

SIEMENS**Totally Integrated Power - SENTRON**

3KD Switch Disconnectors

Reliable safety for wind power and photovoltaic plants

Safe switching

Provide your wind power plant with the best protection: The three and four-pole 3KD switch disconnectors reliably meet the high requirements for isolating wind power plants. The compact six-pole 3KD switch disconnecter is ideal for use in photovoltaic plants: it ensures safe isolation of your plant in the DC voltage range up to 1 200 V DC. The 3KD switch disconnectors thus offer you reliable protection for personnel performing maintenance work.

Wide variety of applications

Thanks to various operating mechanism types, the 3KD switch disconnectors can be used flexibly: Front operating mechanisms as well as side operating mechanisms mounted on the left and right enable user-friendly operation of the switch disconnecter even without opening the control cabinet. Extensive accessories are available for additional functions.

Highlights

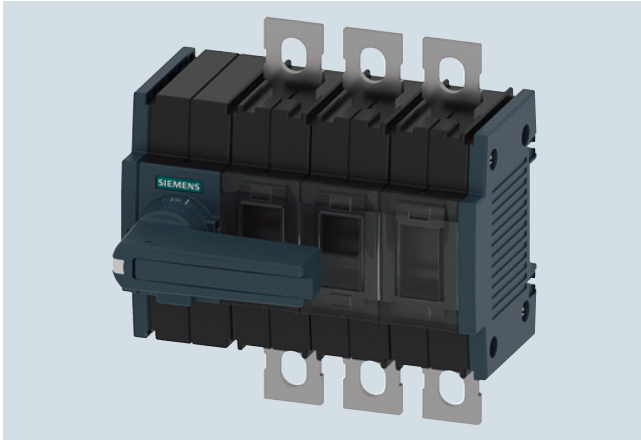
- Safe protection for wind power and photovoltaic plants
- High degree of flexibility thanks to side operating mechanisms mounted on the left and right
- User-friendly operation thanks to ergonomic design
- Broad portfolio of accessories for all requirements

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

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 %
- 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.

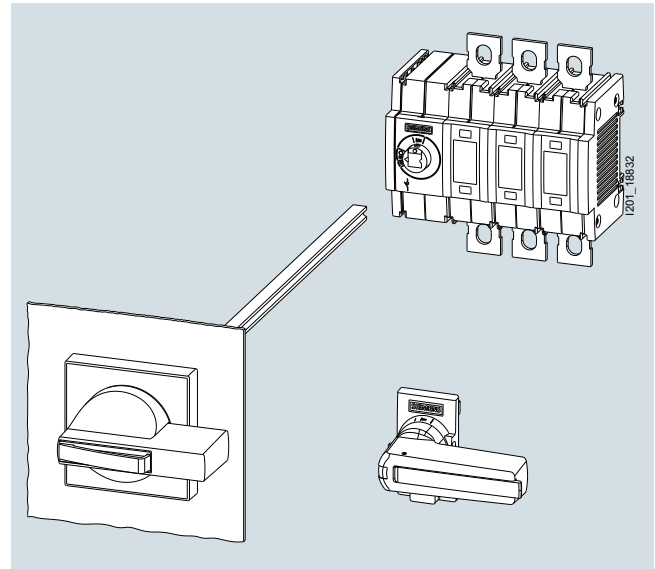
Design

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	---		---	---

More information

The products presented here represent only part of the complete range of products.

You can find the full portfolio in the complete catalog, [see Catalog LV 10, Chapter "Switch Disconnectors"](#).

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

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									
• At 50/60 Hz AC	V	690							
• At DC - 2 conducting paths series-connected	V	220							
• At DC - 3 conducting paths series-connected	V	440							
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									
• At AC-21A, AC-22A, 400 to 690 V	A	16	32	63	80	100	125	160	200
• 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	160	160
• At AC-23, 690 V	A	16	32	63	80	100	125	125	125
• 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⁾									
• At 400 V	kW	7.5	15	30	37	55	55	90	90
• At 500 V	kW	7.5	18.5	37	55	55	75	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⁾									
• At 400/500 V AC	kA	100	100	100	100	100	100	100	50
• At 690 V AC	kA	100	100	100	65	65	65	65	50
Let-through current combined with upstream fuse ³⁾									
• At 400/500 V AC	kA	7	7	7	17.9	17.9	17.9	17.9	18
• 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⁾									
• At 400/500 V	kA ² s	13.3	13.3	13.3	135.6	135.6	135.6	135.6	211
• 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 terminal	mm	--			1 x 20 x 3 ⁷⁾				
• Box terminal	mm	1 x 9 x 2			1 x 14 x 3				
Tightening torque									
• Flat terminal	Nm	--			15 ... 22				
• Box terminal	Nm	5...6.5			6.5...8				

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

2) 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.

