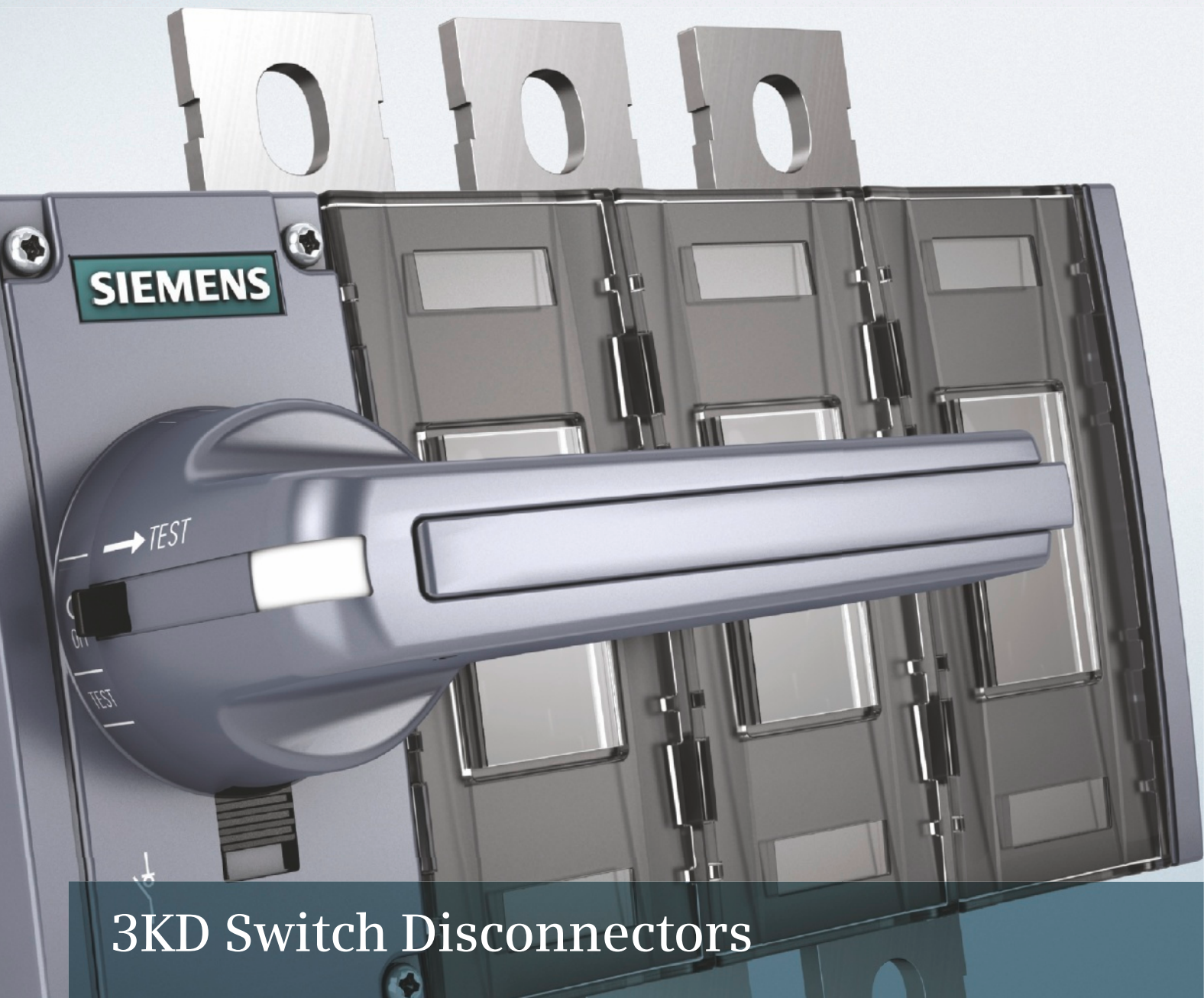


SIEMENS



3KD Switch Disconnectors

Totally Integrated Power – SENTRON

Edition
04/2015

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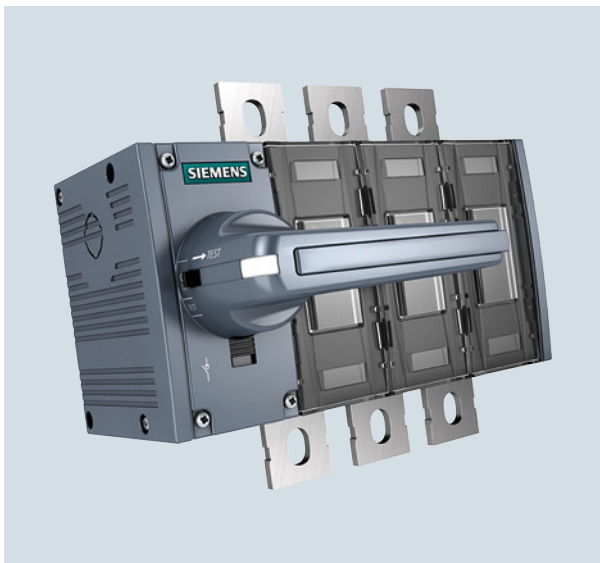


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3KD Switch Disconnectors

Totally Integrated Power – SENTRON



3KD switch disconnectors · 04/2015

Supersedes:

3KD switch disconnectors · December 2013

Refer to the Industry Mall for current updates of this catalog:

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The products contained in this catalog can also be found in the Interactive Catalog CA 01.

Article No.: E86060-D4001-A510-D4-7600

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Introduction

1

3KD Switch Disconnectors up to 1600 A

2

Appendix

3



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



The right one for everyone

Our portfolio includes switchboards, distribution boards, protection, switching, measuring and monitoring devices, switches and socket outlets. All over the world, the universality, modularity and intelligence of our components and systems give you innumerable benefits – all the time they are in use. With products developed according to the respective international standards, we offer forward-looking design with innovative functions while ensuring the highest quality standards worldwide.

Sustainability in focus

As a worldwide leader in the provision of high-quality, standard-compliant products and systems for low-voltage power distribution, we contribute to the sustainable and responsible handling of electrical energy. With our integrated portfolio which ranges from power supply and distribution, through short-circuit and overload protection through to power monitoring, we support the implementation of environmentally friendly energy concepts based on wind power, photovoltaics, intelligent buildings and electromobility.



Universal, safe and intelligent power distribution

Whether in industrial plants, in infrastructure or in buildings: every technical plant depends on the reliable supply of electricity. Our products provide a safe, reliable and efficient electrical infrastructure at the medium and low-voltage levels. Our components reliably protect against accidents, faults and fires caused by electrical installations and allow consumers to utilize electrical power in a sustainable, responsible manner.

We are happy to help you with comprehensive support from the initial information gathering stage through to operation.

Everything for power distribution

Consistent solutions are required for electrical power distribution in buildings. Our answer is Totally Integrated Power (TIP). TIP stands for innovative products, systems and software tools which ensure the safe and reliable distribution of electric power. They are supplemented by circuit breakers and modules with communication capability which connect the power distribution system to the building automation or industrial automation solutions. These in turn can be linked to a comprehensive energy management system which contributes to optimizing the consumption of electricity, hence lowering the costs of operation.

Excellent support

As a competent and reliable partner, we also offer you comprehensive support – from the initial information gathering stage, through planning, configuring and ordering up to commissioning, operation and technical support. We know the needs of your working environment and your daily business. This enables us to offer you flexible and high quality support, allowing you to concentrate on your customers and their needs.

Technical Support

The Technical Support for low-voltage power distribution and electrical installation technology assists you with all your technical queries about our products and systems – both before and after delivery.

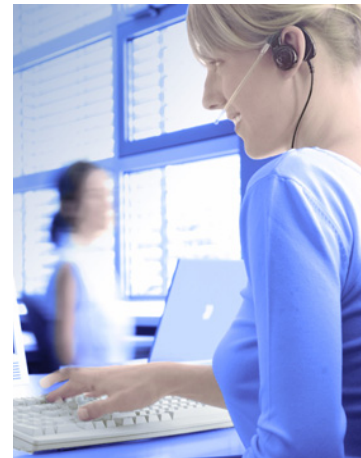
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Our experts will help you over the phone with competent specialist support



Competent and fast specialist support with:

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- Old/new conversion
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- Special versions
- Special requirements
- Commissioning
- Issues during operation



1201_19185

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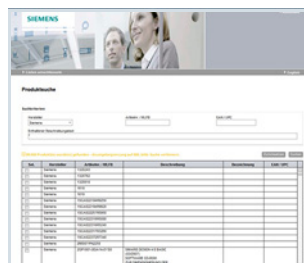
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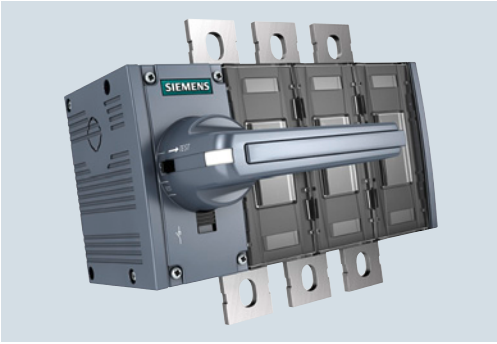
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Get comprehensive and specific information about our products using our 3D animations, trailers and technical information.

I201_19157

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I201_19079



The new 3KD switch disconnecters provide reliable protection for personnel and ensure high system availability – in buildings, infrastructure and industrial plants. With these switch disconnecters you can implement your projects more efficiently and thus safeguard your competitiveness.

Avoid electrical accidents

The 3KD switch disconnecters are designed to systematically avoid electrical accidents. Thus, when maintenance work is being carried out on machines, for example, you can help to prevent unauthorized operation by means of appropriate locking functions. The terminal covers of the 3KD switch disconnecters ensure enhanced touch protection and prevent electric shocks. Thanks to transparent contact covers, contact positions are clearly visible at all times.

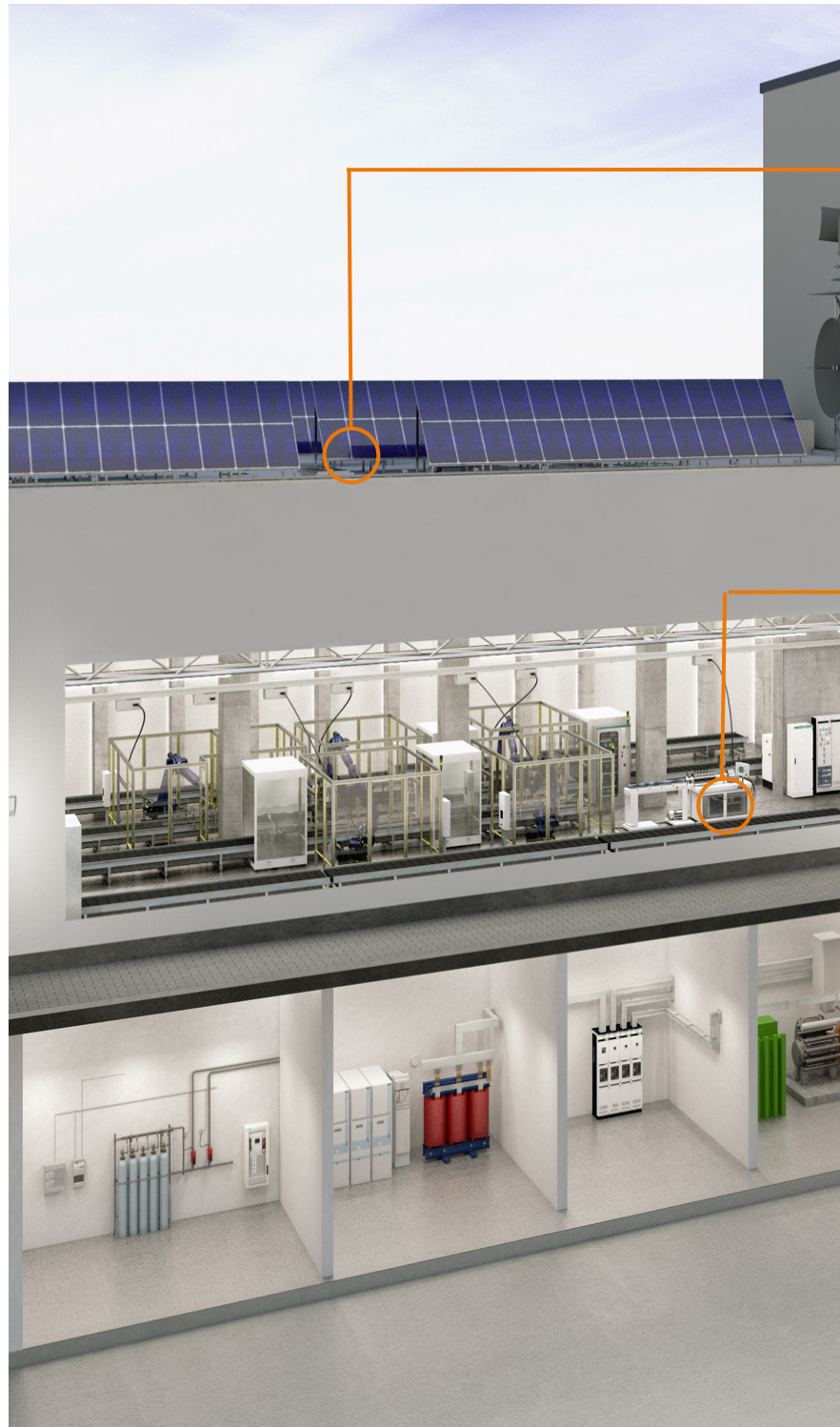
Increase productivity

The 3KD switch disconnecters provide fast and easy installation. Additional functions can be retrofitted at any time thanks to their modular design and a comprehensive range of accessories. Easy ordering and fast delivery also contribute to optimized stockkeeping. You therefore benefit from reduced time and low costs. You can even work much more efficiently during the planning phase:

You will be provided free of charge with all the CAx data relevant for the entire engineering process.

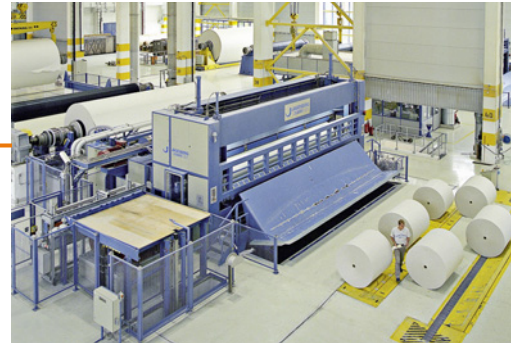
Improve flexibility

The wide variety of applications of the 3KD switch disconnecters will enable you to satisfy all your requirements – whether as main control, EMERGENCY-STOP or maintenance switches. This is supported by a large selection of possible connection methods and operating mechanism designs and the comprehensive accessories.





3KD switch disconnecter as maintenance switch in plants for safe operation during maintenance work in voltage-free state

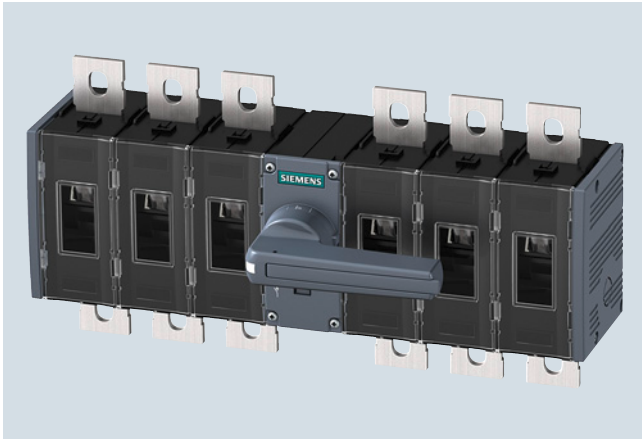


3KD switch disconnecter as EMERGENCY-STOP switch in a production plant for protection of operating personnel

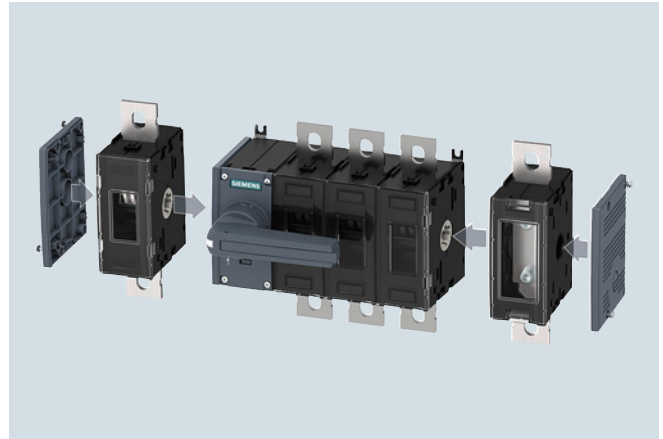


3KD switch disconnecter as main control switch in building distribution systems for isolation from the supply

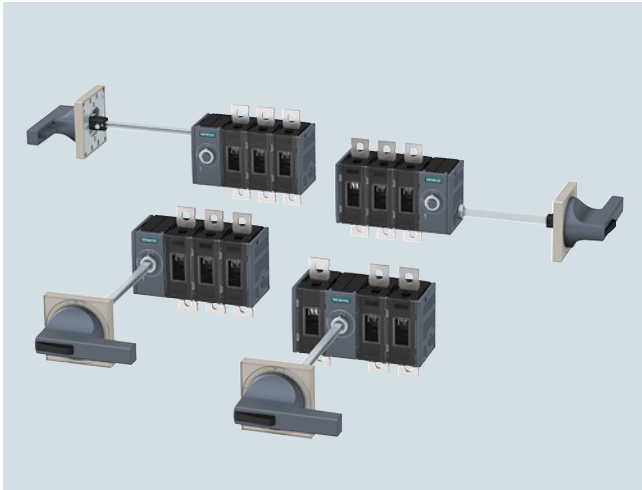
Highlights



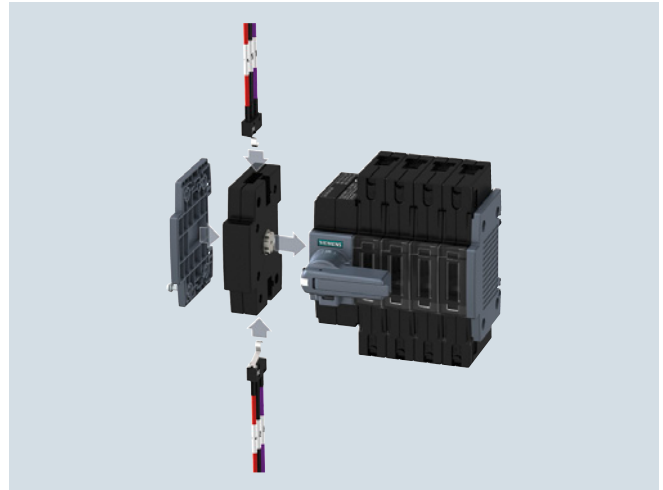
The compact, six-pole 3KD switch disconnector is especially suitable for photovoltaic plants: it ensures safe isolation of your plant in the DC voltage range up to 1200 V DC.



Retrofitting an N or an N/PE terminal or an additional pole as a 4th contact element is a fast, easy operation thanks to the modular design of the switch disconnector.



