP1133-1JB21	–	–	–
–	3NP1123-1JB22	3NP1133-1JB22	–	–	–
–	3NP1123-1JB23	3NP1133-1JB23	–	–	–

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

[2] If optional infeed terminal is used max. 160 A

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Quick selection guide, page 8/76

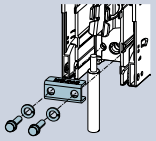
3NP1 fuse switch disconnectors

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

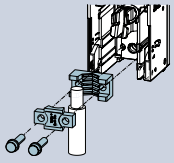
Saddle terminals



- Allows connection of stripped circular conductors to 3NP1 with flat terminals

Connection	Conductor cross-section	1-pole Article No.	3-pole Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
	1.5 ... 70 mm²	3NP1931-1BA00	3NP1933-1BA00			■			
	70 ... 120 mm²	3NP1941-1BA00	3NP1943-1BA00				■		
	120 ... 240 mm²	3NP1951-1BA00	3NP1953-1BA00					■	
	150 ... 300 mm²	3NP1961-1BA00	3NP1963-1BA00						■

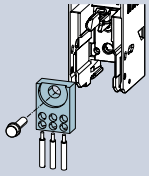
Prism terminals



- 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	1-pole Article No.	3-pole Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Single	35 ... 95 mm²	3NP1931-1BB10	3NP1933-1BB10			■			
	70 ... 150 mm²	3NP1941-1BB10	3NP1943-1BB10				■		
	120 ... 240 mm²	3NP1951-1BB10	3NP1953-1BB10					■	
	150 ... 300 mm²	3NP1961-1BB10	3NP1963-1BB10						■
Double	2 × 35 ... 70 mm²	3NP1941-1BB20	3NP1943-1BB20				■		
	2 × 70 ... 120 mm²	3NP1951-1BB20	3NP1953-1BB20					■	
	2 × 150 ... 185 mm²	3NP1961-1BB20	3NP1963-1BB20						■

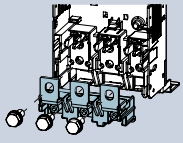
Three-tier terminals



- Distributes one outgoing feeder directly to three smaller loads

Type	Conductor cross-section	1-pole Article No.	3-pole Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
For 3NP1 with flat terminals	3 × 1.5 ...16 mm²	3NP1931-1BE10	3NP1933-1BE10			■			
For 3NP1 with box terminals	3 × 1.5 ...16 mm²	3NP1921-1BE20	3NP1923-1BE20		■	■			

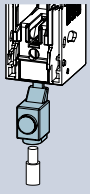
Connection module



- 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	1-pole Article No.	3-pole Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Connection module	3 × 6 ... 70 mm²	3NP1931-1BC00	3NP1933-1BC00			■			

Infeed terminal



- Extends the conductor cross-section of a 000 with box terminal to up to 95 mm²

Version	Conductor cross-section	1-pole Article No.	3-pole Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Infeed terminal	16 ... 95 mm²	3NP1921-1BD00	3NP1923-1BD00		■				

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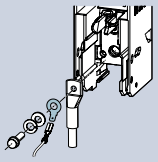
Connection technology

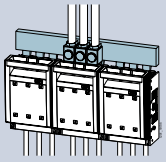
Auxiliary conductor connections



- 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	Article No.	3-pole NH000 narrow	3-pole NH000	3-pole NH00	3-pole NH1	3-pole NH2	3-pole NH3
With flat terminals	3NP1933-1BG10			■			
	3NP1943-1BG10				■		
	3NP1943-1BG10					■	
	3NP1943-1BG10						■
With box terminals	3NP1923-1BG40	■	■				
	3NP1933-1BG40			■			
	3NP1943-1BG40				■		
	3NP1953-1BG40					■	
	3NP1953-1BG40						■
With retrofitted prism and saddle terminals	3NP1933-1BG30			■			
	3NP1943-1BG30				■		
	3NP1953-1BG30					■	
	3NP1953-1BG30						■

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.	3-pole NH000
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	■

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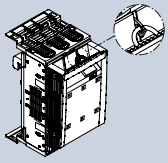
3NP1 fuse switch disconnectors

Accessories

Assembly kits

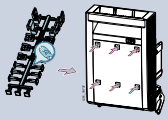
Retrofitting of locking function



- For all versions of the 3NP1
- If required for locking with a padlock (not necessary for the 1-pole 3NP1 and NH000, narrow design)

Scope of supply	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
1 pack = 10 units	3NP1900-1HA00		■	■	■	■	■

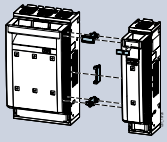
Protection against power theft



- 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	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
1 pack is sufficient to equip 5 3NP1 units, 2.5 units for NH000, narrow design	3NP1900-1EF00	■	■	■	■	■	■

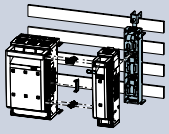
Mechanical connection of 1-pole and 3-pole 3NP1 devices



- For 3NP1 with floor mounting
- By combining two 3NP1s for floor mounting, any 2-pole and 4-pole devices can be created

	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
	3NP1921-1EC00		■				
	3NP1931-1EC00			■			
	3NP1941-1EC00				■	■	■

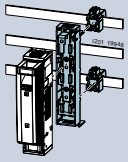
4-pole connection assembly kit for mounting on a 8US 60-mm busbar



- Connects a 3-pole 3NP1 for busbar mounting 60 mm 8US to a 1-pole 3NP1 for floor mounting
- The 1-pole 3NP1 switches the neutral conductor of a 3P+N system in this combination

3NP1 connection	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
With flat terminals	3NP1934-1ED20			■			
With box terminals	3NP1924-1ED10		■				
	3NP1934-1ED10			■			
With flat terminals or box terminals	3NP1944-1ED00				■		
	3NP1954-1ED00					■	■

1-pole connection assembly kit for mounting on a 8US 60-mm busbar



- 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	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
With box terminals	3NP1921-1EE10		■				
	3NP1931-1EE10			■			

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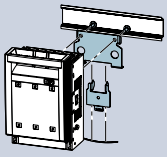
Assembly kits



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

	1/2-pole	3-pole	4-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Assembly kits for mounting on DIN rail									
	Article No.	**Article No.**	**Article No.**						
	3NP1921-1EA00	3NP1923-1EA00	3NP1924-1EA00		■				
	–	3NP1913-1EB00	–	■					
	3NP1931-1EB00	3NP1933-1EB00	3NP1933-1EB00			■			
	3NP1943-1EB00	3NP1943-1EB00	3NP1943-1EB00				■		

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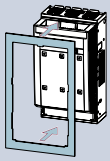
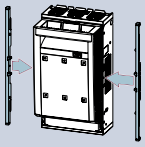
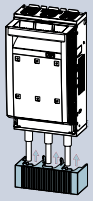
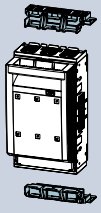
3NP1 fuse switch disconnectors

Accessories

Masking frames and covers

	1-pole	3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Masking frames								
 • 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								
 • Are mounted on the side of the 3NP1 and prevent the supported masking frame from sagging (pack of 2 units)								
	Article No.	**Article No.**						
	3NP1923-1CF00	3NP1923-1CF00		■				
	–	3NP1913-1CF00 [1]	■					
	3NP1933-1CF00	3NP1933-1CF00			■			
	3NP1943-1CF00	3NP1943-1CF00				■	■	■
Cable connection covers								
 • Extends the terminal covers integrated in the 3NP1 • In the version with rear reach-around protection, the underside is also covered								
Version	**Article No.**	**Article No.**						
Without rear reach-around protection	3NP1921-1CB00	3NP1923-1CB00 [1]		■				
	–	3NP1913-1CB00	■					
	3NP1931-1CB00	3NP1933-1CB00 [2]			■			
	3NP1941-1CB00	3NP1943-1CB00				■		
	3NP1951-1CB00	3NP1953-1CB00					■	
	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)								
 • Covers the busbar • For conversion of a 3NP1 to another busbar system								
For busbar systems	**Article No.**	**Article No.**						
Siemens 8US	–	3NP1923-1CA10		■				
	–	3NP1913-1CA10	■					
	–	3NP1933-1CA10			■			
	3NP1941-1CA10	–				■	■	■
	–	3NP1943-1CA10				■		
	–	3NP1953-1CA10					■	
	–	3NP1963-1CA10						■
Siemens 8US compact	–	3NP1923-1CA30		■				
Rittal	–	3NP1923-1CA20		■				
	–	3NP1913-1CA10						
	–	3NP1933-1CA20			■			
	–	3NP1943-1CA20				■		
	–	3NP1953-1CA20					■	
	–	3NP1963-1CA20						■

[1] Only for 3NP1 for mounting on busbar systems
[2] Only for 3NP1 with flat terminals
[3] Only for 3NP1 with flat terminals for floor mounting

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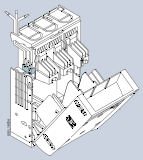
Further accessories

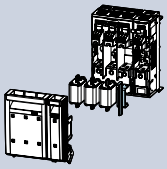
Auxiliary switches



- Up to 2 auxiliary switches can be mounted
- From size NH00, it is possible to choose whether the auxiliary switch will switch simultaneously with the fuses or leading on switch-on. (only leading possible for size NH000)

Contacts	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
1 CO	3NP1920-1FA00		■				
	3NP1910-1FA00	■					
	3NP1930-1FA00			■			
	3NP1940-1FA00				■	■	■
1 CO, solid-state compatible	3NP1920-1FB00		■				
	3NP1930-1FB00			■			
	3NP1940-1FB00				■	■	■