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

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											
• At 50/60 Hz AC	V	690									
• At DC - 2 conducting paths series-connected	V	220									
• At DC - 3 conducting paths series-connected	V	440									
Rated insulation voltage U_i	V	1000									
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
Pollution degree		3	3	3	3	3	3	3	3	3	3
Operating and short-circuit behavior											
Rated operational current $I_e^{2) 3)}$											
• At AC-21A, AC-22A, 400 to 690 V	A	200	250	315	400	500	630	800	1000	1250	1600
• At AC-23, 400 V	A	200	250	315	400	500	630	670	800	800	800
• At AC-23, 500 V	A	200	250	315	350	500	630	630	800	800	800
• At AC-23, 690 V	A	200	250	315	315	500	500	500	800	800	800
• At DC-21A, 220/440 V	A	200	250	315	400	500	630	800	1000	1250	1600
• 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⁾											
• At 400 V	kW	110	132	160	220	280	355	355	400	400	400
• At 500 V	kW	132	160	220	250	355	400	400	560	560	560
• 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⁾											
• At 400/500 V AC	kA	100	100	65	65	100	100	100	100	80	80
• At 690 V AC	kA	65	65	35	35	65	65	50	--	--	--
Let-through current combined with upstream fuse ⁵⁾											
• At 400/500 V AC	kA	25.1	25.1	35.2	35.2	61.6	61.6	63.7	95.9	103.4	110
• 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⁾											
• At 400/500 V	kA²s	427	427	1165	1165	3687	3687	7471	15400	25960	30900
• At 690 V	kA²s	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											
• Mechanical		10000	10000	10000	10000	8000	8000	8000	6000	6000	6000
• Electrical, at AC-23A, 690 V/50...60 Hz		1000	1000	1000	1000	1000	1000	1000	500	500	500
• Electrical, at DC-23A, 220/440 V		1000	1000	1000	1000	1000	1000	500	500	500	500
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 +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 terminal	mm	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10		
• Box terminal	mm	1 x 30 x 10				2 x 40 x 5			2 x 60 x 10		
Tightening torque											
• Flat terminal	Nm	30 ... 44				50 ... 75			50 ... 75		
• Box terminal	Nm	--				--			--		

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) 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

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

Technical specifications (continued)

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

Standards		IEC 60947-1, IEC 60947-3						
Type		3KD16	3KD22	3KD26	3KD28	3KD30	3KD32	3KD34
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 terminal	mm	--			1 x 20 x 3 ⁵⁾			
• Box terminal	mm	1 x 9 x 2			1 x 14 x 3			
Tightening torque								
• Flat terminal	Nm	--			15 ... 22			
• Box terminal	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.

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

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 terminal	mm	1 x 30 x 10				2 x 40 x5			2 x 60 x 10		
• Box terminal	mm	--				--			--		
Tightening torque											
• Flat terminal	Nm	30 ... 44				50 ... 75			50 ... 75		
• Box terminal	Nm	--				--			--		

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

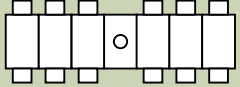
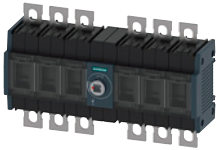

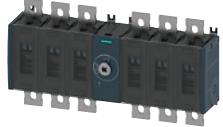
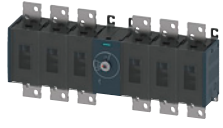

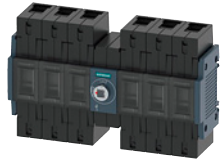
²⁾ For switch disconnectors size 3 and 4, phase barriers or contact connection covers (accessories) are required when connecting cable lugs