Wide variety of applications thanks to a range of different operating mechanism designs: Side operating mechanism or front operating mechanism positioned in the center, or to the left of the switch disconnector.



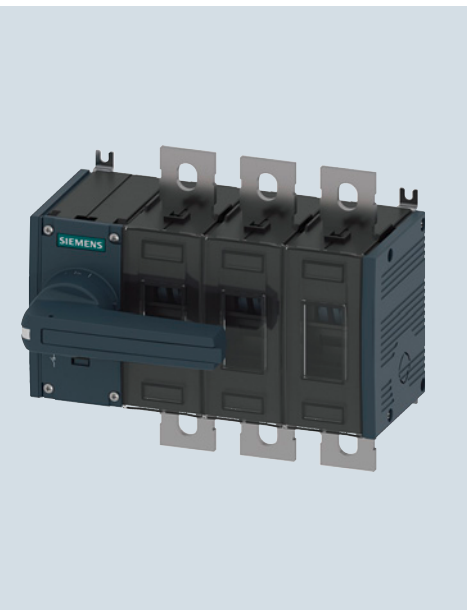
The control circuitry can be function-tested by means of the auxiliary switch test function.



High level of protection for personnel and plant, even in confined installation spaces, afforded by locking functions.



3KD switch disconnectors up to 200 A can be mounted on standard mounting rails for speedy installation.



3KD Switch Disconnectors

- 1/2 General data
- 1/8 Technical features

For further technical product information:

[Configuration Manual](#)

[Switch disconnectors](#)

Article No.: 3ZW1012-3NP11-0AC1

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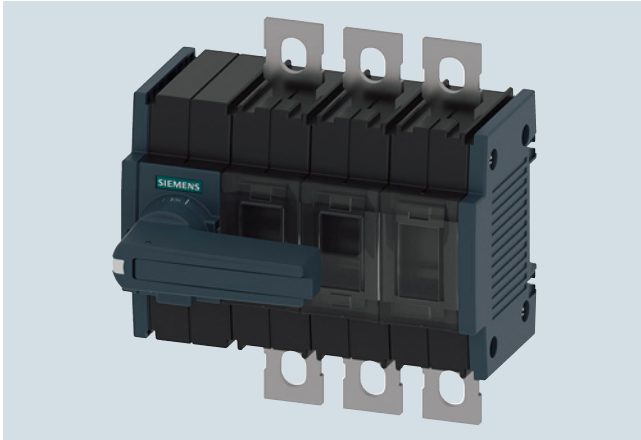
Introduction

3KD Switch Disconnectors

1

General data

Overview



3KD switch disconnector, complete assembly, 3-pole

Features

- 3-, 4-, and 6-pole versions in 5 different sizes
- Supplied as a complete assembly including direct operating mechanism or as a basic unit without handle
- Direct operating mechanism with handle on switch disconnector
- Door-coupling rotary operating mechanism for operation of the switch disconnector outside the control cabinet door
- Versions with side operating mechanisms
- Connections in the form of box terminals or flat terminals
- Floor mounting or mounting on a standard mounting rail (sizes 1 and 2)
- Additional poles can be retrofitted: 4th contact element, N or N/PE terminals
- Auxiliary switch for querying the switch position
- Suitable for AC applications up to 690 V + 10 % (wind power)
- Suitable for DC applications up to 1200 V

Benefits

- Enhanced touch protection
- Contact position is clearly visible
- Locking functions help to prevent unauthorized operation
- Enhanced protection against inter-phase arcing
- Safe use in wind farms
- Compact design saves space
- Wide variety of applications thanks to a range of different operating mechanisms
- Supplementary functions can be retrofitted
- Various service positions are possible thanks to optimized heat dissipation
- Test function to ensure safe commissioning
- Comprehensive support through provision of CAx data

Application

3KD switch disconnectors are designed for applications with exacting requirements. They are deployed as main control, EMERGENCY-STOP and maintenance switches in industrial plants, infrastructure and buildings. 3KD switch disconnectors are designed to switch the specified rated current on and off under load. At the same time, they constitute a safety isolating function and isolating distance in all low-voltage circuits.

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

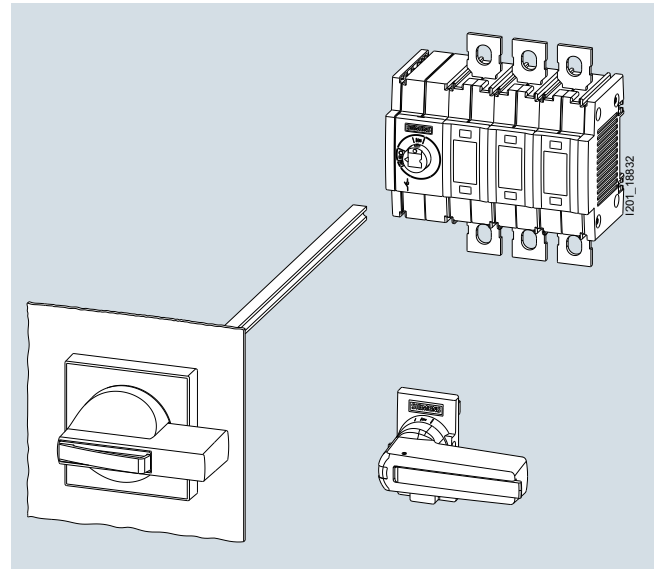
Design

A 3KD switch disconnector consists of an operating mechanism module, three, four or six switching poles and a handle to operate the switch disconnector.

Handles

The direct operating mechanism version of the handle is mounted directly on the switch disconnector. It can also be supplied in the form of a door-coupling rotary operating mechanism for actuation of the switch disconnector outside the control cabinet door. The handle is available in gray, or colored red/yellow for use as an EMERGENCY-STOP switch.

Commonly used switch disconnector variants comprising basic unit and handle are available as complete assemblies.



Handle either as direct operating mechanism or door-coupling rotary operating mechanism

Position of operating mechanism modules

To allow optimum utilization of the available installation space, units with front operating mechanisms can be supplied with the operating mechanism module in various positions - mounted on the left-hand side of the 3KD switch disconnector or in the center between the switching poles.

On units with side operating mechanisms, the operating mechanism module is positioned on the right or left-hand side of the 3KD switch disconnector.

Number of poles	Front operating mechanism on side	Front operating mechanism in center	Side operating mechanism left	Side operating mechanism right
3-pole				
4-pole				
6-pole for 1200 V DC	--		--	--

Introduction

3KD Switch Disconnectors

1

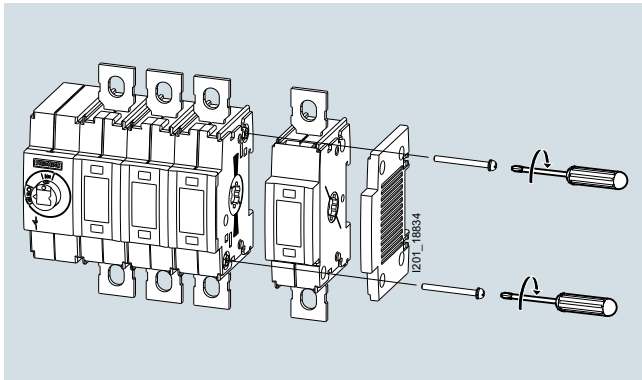
General data

Additional poles

All sizes of the 3KD switch disconnectors can be retrofitted with additional poles on a modular basis.

When installing additional poles, 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).

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, i.e. with sizes 1 and 2, therefore, it is not permissible to install an auxiliary switch module between the basic unit and an additional pole.

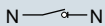


Installation of an additional pole

Available versions:

Fourth contact element:

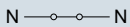
The 4th contact element includes a contact system and is identical to the poles installed at the factory. It can be installed to upgrade a 3-pole switch disconnector to a disconnector with 4 poles.



Fourth contact element as an additional pole

N terminal (neutral conductor terminal):

The N terminal does not include a contact system. A jumper can be removed in order to interrupt the electrical connection between the two terminals. An N terminal can be installed to add a non-switching N pole to a 3-pole disconnector.



N terminal as non-switching pole

N/PE terminal:

The N/PE terminal is identical to the neutral conductor terminal. However, the electrical connection between the two terminals is permanent and cannot be interrupted by removal of a jumper. The N/PE terminal is normally deployed for applications in which it is vital to ensure that this connection can never be interrupted.



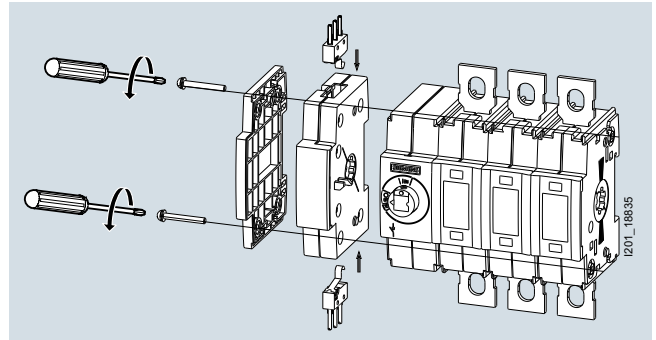
N/PE terminal with permanent connections

Auxiliary switches

Auxiliary switches allow remote interrogation of the contact position of the switch disconnector.

Installation of auxiliary switches for sizes 1 and 2

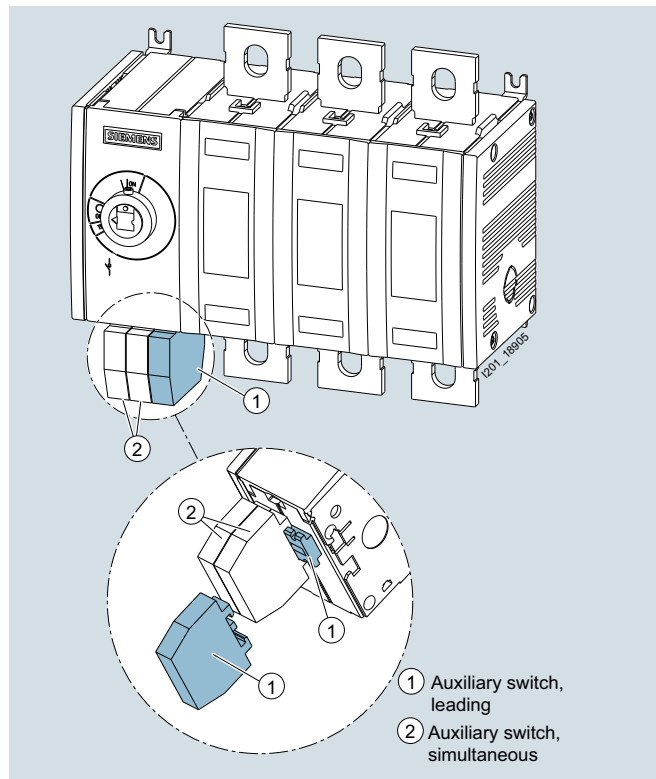
The auxiliary switches used for sizes 1 and 2 are microswitches (changeover contacts) which can be snapped into an auxiliary switch module. This auxiliary switch module is mounted on the side of the switch disconnector in the same way as an additional pole. A maximum of two microswitches can be installed in each auxiliary switch module.



Auxiliary switches with auxiliary switch module for sizes 1 and 2

Installation of auxiliary switches for sizes 3 to 5

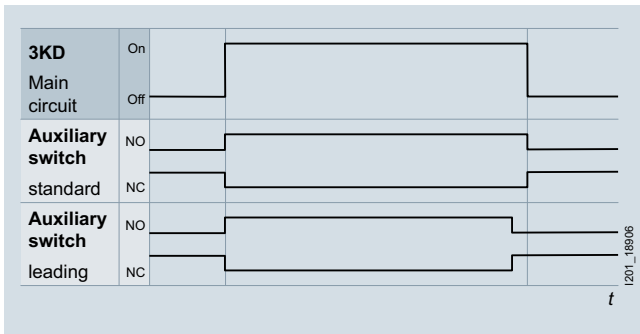
With sizes 3 to 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts.



Auxiliary switches directly attached to the operating mechanism module with sizes 3 to 5. The leading auxiliary switch is highlighted in the drawing.

Switching instants of auxiliary switches

The auxiliary switches can operate either simultaneously with the main contacts or function as leading switches with all sizes.



One of the possible functions of leading auxiliary switches is to disconnect the circuit with the assistance of a higher-level switching device, such as a circuit breaker, before the main contacts of the 3KD switch disconnecter open.

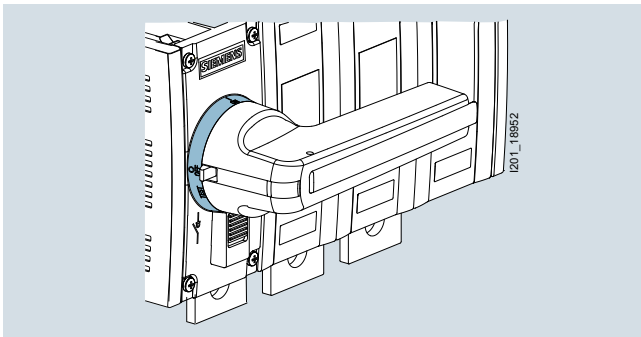
With sizes 1 and 2, the selection of the appropriate auxiliary switch module determines whether the switching instant will be leading or simultaneous.

With sizes 3, 4 and 5, the switching instant is determined by the selection of the mounting location for the auxiliary switch on the operating mechanism module. In this case, only 3SB3 auxiliary switches with NO contacts (1 or 2) can be used as leading auxiliary switches.

Test function for auxiliary switches

The test function allows a wiring check to be performed on the auxiliary switches without necessitating closure of the main contacts of the 3KD switch disconnecter. The test function can be used as part of the commissioning process.

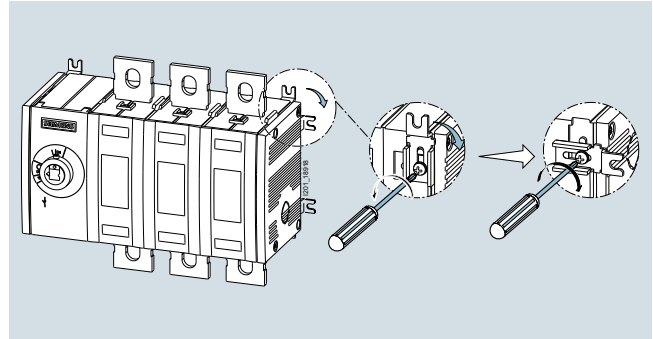
The test function is activated by turning the handle of a direct operating mechanism in the OFF position by 25° in the anti-clockwise direction. The handle must be turned 90° in the clockwise direction in order to switch the main contacts.



The auxiliary switch module including test function must be used for sizes 1 and 2. With sizes 3, 4 and 5, all installed auxiliary switches are switched when the test function is activated.

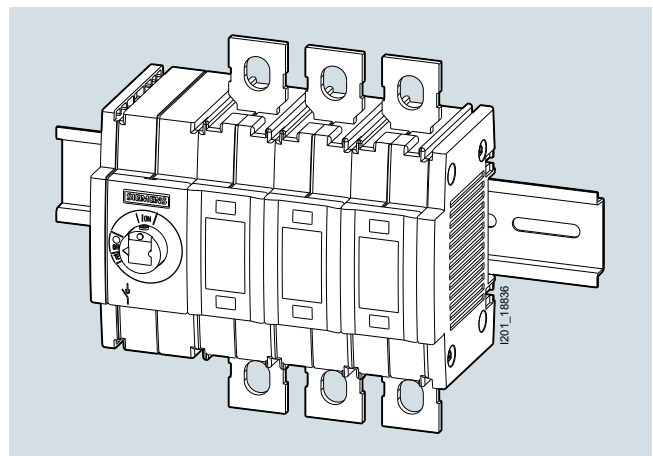
Types of mounting

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.



Floor mounting method

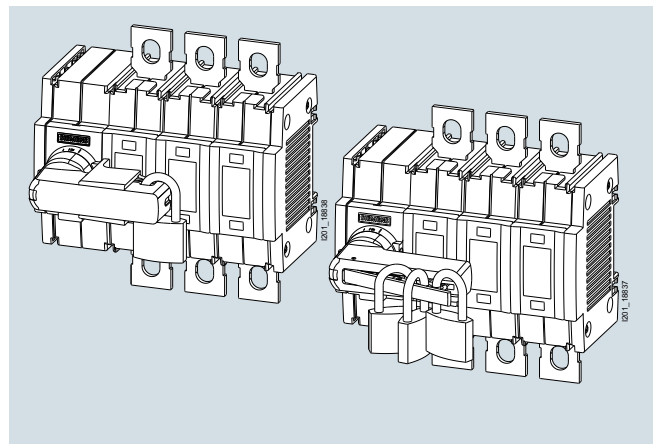
Sizes 1 and 2 can be snapped onto a standard mounting rail (TH35 according to DIN EN 60715) as an alternative mounting method.



Mounting on a standard mounting rail

Locking functions

3KD switch disconnectors can be locked by up to three padlocks in order to prevent unauthorized switch operation. A flat version of the direct operating mechanisms is available for use in confined installation spaces. This can be secured with a lock without increasing the required mounting depth.



Locking functions involving one or more padlocks

Introduction

3KD Switch Disconnectors

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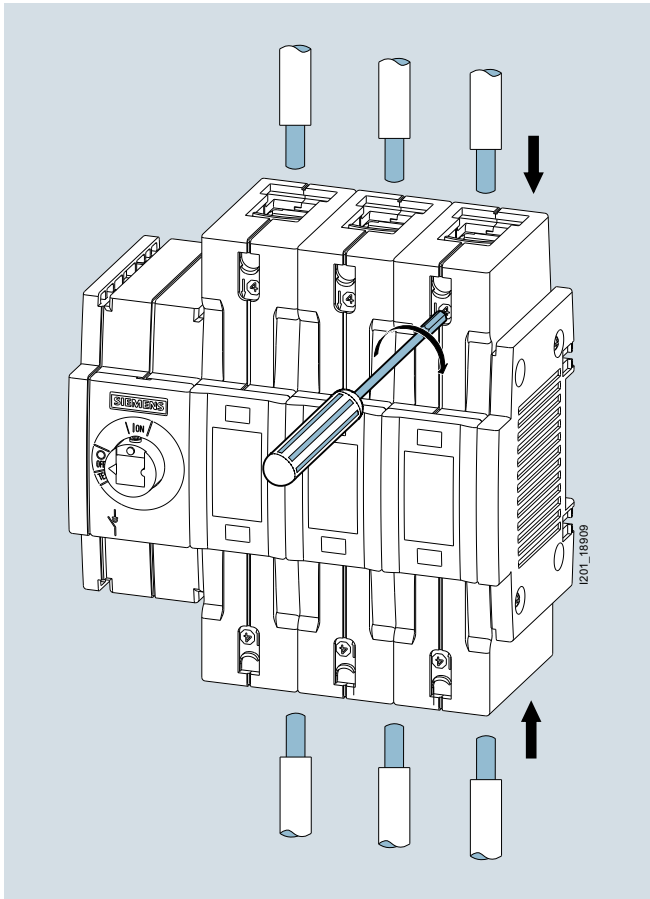
General data

Electrical connection

3KD switch disconnectors are available with a number of different terminal types.