Isolating blades



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

Version	Article No.	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Switching simultaneously with fuses	3NG1002		■	■			
	3NG1202				■		
	3NG1302					■	
	3NG1402						■
Leading switch-on, lagging switch-off	3NP1924-1MA20		■				
	3NP1934-1MA20			■			
	3NP1944-1MA20				■		
	3NP1954-1MA20					■	
	3NP1964-1MA20						■

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3NP1 fuse switch disconnectors

Accessories

Further accessories

		1-pole	3-pole	NH000 narrow	NH000	NH00	NH1	NH2	NH3
Fuse carriers (spare part)									
	• For retrofitting fuse monitoring on an existing 3NP1								
	Version	**Article No.**	**Article No.**						
	Standard – without fuse monitoring	3NP1921-1GA00	3NP1923-1GA00		■				
		–	3NP1913-1GA00	■					
		3NP1931-1GA00	3NP1933-1GA00			■			
		3NP1941-1GA00	3NP1943-1GA00				■		
		3NP1951-1GA00	3NP1953-1GA00					■	
		3NP1961-1GA00	3NP1963-1GA00						■
	MFM - for operational voltage 24 ... 690 V AC (L-L)/ 24 ... 240 V DC (L+ - L-)	–	3NP1923-1GB10		■				
		–	3NP1933-1GB10			■			
		–	3NP1943-1GB10				■		
		–	3NP1953-1GB10					■	
		–	3NP1963-1GB10						■
	EFM10 - for operational voltage 230 ... 690 V AC (L-L)	–	3NP1923-1GB20		■				
		–	3NP1933-1GB20			■			
		–	3NP1943-1GB20				■		
		–	3NP1953-1GB20					■	
		–	3NP1963-1GB20						■
	EFM15 - for operational voltage 24 ... 240 V AC (L - N)/ 24 ... 250 V DC (L+ - L-)	3NP1921-1GB43	–		■				
		3NP1931-1GB43	–			■			
		3NP1941-1GB43	–				■		
		3NP1951-1GB43	–					■	
		3NP1961-1GB43	–						■
	EFM15 - for operational voltage 110 ... 690 V AC (L - N)	3NP1921-1GB41	–		■				
		3NP1931-1GB41	–			■			
		3NP1941-1GB41	–				■		
		3NP1951-1GB41	–					■	
		3NP1961-1GB41	–						■
	EFM15 - for operational voltage 120 ... 440 V DC (L - N)	3NP1921-1GB44	–		■				
		3NP1931-1GB44	–			■			
		3NP1941-1GB44	–				■		
		3NP1951-1GB44	–					■	
		3NP1961-1GB44	–						■
	EFM15 - for operational voltage 190 ... 690 V AC (L - L)	–	3NP1923-1GB42		■				
		–	3NP1933-1GB42			■			
		–	3NP1943-1GB42				■		
		–	3NP1953-1GB42					■	
		–	3NP1963-1GB42						■
	EFM15 - for operational voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB45		■				
		–	3NP1933-1GB45			■			
		–	3NP1943-1GB45				■		
		–	3NP1953-1GB45					■	
		–	3NP1963-1GB45						■
	EFM20 - for operational voltage 230 ... 690 V AC (L - L)	–	3NP1923-1GB30		■				
		–	3NP1933-1GB30			■			
		–	3NP1943-1GB30				■		
		–	3NP1953-1GB30					■	
		–	3NP1963-1GB30						■
	EFM25 - for operational voltage 220 ... 440 V DC (L+ - L-)	–	3NP1923-1GB50		■				
		–	3NP1933-1GB50			■			
		–	3NP1943-1GB50				■		
		–	3NP1953-1GB50					■	
		–	3NP1963-1GB50						■

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3NP5 fuse switch disconnectors

System overview

Basic units

Floor mounting

For 40 mm busbar system

Connection parts

Clamp terminals

Busbar adapters for 60 mm systems

Masking frames and covers

Molded-plastic masking frames

Cable connection covers

Further accessories

Auxiliary switches

Arc chutes

Assembly kits for flush mounting

Fuse carriers

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

General information

3NA COM LV HRC fuse links

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

See Fuse Systems, page 7/50

System description

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

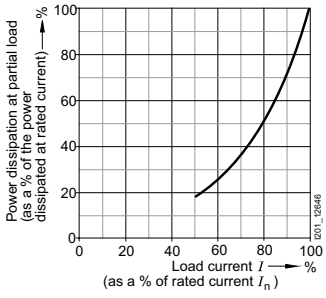
3NP50

3NP52

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.

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

		Flat terminals			
		NH00	NH1	NH2	NH3
					
Type of mounting	**Auxiliary switches**	**I_u = 160 A**	**I_u = 250 A**	**I_u = 400 A**	**I_u = 630 A**
Without fuse monitoring					
Floor mounting	Without	3NP5060-0CA00	3NP5260-0CA00	3NP5360-0CA00	3NP5460-0CA00
	1 NO + 1 NC	3NP5060-0CA10	3NP5260-0CA10	3NP5360-0CA10	3NP5460-0CA10
Mounting on 40 mm busbar systems	Without	3NP5065-1CF00	–	–	–
	1 NO + 1 NC	3NP5065-1CF10	–	–	–
Electromechanical fuse monitoring with 1 NO + 1 NC as a signaling contact					
Floor mounting	1 NO + 1 NC	3NP5060-0EA86	3NP5260-0EA86	3NP5360-0EA86	3NP5460-0EA86
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1EF86	–	–	–
Electromechanical fuse monitoring with 2 NO as a signaling contact					
Floor mounting	1 NO + 1 NC	3NP5060-0EA26	3NP5260-0EA26	3NP5360-0EA26	3NP5460-0EA26
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1EF26	–	–	–

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Accessories

				NH00	NH1	NH 2	NH3
Clamp terminals							
	**Version**	**Scope of supply**	**Article No.**				
	For retrofitting to 3NP5 with flat terminals	3 units	3NY1903	■			
			3NY1907		■		
Busbar adapters							
	• For 60 mm busbar system						
	Version		**Article No.**				
	For adaptation of a 3NP5, for floor mounting on a 60-mm busbar system		8US1291-4SB00	■			
			8US1210-4AG00		■	■	■
Covers for cable lug connections							
	**Version**	**Scope of supply**	**Article No.**				
	Can be screwed onto the free end of the screw	6 units	3NY1241		■		
			3NY1245			■	■
Covers for 3NP5, with auxiliary switch mounted							
	• With punched cutouts for auxiliary switches						
	Color	**Version**	**Dimensions**	**Article No.**			
	Gray	Flat	215 × 135 mm	3NY1115	■		
	Black	Flat, with additional bending edges	290 × 135 mm	3NY1116	■		
Covers for 3NP5, without auxiliary switches mounted							
	• With prepunched cutouts for retrofitting an auxiliary switch						
	Color	**Version**	**Dimensions**	**Article No.**			
	Gray	Flat	215 × 135 mm	3NY1105	■		
	Black	Flat	290 × 135 mm	3NY1106	■		
		Angled	265 × 135 mm	3NY1107	■		
		Flat, with additional bending edges	290 × 135 mm	3NY1108	■		
Auxiliary switches							
	**Version**		**Article No.**				
	1 NO + 1 NC, including mounting kit		3NY3033	■			
			3NY3034		■	■	■

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Accessories

Arc chutes

- 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.	NH00	NH1	NH 2	NH3
3NY4031	■			
3NY4011		■		
3NY4012			■	■

Assembly kits for flush mounting in front panel

Version	Article No.	NH00	NH1	NH 2	NH3
Assembly kit with cover and mounting accessories	3NY1208	■			
	3NY1210		■		
	3NY1211			■	
	3NY1212				■
Covers (spare part for assembly kit)	3NY1102		■		
	3NY1103			■	

Fuse carriers

Version	Article No.	NH00	NH1	NH 2	NH3
Without fuse monitoring	3NY1074	■			
	3NY1371		■		
	3NY1372			■	
	3NY1373				■
With electromechanical fuse monitoring by circuit breakers, signaling contact 1 NO + 1 NC, without connecting cable	3NY1420	■			
	3NY1421		■		
	3NY1422			■	
	3NY1423				■

Connectors and connecting cables

Version	Length	Article No.	NH00	NH1	NH 2	NH3
For electromechanical fuse monitoring	1 m	3NY1910	■	■	■	■
	3 m	3NY1911	■	■	■	■

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3NJ4 fuse switch disconnectors

System overview

1-pole switchable

NH00/NH000 ... NH3 (690 V)

NH4a (690 V)

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

3-pole switchable

NH00/NH000 ... NH3 (690 V)

NH00/NH000 ... NH3 (690 V) for integra-table current transformers

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

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

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

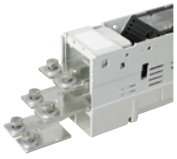
NH00/NH000, NH1 and NH3 (800 V)