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units







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
A									
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									
 3KD2860-0NE20-0	80	2		3KD2860-0NE20-0		1	1 ST	143	1,300
	100	2		3KD3060-0NE20-0		1	1 ST	143	1,300
	125	2		3KD3260-0NE20-0		1	1 ST	143	1,300
	160	2		3KD3460-0NE20-0		1	1 ST	143	1,300
 3KD3660-0PE20-0	200	3		3KD3660-0PE20-0		1	1 ST	143	3,950
	250	3		3KD3860-0PE20-0		1	1 ST	143	3,950
	315	3		3KD4060-0PE20-0		1	1 ST	143	3,950
	400	3		3KD4260-0PE20-0		1	1 ST	143	3,950
 3KD4460-0QE20-0	500	4		3KD4460-0QE20-0		1	1 ST	143	10,800
	630	4		3KD4660-0QE20-0		1	1 ST	143	10,800
	800	4		3KD4860-0QE20-0		1	1 ST	143	10,800
 3KD5060-0RE20-0	1000	5		3KD5060-0RE20-0		1	1 ST	143	25,500
	1250	5		3KD5260-0RE20-0		1	1 ST	143	25,500
	1600	5		3KD5460-0RE20-0		1	1 ST	143	25,500
Box terminal									
 3KD1660-2ME20-0	16	1		3KD1660-2ME20-0		1	1 ST	143	1,200
	32	1		3KD2260-2ME20-0		1	1 ST	143	1,200
	63	1		3KD2660-2ME20-0		1	1 ST	143	1,200
 3KD2860-2NE20-0	80	2		3KD2860-2NE20-0		1	1 ST	143	1,850
	100	2		3KD3060-2NE20-0		1	1 ST	143	1,850
	125	2		3KD3260-2NE20-0		1	1 ST	143	1,850
	160	2		3KD3460-2NE20-0		1	1 ST	143	1,850

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

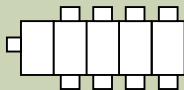
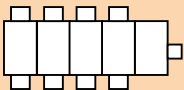
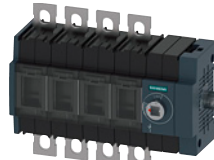
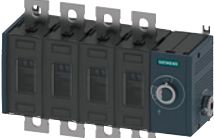
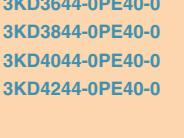

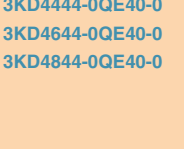
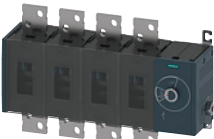
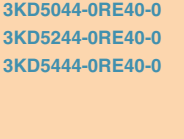