Box terminals

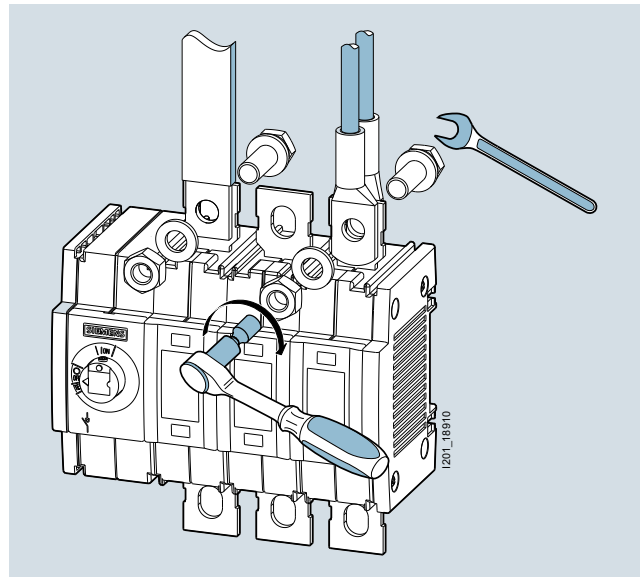
Box terminals for sizes 1 and 2 (rated currents 16 A to 160 A) are designed to allow the speedy connection of stripped conductors.



Connection via box terminals

Flat terminals

Sizes 2 to 5 (rated currents 80 A to 1600 A) are available with flat terminals – for the connection of cable lugs or busbar systems.

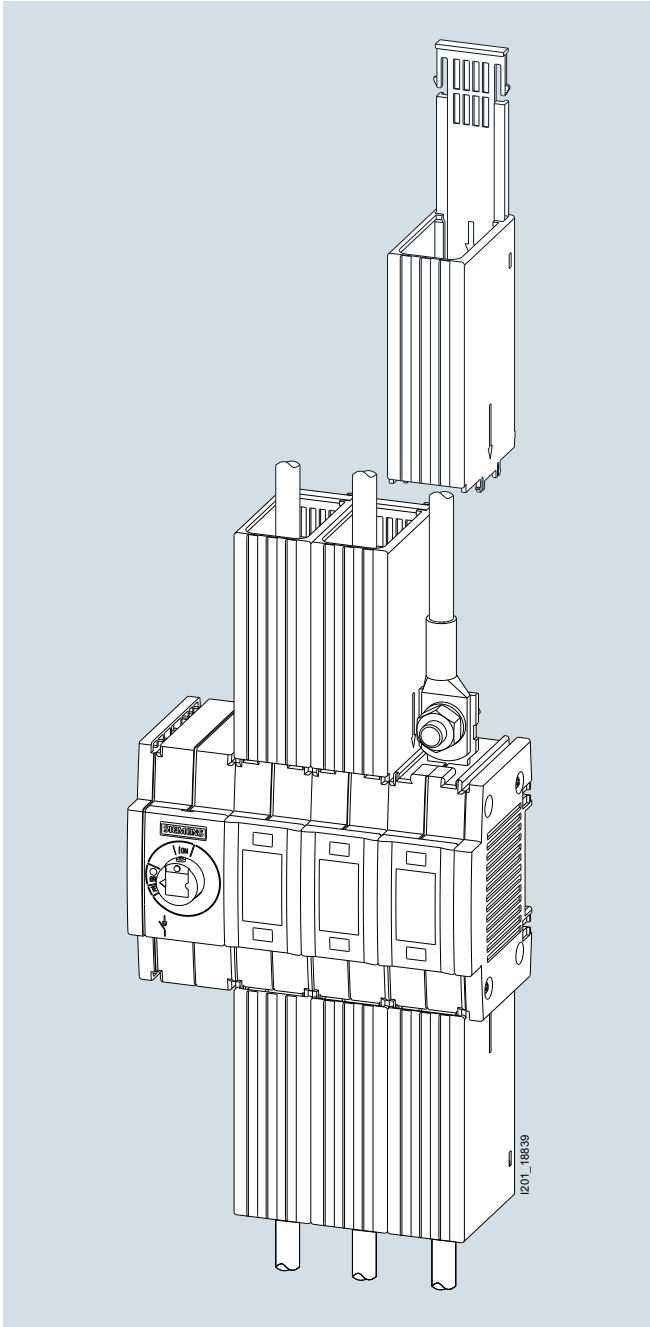


Connection via flat terminals

Terminal covers and phase barriers can be supplied for 3KD switch disconnectors with flat terminals.

Terminal covers

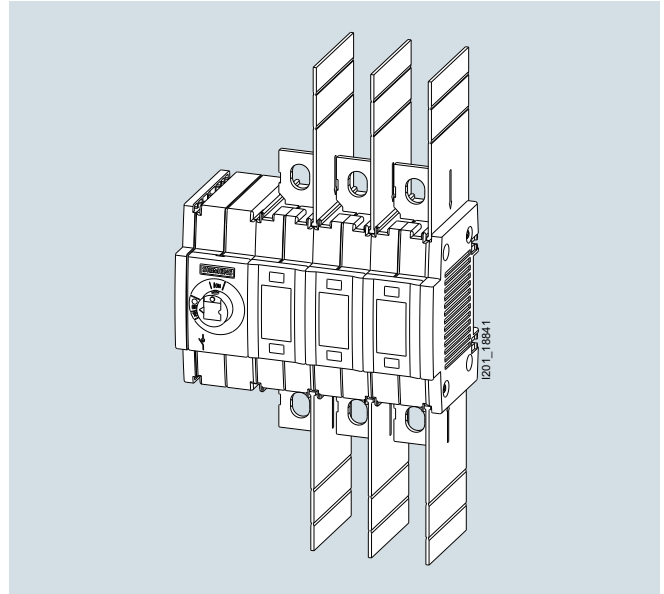
If the 3KD switch disconnector is erected outside a control cabinet, terminal covers can be installed to provide touch protection for all terminals.



Terminal covers

Phase barriers

When long, non-insulated cable lugs are used, phase barriers provide enhanced protection against arcing.



Phase barriers

Introduction

3KD Switch Disconnectors

Technical features

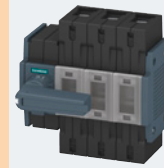
1

Overview

3LD main control and EMERGENCY-STOP switches



3KD switch disconnectors:
Box terminals



3KD switch disconnectors:
Flat terminals



Size

Type

3LD2 0

3LD2 1

3LD2 2

3LD2 5

1

3KD...-M

3LD2 7

3LD2 8

3LD2 3

2

3KD...-N

		3LD main control and EMERGENCY-STOP switches				3KD switch disconnectors			3LD main control and EMERGENCY-STOP switches			3KD switch disconnectors				
Rated current I_n	A	16	25	32	63	16	32	63	100	125	160	80	100	125	160	200
Number of poles																
• 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• 6		✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connections																
• Flat terminals		--	--	--	--	--	--	--	--	--	--	✓	✓	✓	✓	✓
• Box terminals		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	--
Operating mechanisms																
• Front operating mechanisms		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
• Side operating mechanisms		--	--	--	--	✓	✓	✓	--	--	--	✓	✓	✓	✓	✓
Operating and short-circuit behavior																
• Rated short-time withstand current I_{cw} (1 s current, rms value)	kA	0.34	0.64	0.64	1.26	3	3	3	2	2	4	4	4	4	4	4
• Rated conditional short-circuit current with upstream fuses at 690 V ¹⁾	kA _{rms}	50	50	50	50	100	100	100	50	20	50	65	65	65	65	50

¹⁾ Valid for the combination of 3KD switch disconnector and fuse type 3NA..., characteristic gG


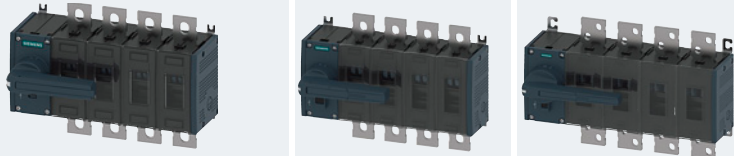
✓ Available

-- Not available

For further information about 3LD main control and EMERGENCY-STOP switches, see

- [Catalog LV 10, Chapter 7](#)
- [Industry Mall, section "Building Technologies and Electrical Distribution"](#)
 - > ["Low-Voltage Components"](#)
 - > ["SENTRON Protection, Switching, Measuring and Monitoring Devices"](#)
 - > ["Switching Devices"](#)
 - > ["Switch Disconnectors"](#)
 - > ["3LD Main Control and EMERGENCY-STOP Switches up to 250 A"](#)

Overview (continued)

3LD main control and EMERGENCY-STOP switches													
3KD switch disconnectors: Box terminals													
3KD switch disconnectors: Flat terminals													
Size		3			4				5				
Type	3LD24	3KD...-P			3KD...-Q				3KD...-R				
		3LD main control and EMERGENCY-STOP switches			3KD switch disconnectors								
Rated current I_n	A	250	200	250	315	400	500	630	800	1000	1250	1600	
Number of poles													
• 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
• 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
• 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Connections													
• Flat terminals		--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
• Box terminals		✓	--	--	--	--	--	--	--	--	--	--	
Operating mechanisms													
• Front operating mechanisms		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
• Side operating mechanisms		--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Operating and short-circuit behavior													
• Rated short-time withstand current I_{cw} (1 s current, rms value)	kA	4	13	13	13	13	30	30	30	50	50	50	
• Rated conditional short-circuit current with upstream fuses at 690 V ¹⁾	kA _{rms}	50	65	65	35	35	65	65	50	--	--	--	

¹⁾ Valid for the combination of 3KD switch disconnector and fuse type 3NA..., characteristic gG

✓ Available

-- Not available

For further information about 3LD main control and EMERGENCY-STOP switches, see

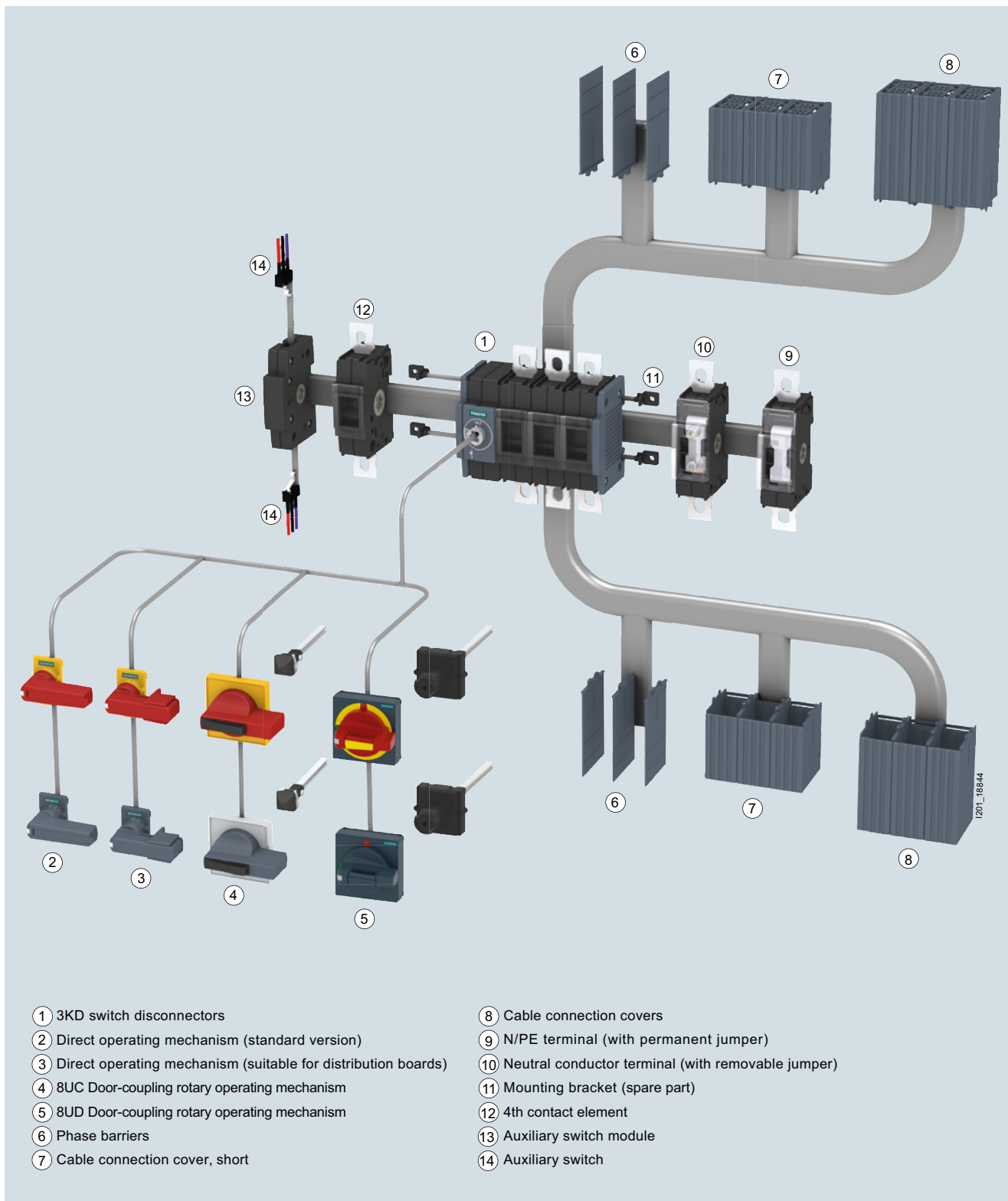
- [Catalog LV 10, Chapter 7](#)
- [Industry Mall, section "Building Technologies and Electrical Distribution"](#)
 - > "Low-Voltage Components"
 - > "SENTRON Protection, Switching, Measuring and Monitoring Devices"
 - > "Switching Devices"
 - > "Switch Disconnectors"
 - > "3LD Main Control and EMERGENCY-STOP Switches up to 250 A"

Introduction

3KD Switch Disconnectors

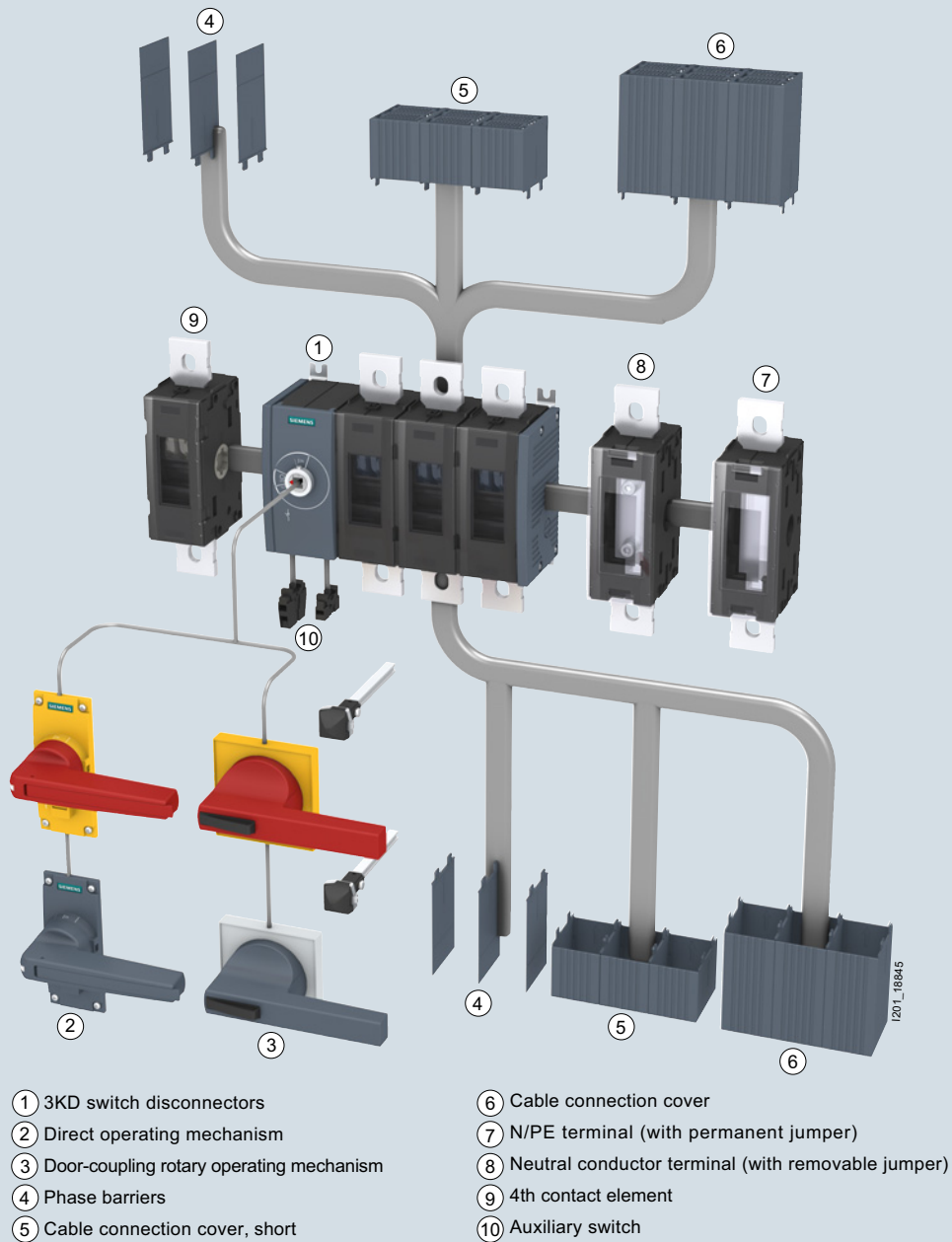
Technical features

Overview of components and accessories: Sizes 1 and 2 of 3KD switch disconnectors



- | | |
|---|--|
| ① 3KD switch disconnectors | ⑧ Cable connection covers |
| ② Direct operating mechanism (standard version) | ⑨ N/PE terminal (with permanent jumper) |
| ③ Direct operating mechanism (suitable for distribution boards) | ⑩ Neutral conductor terminal (with removable jumper) |
| ④ 8UC Door-coupling rotary operating mechanism | ⑪ Mounting bracket (spare part) |
| ⑤ 8UD Door-coupling rotary operating mechanism | ⑫ 4th contact element |
| ⑥ Phase barriers | ⑬ Auxiliary switch module |
| ⑦ Cable connection cover, short | ⑭ Auxiliary switch |

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Overview of components and accessories: Sizes 3 to 5 of 3KD switch disconnectors