Accessories

Covers

Adapters on busbar systems

Mounting and assembly elements



Busbar connection assembly kits

Fuses

Current transfor-mers

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

General information

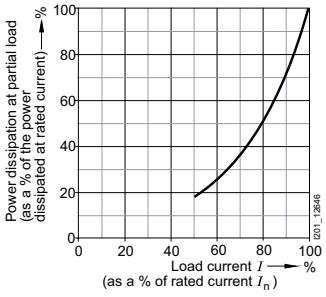
3NA COM LV HRC fuse links

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

See Fuse Systems, page 7/50

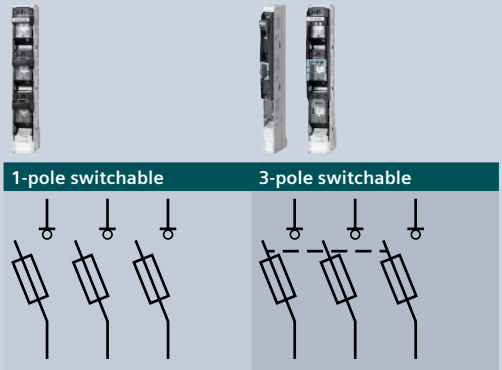
Suitable fuses

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



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

3NJ4 fuse switch disconnectors



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

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

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

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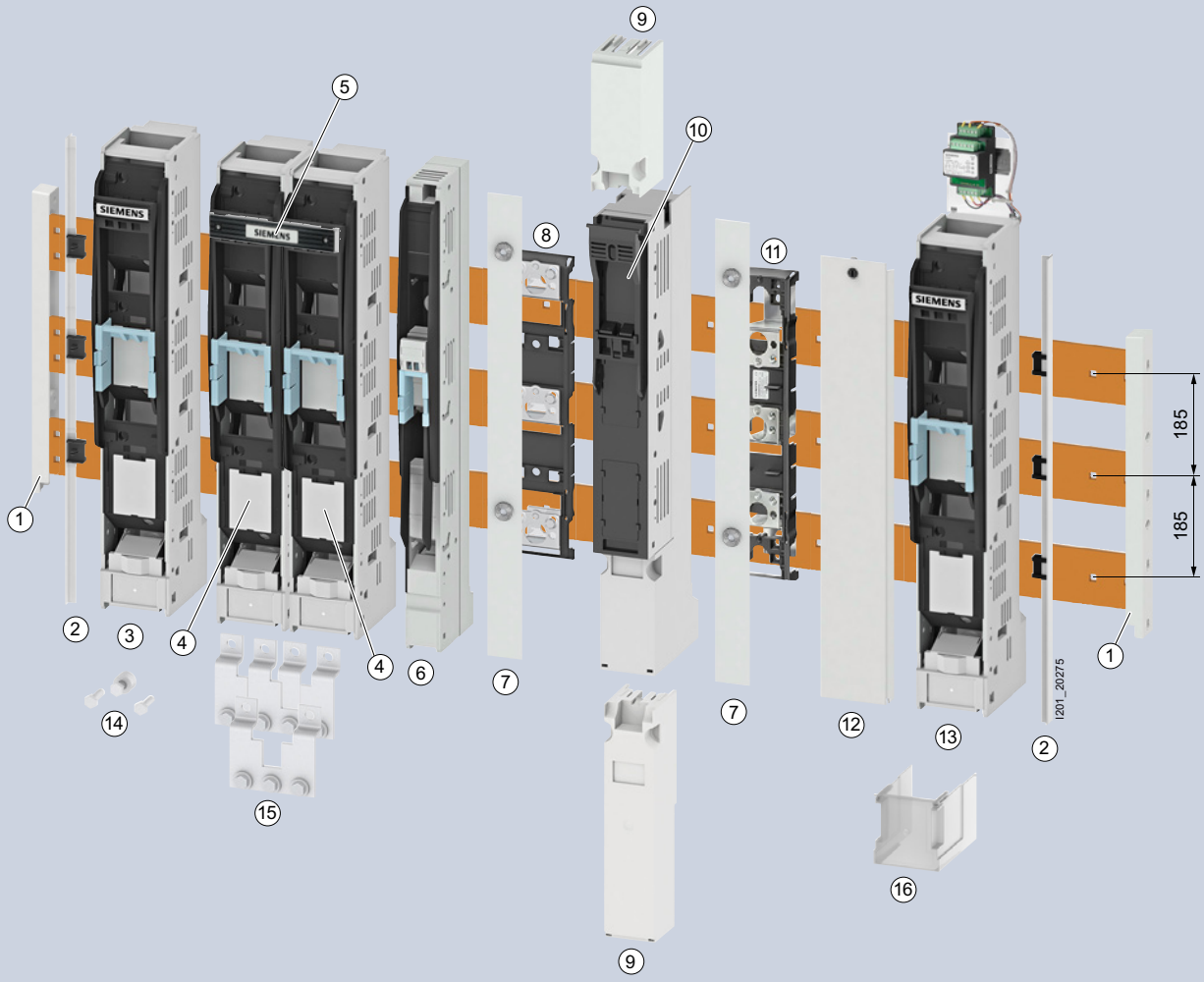


1 Busbar support
2 Lateral masking frame support
3 Switch disconnector, NH1
4 Switch disconnector, NH2
5 Coupling of operating handle
6 Switch disconnector, NH00, 185 mm
7 Unequipped section cover, 50 mm
8 Adapter, 185 mm to 185 mm
9 Cover, spacer
10 Switch disconnector, NH00, 100 mm
11 Adapter, 100 mm to 185 mm
12 Blanking cover, 633 x 100 mm
13 Switch disconnector, NH3, with EFM
14 Assembly kit, 2 x 240 mm²
15 Busbar connection assembly kit, 4 x 185 mm²
16 Cover, NH1-3

Quick selection guide, page 8/76

3NJ4 fuse switch disconnectors

Accessories

❾ 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
⑯ NH1 ... NH3	Connection for top and bottom		3NJ4912-1AA01
NH3	For double in-line disconnectors		3NJ4912-1EA00

⓬ Blanking covers

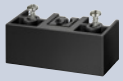
Version	Length	Width	Busbar center-to-center spacing	Article No.
For switchboard cutout	299 mm	50 mm	100 mm only	3NJ4912-2CA00
	633 mm	50 mm		3NJ4912-2AA00
	633 mm	100 mm		3NJ4912-2BA00

❷ 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

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

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3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
	■ 1)							
■ 2)	■ 2)							
■ 2)	■ 2)							
		■	■	■	■			■
				■	■	■	■	■
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■	■	■	■	■	■	■	■	■
		■	■	■				
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System overview, page 8/96

3NJ4 fuse switch disconnectors

Accessories

❶ Busbar supports

- For screwing on the busbars

Version	Article No.
For 100 and 185 mm busbar center-to-center spacing	3NJ5974-0AB

Grounding kits

Version	Article No.
With connecting cable 25 mm²	3NJ4910-1AA00

Busbar terminals

- Not for devices with transformer installation

Version	Article No.
For each fuse switch disconnector, 3 units are required	3NJ4911-3AA00
For more rapid mounting of the switch disconnectors onto the busbars (1 set = 3 units)	3NJ4911-3BA01

Saddle terminals

- 1 set = 3 units

Connection	Article No.
Cu 1.5 ... 70 mm²	3NJ4911-4AA00

Prism terminal assembly kits

- 1 set = 3 units

Connection	Article No.
Al/Cu 10 ... 70 mm²	3NJ4911-1AA00

Box terminal assembly kits

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

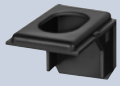
Connection	Article No.
Al/Cu 95 ... 240 mm²	3NJ4911-2BQ00

Auxiliary switch mounting kits

- For 3-pole switchable switch disconnectors only

Version	Contacts	Article No.
For NH00 ... NH3 with connecting cables	1 CO	3NJ4913-1AA01

Mounting hook



- 1 per in-line disconnector required

Article No.
3NJ4918-1AA00

Distance compensation

Version	Article No.
For NH00	3NJ4915-1BA00
For fuse switch disconnectors, with integratable current transformers if no current transformer is built in	3NJ4915-2BA00

Terminal strips

Article No.
3NJ4915-1CA00

[1] Not for fuse switch disconnectors with fuse monitoring

System overview, page 8/96

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
■	■	■	■	■	■	■	■	■
		■	■	■	■	■	■	■
■	■							
		■	■	■				
	■ [1]							
■	■ [1]							
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System overview, page 8/96

3NJ4 fuse switch disconnectors

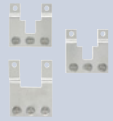
Accessories

Busbar connection assembly kits for NH2 and NH3

- With flat terminals

Screws	Conductor cross-section	Article No.
M12	2 × 240 mm²	3NJ4911-5AA00
	2 × 300 mm²/3 × 120 mm²	3NJ4911-5BA00
M16	1 × 400 mm²	3NJ4911-5CA00

Busbar connection assembly kits for NH3



Version	Conductor cross-section	Article No.
For NH3 as double in-line disconnectors	3 × 300 mm²/⑮ 4 × 185 mm²	3NJ4911-6AA00
	4 × 240 mm²	3NJ4911-6BA00

⑤ Mechanical coupling of operating handles		3NJ4911-6CA00

Fuses NH3

- Minimum order quantity 3 units

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

Isolating blades NH3

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

Current transformers .../1 A

Rated primary current I_{pr}	Accuracy class	Rated power P_n	Article No.
100/1 A	0.5	1.5 VA	3NJ4915-1EA10
	1	2.0 VA	3NJ4915-1EA20
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

System overview, page 8/96

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
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3NJ4 fuse switch disconnectors