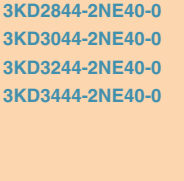
		Operating mechanism on left			Operating mechanism on right								
Rated un-interrupted current I_u A	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg		
Basic units without handle, side operating mechanisms													
The switch disconnectors with side operating mechanisms are suitable for door-coupling rotary operating mechanisms.													
3-pole													
Flat terminal													
	80	2	3KD2834-0NE10-0			3KD2834-0NE40-0		1	1 ST	143	0,800		
	100	2	3KD3034-0NE10-0			3KD3034-0NE40-0		1	1 ST	143	0,800		
	125	2	3KD3234-0NE10-0			3KD3234-0NE40-0		1	1 ST	143	0,800		
	160	2	3KD3434-0NE10-0			3KD3434-0NE40-0		1	1 ST	143	0,800		
	200	2	3KD3634-0NE10-0			3KD3634-0NE40-0		1	1 ST	143	0,800		
	200	3	3KD3634-0PE10-0			3KD3634-0PE40-0		1	1 ST	143	2,964		
	250	3	3KD3834-0PE10-0			3KD3834-0PE40-0		1	1 ST	143	2,968		
	315	3	3KD4034-0PE10-0			3KD4034-0PE40-0		1	1 ST	143	2,977		
	400	3	3KD4234-0PE10-0			3KD4234-0PE40-0		1	1 ST	143	2,958		
	500	4	3KD4434-0QE10-0			3KD4434-0QE40-0		1	1 ST	143	7,720		
	630	4	3KD4634-0QE10-0			3KD4634-0QE40-0		1	1 ST	143	7,620		
	800	4	3KD4834-0QE10-0			3KD4834-0QE40-0		1	1 ST	143	6,500		
	1000	5	3KD5034-0RE10-0			3KD5034-0RE40-0		1	1 ST	143	21,500		
	1250	5	3KD5234-0RE10-0			3KD5234-0RE40-0		1	1 ST	143	17,500		
	1600	5	3KD5434-0RE10-0			3KD5434-0RE40-0		1	1 ST	143	17,300		
Box terminal													
	16	1	3KD1634-2ME10-0			3KD1634-2ME40-0		1	1 ST	143	0,750		
	32	1	3KD2234-2ME10-0			3KD2234-2ME40-0		1	1 ST	143	0,750		
	63	1	3KD2634-2ME10-0			3KD2634-2ME40-0		1	1 ST	143	0,750		
	80	2	3KD2834-2NE10-0			3KD2834-2NE40-0		1	1 ST	143	1,100		
	100	2	3KD3034-2NE10-0			3KD3034-2NE40-0		1	1 ST	143	1,100		
	125	2	3KD3234-2NE10-0			3KD3234-2NE40-0		1	1 ST	143	1,100		
	160	2	3KD3434-2NE10-0			3KD3434-2NE40-0		1	1 ST	143	1,100		

* You can order this quantity or a multiple thereof.

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Basic units

		Operating mechanism on left			Operating mechanism on right			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Rated un- interrupt- ed current <i>I_u</i>	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	DT	Article No. www.siemens.com/ product?Article No.	Price per PU				
A											
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											
	80	2	3KD2844-0NE10-0			3KD2844-0NE40-0		1	1 ST	143	1,000
	100	2	3KD3044-0NE10-0			3KD3044-0NE40-0		1	1 ST	143	1,000
	125	2	3KD3244-0NE10-0			3KD3244-0NE40-0		1	1 ST	143	1,000
	160	2	3KD3444-0NE10-0			3KD3444-0NE40-0		1	1 ST	143	1,000
	200	2	3KD3644-0NE10-0			3KD3644-0NE40-0		1	1 ST	143	1,000
4-pole, flat terminal, size 2, operating mechanism right											
4-pole, flat terminal, size 3, operating mechanism right	200	3	3KD3644-0PE10-0			3KD3644-0PE40-0		1	1 ST	143	3,616
	250	3	3KD3844-0PE10-0			3KD3844-0PE40-0		1	1 ST	143	3,623
	315	3	3KD4044-0PE10-0			3KD4044-0PE40-0		1	1 ST	143	3,639
	400	3	3KD4244-0PE10-0			3KD4244-0PE40-0		1	1 ST	143	3,602
4-pole, flat terminal, size 4, operating mechanism right											
4-pole, flat terminal, size 4, operating mechanism right	500	4	3KD4444-0QE10-0			3KD4444-0QE40-0		1	1 ST	143	9,283
	630	4	3KD4644-0QE10-0			3KD4644-0QE40-0		1	1 ST	143	9,260
	800	4	3KD4844-0QE10-0			3KD4844-0QE40-0		1	1 ST	143	7,240
4-pole, flat terminal, size 5, operating mechanism right											
4-pole, flat terminal, size 5, operating mechanism right	1000	5	3KD5044-0RE10-0			3KD5044-0RE40-0		1	1 ST	143	21,560
	1250	5	3KD5244-0RE10-0			3KD5244-0RE40-0		1	1 ST	143	21,500
	1600	5	3KD5444-0RE10-0			3KD5444-0RE40-0		1	1 ST	143	21,320
Box terminal											
	16	1	3KD1644-2ME10-0			3KD1644-2ME40-0		1	1 ST	143	0,900
	32	1	3KD2244-2ME10-0			3KD2244-2ME40-0		1	1 ST	143	0,900
	63	1	3KD2644-2ME10-0			3KD2644-2ME40-0		1	1 ST	143	0,900
4-pole, box terminal, size 1, operating mechanism right											
4-pole, box terminal, size 2, operating mechanism right	80	2	3KD2844-2NE10-0			3KD2844-2NE40-0		1	1 ST	143	1,350
	100	2	3KD3044-2NE10-0			3KD3044-2NE40-0		1	1 ST	143	1,350
	125	2	3KD3244-2NE10-0			3KD3244-2NE40-0		1	1 ST	143	1,350
	160	2	3KD3444-2NE10-0			3KD3444-2NE40-0		1	1 ST	143	1,350