Introduction

3KD Switch Disconnectors

Technical features

1

Technical specifications

Sizes 1 and 2

Standards	IEC 60947-1, IEC 60947-3									
Type	3KD16	3KD22	3KD26	3KD28	3KD30	3KD32	3KD34	3KD36...N		
Size	1	1	1	2	2	2	2	2		
General technical details										
Rated uninterrupted current I_U	A	16	32	63	80	100	125	160	200	
Continuous free-air thermal current $I_{th}^{(1)}$	A	16	32	63	80	100	125	160	200	
Rated operational voltage U_e	V	690								
• At 50/60 Hz AC (tolerance up to + 10 % permissible)	V	220								
• At DC - 2 conducting paths series-connected	V	440								
• At DC - 3 conducting paths series-connected	V	1000								
Rated insulation voltage U_i	V	1000								
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8	8	8	8	8	
Overvoltage category		III	III	III	III	III	III	III	III	
Pollution degree		3	3	3	3	3	3	3	3	
Operating and short-circuit behavior										
Rated operational current I_e	A	16	32	63	80	100	125	160	200	
• At AC-21A, AC-22A, 400 to 690 V	A	16	32	63	80	100	125	160	160	
• At AC-23, 400 V	A	16	32	63	80	100	125	160	160	
• At AC-23, 500 V	A	16	32	63	80	100	125	125	125	
• At AC-23, 690 V	A	16	32	63	80	100	125	160	160	
• At DC-21A, 220/440 V	A	16	32	63	80	100	125	160	160	
• At DC-22A, 220/440 V	A	16	32	63	80	100	125	160	160	
• At DC-23A, 220/440 V	A	16	32	63	80	100	125	160	160	
Motor switching capacity AC-23A ²⁾	kW	7.5	15	30	37	55	55	90	90	
• At 400 V	kW	7.5	18.5	37	55	55	75	110	110	
• At 500 V	kW	11	30	55	75	90	110	110	110	
• At 690 V	kW	11	30	55	75	90	110	110	110	
Rated short-time withstand current I_{cw} (with $t = 1$ s, rms value, 690 V AC/440 V DC)	kA	3	3	3	4	4	4	4	4	
Rated short-circuit making capacity I_{cm} (at 690 V AC/440 V DC)	kA	7	7	7	12	12	12	12	12	
Rated current of upstream fuse ³⁾	A	63	63	63	160	160	160	160	200	
Rated conditional short-circuit current with upstream fuse ³⁾	kA	100	100	100	100	100	100	100	50	
• At 400/500 V AC	kA	100	100	100	65	65	65	65	50	
• At 690 V AC	kA	100	100	100	65	65	65	65	50	
Let-through current combined with upstream fuse ³⁾	kA	7	7	7	17.9	17.9	17.9	17.9	18	
• At 400/500 V AC	kA	7.5	7.5	7.5	18.7	18.7	18.7	18.7	19	
• At 690 V AC	kA	7.5	7.5	7.5	18.7	18.7	18.7	18.7	19	
Let-through I^2t value combined with upstream fuse ³⁾	kA ² s	13.3	13.3	13.3	135.6	135.6	135.6	135.6	211	
• At 400/500 V	kA ² s	13.7	13.7	13.7	178.3	178.3	178.3	178.3	226	
• At 690 V	kA ² s	13.7	13.7	13.7	178.3	178.3	178.3	178.3	226	
Power loss per pole with thermal current I_{th}	W	0.2	0.6	2	2	3	4.5	7	10	
Service life, operating cycles										
• Mechanical		15000	15000	15000	15000	15000	15000	15000	15000	
• Electrical, at AC-23A, 690 V/50...60 Hz		6000	6000	6000	1500	1500	1500	1500	1500	
• Electrical, at DC-23A, 220/440 V		1500	1500	1500	1500	1500	1000	1000	1000	
Degree of protection										
• With masking plate or cable connection cover		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
• Without masking plate or terminal cover		IP20	IP20	IP20	IP00 ⁴⁾ /IP20				IP00	
Ambient conditions										
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +55°C)								
• Ambient temperature during storage	°C	-50 ... +80								
• Mounting position ⁵⁾		Any								
Main conductor connections										
Conductor cross-section, max.	mm ²	35	35	35	70 (95) ⁶⁾	70 (95) ⁶⁾	70 (95) ⁶⁾	70 (95) ⁶⁾	95	
Busbar systems, max. dimensions (number x width x thickness)										
• Flat terminals	mm	--				1 x 20 x 3 ⁷⁾				
• Box terminals	mm	1 x 9 x 2				1 x 14 x 3				
Tightening torque	Nm									
• Flat terminals	Nm	--				15 ... 22				
• Box terminals	Nm	5 ... 6.5				6.5 ... 8				

1) Configuring note: Max. permissible operating temperature at connections 125 °C

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

3) Valid for the combination of 3KD and fuse type 3NA38 for $I_U = 16 \dots 160$ A; 3NA31 for $I_U = 200$ A, characteristic gG

4) Relevant only for devices with flat terminals

5) With mounting positions other than the vertical, please contact Technical Support

6) 95 mm² valid for variants with flat terminals

7) When using busbars that are 20 mm wide, these must be insulated.

Technical specifications (continued)

Sizes 3 to 5

Standards	IEC 60947-1, IEC 60947-3											
Type	3KD36...P	3KD38	3KD40	3KD42	3KD44	3KD46	3KD48	3KD50	3KD52	3KD54		
Size	3	3	3	3	4	4	4	5	5	5		
General technical details												
Rated uninterrupted current I_U	A	200	250	315	400	500	630	800	1000	1250	1600	
Continuous free-air thermal current $I_{th}^{1)}$	A	200	250	315	400	500	630	800	1000	1250	1600	
Rated operational voltage U_e	V	690										
• At 50/60 Hz AC (tolerance up to + 10 % permissible)	V	220										
• At DC - 2 conducting paths series-connected	V	440										
• At DC - 3 conducting paths series-connected	V	1000										
Rated insulation voltage U_i	kV	12	12	12	12	12	12	12	12	12	12	
Rated impulse withstand voltage U_{imp}	kV	12	12	12	12	12	12	12	12	12	12	
Overvoltage category	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	IV	
Pollution degree	3	3	3	3	3	3	3	3	3	3	3	
Operating and short-circuit behavior												
Rated operational current $I_a^{2) 3)}$	A	200	250	315	400	500	630	800	1000	1250	1600	
• At AC-21A, AC-22A, 400 to 690 V	A	200	250	315	400	500	630	670	800	800	800	
• At AC-23, 400 V	A	200	250	315	350	500	630	630	800	800	800	
• At AC-23, 500 V	A	200	250	315	315	500	500	500	800	800	800	
• At AC-23, 690 V	A	200	250	315	400	500	630	800	1000	1250	1600	
• At DC-21A, 220/440 V	A	200	250	315	400	500	630	800	--	--	--	
• At DC-22A, 220/440 V	A	200	250	315	400	500	630	800	--	--	--	
• At DC-23A, 220/440 V	A	200	250	315	400	500	630	800	--	--	--	
Motor switching capacity AC-23A ⁴⁾	kW	110	132	160	220	280	355	355	400	400	400	
• At 400 V	kW	132	160	220	250	355	400	400	560	560	560	
• At 500 V	kW	185	220	280	315	500	500	500	800	800	800	
• At 690 V	kW	185	220	280	315	500	500	500	800	800	800	
Rated short-time withstand current I_{cw} (with $t = 1$ s, rms value, 690 V AC/440 V DC)	kA	13	13	13	13	30	30	30	50	50	50	
Rated short-circuit making capacity I_{cm} (at 690 V AC/440 V DC)	kA	26	26	26	26	63	63	63	105	105	105	
Rated current of upstream fuse ⁵⁾	A	250	250	400	400	630	630	800	1000	1250	1600	
Rated conditional short-circuit current with upstream fuse ⁵⁾	kA	100	100	65	65	100	100	100	100	80	80	
• At 400/500 V AC	kA	65	65	35	35	65	65	50	--	--	--	
• At 690 V AC	kA	65	65	35	35	65	65	50	--	--	--	
Let-through current combined with upstream fuse ⁵⁾	kA	25.1	25.1	35.2	35.2	61.6	61.6	63.7	95.9	103.4	110	
• At 400/500 V AC	kA	22.7	22.7	27.96	27.96	54.5	54.5	70.4	--	--	--	
• At 690 V AC	kA	22.7	22.7	27.96	27.96	54.5	54.5	70.4	--	--	--	
Let-through I^2t value combined with upstream fuse ⁵⁾	kA ² s	427	427	1165	1165	3687	3687	7471	15400	25960	30900	
• At 400/500 V	kA ² s	348	348	1157	1157	4450	4450	10300	--	--	--	
• At 690 V	kA ² s	348	348	1157	1157	4450	4450	10300	--	--	--	
Power loss per pole with thermal current I_{th}	W	4	7	10	17	15	22	35	47	70	120	
Service life, operating cycles		10000	10000	10000	10000	8000	8000	8000	6000	6000	6000	
• Mechanical		1000	1000	1000	1000	1000	1000	1000	500	500	500	
• Electrical, at AC-23A, 690 V/50...60 Hz		1000	1000	1000	1000	1000	1000	500	500	500	500	
• Electrical, at DC-23A, 220/440 V		1000	1000	1000	1000	1000	1000	500	500	500	500	
Degree of protection		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
• With masking plate or cable connection cover		IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	
• Without masking plate or terminal cover		IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	
Ambient conditions												
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +55 °C)										
• Ambient temperature during storage	°C	-50 ... +80										
• Mounting position ⁶⁾		Any										
Main conductor connections												
Conductor cross-section, max.	mm ²	240				2 x 240			2 x 240			
Busbar systems, max. dimensions (number x width x thickness)												
• Flat terminals	mm	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10			
• Box terminals	mm	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10			
Tightening torque	Nm	30 ... 44				50 ... 75			50 ... 75			
• Flat terminals	Nm	30 ... 44				50 ... 75			50 ... 75			
• Box terminals	Nm	30 ... 44				50 ... 75			50 ... 75			

1) Max. permissible operating temperature at connections 125 °C

2) With size 3 switch disconnectors, phase barriers or terminal covers (accessories) are required for:
- Busbar systems at AC-21A, AC-22A and $U_e > 400$ V, AC-23A and
- when cable lugs are connected

3) With size 4 at AC-23A, phase barriers or terminal covers must be installed (accessories)

4) The values are provided as a guide only and may vary depending on the make of motor

5) Valid for the combination of 3KD and fuse type 3NA..., characteristic gG

6) Contact Technical Support for other mounting positions

Introduction

3KD Switch Disconnectors

Technical features

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Technical specifications (continued)

3KD 6-pole for DC applications, size 1 and 2

Standards	IEC 60947-1, IEC 60947-3							
	3KD16	3KD22	3KD26	3KD28	3KD30	3KD32	3KD34	
Type	1	1	1	2	2	2	2	
Size	1	1	1	2	2	2	2	
General technical details								
Rated uninterrupted current I_U	A	16	32	63	80	100	125	160
Continuous free-air thermal current $I_{th}^{1)}$	A	16	32	63	80	100	125	160
Rated operational voltage U_e								
• At DC - with pollution degree 2	V	1200	1200	1200	1200	1200	1200	1200
• At DC - with pollution degree 3	V	1000	1000	1000	1000 ²⁾	1000 ²⁾	1000 ²⁾	1000 ²⁾
Rated insulation voltage U_i								
• At DC - with pollution degree 2	V	1250	1250	1250	1250	1250	1250	1250
• At DC - with pollution degree 3	V	1000	1000	1000	1000 ³⁾	1000 ³⁾	1000 ³⁾	1000 ³⁾
Rated impulse withstand voltage U_{imp}	kV	8	8	8	8	8	8	8
Overvoltage category		III	III	III	III	III	III	III
Operating and short-circuit behavior								
Rated operational current I_e								
• At DC-21A, 1200 V	A	16	32	63	80	100	125	160
• At DC-21B, 1200 V	A	--	--	--	--	--	--	--
Rated short-time withstand current I_{cw}								
• with $t = 1$ s, rms value, 1200 V DC	kA	3	3	3	4	4	4	4
Rated short-circuit making capacity I_{cm}								
• At 1200 V DC	kA	4.3	4.3	4.3	5.7	5.7	5.7	5.7
Power loss per pole with thermal current I_{th}	W	0.2	0.6	2	2	3	4.5	7
Service life, operating cycles								
• Mechanical		15000	15000	15000	15000	15000	15000	15000
• Electrical, at DC-21, 1200 V		1500	1500	1500	1500	1500	1500	1500
Degree of protection								
• With masking plate or cable connection cover		IP20	IP20	IP20	IP20	IP20	IP20	IP20
• Without masking plate or terminal cover		IP20	IP20	IP20	IP00 ⁴⁾ /IP20			
Ambient conditions								
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +40°C)						
• Ambient temperature during storage	°C	-50 ... +80						
• Mounting position		Any						
Main conductor connections								
Conductor cross-section, max.	mm ²	35	35	35	70	70	70	70
Busbar systems, max. dimensions (number x width x thickness)								
• Flat terminals	mm	--			1 x 20 x 3 ⁵⁾			
• Box terminals	mm	1 x 9 x 2			1 x 14 x 3			
Tightening torque								
• Flat terminals	Nm	--			15 ... 22			
• Box terminals	Nm	5...6.5			6.5...8			

1) Configuring note: Max. permissible operating temperature at connections 110°C

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

3) Valid for version with box terminal, version with flat terminal max. 1250 V

4) Relevant only for devices with flat terminals

5) When using busbars that are 20 mm wide, these must be insulated.

Technical specifications (continued)

3KD 6-pole for DC applications, size 3 to 5

Standards	IEC 60947-1, IEC 60947-3										
	3KD36	3KD38	3KD40	3KD42	3KD44	3KD46	3KD48	3KD50	3KD52	3KD54	
Type	3	3	3	3	4	4	4	5	5	5	
Size	3	3	3	3	4	4	4	5	5	5	
General technical details											
Rated uninterrupted current I_u	A	200	250	315	400	500	630	800	1000	1250	1600
Continuous free-air thermal current $I_{th}^{1)}$	A	200	250	315	400	500	630	800	1000	1250	1600
Rated operational voltage U_e											
• At DC - with pollution degree 2	V	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
• At DC - with pollution degree 3	V	1200	1200	1200	1200	1000	1000	1000	1200	1200	1200
Rated insulation voltage U_i											
• At DC - with pollution degree 2	V	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
• At DC - with pollution degree 3	V	1250	1250	1250	1250	1000	1000	1000	1250	1250	1250
Rated impulse withstand voltage U_{imp}	kV	12	12	12	12	12	12	12	12	12	12
Overvoltage category		IV	IV	IV	IV	IV	IV	IV	IV	IV	IV
Operating and short-circuit behavior											
Rated operational current $I_e^{2)}$											
• At DC-21A, 1200 V	A	--	--	--	--	--	--	--	--	--	--
• At DC-21B, 1200 V	A	200	250	315	400	500	630	800	1000	1250	1600
Rated short-time withstand current I_{cw}											
• with $t = 1$ s, rms value, 1200 V DC	kA	10	10	10	10	20	20	20	20	20	20
Rated short-circuit making capacity I_{cm}											
• At 1200 V DC	kA	14.2	14.2	14.2	14.2	28.4	28.4	28.4	28.4	28.4	28.4
Power loss per pole with thermal current I_{th}	W	4	7	10	17	15	22	35	47	70	120
Service life, operating cycles											
• Mechanical		10000	10000	10000	10000	8000	8000	8000	6000	6000	6000
• Electrical, at DC-21, 1200 V		200	200	200	200	100	100	100	100	100	100
Degree of protection											
• With masking plate or cable connection cover		IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
• Without masking plate or terminal cover		IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00	IP00
Ambient conditions											
• Ambient temperature during operation	°C	-25 ... +70 (no derating of I_{th} at -5 to +40°C)									
• Ambient temperature during storage	°C	-50 ... +80									
• Mounting position		Any									
Main conductor connections											
Conductor cross-section, max.	mm ²	240			2 x 240			2 x 240			
Busbar systems, max. dimensions (number x width x thickness)											
• Flat terminals	mm	1 x 30 x 10			2 x 40 x 5			2 x 60 x 10			
• Box terminals	mm	--			--			--			
Tightening torque											
• Flat terminals	Nm	30 ... 44			50 ... 75			50 ... 75			
• Box terminals	Nm	--			--			--			

1) Configuring note: Max. permissible operating temperature at connections 110°C

2) For switch disconnectors size 3 and 4, phase barriers or contact connection covers (accessories) are required when connecting cable lugs

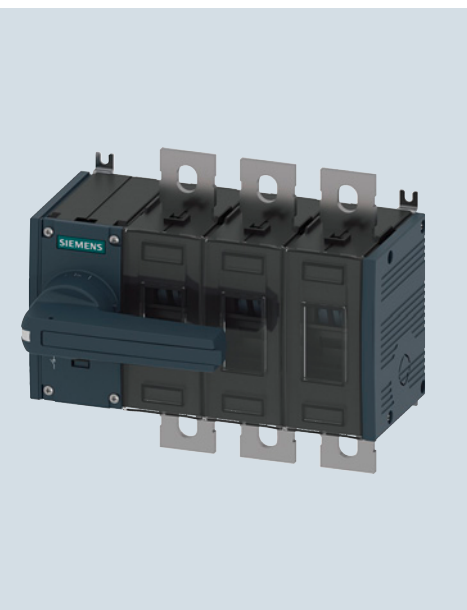
Introduction

3KD Switch Disconnectors

Notes

1

3KD Switch Disconnectors

**NEW**

Direct reference to the products in the Industry Mall from the selection and ordering data tables:

Article No.

[www.siemens.com/
product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Article No.

3KD2832-0NE10-0

Paper catalog:

To get more product information enter the Web address plus Article No.

PDF catalog:

Get more product information with just a mouse click.