Accessories

Current transformers .../5 A

Rated primary current I_{pr}	Accuracy class	Rated power P_n	Article No.
100/5 A	0.5	1.0 VA	3NJ4915-1EB10
	1	1.5 VA	3NJ4915-1EB20
150/5 A	0.5	1.5 VA	3NJ4915-1FB10
	0.5 calibrated	1.5 VA	3NJ4915-1FB11
	1	2.5 VA	3NJ4915-1FB20
75/5 A	1	1.5 VA	3NJ4915-2DB20
100/5 A	0.5	1.0 VA	3NJ4915-2EB10
	1	2.0 VA	3NJ4915-2EB20
150/5 A	0.5	1.5 VA	3NJ4915-2FB10
	1	2.5 VA	3NJ4915-2FB20
250/5 A	0.5	2.5 VA	3NJ4915-2GB10
	0.5 calibrated	2.5 VA	3NJ4915-2GB11
	1	3.75 VA	3NJ4915-2GB20
400/5 A	0.5	2.5 VA	3NJ4915-2HB10
	0.5 calibrated	2.5 VA	3NJ4915-2HB11
	1	3.75 VA	3NJ4915-2HB20
500/5 A	0.5	2.5 VA	3NJ4915-2JB10
	1	5.0 VA	3NJ4915-2JB20
600/5 A	0.5	2.5 VA	3NJ4915-2KB10
	0.5 calibrated	2.5 VA	3NJ4915-2KB11
	1	5.0 VA	3NJ4915-2KB20

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	3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
		■							
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System overview, page 8/96

5SG76 fuse switch disconnectors

System overview

MINIZED fuse switch disconnectors

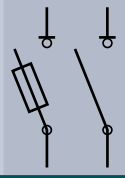
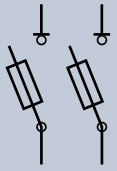
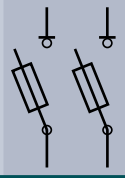
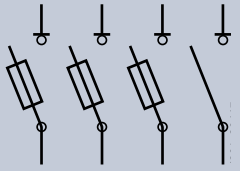

1P


1P+N


2P


3P


3P+N

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

Fuse size	Rated current I_n	Mounting width 1 MW	Mounting width 2 MW	Mounting width 2 MW	Mounting width 3 MW	Mounting width 4 MW
MINIZED fuse switch disconnectors						
D01	6 A [1]	5SG7611-0KK06	–	–	5SG7631-0KK06	–
	10 A	5SG7611-0KK10	–	–	5SG7631-0KK10	–
	16 A	5SG7611-0KK16	5SG7651-0KK16	5SG7621-0KK16	5SG7631-0KK16	5SG7661-0KK16

[1] For 2 A, 4 A, 6 A fuses

8

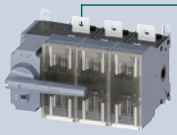
Note:
No NEOZED adapter sleeves are required for this type series

Quick selection guide, page 8/76

Switch disconnectors with fuses

Quick selection guide

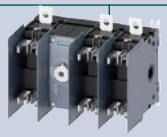
3KF LV HRC



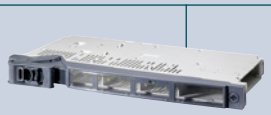
Size			1	1	1	2	2	3	4	5	5
General technical specifications acc. to IEC 60947-3											
Basic data											
Rated uninterrupted current I_u		A	32	63	80	125	160	250	400	630	800
For fuse links acc. to IEC 60269-2			000 and 00					0 and 1	1 and 2	2 and 3	
Rated operational voltage U_e	At 50/60 Hz AC	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^2s	34	34	34	223	223	1500	2150	10400	10400
	At 690 V AC	kA^2s	55	55	55	360	360	940	2600	7000	7000
Maximum power loss of the usable fuses (per fuse)		W	6.5	7.5	8.5	11	12	25.5	34	48	60
Degree of protection											
Maximum IP degree of protection (with a rotary operating mechanism)			IP65								
Maximum IP degree of protection			–								

[1] Values valid even at +10% line voltage tolerance in case of AC
[2] Values are provided as a guide only and may vary depending on the make of motor
[3] Valid for combination of 3KF and fuse type 3NA/3ND, characteristic gG/aM

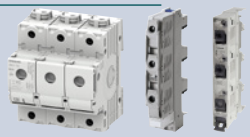
3KF SITOR



3NJ63



5SG7



1	1	1	2	2	3	4	5	5	00	00	00	00	1	2	3	3	5SG71.	5SG7230	5SG7234.
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	63	63	63
	000 and 00				0 and 1	1 and 2	2 and 3			000 and 00			1	1 and 2	2 and 3		D02	D02	D02
				690						500 ... 690			690		230 ... 690		400, 415	400	400
				220						230 ... 440			230 ... 440		–		130	110	–
				440						–			–	–	–		–	–	–
				–						–			–	–	–		65	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	160	–	–	–	630	–	–	–
32	63	80	125	160	250	400	630	800	–	–	125	–	250	400	500	–	– | 35	–	– | 63
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	63 | –	–
–	–	–	–	–	–	–	–	–	–	–	–	160	–	–	–	630	–	–	–
32	63	80	125	160	250	400	630	800	63	100	125	–	250	400	500	–	–	–	–
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–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	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	–	–
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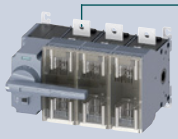
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	160	250	400	–	630	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	63	80	125	160	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
15	30	37	55	90	132	220	355	400	–	–	–	–	–	–	–	–	–	–	–
18.5	37	55	75	110	160	280	400	560	–	–	–	–	–	–	–	–	–	–	–
30	55	75	110	132	250	400	630	800	–	–	–	–	–	–	–	–	–	–	–
100	100	100	100	100	100	100	100	100	–								50 | –	50 | –	50 | –
100	100	100	100	100	100	100	80	80	60 ... 100 kA_{rms}								–	–	–
11.8	11.8	11.8	18	18	33.7	37.1	77.4	77.4	–								–	–	–
11.5	11.5	11.5	25.5	25.5	37.7	47	65	65	–								–	–	–
34	34	34	223	223	1500	2150	10400	10400	–								–	–	–
55	55	55	360	360	940	2600	7000	7000	–								–	–	–
7	8	12	20	26	36	55	68	85	–								5.5	5.5	5.5
				IP65								IP41					–	–	–
				–								–					IP20	–	–

8

Switch disconnectors with fuses

Quick selection guide (continued)

3KF LV HRC



Size			1	1	1	2	2	3	4	5	5
General technical specifications acc. to UL											
Basic data											
Certification according to UL standard			–	–	–	–	–	–	–	–	–
I_n acc. to UL 508		A	–	–	–	–	–	–	–	–	–
U_e acc. to UL 508			–	–	–	–	–	–	–	–	–
Operating and short-circuit behavior											
Operational power, 3-phase	At 240 V	kA	–	–	–	–	–	–	–	–	–
	At 480 V	kA	–	–	–	–	–	–	–	–	–
	At 600 V	kA	–	–	–	–	–	–	–	–	–
Short circuit current rating (SCCR)			–	–	–	–	–	–	–	–	–
Fuse type			–	–	–	–	–	–	–	–	–
Further information											
			See page 8/122								
Technical specifications			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 8/124									See page 8/130								See page 8/138		
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 SITOR

Additional poles

4th contact elements

N terminals

N/PE terminals

Auxiliary switch modules

Operating mechanisms

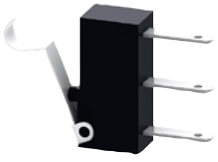
Direct operating mechanisms

Door-coupling rotary operating mechanisms

Handles for door-coupling rotary operating mechanisms

Further accessories for door-coupling rotary operating mechanisms

Further accessories and spare parts



Auxiliary switches

Fuse monitoring

Terminal covers

Mounting elements

Fuse covers

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

General information

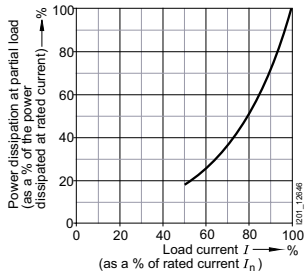
3NA COM LV HRC fuse links

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

See Fuse Systems, page 7/30

Suitable fuses

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

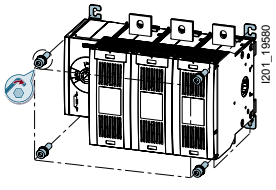


The 3KF switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2. These include fuses for cable and line protection and motor protection.
Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these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

Types of mounting

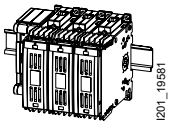
You will find further information under: sie.ag/2UIrAvy

Floor mounting



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

DIN rail



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

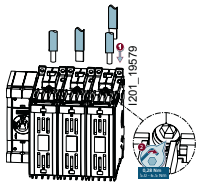
3KF switch disconnectors with fuses

General information

Electrical connection

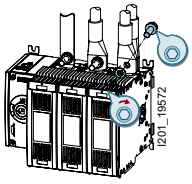
You will find further information under: sie.ag/2UlrAvy

Box terminals



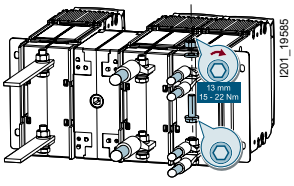
The box terminals for size 1 (32 A ... 80 A) are designed to allow the rapid connection of stripped conductors.

Flat terminals



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

Flat terminals at rear

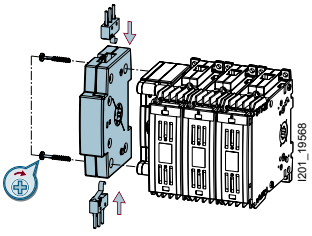


Sizes 1 and 2 (32 A, 63 A and 125 A) are available with rear flat terminals, for the connection of cable lugs or busbar systems.