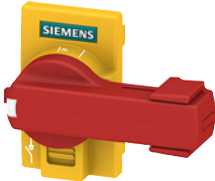
Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

Selection and ordering data

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							
 <p>Direct operating mechanism, gray, for size 2</p>	Standard version						
	Can be locked with up to max. 3 padlocks, requires additional mounting depth in locked state						
	Gray						
	for size 1; 3KD....-M	3KD9101-1		1	1 ST	143	0,140
	for size 2; 3KD....-N	3KD9201-1		1	1 ST	143	0,141
	for size 3; 3KD....-P	3KD9301-1		1	1 ST	143	0,220
 <p>Direct operating mechanism, red/yellow, for size 2</p>	Red/yellow						
	for size 1; 3KD....-M	3KD9101-2		1	1 ST	143	0,149
	for size 2; 3KD....-N	3KD9201-2		1	1 ST	143	0,155
	for size 3; 3KD....-P	3KD9301-2		1	1 ST	143	0,230
	for size 4; 3KD....-Q	3KD9401-2		1	1 ST	143	0,574
	for size 5; 3KD....-R	3KD9501-2		1	1 ST	143	0,572
 <p>Direct operating mechanism, flat version, gray, for size 2</p>	Flat version (suitable for distribution boards)						
	Can be locked with one padlock, requires no additional mounting depth in locked state						
	Gray						
	for size 1; 3KD....-M	3KD9101-0		1	1 ST	143	0,129
	for size 2; 3KD....-N	3KD9201-0		1	1 ST	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 ST	143	0,130
		for size 2; 3KD....-N	3KD9201-8	1	1 ST	143	0,059

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 delivery of the 3KD.





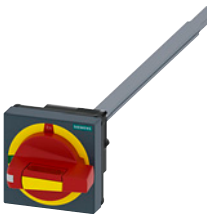
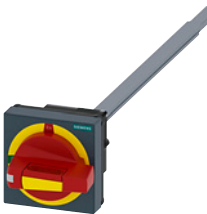
Availability of the door-coupling rotary operating mechanism versions

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 1st 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								
	Red/yellow								
	for size 1/2; 3KD.....M/N								
	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								
	Red/yellow								
	for size 1/2; 3KD.....M/N								

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

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
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									
 <p>Handle without extension shaft, gray, for size 1</p>	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AD01		1	1 ST	153	0,130
Red/yellow									
 <p>Handle without extension shaft, red/yellow, for size 1</p>	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AD05		1	1 ST	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									
 <p>Handle without extension shaft, gray, for size 1</p>	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AF01		1	1 ST	153	0,130
Red/yellow									
 <p>Handle without extension shaft, gray, for size 1</p>	for size 1/2; 3KD....-M/N	45	8 x 8	8UD1771-2AF05		1	1 ST	153	0,130

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A



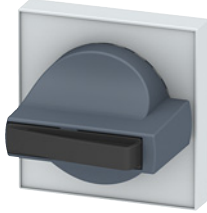

Accessories and spare parts

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									
 8UC6032	300 mm long								
	for size 1/2, 3KD....-M/N	--	8 x 8	8UC6032		1	1 ST	103	0,135
 8UC6082	600 mm long								
	for size 1/2, 3KD....-M/N	--	8 x 8	8UC6082		1	1 ST	103	0,265
 8UD1900-2GA00	Coupling driver with tolerance compensation								
	for size 1/2, 3KD....-M/N	--	8 x 8	8UD1900-2GA00		1	1 ST	153	0,061
 8UD1900-2HA00	Coupling driver without tolerance compensation								
	for size 1/2, 3KD....-M/N	--	8 x 8	8UD1900-2HA00		1	1 ST	153	0,015
 Shaft coupling	Shaft couplings								
	for size 1/2, 3KD....-M/N	--	8 x 8	8UC6022		1	1 ST	103	0,022