**3KD Switch Disconnectors up to 1600 A**

- 2/2 Introduction
- 2/3 Complete assemblies
- 2/4 Basic units
- 2/8 Accessories and spare parts

2

For further technical product information:

[Configuration Manual](#)

[Switch disconnectors](#)

Article No.: 3ZW1012-3NP11-0AC1

[Siemens Industry Online Support:](#)

www.siemens.com/lowvoltage/product-support

→ Entry type:

- Application example
- Certificate
- Characteristic
- Download
- FAQ
- Manual
- Product note
- Software archive
- Technical data

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Introduction

Overview

2



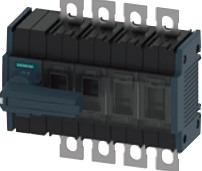

Devices	Description	Page
Complete assemblies		
	Complete assemblies with direct operating mechanisms	Ready-to-install combinations comprising switch disconnectors and operating mechanisms 2/3 <ul style="list-style-type: none"> • 3- and 4-pole switch disconnectors with front operating mechanisms • Connections in form of box terminal or flat terminal incl. direct operating mechanism with gray handle
Basic units		
	Front operating mechanisms 6-pole for 1200 V DC	Switch disconnectors with front operating mechanisms without handle 2/5 <ul style="list-style-type: none"> • 6-pole versions 2/5 • Connection via flat terminal (size 2 to 5) or box terminal (size 1 and 2) • Operating mechanism module in the center of the switch disconnector
	3-/4-pole up to 690 V AC / 440 V DC	<ul style="list-style-type: none"> • 3- and 4-pole versions 2/5 • Connection via flat terminal (size 2 to 5) or box terminal (size 1 and 2) • Operating mechanism module in center or on left-hand side of switch disconnector
	Side operating mechanisms	Switch disconnectors with side operating mechanisms 2/6 <ul style="list-style-type: none"> • 3- and 4-pole versions • Connection via flat terminal (size 2 to 5) or box terminal (size 1 and 2) • Operating mechanism module on the right or left-hand side of switch disconnector
Accessories and spare parts		
 <p>Left: Box terminal Right: Flat terminal</p>	Additional poles	Additional poles for enhanced functionality 2/8 <ul style="list-style-type: none"> • 4th contact element (switching pole) • N terminal (neutral conductor terminal with removable jumper) • N/PE terminal (with permanent jumper)
	Direct operating mechanisms	Different handles for mounting on basic units 2/9 <ul style="list-style-type: none"> • Direct operating mechanisms for direct mounting on switch disconnector • Handles available in colors gray or red/yellow
	Door-coupling rotary operating mechanisms	Different handles for mounting on basic units 2/10 <ul style="list-style-type: none"> • Door-coupling rotary operating mechanisms for operation of switch disconnector outside the control cabinet door • 8UD series or 8UC/3KD series • Handles available in colors gray or red/yellow
	Auxiliary switches	Auxiliary switches 2/15 <ul style="list-style-type: none"> • For querying the switch position • Optionally available with leading NO contacts (auxiliary switch contacts open before the main contacts of the 3KD switch disconnector) • Optionally available with test function (switch can be tested without closure of main contacts)
 <p>Left: Cable connection cover Right: Phase barrier</p>	Other accessories	2/16 <ul style="list-style-type: none"> • Terminal covers • Phase barriers • Cable connection cover as touch protection for termination area (for installation outside control cabinet) • Mounting bracket for wall mounting (spare part)

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Complete assemblies

Selection and ordering data

	Rated uninterrupted current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Complete assemblies with direct operating mechanism gray, front operating mechanism									
The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails									
3-pole									
Flat terminals¹⁾									
	80	2		3KD2832-0NE10-0		1	1 unit	143	1,092
	100		3KD3032-0NE10-0		1	1 unit	143	1,088	
	125		3KD3232-0NE10-0		1	1 unit	143	1,086	
	160		3KD3432-0NE10-0		1	1 unit	143	1,086	
	200		3KD3632-0NE10-0		1	1 unit	143	0,088	
3-pole, flat terminal, size 2	200	3		3KD3632-0PE10-0		1	1 unit	143	3,000
	250		3KD3832-0PE10-0		1	1 unit	143	2,980	
	315		3KD4032-0PE10-0		1	1 unit	143	3,000	
	400		3KD4232-0PE10-0		1	1 unit	143	3,000	
	500		3KD4432-0QE10-0	4		1	1 unit	143	7,520
630	3KD4632-0QE10-0		1		1 unit	143	7,500		
800	3KD4832-0QE10-0		1		1 unit	143	7,540		
1000	3KD5032-0RE10-0	5			1	1 unit	143	17,440	
1250	3KD5232-0RE10-0				1	1 unit	143	17,420	
1600	3KD5432-0RE10-0			1	1 unit	143	17,340		
Box terminal									
	16	1		3KD1632-2ME10-0		1	1 unit	143	0,831
	32		3KD2232-2ME10-0		1	1 unit	143	0,830	
	63		3KD2632-2ME10-0		1	1 unit	143	0,839	
	80		3KD2832-2NE10-0	2		1	1 unit	143	1,206
	100		3KD3032-2NE10-0			1	1 unit	143	1,205
125	3KD3232-2NE10-0		1		1 unit	143	1,208		
3-pole, box terminal, size 2	160			3KD3432-2NE10-0		1	1 unit	143	1,200
	4-pole								
Flat terminals¹⁾									
	80	2		3KD2842-0NE10-0		1	1 unit	143	1,344
	100		3KD3042-0NE10-0		1	1 unit	143	1,345	
	125		3KD3242-0NE10-0		1	1 unit	143	1,346	
	160		3KD3442-0NE10-0		1	1 unit	143	1,348	
	200		3KD3642-0NE10-0	3		1	1 unit	143	1,346
200	3KD3642-0PE10-0		1		1 unit	143	3,700		
250	3KD3842-0PE10-0		1		1 unit	143	3,700		
4-pole, flat terminal, size 2	315	4		3KD4042-0PE10-0		1	1 unit	143	3,700
	400		3KD4242-0PE10-0		1	1 unit	143	3,700	
	500		3KD4442-0QE10-0	4		1	1 unit	143	9,320
	630		3KD4642-0QE10-0			1	1 unit	143	9,200
	800		3KD4842-0QE10-0			1	1 unit	143	9,340
4-pole, flat terminal, size 5	1000	5		3KD5042-0RE10-0		1	1 unit	143	21,560
	1250		3KD5242-0RE10-0		1	1 unit	143	21,600	
	1600		3KD5442-0RE10-0		1	1 unit	143	21,580	
Box terminal									
	16	1		3KD1642-2ME10-0		1	1 unit	143	1,001
	32		3KD2242-2ME10-0		1	1 unit	143	1,005	
	63		3KD2642-2ME10-0		1	1 unit	143	0,999	
	80		3KD2842-2NE10-0	2		1	1 unit	143	1,498
	100		3KD3042-2NE10-0			1	1 unit	143	1,493
125	3KD3242-2NE10-0		1		1 unit	143	1,494		
4-pole, box terminal, size 2	160			3KD3442-2NE10-0		1	1 unit	143	1,498

¹⁾ Cable connection covers must be provided for switch disconnectors with flat terminals and direct operating mechanisms

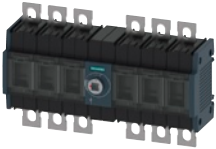
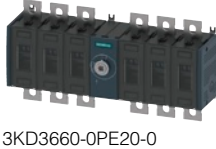

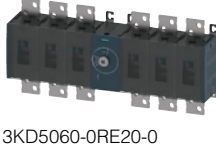

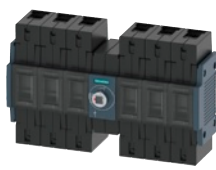
* You can order this quantity or a multiple thereof.

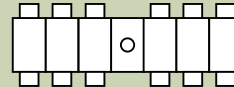
3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

Selection and ordering data

	Rated uninterrupted current I_u A	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Basic units without handle, front operating mechanisms									
The switch disconnectors are designed for floor mounting. Sizes 1 and 2 can optionally also be mounted on standard mounting rails.									
6-pole for 1200 V DC									
Flat terminal									
	80	2		3KD2860-0NE20-0		1	1 unit	143	1,300
	100	2		3KD3060-0NE20-0		1	1 unit	143	1,300
	125	2		3KD3260-0NE20-0		1	1 unit	143	1,300
	160	2		3KD3460-0NE20-0		1	1 unit	143	1,300
3KD2860-0NE20-0									
	200	3		3KD3660-0PE20-0		1	1 unit	143	3,950
	250	3		3KD3860-0PE20-0		1	1 unit	143	3,950
	315	3		3KD4060-0PE20-0		1	1 unit	143	3,950
	400	3		3KD4260-0PE20-0		1	1 unit	143	3,950
3KD3660-0PE20-0									
	500	4		3KD4460-0QE20-0		1	1 unit	143	10,800
	630	4		3KD4660-0QE20-0		1	1 unit	143	10,800
	800	4		3KD4860-0QE20-0		1	1 unit	143	10,800
3KD4460-0QE20-0									
	1000	5		3KD5060-0RE20-0		1	1 unit	143	25,500
	1250	5		3KD5260-0RE20-0		1	1 unit	143	25,500
	1600	5		3KD5460-0RE20-0		1	1 unit	143	25,500
3KD5060-0RE20-0									
Box terminal									
	16	1		3KD1660-2ME20-0		1	1 unit	143	1,200
	32	1		3KD2260-2ME20-0		1	1 unit	143	1,200
	63	1		3KD2660-2ME20-0		1	1 unit	143	1,200
3KD1660-2ME20-0									
	80	2		3KD2860-2NE20-0		1	1 unit	143	1,850
	100	2		3KD3060-2NE20-0		1	1 unit	143	1,850
	125	2		3KD3260-2NE20-0		1	1 unit	143	1,850
	160	2		3KD3460-2NE20-0		1	1 unit	143	1,850
3KD2860-2NE20-0									



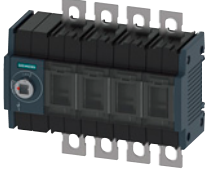



3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

2

Rated un- interrupted current I_u	Size	Operating mechanism on left			Operating mechanism in center			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	DT	Article No. www.siemens.com/ product?Article No.	Price per PU				
Basic units without handle, front operating mechanisms											
The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails											
3-pole											
Flat terminals¹⁾											
	80	2	3KD2830-0NE10-0		3KD2830-0NE20-0		1	1 unit	143	1,051	
	100		3KD3030-0NE10-0		3KD3030-0NE20-0		1	1 unit	143	1,049	
	125		3KD3230-0NE10-0		3KD3230-0NE20-0		1	1 unit	143	1,050	
	160		3KD3430-0NE10-0		3KD3430-0NE20-0		1	1 unit	143	1,049	
	200		3KD3630-0NE10-0		3KD3630-0NE20-0		1	1 unit	143	1,052	
	200	3	3KD3630-0PE10-0		3KD3630-0PE20-0		1	1 unit	143	2,750	
	250		3KD3830-0PE10-0		3KD3830-0PE20-0		1	1 unit	143	2,891	
	315		3KD4030-0PE10-0		3KD4030-0PE20-0		1	1 unit	143	2,894	
	400		3KD4230-0PE10-0		3KD4230-0PE20-0		1	1 unit	143	2,894	
	500	4	3KD4430-0QE10-0		3KD4430-0QE20-0		1	1 unit	143	7,360	
	630		3KD4630-0QE10-0		3KD4630-0QE20-0		1	1 unit	143	7,422	
	800		3KD4830-0QE10-0		3KD4830-0QE20-0		1	1 unit	143	7,440	
	1000	5	3KD5030-0RE10-0		3KD5030-0RE20-0		1	1 unit	143	17,120	
	1250		3KD5230-0RE10-0		3KD5230-0RE20-0		1	1 unit	143	17,160	
	1600		3KD5430-0RE10-0		3KD5430-0RE20-0		1	1 unit	143	17,080	
Box terminal											
	16	1	3KD1630-2ME10-0		3KD1630-2ME20-0		1	1 unit	143	0,783	
	32		3KD2230-2ME10-0		3KD2230-2ME20-0		1	1 unit	143	0,782	
	63		3KD2630-2ME10-0		3KD2630-2ME20-0		1	1 unit	143	0,778	
	80	2	3KD2830-2NE10-0		3KD2830-2NE20-0		1	1 unit	143	1,145	
	100		3KD3030-2NE10-0		3KD3030-2NE20-0		1	1 unit	143	1,143	
	125		3KD3230-2NE10-0		3KD3230-2NE20-0		1	1 unit	143	1,143	
	160		3KD3430-2NE10-0		3KD3430-2NE20-0		1	1 unit	143	1,128	
4-pole											
Flat terminals¹⁾											
	80	2	3KD2840-0NE10-0		3KD2840-0NE20-0		1	1 unit	143	1,312	
	100		3KD3040-0NE10-0		3KD3040-0NE20-0		1	1 unit	143	1,311	
	125		3KD3240-0NE10-0		3KD3240-0NE20-0		1	1 unit	143	1,315	
	160		3KD3440-0NE10-0		3KD3440-0NE20-0		1	1 unit	143	1,313	
	200		3KD3640-0NE10-0		3KD3640-0NE20-0		1	1 unit	143	1,314	
	200	3	3KD3640-0PE10-0		3KD3640-0PE20-0		1	1 unit	143	3,550	
	250		3KD3840-0PE10-0		3KD3840-0PE20-0		1	1 unit	143	3,540	
	315		3KD4040-0PE10-0		3KD4040-0PE20-0		1	1 unit	143	3,540	
	400		3KD4240-0PE10-0		3KD4240-0PE20-0		1	1 unit	143	3,548	
	500	4	3KD4440-0QE10-0		3KD4440-0QE20-0		1	1 unit	143	9,162	
	630		3KD4640-0QE10-0		3KD4640-0QE20-0		1	1 unit	143	9,220	
	800		3KD4840-0QE10-0		3KD4840-0QE20-0		1	1 unit	143	9,201	
	1000	5	3KD5040-0RE10-0		3KD5040-0RE20-0		1	1 unit	143	21,300	
	1250		3KD5240-0RE10-0		3KD5240-0RE20-0		1	1 unit	143	21,400	
	1600		3KD5440-0RE10-0		3KD5440-0RE20-0		1	1 unit	143	21,340	
Box terminal											
	16	1	3KD1640-2ME10-0		3KD1640-2ME20-0		1	1 unit	143	0,954	
	32		3KD2240-2ME10-0		3KD2240-2ME20-0		1	1 unit	143	0,954	
	63		3KD2640-2ME10-0		3KD2640-2ME20-0		1	1 unit	143	0,954	
	80	2	3KD2840-2NE10-0		3KD2840-2NE20-0		1	1 unit	143	1,430	
	100		3KD3040-2NE10-0		3KD3040-2NE20-0		1	1 unit	143	1,434	
	125		3KD3240-2NE10-0		3KD3240-2NE20-0		1	1 unit	143	1,434	
	160		3KD3440-2NE10-0		3KD3440-2NE20-0		1	1 unit	143	1,431	

1) Phase barriers for size 2 included in scope of supply

* You can order this quantity or a multiple thereof.

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

2

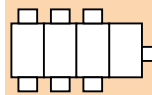
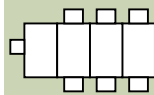
Rated un-interrupted current I_u A	Size	Operating mechanism on left			Operating mechanism on right			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU				

Basic units without handle, side operating mechanisms

The switch disconnectors with side operating mechanisms are suitable for door-coupling rotary operating mechanisms.

3-pole

Flat terminal



3-pole, flat terminal, size 2,
operating mechanism on right

80	2		3KD2834-ONE10-0	3KD2834-ONE40-0		1	1 unit	143	0,800
100	2		3KD3034-ONE10-0	3KD3034-ONE40-0		1	1 unit	143	0,800
125	2		3KD3234-ONE10-0	3KD3234-ONE40-0		1	1 unit	143	0,800
160	2		3KD3434-ONE10-0	3KD3434-ONE40-0		1	1 unit	143	0,800
200	2		3KD3634-ONE10-0	3KD3634-ONE40-0		1	1 unit	143	0,800



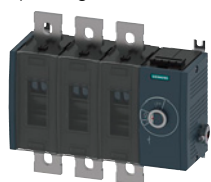
3-pole, flat terminal, size 3,
operating mechanism on right

200	3		3KD3634-OPE10-0	3KD3634-OPE40-0		1	1 unit	143	2,964
250	3		3KD3834-OPE10-0	3KD3834-OPE40-0		1	1 unit	143	2,968
315	3		3KD4034-OPE10-0	3KD4034-OPE40-0		1	1 unit	143	2,977
400	3		3KD4234-OPE10-0	3KD4234-OPE40-0		1	1 unit	143	2,958



3-pole, flat terminal, size 4,
operating mechanism on right

500	4		3KD4434-OQE10-0	3KD4434-OQE40-0		1	1 unit	143	7,516
630	4		3KD4634-OQE10-0	3KD4634-OQE40-0		1	1 unit	143	7,620
800	4		3KD4834-OQE10-0	3KD4834-OQE40-0		1	1 unit	143	6,500



3-pole, flat terminal, size 5,
operating mechanism on right

1000	5		3KD5034-ORE10-0	3KD5034-ORE40-0		1	1 unit	143	17,240
1250	5		3KD5234-ORE10-0	3KD5234-ORE40-0		1	1 unit	143	17,500
1600	5		3KD5434-ORE10-0	3KD5434-ORE40-0		1	1 unit	143	17,300

Box terminal



3-pole, box terminal, size 1,
operating mechanism on right

16	1		3KD1634-2ME10-0	3KD1634-2ME40-0		1	1 unit	143	0,750
32	1		3KD2234-2ME10-0	3KD2234-2ME40-0		1	1 unit	143	0,750
63	1		3KD2634-2ME10-0	3KD2634-2ME40-0		1	1 unit	143	0,750



3-pole, box terminal, size 2,
operating mechanism on right

80	2		3KD2834-2NE10-0	3KD2834-2NE40-0		1	1 unit	143	1,100
100	2		3KD3034-2NE10-0	3KD3034-2NE40-0		1	1 unit	143	1,100
125	2		3KD3234-2NE10-0	3KD3234-2NE40-0		1	1 unit	143	1,100
160	2		3KD3434-2NE10-0	3KD3434-2NE40-0		1	1 unit	143	1,100

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

2

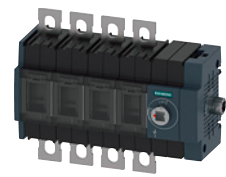
Rated un-interrupted current I_u A	Size	Operating mechanism on left		Operating mechanism on right		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		DT	Article No. www.siemens.com/product?Article No.	DT	Article No. www.siemens.com/product?Article No.				

Basic units without handle, side operating mechanism (continued)

The switch disconnectors with side operating mechanisms are suitable for door-coupling rotary operating mechanisms.