Auxiliary switch modules and auxiliary switches

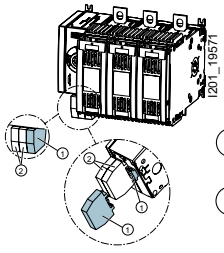
You will find further information under: sie.ag/2UlrAvy

Size 1



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

Sizes 2 ... 5



1 Auxiliary switch, leading

2 Auxiliary switch, simultaneous

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

System overview, page 8/114

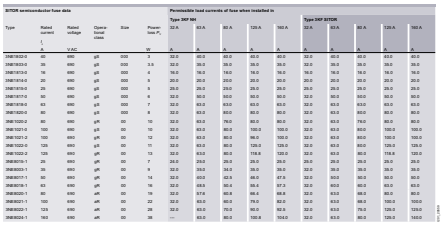
Differentiation 3KF SITOR and derating tables for SITOR fuses

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

Size 1

3KF SITOR is a variation of the proven switch disconnector with 3KF LV HRC fuses and provides optimized heat dissipation and permits the use of fuses with substantially higher power losses. All 3KF SITOR types are approved according to UL 508.

Sizes 2 ... 5



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

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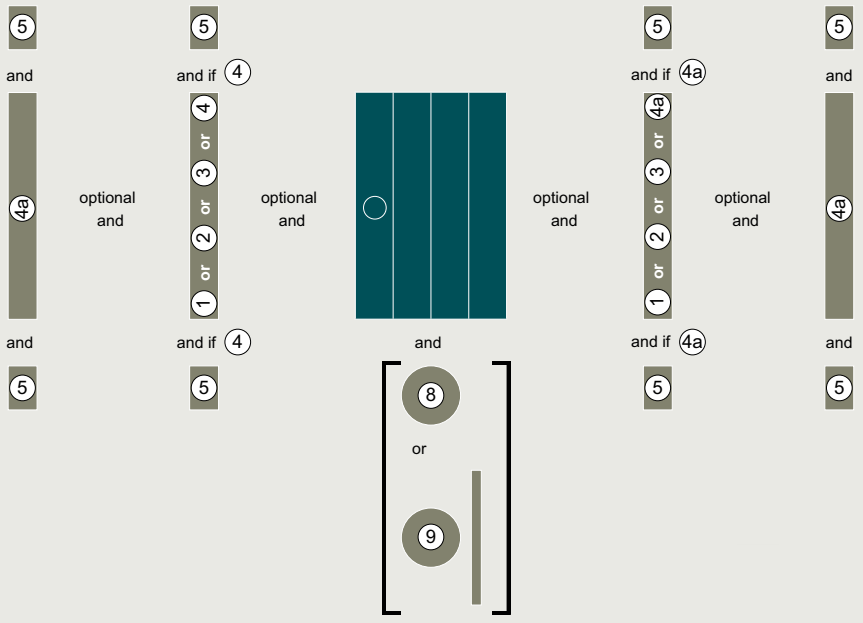
System overview, page 8/114

3KF switch disconnectors with fuses

Mounting concept and accessories 3KF

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



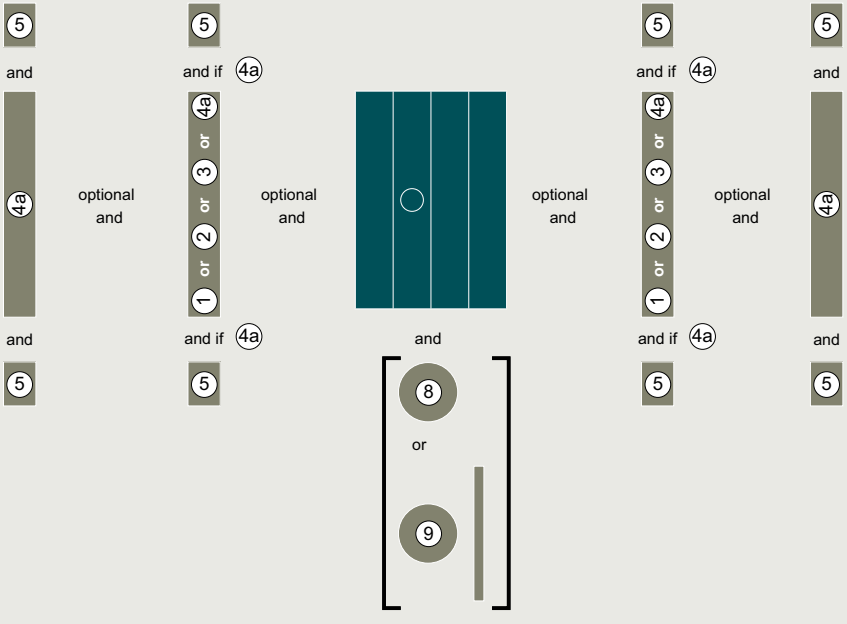
Legend

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

[1] Only for 3-pole 3K, max. 1×
[2] Max. 1×

I201_20494

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



Legend

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

[1] Only for 3-pole 3K, max. 1x
[2] Max. 1x

I201_20495

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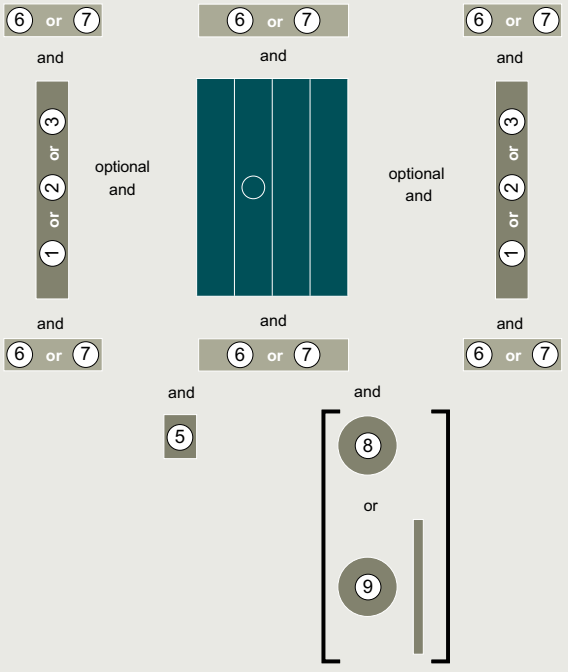
Front operating mechanism center or left, sizes 2 to 5, 3/4-pole



Legend

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

[1] Only for 3-pole 3K, max. 1x
[2] Max. 4x

I201_20496

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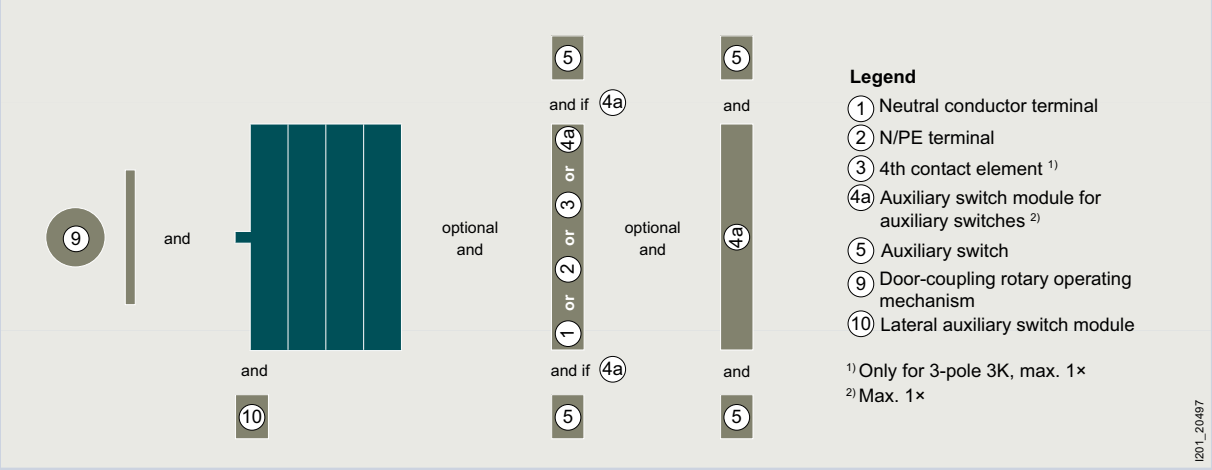
System overview, page 8/114