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts



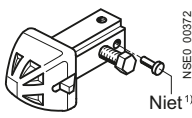
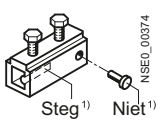
Type	Shaft size handle end ¹⁾	Shaft size switch end ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	mm x mm	mm x mm							kg
Door-coupling rotary operating mechanisms, 8UC/3KD9 series									
Door-coupling rotary operating 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 ST	143	0,355
	for size 2; 3KD....-N	8 x 8	8 x 8	3KD9215-1		1	1 ST	143	0,446
	for size 3; 3KD....-P	10 x 10	8 x 8	3KD9315-1		1	1 ST	143	1,004
	for size 4; 3KD....-Q	10 x 10	10 x 10	3KD9415-1		1	1 ST	143	0,962
	for size 5; 3KD....-R	12 x 12	12 x 12	3KD9515-1		1	1 ST	143	1,138
Door-coupling rotary operating mechanism, gray, for size 1									
	Red/yellow								
	for size 1; 3KD....-M	8 x 8	8 x 8	3KD9115-2		1	1 ST	143	0,434
	for size 2; 3KD....-N	8 x 8	8 x 8	3KD9215-2		1	1 ST	143	0,496
	for size 3; 3KD....-P	10 x 10	8 x 8	3KD9315-2		1	1 ST	143	0,934
	for size 4; 3KD....-Q	10 x 10	10 x 10	3KD9415-2		1	1 ST	143	0,999
	for size 5; 3KD....-R	12 x 12	12 x 12	3KD9515-2		1	1 ST	143	1,138
Door-coupling rotary operating mechanism, red/yellow, for size 1									
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 ST	143	0,183
	for size 2; 3KD....-N	8 x 8	--	3KD9215-3		1	1 ST	143	0,191
	for size 3; 3KD....-P	10 x 10	--	3KD9315-3		1	1 ST	143	0,473
	for size 4; 3KD....-Q	10 x 10	--	3KD9415-3		1	1 ST	143	0,881
	for size 5; 3KD....-R	12 x 12	--	3KD9515-3		1	1 ST	143	0,529
Handle without extension shaft, gray, for size 1									
	Red/yellow								
	for size 1; 3KD....-M	8 x 8	--	3KD9115-4		1	1 ST	143	0,182
	for size 2; 3KD....-N	8 x 8	--	3KD9215-4		1	1 ST	143	0,191
	for size 3; 3KD....-P	10 x 10	--	3KD9315-4		1	1 ST	143	0,495
	for size 4; 3KD....-Q	10 x 10	--	3KD9415-4		1	1 ST	143	0,485
	for size 5; 3KD....-R	12 x 12	--	3KD9515-4		1	1 ST	143	0,522
Handle without extension shaft, red/yellow, for size 1									

¹⁾ With different shaft sizes - on the handle / at the switch - the cross-section within the shaft changes (does not apply to sizes 1 and 2)

Switch Disconnectors

3KD Switch Disconnectors up to 1600 A

Accessories and spare parts

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
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 ST	103	0,135
	for size 3; 3KD.....-P	10 x 10	8 x 8	3KD9302-0		1	1 ST	143	0,422
	for size 4; 3KD.....-Q	10 x 10	10 x 10	8UC6033		1	1 ST	103	0,215
	for size 5; 3KD.....-R	12 x 12	12 x 12	8UC6034		1	1 ST	103	0,316
600 mm long									
	for size 1/2	8 x 8	8 x 8	8UC6082		1	1 ST	103	0,265
	for size 3; 3KD.....-P	10 x 10	8 x 8	3KD9302-1		1	1 ST	143	0,420
	for size 4; 3KD.....-Q	10 x 10	10 x 10	8UC6083		1	1 ST	103	0,424
	for size 5; 3KD.....-R	12 x 12	12 x 12	8UC6084		1	1 ST	103	0,628
Coupling drivers									
	for 8 x 8 mm shafts			8UC6017-2AA		1	1 ST	103	0,046
	for 10 x 10 mm shafts			8UC6013		1	1 ST	103	0,235
	for 12 x 12 mm shafts			8UC6014		1	1 ST	103	0,234
Shaft couplings									
	for 8 x 8 mm shafts			8UC6022		1	1 ST	103	0,022
	for 10 x 10 mm shafts			8UC6023		1	1 ST	103	0,083
	for 12 x 12 mm shafts			8UC6024		1	1 ST	103	0,078

Shaft coupling

¹⁾ With different shaft sizes - on the handle / at the switch - the cross-section within the shaft changes (does not apply to sizes 1 and 2)

More information

The products presented here represent only part of the complete range of products.