4-pole

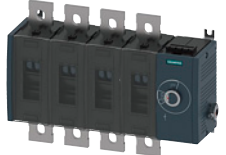
Flat terminal



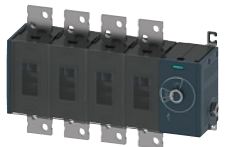
4-pole, flat terminal, size 2, operating mechanism on right



4-pole, flat terminal, size 3, operating mechanism on right



4-pole, flat terminal, size 4, operating mechanism on right



4-pole, flat terminal, size 5, operating mechanism on right



4-pole, box terminal, size 1, operating mechanism on right



4-pole, box terminal, size 2, operating mechanism on right

80	2	3KD2844-0NE10-0	3KD2844-0NE40-0	1	1 unit	143	1,000
100	2	3KD3044-0NE10-0	3KD3044-0NE40-0	1	1 unit	143	1,000
125	2	3KD3244-0NE10-0	3KD3244-0NE40-0	1	1 unit	143	1,000
160	2	3KD3444-0NE10-0	3KD3444-0NE40-0	1	1 unit	143	1,000
200	2	3KD3644-0NE10-0	3KD3644-0NE40-0	1	1 unit	143	1,000
200	3	3KD3644-0PE10-0	3KD3644-0PE40-0	1	1 unit	143	3,616
250	3	3KD3844-0PE10-0	3KD3844-0PE40-0	1	1 unit	143	3,623
315	3	3KD4044-0PE10-0	3KD4044-0PE40-0	1	1 unit	143	3,639
400	3	3KD4244-0PE10-0	3KD4244-0PE40-0	1	1 unit	143	3,602
500	4	3KD4444-0QE10-0	3KD4444-0QE40-0	1	1 unit	143	9,283
630	4	3KD4644-0QE10-0	3KD4644-0QE40-0	1	1 unit	143	9,260
800	4	3KD4844-0QE10-0	3KD4844-0QE40-0	1	1 unit	143	7,240
1000	5	3KD5044-0RE10-0	3KD5044-0RE40-0	1	1 unit	143	21,560
1250	5	3KD5244-0RE10-0	3KD5244-0RE40-0	1	1 unit	143	21,500
1600	5	3KD5444-0RE10-0	3KD5444-0RE40-0	1	1 unit	143	21,320
16	1	3KD1644-2ME10-0	3KD1644-2ME40-0	1	1 unit	143	0,900
32	1	3KD2244-2ME10-0	3KD2244-2ME40-0	1	1 unit	143	0,900
63	1	3KD2644-2ME10-0	3KD2644-2ME40-0	1	1 unit	143	0,900
80	2	3KD2844-2NE10-0	3KD2844-2NE40-0	1	1 unit	143	1,350
100	2	3KD3044-2NE10-0	3KD3044-2NE40-0	1	1 unit	143	1,350
125	2	3KD3244-2NE10-0	3KD3244-2NE40-0	1	1 unit	143	1,350
160	2	3KD3444-2NE10-0	3KD3444-2NE40-0	1	1 unit	143	1,350



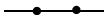
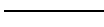
3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Selection and ordering data

Additional poles

Type	Circuit symbol	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
4. contact element (switching pole)								
mm								
	N —  N							
Flat terminal								
for size 2; 3KD....-N	--		3KD9205-0		1	1 unit	143	0,338
for size 3; 3KD....-P			3KD9305-0		1	1 unit	143	0,914
for size 4; 3KD....-Q			3KD9405-0		1	1 unit	143	1,949
for size 5; 3KD....-R			3KD9505-0		1	1 unit	143	5,130
Box terminal								
for size 1; 3KD....-M			3KD9105-2		1	1 unit	143	0,269
for size 2; 3KD....-N			3KD9205-2		1	1 unit	143	0,380
Neutral conductor terminal with removable jumper								
								
Flat terminal								
for size 2; 3KD....-N			3KD9206-0		1	1 unit	143	0,318
for size 3; 3KD....-P			3KD9306-0		1	1 unit	143	0,800
for size 4; 3KD....-Q			3KD9406-0		1	1 unit	143	1,564
for size 5; 3KD....-R			3KD9506-0		1	1 unit	143	4,526
Box terminal								
for size 1; 3KD....-M			3KD9106-2		1	1 unit	143	0,255
for size 2; 3KD....-N			3KD9206-2		1	1 unit	143	0,348
N/PE terminal with permanent jumper								
								
Flat terminal								
for size 2; 3KD....-N			3KD9206-7		1	1 unit	143	0,299
for size 3; 3KD....-P			3KD9306-7		1	1 unit	143	0,731
for size 4; 3KD....-Q			3KD9406-7		1	1 unit	143	1,456
for size 5; 3KD....-R			3KD9506-7		1	1 unit	143	4,143
Box terminal								
for size 1; 3KD....-M			3KD9106-8		1	1 unit	143	0,249
for size 2; 3KD....-N			3KD9206-8		1	1 unit	143	0,330

4. contact element, flat terminal,
for size 2



4th contact element, box terminal,
for size 2



Neutral conductor terminal, flat
terminal, for size 2



Neutral conductor terminal,
box terminal, for size 2



N/PE terminal, flat terminal,
for size 2



N/PE terminal, box terminal,
for size 2

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Direct operating mechanisms

Type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Direct operating mechanisms in standard version and flat version							
Standard version							
Can be locked with up to max. 3 padlocks, requires additional mounting depth in locked state							
Gray							
 <p>Direct operating mechanism, gray, for size 2</p>		for size 1; 3KD....-M	3KD9101-1	1	1 unit	143	0,129
		for size 2; 3KD....-N	3KD9201-1	1	1 unit	143	0,141
		for size 3; 3KD....-P	3KD9301-1	1	1 unit	143	0,220
		for size 4; 3KD....-Q	3KD9401-1	1	1 unit	143	0,565
		for size 5; 3KD....-R	3KD9501-1	1	1 unit	143	0,842
Red/yellow							
 <p>Direct operating mechanism, red/yellow, for size 2</p>		for size 1; 3KD....-M	3KD9101-2	1	1 unit	143	0,149
		for size 2; 3KD....-N	3KD9201-2	1	1 unit	143	0,155
		for size 3; 3KD....-P	3KD9301-2	1	1 unit	143	0,230
		for size 4; 3KD....-Q	3KD9401-2	1	1 unit	143	0,574
		for size 5; 3KD....-R	3KD9501-2	1	1 unit	143	0,820
Flat version (suitable for distribution boards)							
Can be locked with one padlock, requires no additional mounting depth in locked state							
Gray							
 <p>Direct operating mechanism, flat version, gray, for size 2</p>		for size 1; 3KD....-M	3KD9101-0	1	1 unit	143	0,129
		for size 2; 3KD....-N	3KD9201-0	1	1 unit	143	0,140
Red/yellow							
 <p>Direct operating mechanism, flat version, red/yellow, for size 2</p>		for size 1; 3KD....-M	3KD9101-8	1	1 unit	143	0,130
		for size 2; 3KD....-N	3KD9201-8	1	1 unit	143	0,059

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Door-coupling rotary operating mechanisms

Note

For 3KD switch disconnectors with side operating mechanism (left or right), only door-coupling rotary operating mechanisms without "Test" can be used.

If door-coupling rotary operating mechanisms without "Test" are used on 3KD, the test function must be mechanically blocked on the switch. The blocking pin required for this is included in the scope of supply of the 3KD.





Availability of door-coupling rotary operating mechanisms

Size 3KD	1	2	3	4	5
Front operating mechanisms					
3-, 4- and 6-pole					
8UC/3KD9 series	✓	✓	✓	✓	✓
8UD series	✓	✓	*	*	*
Side operating mechanisms					
3- and 4-pole					
8UC/3KD9 series	✓	--	✓	✓	✓
8UD series	✓	✓	*	*	*

✓ Available

-- Not available





* Start of delivery scheduled for 3rd quarter 2015

Type	Handle length mm	Shaft size mm x mm	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Door-coupling rotary operating mechanisms, complete, 8UD series									
Door-coupling rotary operating mechanism, complete, labeling 0 - I									
<ul style="list-style-type: none"> • Handle with masking plate • Coupling driver without tolerance compensation • Shaft 300 mm • Labeling 0 - I 									
	Gray for size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AD11		1	1 unit	153	0,190
	Red/yellow for size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AD15		1	1 unit	153	0,190
Door-coupling rotary operating mechanism, complete, labeling Test - 0 - I									
<ul style="list-style-type: none"> • Handle with masking plate • Mounting tolerance compensation • Shaft 300 mm • Labeling Test - 0 - I 									
	Gray for size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AF21		1	1 unit	153	0,190
	Red/yellow for size 1/2; 3KD....-M/N	45	8 x 8	8UD1171-2AF25		1	1 unit	153	0,190

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Type	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg
Handles for door-coupling rotary operating mechanisms, 8UD series									
Handles without extension shaft and coupling driver, labeling 0 - I									
<ul style="list-style-type: none"> • With masking plate • Labeling 0 - I 									
Gray									
	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AD01		1	1 unit	153	0,130
Red/yellow									
	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AD05		1	1 unit	153	0,130
Handles without extension shaft and coupling driver, labeling Test - 0 - I									
<ul style="list-style-type: none"> • With masking plate • Labeling Test - 0 - I 									
Gray									
	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AF01		1	1 unit	153	0,130
Red/yellow									
	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AF05		1	1 unit	153	0,130

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts



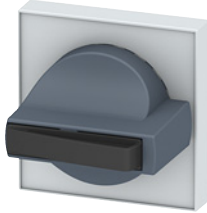

Type	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg
Other accessories for door-coupling rotary operating mechanisms, 8UD series									
Extension shafts									
	300 mm long			8UC6032		1	1 unit	103	0,135
	for size 1/2, 3KD.....M/N								
8UC6032									
	600 mm long			8UC6082		1	1 unit	103	0,265
	for size 1/2, 3KD.....M/N								
8UC6082									
Coupling driver with tolerance compensation									
	for size 1/2, 3KD.....M/N			8UD1900-2GA00		1	1 unit	153	0,061
8UD1900-2GA00									
Coupling driver without tolerance compensation									
	for size 1/2, 3KD.....M/N			8UD1900-2HA00		1	1 unit	153	0,015
8UD1900-2HA00									
Shaft couplings									
	for size 1/2, 3KD.....M/N			8UC6022		1	1 unit	103	0,022
8UC6022									

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

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Type	Shaft size handle end ¹⁾	Shaft size switch end ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Door-coupling rotary operating mechanisms, 8UC/3KD9 series									
Door-coupling rotary operating mechanisms including 300 mm extension shaft and coupling driver									
Lockable with up to 5 padlocks. Degree of protection when installed is IP65.									
Gray									
	for size 1; 3KD....-M	8 x 8	8 x 8	3KD9115-1		1	1 unit	143	0,355
	for size 2; 3KD....-N	8 x 8	8 x 8	3KD9215-1		1	1 unit	143	0,378
	for size 3; 3KD....-P	10 x 10	8 x 8	3KD9315-1		1	1 unit	143	0,997
	for size 4; 3KD....-Q	10 x 10	10 x 10	3KD9415-1		1	1 unit	143	0,964
	for size 5; 3KD....-R	12 x 12	12 x 12	3KD9515-1		1	1 unit	143	1,138
Red/yellow									
	for size 1; 3KD....-M	8 x 8	8 x 8	3KD9115-2		1	1 unit	143	0,434
	for size 2; 3KD....-N	8 x 8	8 x 8	3KD9215-2		1	1 unit	143	0,380
	for size 3; 3KD....-P	10 x 10	8 x 8	3KD9315-2		1	1 unit	143	1,001
	for size 4; 3KD....-Q	10 x 10	10 x 10	3KD9415-2		1	1 unit	143	0,999
	for size 5; 3KD....-R	12 x 12	12 x 12	3KD9515-2		1	1 unit	143	1,138
Handles for door-coupling rotary operating mechanisms, 8UC/3KD9 series									
Handles without extension shaft and coupling driver									
Gray									
	for size 1; 3KD....-M	8 x 8	--	3KD9115-3		1	1 unit	143	0,183
	for size 2; 3KD....-N	8 x 8	--	3KD9215-3		1	1 unit	143	0,191
	for size 3; 3KD....-P	10 x 10	--	3KD9315-3		1	1 unit	143	0,473
	for size 4; 3KD....-Q	10 x 10	--	3KD9415-3		1	1 unit	143	0,881
	for size 5; 3KD....-R	12 x 12	--	3KD9515-3		1	1 unit	143	0,529
Red/yellow									
	for size 1; 3KD....-M	8 x 8	--	3KD9115-4		1	1 unit	143	0,182
	for size 2; 3KD....-N	8 x 8	--	3KD9215-4		1	1 unit	143	0,191
	for size 3; 3KD....-P	10 x 10	--	3KD9315-4		1	1 unit	143	0,495
	for size 4; 3KD....-Q	10 x 10	--	3KD9415-4		1	1 unit	143	0,485
	for size 5; 3KD....-R	12 x 12	--	3KD9515-4		1	1 unit	143	0,522



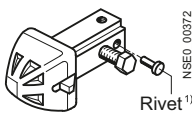
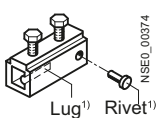
¹⁾ With different shaft sizes at the handle/at the switch, the shaft cross-section changes over the length of the shaft (does not apply to sizes 1 and 2)

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

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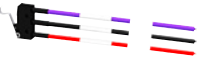


Type	Shaft size handle end ¹⁾	Shaft size switch end ¹⁾	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm x mm	mm x mm							kg
Other accessories for door-coupling rotary operating mechanisms, 8UC/3KD9 series									
Extension shafts									
300 mm long									
	for size 1/2	8 x 8	8 x 8	8UC6032		1	1 unit	103	0,135
	for size 3; 3KD....-P	10 x 10	8 x 8	3KD9302-0		1	1 unit	143	0,202
	for size 4; 3KD....-Q	10 x 10	10 x 10	8UC6033		1	1 unit	103	0,215
	for size 5; 3KD....-R	12 x 12	12 x 12	8UC6034		1	1 unit	103	0,316
600 mm long									
	for size 1/2	8 x 8	8 x 8	8UC6082		1	1 unit	103	0,265
	for size 3; 3KD....-P	10 x 10	8 x 8	3KD9302-1		1	1 unit	143	0,420
	for size 4; 3KD....-Q	10 x 10	10 x 10	8UC6083		1	1 unit	103	0,424
	for size 5; 3KD....-R	12 x 12	12 x 12	8UC6084		1	1 unit	103	0,628
Coupling drivers									
	for 8 x 8 mm shafts			8UC6017-2AA		1	1 unit	103	0,051
	for 10 x 10 mm shafts			8UC6013		1	1 unit	103	0,236
	for 12 x 12 mm shafts			8UC6014		1	1 unit	103	0,234
Shaft couplings									
	for 8 x 8 mm shafts			8UC6022		1	1 unit	103	0,022
	for 10 x 10 mm shafts			8UC6023		1	1 unit	103	0,084
	for 12 x 12 mm shafts			8UC6024		1	1 unit	103	0,078
Shaft coupling									
¹⁾ With different shaft sizes at the handle/at the switch, the shaft cross-section changes over the length of the shaft (does not apply to sizes 1 and 2)									

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Auxiliary switches

Type	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
Auxiliary switch modules for sizes 1 and 2¹⁾								
 <p>Auxiliary switch module, standard version</p>		Standard version		3KD9103-5	1	1 unit	143	0,154
		Version with test function		3KD9103-6	1	1 unit	143	0,158
		Version with leading NO contact + test function		3KD9103-7	1	1 unit	143	0,160
Auxiliary switches for sizes 1 and 2²⁾								
 <p>Auxiliary switch 1 CO contact, solid-state compatible</p>		1 CO		3KD9103-1	1	1 unit	143	0,112
		1 CO contact, solid-state compatible		3KD9103-3	1	1 unit	143	0,110
For sizes 3 to 5³⁾								
 <p>3SB3400-0B auxiliary switch</p>  <p>3SB3400-0A auxiliary switch</p>		1 NO	▶	3SB3400-0B	1	1 unit	41J	0,011
		1 NO with gold-plated contacts		3SB3400-0BA	1	1 unit	41J	0,011
		1 NC	▶	3SB3400-0C	1	1 unit	41J	0,010
		1 NC with gold-plated contacts		3SB3400-0CA	1	1 unit	41J	0,011
		1 NO + 1 NC	▶	3SB3400-0A	1	1 unit	41J	0,016
		1 NO + 1 NC with gold-plated contacts		3SB3400-0AA	1	1 unit	41J	0,016
		2 NO		3SB3400-0D	1	1 unit	41J	0,017
		2 NO with gold-plated contacts		3SB3400-0DA	1	1 unit	41J	0,017
		2 NC		3SB3400-0E	1	1 unit	41J	0,017
		2 NC with gold-plated contacts		3SB3400-0EA	1	1 unit	41J	0,017

1) Unit is supplied without auxiliary switches, a maximum of 2 auxiliary switches can be installed

2) Unit is shipped with soldered-on 50 cm connecting cables






3) Auxiliary switches with screw-type terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal 3SB3403-... from the 3SB3 program can also be used

3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Other accessories

Type	For size	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Phase barriers								
For 3KD with flat terminal								
For 3-pole devices (6 units)								
	2; 3KD....-N		3KD9108-6		1	1 unit	143	0,132
	3; 3KD....-P		3KD9308-6		1	1 unit	143	0,169
	4; 3KD....-Q		3KD9408-6		1	1 unit	143	0,203
	5; 3KD....-R		3KD9508-6		1	1 unit	143	0,480
	For 4-pole devices (8 units)							
	2; 3KD....-N		3KD9108-8		1	1 unit	143	0,142
	3; 3KD....-P		3KD9308-8		1	1 unit	143	0,194
	4; 3KD....-Q		3KD9408-8		1	1 unit	143	0,244
	5; 3KD....-R		3KD9508-8		1	1 unit	143	0,540
Cable connection covers								
For 3KD with flat terminal								
For 3-pole devices (6 units)								
Standard length								
	2; 3KD....-N		3KD9204-6		1	1 unit	143	0,387
	3; 3KD....-P		3KD9304-6		1	1 unit	143	0,560
	4; 3KD....-Q		3KD9404-6		1	1 unit	143	0,090
	5; 3KD....-R		3KD9504-6		1	1 unit	143	1,746
Short version								
	2; 3KD....-N		3KD9204-7		1	1 unit	143	0,347
	3; 3KD....-P		3KD9304-7		1	1 unit	143	0,404
	4; 3KD....-Q		3KD9404-7		1	1 unit	143	0,600
For 4-pole devices (8 units)								
Standard length								
	2; 3KD....-N		3KD9204-8		1	1 unit	143	0,473
	3; 3KD....-P		3KD9304-8		1	1 unit	143	0,597
	4; 3KD....-Q		3KD9404-8		1	1 unit	143	1,664
	5; 3KD....-R		3KD9504-8		1	1 unit	143	2,088
Short version								
	2; 3KD....-N		3KD9204-5		1	1 unit	143	0,378
	3; 3KD....-P		3KD9304-5		1	1 unit	143	0,502
	4; 3KD....-Q		3KD9404-5		1	1 unit	143	0,846

3KD Switch Disconnectors

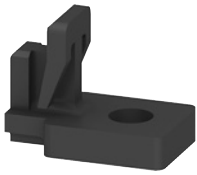
3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Type	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Spare cable connection cover (1 unit)								
Standard length	5; 3KD....-R		3KD9504-1		1	1 unit	143	0,434
Short version	2; 3KD....-N		3KD9204-1		1	1 unit	143	0,105
	3; 3KD....-P		3KD9304-1		1	1 unit	143	0,110
	4; 3KD....-Q		3KD9404-1		1	1 unit	143	0,126

Mounting bracket (4 units)

Spare part, is included in the scope of supply of the 3KD.



Mounting bracket	1 and 2		3KD9120-1		1	1 unit	143	0,091
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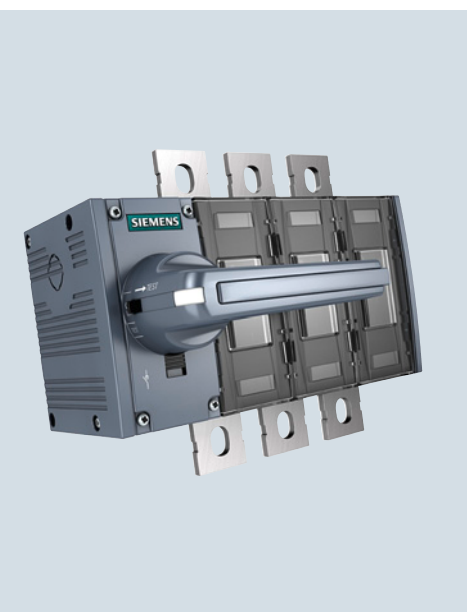
3KD Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Notes

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Appendix



3/2	Catalog notes
3/3	Ordering notes
3/5	Further documentation
3/9	Quality management
3/10	Standards and approvals
3/12	Siemens contacts
3/13	Service & Support
3/14	Comprehensive support from A to Z
3/15	Article No. index incl. export markings
3/22	Conditions of sale and delivery

Appendix

Catalog notes

Overview

Trademarks

All product designations may be registered trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes may violate the rights of the owner.

Amendments

Unless stated otherwise on the individual pages of this catalog, we reserve the right to make changes, in particular to the specified values, measurements and weights.

Dimensions

All dimensions are in mm.

Illustrations

The illustrations are not binding.

Technical data

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

Further technical information is available at www.siemens.com/lowvoltage/product-support

- under "Entry type":
 - Application example
 - Certificate
 - Characteristic
 - Download
 - FAQ
 - Manual
 - Product note
 - Software archive
 - Technical data




Configurators can be found under www.siemens.com/lowvoltage/configurators

Assembly, operation and maintenance

Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

Symbols

In the table below, you will find all symbols concerning connections that can occur in this catalog. In combination with orange highlighting, these identify special selection criteria.

Connections	
	Screw connection
	Ring cable lug connection
	Spring-loaded terminals

Logistics

General

With regard to delivery service, communications and environmental protection, our logistics service ensures "quality from the moment of ordering right through to delivery". By designing our infrastructure according to customer requirements and implementing electronic order processing, we have successfully optimized our logistics processes.