3KF switch disconnectors with fuses

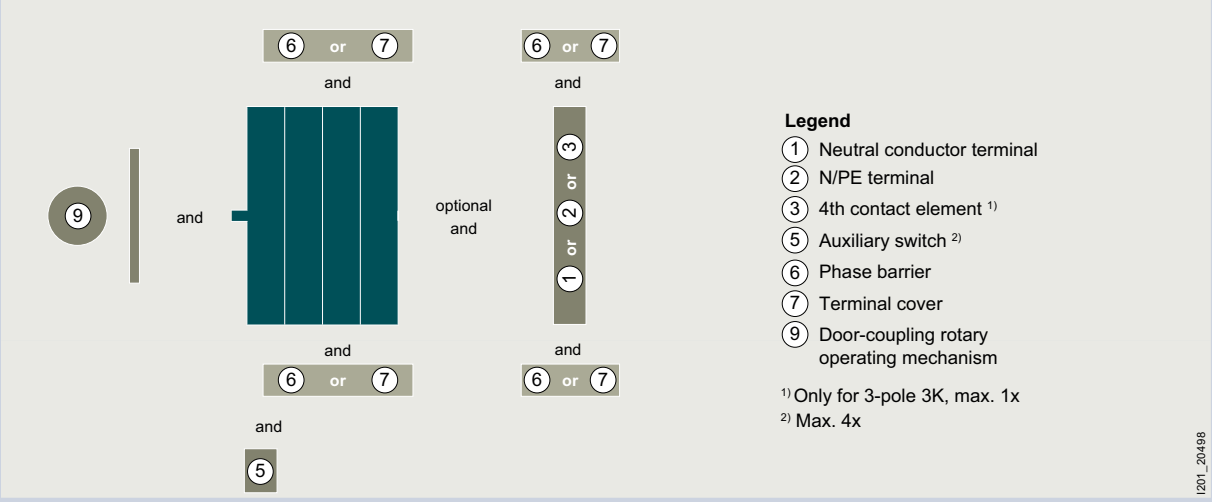
Mounting concept and accessories 3KF

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



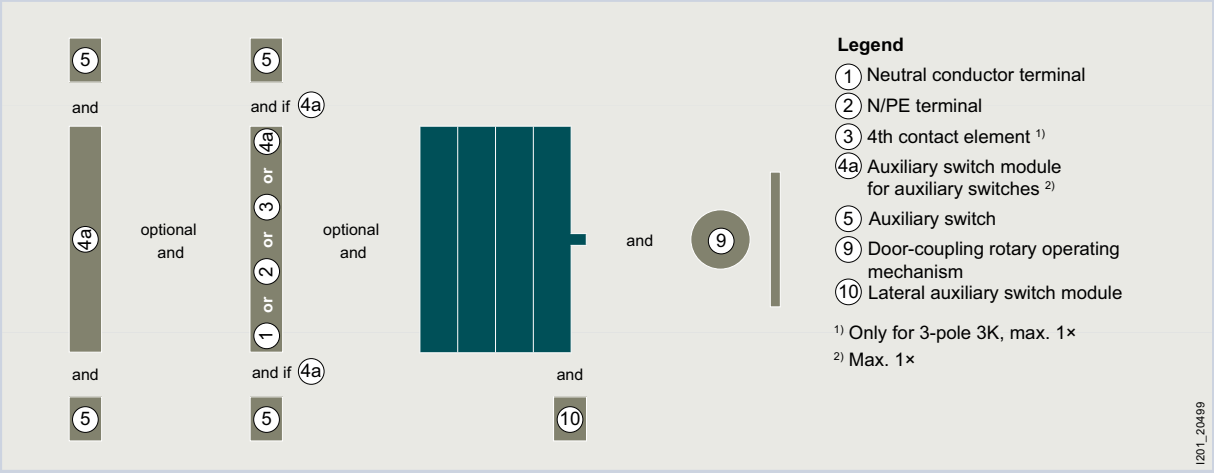
8

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

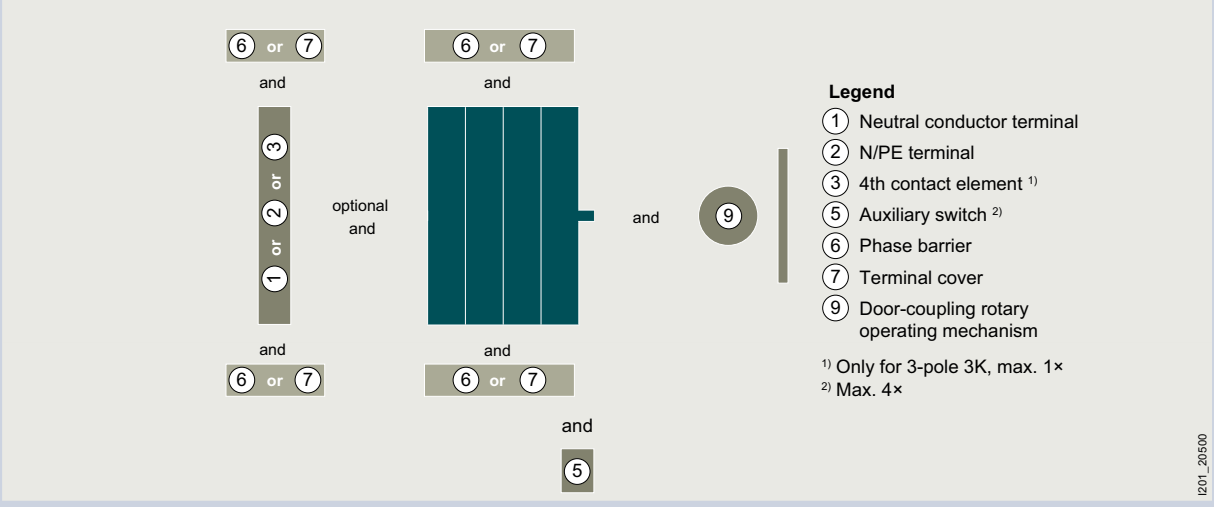


System overview, page 8/114

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



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



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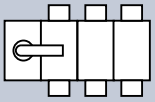
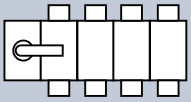
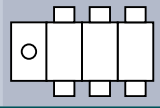
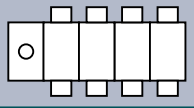
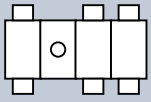
3KF switch disconnectors with fuses

3KF LV HRC switch disconnectors

	Complete units with direct operating mechanisms Front operating mechanisms, left		Basic units without handle Front operating mechanisms, left		Front operating mechanism, center
Number of poles	3P	4P	3P	4P	3P
					

Size	Uninterrupted current I_u					
Box terminals						
1	32 A	3KF1303-2LB11	3KF1403-2LB11	3KF1303-0LB11	3KF1403-0LB11	3KF1303-0MB11
	63 A	3KF1306-2LB11	3KF1406-2LB11	3KF1306-0LB11	3KF1406-0LB11	3KF1306-0MB11
	80 A	3KF1308-2LB11	3KF1408-2LB11	3KF1308-0LB11	3KF1408-0LB11	3KF1308-0MB11
Flat terminals at rear						
1	32 A	–	–	–	–	3KF1303-0MR11
	63 A	–	–	–	–	3KF1306-0MR11
2	125 A	–	–	–	–	3KF2312-0MR11
Flat terminals						
2	125 A	3KF2312-2LF11	3KF2412-2LF11	3KF2312-0LF11	3KF2412-0LF11	3KF2312-0MF11
	160 A	3KF2316-2LF11	3KF2416-2LF11	3KF2316-0LF11	3KF2416-0LF11	3KF2316-0MF11
3	250 A	3KF3325-2LF11	3KF3425-2LF11	3KF3325-0LF11	3KF3425-0LF11	3KF3325-0MF11
4	400 A	3KF4340-2LF11	3KF4440-2LF11	3KF4340-0LF11	3KF4440-0LF11	3KF4340-0MF11
5	630 A	3KF5363-2LF11	3KF5463-2LF11	3KF5363-0LF11	3KF5463-0LF11	3KF5363-0MF11
	800 A	3KF5380-2LF11	3KF5480-2LF11	3KF5380-0LF11	3KF5480-0LF11	3KF5380-0MF11

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

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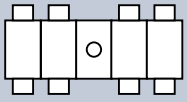
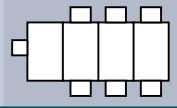
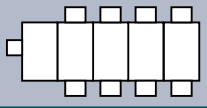
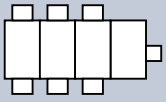
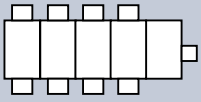
Quick selection guide, page 8/110





	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

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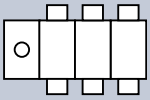
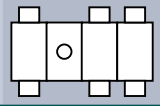
3KF switch disconnectors with fuses

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

Quick selection guide, page 8/110

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).

4th contact element (switching pole) for 3KF LV HRC

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals	3KF9105-2AA00	■				
Flat terminals at rear	3KF9105-1AA00	■				
	3KF9205-1AA00		■			
Flat terminals	3KF9205-0AA00		■			
	3KF9305-0AA00			■		
	3KF9405-0AA00				■	
	3KF9505-0AA00					■

4th contact element (switching pole) for 3KF SITOR

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals	3KF9105-2BA00	■				
Flat terminals	3KF9205-0BA00		■			
	3KF9305-0BA00			■		
	3KF9405-0BA00				■	
	3KF9505-0BA00					■

Neutral conductor terminals with removable jumper, for 3KF LV HRC and 3KF SITOR

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals	3KF9106-2AA00	■				
Flat terminals at rear	3KF9106-1AA00	■				
	3KF9206-1AA00		■			
Flat terminals	3KF9206-0AA00		■			
	3KF9306-0AA00			■		
	3KF9406-0AA00				■	
	3KF9506-0AA00					■

N/PE terminals with permanent jumper, for 3KF LV HRC and 3KF SITOR

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals	3KF9106-8AA00	■				
Flat terminals at rear	3KF9106-6AA00	■				
	3KF9206-6AA00		■			
Flat terminals	3KF9206-7AA00		■			
	3KF9306-7AA00			■		
	3KF9406-7AA00				■	
	3KF9506-7AA00					■

Operating mechanisms

Direct operating mechanisms, for 3KF LV HRC

Version	Color	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Can be locked with up to 3 padlocks	Gray	3KF9101-1AA00	■				
		3KF9201-1AA00		■			
		3KF9301-1AA00			■		
		3KF9401-1AA00				■	
		3KF9501-1AA00					■
	Red/yellow	3KF9101-2AA00	■				
		3KF9201-2AA00		■			
		3KF9301-2AA00			■		
		3KF9401-2AA00				■	
		3KF9501-2AA00					■

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3KF switch disconnectors with fuses

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

Operating mechanisms

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

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

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

Handles, for 3KF LV HRC and 3KF SITOR

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

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

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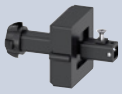
Operating mechanisms