You can find the full portfolio in the complete catalog, see [Catalog LV 10, Chapter "Switch Disconnectors"](#).

Article number index incl. export markings

Overview

Article No.	Page	Export markings	
		ECCN	AL
3KD			
3KD1634-2ME10-0	9	N	N
3KD1634-2ME40-0	9	N	N
3KD1644-2ME10-0	10	N	N
3KD1644-2ME40-0	10	N	N
3KD1660-2ME20-0	8	N	N
3KD2234-2ME10-0	9	N	N
3KD2234-2ME40-0	9	N	N
3KD2244-2ME10-0	10	N	N
3KD2244-2ME40-0	10	N	N
3KD2260-2ME20-0	8	N	N
3KD2634-2ME10-0	9	N	N
3KD2634-2ME40-0	9	N	N
3KD2644-2ME10-0	10	N	N
3KD2644-2ME40-0	10	N	N
3KD2660-2ME20-0	8	N	N
3KD2834-0NE10-0	9	N	N
3KD2834-0NE40-0	9	N	N
3KD2834-2NE10-0	9	N	N
3KD2834-2NE40-0	9	N	N
3KD2844-0NE10-0	10	N	N
3KD2844-0NE40-0	10	N	N
3KD2844-2NE10-0	10	N	N
3KD2844-2NE40-0	10	N	N
3KD2860-0NE20-0	8	N	N
3KD2860-2NE20-0	8	N	N
3KD3034-0NE10-0	9	N	N
3KD3034-0NE40-0	9	N	N
3KD3034-2NE10-0	9	N	N
3KD3034-2NE40-0	9	N	N
3KD3044-0NE10-0	10	N	N
3KD3044-0NE40-0	10	N	N
3KD3044-2NE10-0	10	N	N
3KD3044-2NE40-0	10	N	N
3KD3060-0NE20-0	8	N	N
3KD3060-2NE20-0	8	N	N
3KD3234-0NE10-0	9	N	N
3KD3234-0NE40-0	9	N	N
3KD3234-2NE10-0	9	N	N
3KD3234-2NE40-0	9	N	N
3KD3244-0NE10-0	10	N	N
3KD3244-0NE40-0	10	N	N
3KD3244-2NE10-0	10	N	N
3KD3244-2NE40-0	10	N	N
3KD3260-0NE20-0	8	N	N
3KD3260-2NE20-0	8	N	N
3KD3434-0NE10-0	9	N	N
3KD3434-0NE40-0	9	N	N
3KD3434-2NE10-0	9	N	N
3KD3434-2NE40-0	9	N	N
3KD3444-0NE10-0	10	N	N
3KD3444-0NE40-0	10	N	N
3KD3444-2NE10-0	10	N	N
3KD3444-2NE40-0	10	N	N
3KD3460-0NE20-0	8	N	N
3KD3460-2NE20-0	8	N	N