We are proud of our personal consulting service, on-time deliveries and 1-day transport within Germany.

To this end, we supply preferred types marked with ► ex works.

We regard the DIN ISO 9001 certification and consistent quality checks as an integral part of our services.

Electronic order processing is fast, cost-efficient and error-free. Please contact us if you want to benefit from these advantages.

Packaging, packing units

The packaging in which our equipment is dispatched provides protection against dust and mechanical damage during transport, thus ensuring that all our products arrive in perfect condition.

We select our packaging for maximum environmental compatibility and reusability (e.g. crumpled paper for protection during transport in packages up to 32 kg) and, in particular, with a view to reducing waste.

With our multi-unit and reusable packaging, we offer you specific types of packaging that are both kind to the environment and tailored to your requirements:

Your advantages at a glance:

- Lower ordering costs.
- Cost savings through same-material type packaging: Low/no disposal costs.
- Reduced time and cost thanks to short unpacking times.
- "Just-in-time" delivery directly to the production line helps reduce stock: Cost savings through reduction of storage areas.
- Fast assembly thanks to supply in sets.
- Standard Euro boxes - corresponding to the Euro pallet modular system - suitable for most conveyor systems.
- Active contribution to environmental protection.

Unless stated otherwise in the "Selection and ordering data" of this catalog, our products are supplied individually packed.

For small parts/accessories, we offer you cost-effective packaging units as standard packs containing more than one item, e.g. 5, 10, 50 or 100 units. It is essential that whole number multiples of these quantities be ordered to ensure satisfactory quality of the products and problem-free order processing.

The products are delivered in a neutral carton. The label includes warning notices, the CE marking, and device descriptions in English and German.

In addition to the Article No. (MLFB) and the number of items in the packaging, the order number for operating instructions (Instr.-Order-No.) is also specified.

They can be obtained from your local Siemens representative (you will find a list at www.siemens.com/automation/partner).

Most device Article No.'s can be obtained by means of the EAN barcode to simplify ordering and storage logistics.

The associated master data, too, is available from your local Siemens representative.

Appendix

Ordering notes

Overview

Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

Ordering very small quantities

When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge an € 20 supplement to cover our order processing and invoicing costs.

Explanations of Selection and Ordering Data

Delivery time class (DT)

DT	Meaning	
▶	Preferred type	Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.
A	Two working days	If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order.
B	One week	In exceptional cases, delivery times may vary from those specified.
C	Three weeks	The delivery times are valid ex works from Siemens AG (products ready for dispatch).
D	Six weeks	Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.
X	On request	The specified delivery times are correct at the time of going to print and are subject to constant optimization. Up-to-date information can be found at www.siemens.com/industrymall .

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price and weight apply.

PS/P. unit (packaging size/packaging unit)

The packaging size/packaging unit defines the number, e.g. of units, sets or meters, contained within outer packaging:

- The **first digit** in the PS/P. unit column (packaging size/packaging unit) indicates the minimum order quantity. You can only order this specified quantity or a multiple thereof.
- The **second digit** in the PS/P. unit column (packaging size/packaging unit) specifies the number of units contained within the outer packaging (e.g. in a carton). You must order this quantity or a multiple thereof if you want the items to be delivered in discrete packaging quantities.

Examples:

PS/P. unit	Meaning
1 unit	You can order one item or a multiple thereof.
5 units	Five units are packed in a bag, for example. Because the bags cannot be opened, you can only order a multiple of the quantity contained in the bag: 5, 10, 15, 20 etc.
5/100 units	One carton contains (for example) 20 bags, each containing 5 units, i.e. a total of 100 units. If only cartons are available for delivery, you need to order a multiple of the carton quantity: 100, 200, 300, etc. Ordering a quantity of 220 units would result in the following delivery: two cartons, each containing 100 units (= 200 units) and 4 bags, each containing 5 units (= 20 units).
1 set	A set comprises a defined number of different parts.

Price group (PG)

Each product is allocated to a price group.

Weight

The defined weight is the net weight in kg and refers to the price unit (PU).

Examples

DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS/P. unit	PG	Weight per PU approx. kg	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS/P. unit	PG
▶	3NW7013		1	1/12 units	017	0.076		8HP2021		1	1 unit	046

DT: Preferred type

PU: One unit (on which price is based)

PS/P. unit: 1 = minimum order quantity / 12 = quantity per carton

PG: 017

Weight per PU: 76 g, always given in kg

PU: One unit (on which price is based)

PS/P. unit: 1 = minimum order quantity

PG: 046

Note:

The article numbers shown here are examples only. They are not necessarily included in this catalog, nor is it essential that their specifications regarding selection and ordering data be up to date. When ordering, always use the selection and ordering data.

Low-voltage power distribution and electrical installation technology on the WWW



We regard product support to be just as important as the products and systems themselves.

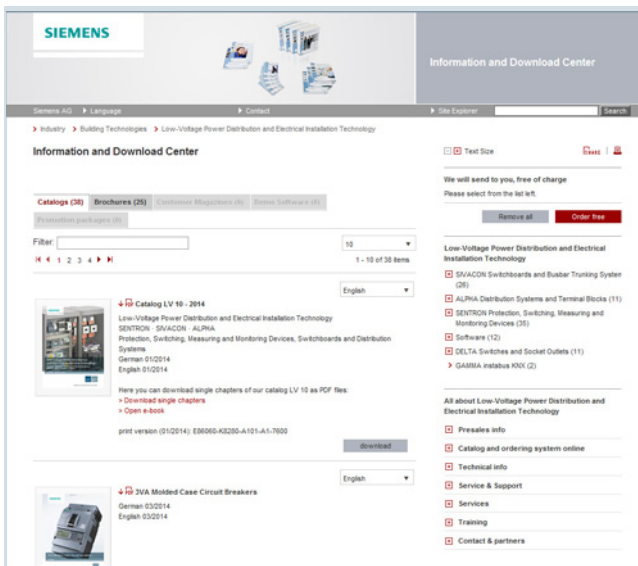
Visit our website for a comprehensive offering of support for low-voltage power distribution and electrical installation products, such as:

- Overview of the entire product portfolio
- Keeping up to date via newsletters, podcasts, blogs and Twitter
- Access to interesting videos on YouTube
- Contact with partners around the world
- Operating instructions and manuals for direct download

and much more - all conveniently and easily accessible at

<http://www.siemens.com/lowvoltage>

Information and Download Center



You will find regularly updated information material such as catalogs, customer magazines, brochures and trial versions of software for low-voltage power distribution and electrical installations on the Internet at

www.siemens.com/lowvoltage/infomaterial

Here you can order your copy of the available documentation or download it in common file formats (PDF, ZIP).

Appendix

Further documentation

Product selection using the interactive catalog CA 01



Detailed information together with user-friendly interactive functions:

The interactive catalog CA 01 with more than 80,000 products provides a comprehensive overview of the product range from Siemens Industry.

You can find everything you need here for solving automation, switching, installation and drive technology tasks. All information is provided over a user interface that is both user-friendly and intuitive.

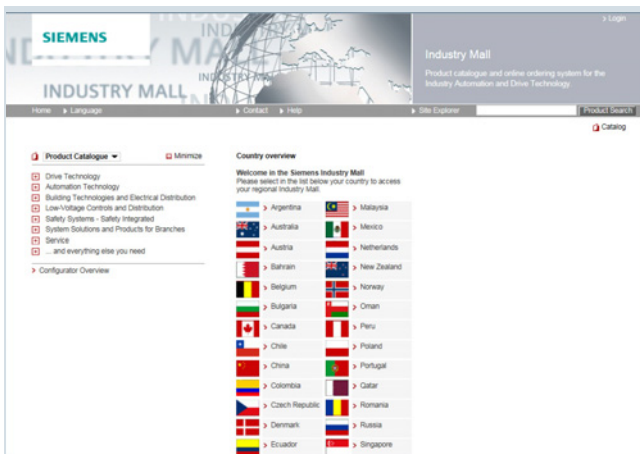
After selecting the product of your choice you can order at the press of a button, by fax or by online link.

Information about the interactive catalog CA 01 can be found on the Internet at:

www.siemens.com/automation/ca01

or on DVD.

Industry Mall



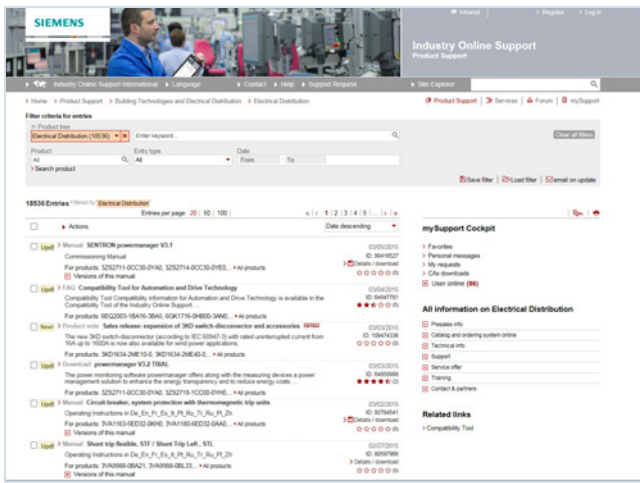
The Industry Mall – for online information, product selection and ordering:

- Detailed information including product data, illustrations, certificates and CAx data
- Simple configuring of systems
- Possible to request individualized quotations
- Availability check
- Online ordering facility
- Order tracking/order overview
- Fast access to relevant training offers and services

You can find the Industry Mall on the Internet at

www.siemens.com/industrymall

Industry Online Support



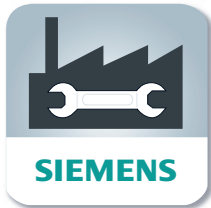
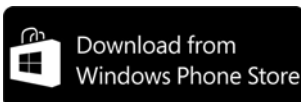
Comprehensive support – at any time, whatever your location

- FAQs, sample applications, information about successor products and product news
- Prompt assistance with technical queries
- Discussions and best practice sharing with other users in the forum
- Provision of high-quality product data for your planning programs
- Faster access to information – with helpful filter and folder functions in mySupport
- Automatic notification service to keep you up to date with the latest information about topics of interest to you

To find the link to Siemens Industry Online Support, go to

www.siemens.com/lowvoltage/product-support

Industry Online Support App

**Android:****Apple iOS:****Windows:****Main functions at a glance**

- Scanning of product codes (EAN/QR and data matrix codes) with direct display of all technical information on the product, including graphic data (CAx data).
- Delivery of product information or entries by e-mail, so that the information can immediately be processed at the workplace.
- Submission of queries to Technical Support (Support Requests). With photo function for transmitting detailed information.
- Contents and interfaces available in six languages (German, English, French, Italian, Spanish and Chinese) – including option of temporary switchover to English.
- Offline cache function for all favorites stored in "mySupport". These entries can also be retrieved without network reception.
- Import of PDF documents into a library (e.g. iBooks or similar).
- An overview of the main functions can be found at

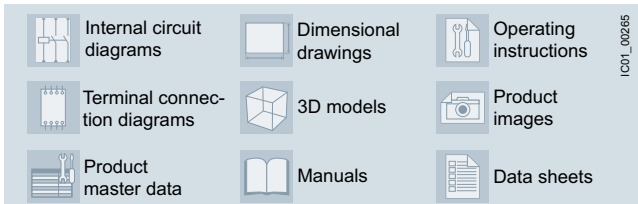
www.siemens.com/lowvoltage/support-app

Appendix

Further documentation

CAx Download Manager

The 12 CAx data types are listed below:



www.siemens.com/lowvoltage/cax

The CAx Download Manager can supply you with all the necessary CAx file types for the products of your choice for use in all common CAE and CAD systems. The data contained in the files is continuously updated. The whole process involves only four selection steps and is free of charge. All your selected files are packed into a zip file which you can download for further use.

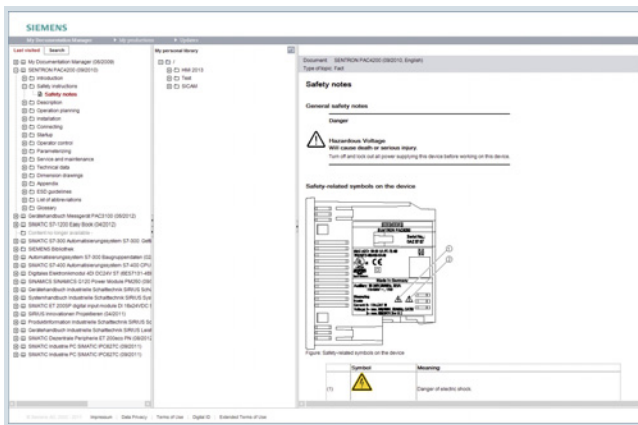
This service will cut the time it takes you to integrate product data into your CAE and CAD system by up to 80 %.

Siemens makes available up to 12 file types to support your mechanical (CAD) and electrical (CAE) planning processes for you to download at any time of the day.

Time savings of up to 80 % with universal product data for your CAE and CAD systems

- No manual data collection necessary
- Universal manufacturer data for all common CAE and CAD systems
- Standardized documentation is simple to generate
- Choice of different languages for system commissioning anywhere in the world

My Documentation Manager



In "mySupport" you can compile individual documentation for your project by dragging and dropping

* e.g. Low Voltage Directive 2006/95/EC and EC Machinery Directive 2006/42/EC

In accordance with directives*, the documentation is part of the plant and requires certification, thus giving the purchaser the right to full plant documentation.

To support you in this, a manual configurator has been developed with which you can put together individual and standard-compliant documentation – fully in accordance with the relevant project-specific requirements.

You can thus select the chapters relevant to the respective project from the available manuals of the installed Siemens components. FAQs, certificates, data sheets and your own content can also be incorporated. This means that the documentation is perfectly tailored to your individual needs, making information easier to locate.

User-friendly compilation of project-specific documentation

- Compile and structure manuals, data sheets, FAQs and certificates simply by dragging and dropping
- Insert personalized content via the Notes function
- Further processing possible thanks to selectable export formats (pdf, xml, rtf)
- After generating the documentation, automatic translation into the desired language is possible
- Always up-to-the minute thanks to the Update function

You can find "My Documentation Manager" on the Internet at

www.siemens.com/lowvoltage/mdm

Overview

The quality management system of our EM LP Business Unit complies with the international standard EN ISO 9001.

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

Appendix

Standards and approvals

Overview

Certificates

An overview, updated on a daily basis, of our products certified in accordance with CE, UL, CSA, FM, shipping authorizations etc. for low-voltage power distribution and electrical installation products can be found on the Internet at

www.siemens.com/lowvoltage/certificates

The screenshot shows the Siemens Industry Online Support website. The main navigation bar includes 'Intranet', 'Register', and 'Log in'. The page title is 'Industry Online Support Product Support'. The breadcrumb trail is 'Home > Product Support > Building Technologies and Electrical Distribution > Electrical Distribution'. The filter criteria for entries are set to 'Electrical Distribution (2251)' and 'Certificate (2251)'. The list of entries includes:

- Shipping Approval, LR (Lloyds Register), LR (Lloyds Register)**: LRS Certificate 15/20005, ID: 109474297, Date: 02/25/2015. For products: 3VA11. All products.
- Declaration of Conformity, EC/EU-Declaration of Conformity, Manufacturer**: EU-Declaration of Conformity 80943A / O2 EIE, ID: 109474291, Date: 02/25/2015. For products: 5TT490. All products.
- Declaration of Conformity, EC/EU-Declaration of Conformity, Manufacturer**: EU-Declaration of Conformity 80860B / O2 EIE, ID: 109474290, Date: 02/25/2015. For products: 5TE82... All products.

The 'mySupport Cockpit' sidebar on the right shows: Favorites, Personal messages, My requests, CAX downloads (0), and User online (59). Below this, 'All information on Electrical Distribution' includes: Presales info, Catalog and ordering system online, Technical info, and Support.

In the **Entry list** you can **filter the view** in order to quickly find comprehensive information on the following subjects:

- Product or search term
- Date
- Type of certificate (general product approval, test certificates, shipping approval, ...)
- Certificate (confirmations, UL, VDE, ...)
- Approval office (TÜV, VDE, UL, ...)
- Country

The screenshot shows the same website as above, but with the 'Approval office' dropdown menu open. The dropdown lists the following approval offices and their counts:

- ABS (American Bureau of Shipping) (5)
- BV (Bureau Veritas) (8)
- CB-Members (10)
- CEBEC (14)
- CQC (150)
- CSA (46)
- DNV (Det Norske Veritas) (14)
- EZU (1)
- GL (Germanischer Lloyd) (27)
- IMQ (51)
- KEMA (46)
- LR (Lloyds Register) (16)
- OVE (15)
- Profibus Nutzerorganisation e.V. (PNO) (17)
- PRS (Polski Rejestr Statków) (10)
- RINA (Registro Italiano Navale) (4)
- RMRS (Russian Maritime Register) (7)
- ROSTEST (9)
- SILVA (2)
- TÜV (technischer Überwachungsverein) (1)
- UL (116)
- VDE (285)
- other (87)
- TSE (3)
- KETI (2)
- KTL (59)
- EIBKXK (8)
- IVANVO-CERTIFICATE (2)

Approval requirements valid in different countries

Siemens low-voltage switchgear and controlgear are designed, manufactured and tested according to the relevant German standards (DIN and VDE), IEC publications and European standards (EN).

As far as is economically viable, in addition to the pertinent VDE, EN and IEC standards, the requirements of the various regulations valid in other countries are also taken into account in the design of the devices to enable global use as far as possible in the normal version.

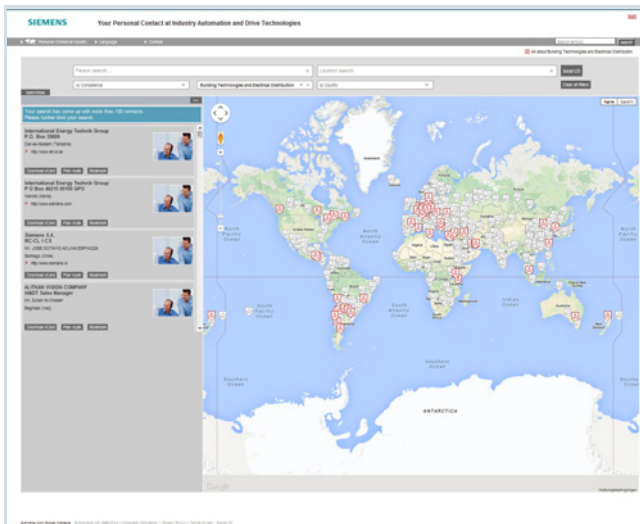
The currently available approvals, test certificates and certificates can be viewed in Siemens Industry Online Support via the following link

www.siemens.com/lowvoltage/certificates

Appendix

Siemens contacts

Contact partners at Siemens Low-Voltage Power Distribution and Electrical Installation Technology



At Siemens Low-Voltage Power Distribution and Electrical Installation Technology, more than 85 000 people are resolutely pursuing the same goal:

Long-term improvement of your competitive ability.

We are committed to this goal. Thanks to our dedication, we are continually setting new standards. In all industries – worldwide.