			Size 1	Size 2	Size 3	Size 4	Size 5
Extension shaft, for 3KF LV HRC and 3KF SITOR							
	• A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1 and 2						
	Length	**Article No.**					
	300 mm	8UC6032	■	■			
		8UC6033			■	■	
		8UC6034					■
	600 mm	8UC6082	■	■			
		8UC6083			■	■	
		8UC6084					■
Shaft jack for 8UD1 handle, for 3KF LV HRC and 3KF SITOR							
	**Version**	**Article No.**					
	For shaft 600 mm	8UD1900-0FA00	■	■			
Coupling drivers, for 3KF LV HRC and 3KF SITOR							
	Version	**Article No.**					
	With tolerance compensation	8UD1900-2GA00	■				
		8UD1900-6GA00		■			
		8UD1900-3GA00			■	■	
		8UD1900-4GA00					■
	Without tolerance compensation	8UD1900-2HA00	■				
		8UD1900-6HA00		■			
		8UD1900-3HA00			■	■	
		8UD1900-4HA00					■
Adapters for shafts, for 3KF LV HRC and 3KF SITOR							
	**Shaft size**	**Article No.**					
	8 × 8 mm	8UC6022	■	■			
	10 × 10 mm	8UC6023			■	■	
	12 × 12 mm	8UC6024					■

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Further accessories and spare parts

			Size 1	Size 2	Size 3	Size 4	Size 5
Auxiliary switch modules, for 3KF LV HRC and 3KF SITOR							
	• Auxiliary switch modules are supplied without auxiliary switches • The 3KF9112-0AB00 mounting bracket is additionally required for mounting the auxiliary switch modules with the rear terminal • The 3KD9103-6 and 3KD9103-7 auxiliary switch modules and those with a leading NO contact can only be used with 3KF if they have the operating mechanism on the front or on the left						
	**Type**	**Article No.**					
	Standard version	3KD9103-5	■				
	With test function	3KD9103-6	■				
	With leading NO and test function	3KD9103-7	■				
Mounting brackets for auxiliary switch modules, for 3KF size 1 with rear terminals							
	• For mounting auxiliary switch modules on 3KF switch disconnectors with rear terminal						
		Article No.					
		3KF9112-0AB00	■				

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3KF switch disconnectors with fuses

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

Further accessories and spare parts

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

- Auxiliary switches for sizes 2 to 5 have a screw terminal and are mounted on the 3KF operating mechanism module. Auxiliary switches with spring-type terminals from the 3SU1 program can also be used.
- All auxiliary switches for sizes 2 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see operating instructions).

Type	Contacts	Contact surface	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
With connecting cables	1 CO	Standard	3KD9103-1	■				
		Solid-state compatible	3KD9103-3	■				
Without connecting cables	1 CO	Standard	3KD9103-2	■				
		Solid-state compatible	3KD9103-4	■				
	1 NO	Standard	3SU1400-1AA10-1BA0		■	■	■	■
		Gold-plated	3SU1400-1AA10-1LA0		■	■	■	■
	1 NC	Standard	3SU1400-1AA10-1CA0		■	■	■	■
		Gold-plated	3SU1400-1AA10-1MA0		■	■	■	■
	1 NO + 1 NC	Standard	3SU1400-1AA10-1FA0		■	■	■	■
		Gold-plated	3SU1400-1AA10-1QA0		■	■	■	■
	2 NO	Standard	3SU1400-1AA10-1DA0		■	■	■	■
		Gold-plated	3SU1400-1AA10-1NA0		■	■	■	■
	2 NC	Standard	3SU1400-1AA10-1EA0		■	■	■	■
		Gold-plated	3SU1400-1AA10-1PA0		■	■	■	■

Electronic fuse monitoring, for 3KF LV HRC and 3KF SITOR

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

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

Version	Scope of supply	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For 3-pole devices	6 units	3KD9308-6		■			
		3KD9408-6			■	■	
		3KD9508-6					■
For 4-pole devices	8 units	3KD9308-8		■			
		3KD9408-8			■	■	
		3KD9508-8					■

Terminal covers, for 3KF LV HRC

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

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

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

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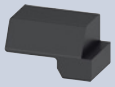
Further accessories and spare parts

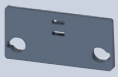
Blocking pin test function, for 3KF LV HRC and 3KF SITOR



- 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.	Size 1	Size 2	Size 3	Size 4	Size 5
10 units	3KF9112-1AA00	■				
	3KF9412-1AA00		■		■	
	3KF9512-1AA00					■

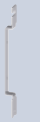
Mounting brackets, for 3KF LV HRC



- The 3KF9112-0AB00 mounting bracket is needed if an auxiliary switch module is mounted on a 3KF1 with rear terminals

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals, flat terminals	3KF9112-0AA00	■				
	3KF9212-0AA00		■			
Flat terminals at rear	3KF9212-0AB00	■	■			

Mounting brackets, for 3KF SITOR



Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals, flat terminals	3KF9112-0AA10	■				
	3KF9212-0AA10		■			

Mounting brackets, for 3KF LV HRC and 3KF SITOR

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Flat terminals	3KF9412-0AA00			■	■	
	3KF9512-0AA00					■

Slides, for 3KF LV HRC and 3KF SITOR

Version	Scope of supply	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
For mounting on DIN rail	5 units	3KF9112-0BA00	■				

Fuse covers, for 3KF LV HRC

Connection	Article No.	Size 1	Size 2	Size 3	Size 4	Size 5
Box terminals, flat terminals	3KF9112-0CA00	■				
	3KF9212-0CA00		■			
	3KF9312-0CA00			■		
	3KF9412-0CA00				■	
	3KF9512-0CA00					■
Flat terminals at rear	3KF9212-0CB00		■			

LV HRC isolating blades, for 3KF LV HRC and 3KF SITOR

Version	Article No.	NH 000	NH 00	NH 1	NH 2	NH 3
With insulated grip lugs	3NG1002	■	■			
	3NG1202			■		
	3NG1302				■	
	3NG1402					■

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3NJ63 switch disconnectors with fuses

System overview

Fuse links

For LV HRC fuses

Accessories

Connection terminals and covers

Auxiliary switches

Current transformers

Ammeters

Guide rails

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

General information

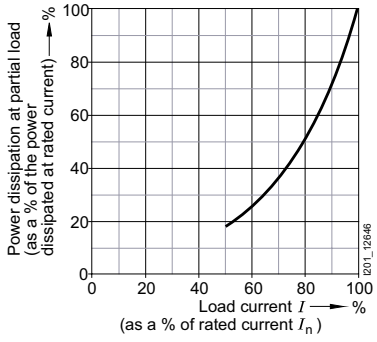
3NA COM LV HRC fuse links

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

See Fuse Systems, page 7/50

Suitable fuses

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



The 3NJ63 switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection.

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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 (DC-23B) [1]			2
	3-pole (AC-23A) [2]			3
	4-pole (AC-22B)			4
Switch operation	Manually operated			1
	Motorized operating mechanism			2
	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] 2-pole 500 V DC-21B
[2] 3-pole 800 V NH1 AC-22B

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

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

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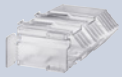
Quick selection guide, page 8/110

3NJ63 switch disconnectors with fuses

Accessories

			NH00	NH1	NH2	NH3
Terminals						
	**Type**	**Article No.**				
	For 2/3-pole devices	3NJ6923-1BA00	■			
		3NJ6933-1BA00		■		
		3NJ6943-1CA00			■	■
	For 4-pole devices	3NJ6924-1BA00	■			
		3NJ6934-1BA00		■		
		3NJ6944-1CA00			■	■
Terminal covers						
	**Type**	**Version** / **Article No.**				
	For 2/3-pole devices	– 3NJ6923-1DA00	■			
		– 3NJ6933-1DA01		■		
		– 3NJ6943-1DA00			■	■
		As an internal terminal cover 3NJ6933-1DB00		■		
	For 4-pole devices	3NJ6904-1DA00	■	■	■	■
Contact extensions						
	**Number of poles**	**Article No.**				
	3-pole	3NJ6923-1EB00	■			
		3NJ6933-1EB00		■		
		3NJ6943-1EB00			■	■
	4-pole	3NJ6924-1EB00	■			
		3NJ6934-1EB00		■		
		3NJ6944-1EB00			■	■
Electronic fuse monitoring and line monitoring devices						
	**Type**	**Version** / **Article No.**				
	EFM 10	With line monitoring for AC networks 3NJ6920-3FB00	■			
		With line monitoring for AC networks 3NJ6930-3FB00		■		
		With line monitoring for AC networks 3NJ6940-3FB00			■	■
	EFM 20	With line monitoring for AC networks 3NJ6920-3FC00	■			
		With line monitoring for AC networks 3NJ6930-3FC00		■		
		With line monitoring for AC networks 3NJ6940-3FC00			■	■
	EFM 25	With line monitoring for DC networks 3NJ6920-3FE00	■			
		With line monitoring for DC networks 3NJ6930-3FE00		■		
		With line monitoring for DC networks 3NJ6940-3FE00			■	■
Auxiliary switches						
	**Contacts**	**Version** / **Article No.**				
	1 NO	With cover 3NJ6920-2BB00	■			
		With cover 3NJ6930-2BB00		■		
		With cover 3NJ6940-2BB00			■	■
		Without cover 3NJ6900-2BC00	■	■	■	■
	1 NC	With cover 3NJ6920-2CB00	■			
		With cover 3NJ6930-2CB00		■		
		With cover 3NJ6940-2CB00			■	■
		Without cover 3NJ6900-2CC00	■	■	■	■

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Current transformers for main devices and contact extensions