Article No.	Page	Export markings	
		ECCN	AL
3KD3634-0NE10-0	9	N	N
3KD3634-0NE40-0	9	N	N
3KD3634-0PE10-0	9	N	N
3KD3634-0PE40-0	9	N	N
3KD3644-0NE10-0	10	N	N
3KD3644-0NE40-0	10	N	N
3KD3644-0PE10-0	10	N	N
3KD3644-0PE40-0	10	N	N
3KD3660-0PE20-0	8	N	N
3KD3834-0PE10-0	9	N	N
3KD3834-0PE40-0	9	N	N
3KD3844-0PE10-0	10	N	N
3KD3844-0PE40-0	10	N	N
3KD3860-0PE20-0	8	N	N
3KD4034-0PE10-0	9	N	N
3KD4034-0PE40-0	9	N	N
3KD4044-0PE10-0	10	N	N
3KD4044-0PE40-0	10	N	N
3KD4060-0PE20-0	8	N	N
3KD4234-0PE10-0	9	N	N
3KD4234-0PE40-0	9	N	N
3KD4244-0PE10-0	10	N	N
3KD4244-0PE40-0	10	N	N
3KD4260-0PE20-0	8	N	N
3KD4434-0QE10-0	9	N	N
3KD4434-0QE40-0	9	N	N
3KD4444-0QE10-0	10	N	N
3KD4444-0QE40-0	10	N	N
3KD4460-0QE20-0	8	N	N
3KD4634-0QE10-0	9	N	N
3KD4634-0QE40-0	9	N	N
3KD4644-0QE10-0	10	N	N
3KD4644-0QE40-0	10	N	N
3KD4660-0QE20-0	8	N	N
3KD4834-0QE10-0	9	N	N
3KD4834-0QE40-0	9	N	N
3KD4844-0QE10-0	10	N	N
3KD4844-0QE40-0	10	N	N
3KD4860-0QE20-0	8	N	N
3KD5034-0RE10-0	9	N	N
3KD5034-0RE40-0	9	N	N
3KD5044-0RE10-0	10	N	N
3KD5044-0RE40-0	10	N	N
3KD5060-0RE20-0	8	N	N
3KD5234-0RE10-0	9	N	N
3KD5234-0RE40-0	9	N	N
3KD5244-0RE10-0	10	N	N
3KD5244-0RE40-0	10	N	N
3KD5260-0RE20-0	8	N	N
3KD5434-0RE10-0	9	N	N
3KD5434-0RE40-0	9	N	N
3KD5444-0RE10-0	10	N	N
3KD5444-0RE40-0	10	N	N
3KD5460-0RE20-0	8	N	N
3KD9101-0	11	N	N
3KD9101-1	11	N	N

Appendix

Article number index incl. export markings

Article No.	Page	Export markings	
		ECCN	AL
3KD9101-2	11	N	N
3KD9101-8	11	N	N
3KD9115-1	15	N	N
3KD9115-2	15	N	N
3KD9115-3	15	N	N
3KD9115-4	15	N	N
3KD9201-0	11	N	N
3KD9201-1	11	N	N
3KD9201-2	11	N	N
3KD9201-8	11	N	N
3KD9215-1	15	N	N
3KD9215-2	15	N	N
3KD9215-3	15	N	N
3KD9215-4	15	N	N
3KD9301-1	11	N	N
3KD9301-2	11	N	N
3KD9302-0	16	N	N
3KD9302-1	16	N	N
3KD9315-1	15	N	N
3KD9315-2	15	N	N
3KD9315-3	15	N	N
3KD9315-4	15	N	N
3KD9401-1	11	N	N
3KD9401-2	11	N	N
3KD9415-1	15	N	N
3KD9415-2	15	N	N
3KD9415-3	15	N	N
3KD9415-4	15	N	N
3KD9501-1	11	N	N
3KD9501-2	11	N	N
3KD9515-1	15	N	N
3KD9515-2	15	N	N
3KD9515-3	15	N	N
3KD9515-4	15	N	N

Article No.	Page	Export markings	
		ECCN	AL
8UC			
8UC6013	16	N	N
8UC6014	16	N	N
8UC6017-2AA	16	N	N
8UC6022	14, 16	N	N
8UC6023	16	N	N
8UC6024	16	N	N
8UC6032	14, 16	N	N
8UC6033	16	N	N
8UC6034	16	N	N
8UC6082	14, 16	N	N
8UC6083	16	N	N
8UC6084	16	N	N
8UD			
8UD1171-2AD11	12	N	N
8UD1171-2AD15	12	N	N
8UD1171-2AF21	12	N	N
8UD1171-2AF25	12	N	N
8UD1771-2AD01	13	N	N
8UD1771-2AD05	13	N	N
8UD1771-2AF01	13	N	N
8UD1771-2AF05	13	N	N
8UD1900-2GA00	14	EAR99	N
8UD1900-2HA00	14	EAR99	N

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