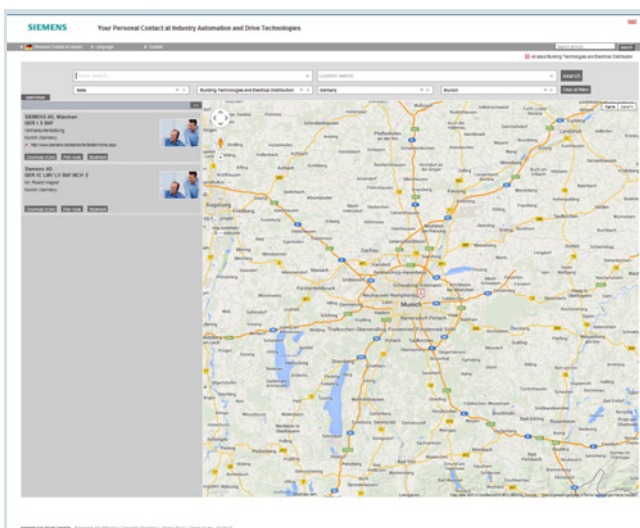
At your service, locally, around the globe: Partners for consulting, sales, training, service, support, spare parts ... on the entire Siemens range of Low-Voltage Power Distribution and Electrical Installation Technology.

Your personal contact can be found in our Contact Database at

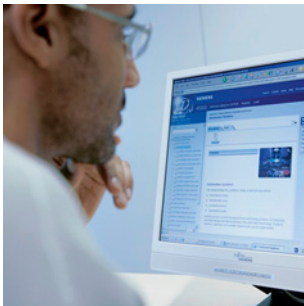
www.siemens.com/lowvoltage/contact

You start by selecting a

- competence,
- product or branch,
- country,
- city.



Online Support



Our comprehensive online information platform covers every aspect of our Service & Support and is available whenever, wherever.

More detailed information is available at www.siemens.com/lowvoltage/product-support

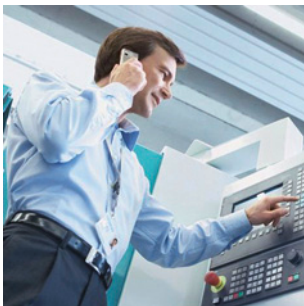
Field Service



Siemens Field Service offers support with all aspects of maintenance – so that the availability of your machines and plants is assured whatever the case.

More detailed information is available at www.siemens.com/lowvoltage/contact

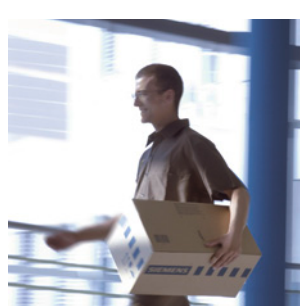
Technical Support



The competent consulting service for technical issues with a broad range of customer-oriented services for all our products and systems.

More detailed information is available at www.siemens.com/lowvoltage/contact

Spare Parts



Plants and systems in all industries worldwide are expected to meet ever higher levels of availability.

We can help you rule out unexpected stoppages: with a global network and optimum logistics chains.

More detailed information is available at www.siemens.com/lowvoltage/contact

Training



Extend your lead – with practice-related know-how straight from the manufacturer.

More detailed information is available at www.siemens.com/lowvoltage/training

Specification texts

You can obtain qualified, free support to help you produce specifications for technically equipping non-residential and industrial buildings at

www.siemens.com/specifications

Appendix

Comprehensive support from A to Z

Overview

Product information

Website	Fast and targeted information on low-voltage power distribution: http://www.siemens.com/lowvoltage
Newsletter	Always up to date about our trend-setting products and systems: www.siemens.com/lowvoltage/newsletter

Product information/product & system selection

Information and Download Center	Current catalogs, customer magazines, brochures, demo software and promotion packages: www.siemens.com/lowvoltage/infomaterial
Industry Mall	Comprehensive information and order platform for the Siemens Industry Basket: www.siemens.com/lowvoltage/mall
CA 01	The interactive catalog on DVD for automation and drive technology and low-voltage power distribution and electrical installation products

Product and system engineering

SIMARIS software tools	Support in planning and configuring the electrical power distribution: www.siemens.com/simaris
SIMARIS ConFIGuration Basic planning and configuration tool	Assists in generating offers and configuring products ranging from ALPHA distribution boards to the SIKUS 1600 power distribution boards www.siemens.com/scfb

Product documentation

Siemens Industry Online Support	Comprehensive technical information - from planning to configuration and operation: www.siemens.com/lowvoltage/product-support
Product configurator	Complete selection of products and systems based on technical characteristics or application requirements: www.siemens.com/lowvoltage/configurators
CAX Download Manager	Collation of CAX data types for standard CAE and CAD systems: www.siemens.com/lowvoltage/cax
My Documentation Manager	Compilation of project-specific documentation: www.siemens.com/lowvoltage/mdm
Image database	Collection of product photographs and graphics, such as dimensional drawings and internal circuit diagrams: www.siemens.com/lowvoltage/picturedb

Product training

SITRAIN Portal	Comprehensive training program for our products, systems and engineering tools: www.siemens.com/lowvoltage/training
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Product hotline

Technical Support	Support in all technical queries about our products: E-mail: support.automation@siemens.com www.siemens.com/lowvoltage/technical-support
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Overview

Article No.	Page	Export markings	
		ECCN	AL
3KD1			
3KD1630-2ME10-0	2/5	N	N
3KD1630-2ME20-0	2/5	N	N
3KD1632-2ME10-0	2/3	N	N
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3KD3432-2NE10-0	2/3	N	N

Appendix

Article number index incl. export markings

Article No.	Page	Export markings	
		ECCN	AL
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3KD3440-2NE20-0	2/5	N	N
3KD3442-0NE10-0	2/3	N	N
3KD3442-2NE10-0	2/3	N	N
3KD3444-0NE10-0	2/7	N	N
3KD3444-0NE40-0	2/7	N	N
3KD3444-2NE10-0	2/7	N	N
3KD3444-2NE40-0	2/7	N	N
3KD3460-0NE20-0	2/4	N	N
3KD3460-2NE20-0	2/4	N	N
3KD3630-0NE10-0	2/5	N	N
3KD3630-0NE20-0	2/5	N	N
3KD3630-0PE10-0	2/5	N	N
3KD3630-0PE20-0	2/5	N	N
3KD3632-0NE10-0	2/3	N	N
3KD3632-0PE10-0	2/3	N	N
3KD3634-0NE10-0	2/6	N	N
3KD3634-0NE40-0	2/6	N	N
3KD3634-0PE10-0	2/6	N	N
3KD3634-0PE40-0	2/6	N	N
3KD3640-0NE10-0	2/5	N	N
3KD3640-0NE20-0	2/5	N	N
3KD3640-0PE10-0	2/5	N	N
3KD3640-0PE20-0	2/5	N	N
3KD3642-0NE10-0	2/3	N	N
3KD3642-0PE10-0	2/3	N	N
3KD3644-0NE10-0	2/7	N	N
3KD3644-0NE40-0	2/7	N	N
3KD3644-0PE10-0	2/7	N	N
3KD3644-0PE40-0	2/7	N	N
3KD3660-0PE20-0	2/4	N	N
3KD3830-0PE10-0	2/5	N	N
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3KD3834-0PE10-0	2/6	N	N
3KD3834-0PE40-0	2/6	N	N
3KD3840-0PE10-0	2/5	N	N
3KD3840-0PE20-0	2/5	N	N
3KD3842-0PE10-0	2/3	N	N
3KD3844-0PE10-0	2/7	N	N
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3KD3860-0PE20-0	2/4	N	N
3KD4			
3KD4030-0PE10-0	2/5	N	N
3KD4030-0PE20-0	2/5	N	N
3KD4032-0PE10-0	2/3	N	N
3KD4034-0PE10-0	2/6	N	N
3KD4034-0PE40-0	2/6	N	N
3KD4040-0PE10-0	2/5	N	N

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3KD4040-0PE20-0	2/5	N	N
3KD4042-0PE10-0	2/3	N	N
3KD4044-0PE10-0	2/7	N	N
3KD4044-0PE40-0	2/7	N	N
3KD4060-0PE20-0	2/4	N	N
3KD4230-0PE10-0	2/5	N	N
3KD4230-0PE20-0	2/5	N	N
3KD4232-0PE10-0	2/3	N	N
3KD4234-0PE10-0	2/6	N	N
3KD4234-0PE40-0	2/6	N	N
3KD4240-0PE10-0	2/5	N	N
3KD4240-0PE20-0	2/5	N	N
3KD4242-0PE10-0	2/3	N	N
3KD4244-0PE10-0	2/7	N	N
3KD4244-0PE40-0	2/7	N	N
3KD4260-0PE20-0	2/4	N	N
3KD4430-0QE10-0	2/5	N	N
3KD4430-0QE20-0	2/5	N	N
3KD4432-0QE10-0	2/3	N	N
3KD4434-0QE10-0	2/6	N	N
3KD4434-0QE40-0	2/6	N	N
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3KD4440-0QE20-0	2/5	N	N
3KD4442-0QE10-0	2/3	N	N
3KD4444-0QE10-0	2/7	N	N
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3KD4630-0QE20-0	2/5	N	N
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3KD4832-0QE10-0	2/3	N	N
3KD4834-0QE10-0	2/6	N	N
3KD4834-0QE40-0	2/6	N	N
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3KD4844-0QE40-0	2/7	N	N
3KD4860-0QE20-0	2/4	N	N

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		ECCN	AL
3KD5			
3KD5030-0RE10-0	2/5	N	N
3KD5030-0RE20-0	2/5	N	N
3KD5032-0RE10-0	2/3	N	N
3KD5034-0RE10-0	2/6	N	N
3KD5034-0RE40-0	2/6	N	N
3KD5040-0RE10-0	2/5	N	N
3KD5040-0RE20-0	2/5	N	N
3KD5042-0RE10-0	2/3	N	N
3KD5044-0RE10-0	2/7	N	N
3KD5044-0RE40-0	2/7	N	N
3KD5060-0RE20-0	2/4	N	N
3KD5230-0RE10-0	2/5	N	N
3KD5230-0RE20-0	2/5	N	N
3KD5232-0RE10-0	2/3	N	N
3KD5234-0RE10-0	2/6	N	N
3KD5234-0RE40-0	2/6	N	N
3KD5240-0RE10-0	2/5	N	N
3KD5240-0RE20-0	2/5	N	N
3KD5242-0RE10-0	2/3	N	N
3KD5244-0RE10-0	2/7	N	N
3KD5244-0RE40-0	2/7	N	N
3KD5260-0RE20-0	2/4	N	N
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3KD5430-0RE20-0	2/5	N	N
3KD5432-0RE10-0	2/3	N	N
3KD5434-0RE10-0	2/6	N	N
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3KD5440-0RE10-0	2/5	N	N
3KD5440-0RE20-0	2/5	N	N
3KD5442-0RE10-0	2/3	N	N
3KD5444-0RE10-0	2/7	N	N
3KD5444-0RE40-0	2/7	N	N
3KD5460-0RE20-0	2/4	N	N

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3KD9101-0	2/9	N	N
3KD9101-1	2/9	N	N
3KD9101-2	2/9	N	N
3KD9101-8	2/9	N	N
3KD9103-1	2/15	N	N
3KD9103-3	2/15	N	N
3KD9103-5	2/15	N	N
3KD9103-6	2/15	N	N
3KD9103-7	2/15	N	N
3KD9105-2	2/8	N	N
3KD9106-2	2/8	N	N
3KD9106-8	2/8	N	N
3KD9108-6	2/16	N	N
3KD9108-8	2/16	N	N
3KD9115-1	2/13	N	N
3KD9115-2	2/13	N	N
3KD9115-3	2/13	N	N
3KD9115-4	2/13	N	N
3KD9120-1	2/17	N	N
3KD9201-0	2/9	N	N
3KD9201-1	2/9	N	N
3KD9201-2	2/9	N	N
3KD9201-8	2/9	N	N
3KD9204-1	2/17	N	N
3KD9204-5	2/16	N	N
3KD9204-6	2/16	N	N
3KD9204-7	2/16	N	N
3KD9204-8	2/16	N	N
3KD9205-0	2/8	N	N
3KD9205-2	2/8	N	N
3KD9206-0	2/8	N	N
3KD9206-2	2/8	N	N
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3KD9306-0	2/8	N	N
3KD9306-7	2/8	N	N
3KD9308-6	2/16	N	N
3KD9308-8	2/16	N	N
3KD9315-1	2/13	N	N
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3KD9315-3	2/13	N	N
3KD9315-4	2/13	N	N
3KD9401-1	2/9	N	N
3KD9401-2	2/9	N	N
3KD9404-1	2/17	N	N
3KD9404-5	2/16	N	N
3KD9404-6	2/16	N	N
3KD9404-7	2/16	N	N
3KD9404-8	2/16	N	N
3KD9405-0	2/8	N	N
3KD9406-0	2/8	N	N
3KD9406-7	2/8	N	N
3KD9408-6	2/16	N	N
3KD9408-8	2/16	N	N
3KD9415-1	2/13	N	N
3KD9415-2	2/13	N	N
3KD9415-3	2/13	N	N
3KD9415-4	2/13	N	N
3KD9501-1	2/9	N	N
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3KD9506-0	2/8	N	N
3KD9506-7	2/8	N	N
3KD9508-6	2/16	N	N
3KD9508-8	2/16	N	N
3KD9515-1	2/13	N	N
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3KD9515-3	2/13	N	N
3KD9515-4	2/13	N	N

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		ECCN	AL
3SB3			
3SB3400-0A	2/15	N	N
3SB3400-0AA	2/15	N	N
3SB3400-0B	2/15	N	N
3SB3400-0BA	2/15	N	N
3SB3400-0C	2/15	N	N
3SB3400-0CA	2/15	N	N
3SB3400-0D	2/15	N	N
3SB3400-0DA	2/15	N	N
3SB3400-0E	2/15	N	N
3SB3400-0EA	2/15	N	N
8UC6			
8UC6013	2/14	N	N
8UC6014	2/14	N	N
8UC6017-2AA	2/14	N	N
8UC6022	2/12, 2/14	N	N
8UC6023	2/14	N	N
8UC6024	2/14	N	N
8UC6032	2/12, 2/14	N	N
8UC6033	2/14	N	N
8UC6034	2/14	N	N
8UC6082	2/12, 2/14	N	N
8UC6083	2/14	N	N
8UC6084	2/14	N	N
8UD1			
8UD1171-2AD11	2/10	N	N
8UD1171-2AD15	2/10	N	N
8UD1171-2AF21	2/10	N	N
8UD1171-2AF25	2/10	N	N
8UD1771-2AD01	2/11	N	N
8UD1771-2AD05	2/11	N	N
8UD1771-2AF01	2/11	N	N
8UD1771-2AF05	2/11	N	N
8UD1900-2GA00	2/12	EAR99	N
8UD1900-2HA00	2/12	EAR99	N

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Appendix

Notes

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Appendix

Conditions of sale and delivery

Overview

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to the following terms. Please note! The scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following terms apply exclusively for orders placed with Siemens AG.

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The "General Terms of Payment" as well as the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" shall apply.

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For software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office outside of Germany" shall apply.

General

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

Illustrations are not binding.

Insofar as there are no remarks on the corresponding pages, - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

The prices are in € (Euro) ex works, exclusive packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

Surcharges will be added to the prices of products that contain silver, copper, aluminum, lead and/or gold if the respective basic official prices for these metals are exceeded. These surcharges will be determined based on the official price and the metal factor of the respective product.

The surcharge will be calculated on the basis of the official price on the day prior to receipt of the order or prior to the release order.

The metal factor determines the official price as of which the metal surcharges are charged and the calculation method used. The metal factor, provided it is relevant, is included with the price information of the respective products.

You will find

- an exact explanation of the metal factor,
- the text of the Comprehensive Terms and Conditions of Sale and Delivery of Siemens AG

in the Internet under www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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Therefore, any export requiring a license is subject to approval by the competent authorities.

According to current provisions, the following export regulations must be observed with respect to the products featured in this catalog / price list:

AL	<p>Number of the <u>German Export List</u></p> <p>Products marked other than "N" require an export license. In the case of software products, the export designations of the relevant data medium must also be generally adhered to.</p> <p>Goods labeled with an "AL" not equal to "N" are subject to European or German export authorization when being exported out of the EU.</p>
ECCN	<p><u>Export Control Classification Number</u></p> <p>Products marked other than "N" are subject to a reexport license to specific countries.</p> <p>In the case of software products, the export designations of the relevant data medium must also be generally adhered to.</p> <p>Goods labeled with "ECCN" not equal to "N" are subject to US re-export authorization.</p>

Even without a label, or with label "AL:N" or "ECCN:N", authorization may be required due to the final end-use and destination for which the goods are to be used.

In addition, you can preview the export designations via our "Industry Mall" online catalog system in the respective product description. The deciding factors are the AL or ECCN export authorization indicated on order confirmations, delivery notes and invoices.

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System Solutions for Industry Interactive Catalog on DVD	<i>Catalog</i>		
Products for Automation and Drives, Low-Voltage Power Distribution and Electrical Installation Technology	CA 01		
Building Control			
GAMMA Building Control	ET G1		
Drive Systems			
SINAMICS G130 Drive Converter Chassis Units	D 11		
SINAMICS G150 Drive Converter Cabinet Units			
SINAMICS GM150, SINAMICS SM150 Medium-Voltage Converters	D 12		
SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives Germany Edition	D 15.1		
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1		
SINAMICS S120 Chassis Format Units and Cabinet Modules	D 21.3		
SINAMICS S150 Converter Cabinet Units			
SINAMICS DCM DC Converter, Control Module	D 23.1		
SINAMICS DCM Cabinet	D 23.2		
SINAMICS Inverters for Single-Axis Drives and SIMOTICS Motors	D 31		
SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters	D 35		
Three-Phase Induction Motors SIMOTICS HV, SIMOTICS TN	D 84.1		
• Series H-compact			
• Series H-compact PLUS			
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Synchronous Motors with Permanent-Magnet Technology, HT-direct	D 86.2		
DC Motors	DA 12		
SIMOREG DC MASTER 6RA70 Digital Chassis Converters	DA 21.1		
SIMOREG K 6RA22 Analog Chassis Converters	DA 21.2		
<i>Digital: SIMOREG DC MASTER 6RM70 Digital Converter Cabinet Units</i>	DA 22		
SIMOVERT PM Modular Converter Systems	DA 45		
SIEMOSYN Motors	DA 48		
MICROMASTER 420/430/440 Inverters	DA 51.2		
MICROMASTER 411/COMBIMASTER 411	DA 51.3		
SIMODRIVE 611 universal and POSMO	DA 65.4		
<i>Note: Additional catalogs on SIMODRIVE or SINAMICS drive systems and SIMOTICS motors with SINUMERIK and SIMOTION can be found under Motion Control</i>			
<u>Low-Voltage Three-Phase-Motors</u>			
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SIMOTICS FD Flexible Duty Motors	D 81.8		
LOHER Low-Voltage Motors	D 83.1		
MOTOX Geared Motors	D 87.1		
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<u>Mechanical Driving Machines</u>			
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FLENDER High Performance Couplings	MD 10.2		
FLENDER SIG Standard industrial gear units	MD 30.1		
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Field Instruments for Process Automation	FI 01		
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<i>Digital: Process Analytics, Components for the System Integration</i>	PA 11		
<i>Digital: These catalogs are only available as a PDF or E-Book.</i>			
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