Rated current I_{pr}	Class	Apparent power consumption	Feed-through opening diameter	Article No.	NH00	NH1	NH2	NH3
50 A/1 A	1	1 VA	∅ 21 mm	3NJ6920-3BB11	■	■		
50 A/5 A	1	1 VA	∅ 21 mm	3NJ6920-3BB21	■	■		
100 A/1 A	1	2.5 VA	∅ 21 mm	3NJ6920-3BD11	■	■		
	0.5	1.5 VA	∅ 21 mm	3NJ6920-3BD12	■	■		
	0.5 calibrated	1.5 VA	∅ 14 mm	3NJ6920-3BD13	■			
			∅ 15.2 mm	3NJ6930-3BD13		■		
100 A/5 A	1	2.5 VA	∅ 21 mm	3NJ6920-3BD21	■	■		
	0.5	1.5 VA	∅ 21 mm	3NJ6920-3BD22	■	■		
	0.5 calibrated	1.5 VA	∅ 14 mm	3NJ6920-3BD23	■			
			∅ 15.2 mm	3NJ6930-3BD23		■		
150 A/1 A	1	2.5 VA	∅ 21 mm	3NJ6920-3BE11	■	■		
	0.5	1.5 VA	∅ 21 mm	3NJ6920-3BE12	■	■		
	0.5 calibrated	1.5 VA	∅ 14 mm	3NJ6920-3BE13	■			
		2.5 VA	∅ 15.2 mm	3NJ6930-3BE13		■		
150 A/5 A	1	2.5 VA	∅ 21 mm	3NJ6920-3BE21	■	■		
	0.5	1.5 VA	∅ 21 mm	3NJ6920-3BE22	■	■		
	0.5 calibrated	1.5 VA	∅ 14 mm	3NJ6920-3BE23	■			
		2.5 VA	∅ 15.2 mm	3NJ6930-3BE23		■		
200 A/1 A	1	2.5 VA	∅ 21 mm	3NJ6930-3BF11		■		
	0.5	3.75 VA	∅ 21 mm	3NJ6930-3BF12		■		
	0.5 calibrated	2.5 VA	∅ 14 mm	3NJ6930-3BF13		■		
200 A/5 A	1	2.5 VA	∅ 21 mm	3NJ6930-3BF21		■		
	0.5	5 VA	∅ 21 mm	3NJ6930-3BF22		■		
	0.5 calibrated	2.5 VA	∅ 14 mm	3NJ6930-3BF23		■		
250 A/1 A	1	5 VA	∅ 21 mm	3NJ6930-3BG11		■		
	0.5	5 VA	∅ 21 mm	3NJ6930-3BG12		■		
	0.5 calibrated	2.5 VA	∅ 14 mm	3NJ6930-3BG13		■		
250 A/5 A	1	2.5 VA	∅ 21 mm	3NJ6930-3BG21		■		
	0.5	2.5 VA	∅ 21 mm	3NJ6930-3BG22		■		
	0.5 calibrated	2.5 VA	∅ 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			■	■

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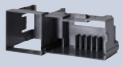
3NJ63 switch disconnectors with fuses

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	■	■	■	■
Amperemeter								
	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			■	■

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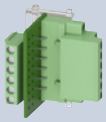
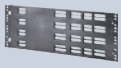
				NH00	NH1	NH2	NH3
Multi-function plugs							
	**Version**	**Dimensions**	**Article No.**				
	With fixing screws	6 × 2.5 mm²	3NJ6920-3EB01	■	■		
		8 × 2.5 mm²	3NJ6920-3ED01	■	■		
			3NJ6940-3EC00			■	■
	Without fixing screws	8 × 2.5 mm²	3NJ6940-3ED00			■	■
		10 × 1.5 mm² and 8 × 2.5 mm²	3NJ6920-3EE01	■	■		
		12 × 1.5 mm² and 8 × 2.5 mm²	3NJ6940-3EF00			■	■
Front panels							
	**Use**	**Version**	**Article No.**				
	3NJ6303-.....	With LV HRC fuse	3NJ6923-4BB00	■			
	3NJ6313-.....	With LV HRC fuse	3NJ6933-4BB00		■		
	3NJ6323-.....	With LV HRC fuse	3NJ6943-4BB00			■	■
	3NJ6333-.....	With LV HRC fuse	3NJ6953-4BB00			■	■
Busbar covers							
			**Article No.**				
			3NJ6916-4EA00	■	■	■	■
Blanking covers							
			**Article No.**				
			3NJ6900-4CB00	■	■	■	■
Connection modules							
			**Article No.**				
			3NJ6915-3BA00	■	■	■	■
Guide rails							
	**Overall depth**		**Article No.**				
	200 mm		3NJ6900-4FB00	■	■	■	■
	400 mm		3NJ6900-4FC00	■	■	■	■
LV HRC fuse puller tongs							
	Version		**Article No.**				
	For NH00		8PQ9400-1AA50	■			
	For NH1, NH2, NH3		8PQ9400-1AA51		■	■	■
Locking devices for padlocks							
			**Article No.**				
			3NJ6900-4LL	■	■	■	■

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5SG switch disconnectors with fuses

System overview

MINIZED switch disconnectors with fuses

1P

3P

NEOZED bus-mounting switch disconnectors

3P

3P, with terminals

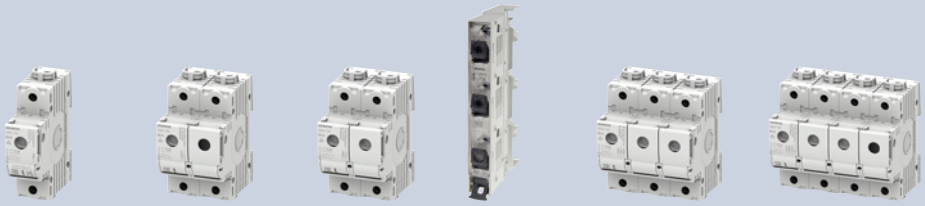
Accessories

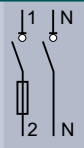
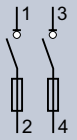
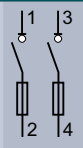
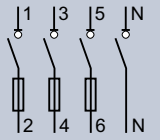
Auxiliary switches

Lateral modules

Reducers

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



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

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

[1] Using withdrawable design with touch protection according to BGV A3, adapter sleeves not included in the scope of delivery
[2] With permanently fitted adapter sleeves, incl. fuse link
[3] Do not use fuse links with nickel-plated contact caps
[4] In the case of permanent load over 35 A, we recommend the use of 5SH5526 lateral modules. Please observe EN 60439-1, Table 1
[5] In the case of permanent load over 35 A, we recommend the use of 5SH5533 lateral modules. Please observe EN 60439-1, Table 1

Note:
NEOZED adapter sleeves are required for these devices

Accessories

Auxiliary switches

	Version	Type	Mounting width	Contacts	Article No.
	For MINIZED D02 switch disconnectors	Standard	0.5 MW	1 NO + 1 NC	5ST3010
				2 NO	5ST3011
				2 NC	5ST3012
		With test button	0.5 MW	1 NO + 1 NC	5ST3010-2
				2 NO	5ST3011-2
				2 NC	5ST3012-2
	For NEOZED bus-mounting switch disconnectors	Standard	0.5 MW	1 CO	5SH5525

Lateral modules

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

Reducers

	Version	Article No.
	For D01 fuse links	5SH5527

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Appendix

A

Conditions of sale and delivery

1. General Provisions

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

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

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

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)"[1)] and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"[1)] (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"[1)] and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)].
  In case such products should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)], the Product will be given a note as to which special conditions apply to this open source software. This shall apply mutatis mutandis for notices referring to other third-party software components.

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

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

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

1.3 For customers with master or framework agreement

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

2. Additional Terms and Conditions

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

Illustrations are not binding.

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

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

3. Export Control and Sanctions Compliance

3.1 General

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

3.2 Checks for Products

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

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

3.3 Non-Acceptable Use of Software and Cloud Services

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

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

3.4 Semiconductor Development

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

3.5 Information

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

3.6 Reservation

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

4. Miscellaneous

Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/tenderspecifications
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SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip
TIA Selection Tool	www.siemens.com/tst
Electrical Product Finder	www.siemens.com/electrical-product-finder
Sustainability	www.siemens.com/sustainability
Siemens EcoTech	www.siemens.com/SiemensEcoTech www.siemens.com/lowvoltage/SiemensEcoTech
SENTRON product phase-out	www.siemens.com/info-sentron

Catalogs and further information

LV 10
Low-Voltage Power Distribution and Electrical Installation Technology
SENTRON • SIVACON • ALPHA

PDF (E86060-K8280-A101-B9-7600)

ET D1
Switches and Socket Outlets
DELTA

PDF (SIEP-C10409-00-7600)

LV 13
3WA Air Circuit Breakers
SENTRON

PDF (E86060-K8280-B101-A4-7600)

SiePortal
Information and Ordering Platform on the Internet:

sieportal.siemens.com

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

PDF (E86060-K8280-E347-B2-7600)

SITRAIN
Digital Industry Academy

www.siemens.com/sitrain

IC 10
Industrial Controls
SIRIUS

PDF (E86060-K1010-A101-B7-7600)

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

www.siemens.com/tst

The catalogs listed above and additional catalogs are available in PDF format at
www.siemens.com/lowvoltage/catalogs

Further information on low-voltage power distribution and electrical installation technology is available on the Internet at **www.siemens.com/lowvoltage**

Cybersecurity information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial cybersecurity measures that may be implemented, please visit **www.siemens.com/cybersecurity-industry.**

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under **www.siemens.com/cert.**

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