

Switch disconnecter 630 A, Size 4, 3-pole Lateral operating mechanism left Basic unit without handle flat terminal



Model	
Product brand name	SENTRON
Product designation	3KD switch disconnecter
Design of the product	Switch
Display version / for switch position indicator door-coupling rotary operating mechanism	ON-OFF
Design of the operating mechanism	Without handle
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	3
Type of device	fixed mounting
Size of switch disconnecter	4
Electrical endurance (switching cycles)	
<ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / at 50/60 Hz</li> </ul>	1 000
<ul style="list-style-type: none"> <li>• at DC-23 A / at 440 V</li> </ul>	1 000
<ul style="list-style-type: none"> <li>• I<sup>2</sup>t value / with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	3 687 500 A <sup>2</sup> -s
<ul style="list-style-type: none"> <li>• I<sup>2</sup>t value / with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>	3 687 500 A <sup>2</sup> -s

• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 450 000 A <sup>2</sup> ·s
circuit-breaker / Design	3KD4
Mechanical service life (switching cycles) / typical	8 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	IV

### Voltage

Operating voltage / with current paths in series	
• with degree of pollution 2 / at DC / rated value / Note	440 V / 3
• with degree of pollution 3 / at DC / rated value / Note	440 / 3
Insulation voltage	
• rated value	1 000 V
Surge voltage resistance / rated value	12 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %

### Protection class

Protection class IP	IP00
Protection class IP	
• with closed switch / with cover or cable lug cover	IP20
• on the front	IP00

### Dissipation

Power loss [W]	
• with conventional rated thermal current / per pole	17 W
• with conventional rated thermal current / per device	51 W
• for rated value of the current / at AC / in hot operating state / per pole	17 W

### Electricity

Operating current	
• at AC-21 A / at 400 V / maximum	630 A
• at AC-21 A / at 500 V / maximum	630 A
• at AC-21 A / at 690 V / maximum	630 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A

• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A
• at DC-23 A / at 440 V / rated value / maximum	630 / 3
• at DC-23 A / at 220 V / rated value / maximum	630 / 2
• at DC-22 A / at 440 V / rated value / maximum	630 / 3
• at DC-22 A / at 220 V / rated value / maximum	630 / 2
• at DC-21 A / at 440 V / rated value / maximum	630 / 3
• at DC-21 A / at 220 V / maximum	630 / 2
Current / at AC / rated value	630 A
Continuous current	
• rated value	630 A
• at 40 °C / rated value	630 A
• at 45 °C / rated value	630 A
• at 50 °C / rated value	630 A
• at 55 °C / rated value	630 A
• at 60 °C / rated value	630 A
• at 65 °C / rated value	630 A
• at 70 °C / rated value	630 A
Continuous current / at DC / rated value	630 A
Let-through current / with closed switch	
• at 690 V / for combination switch + gG fuse / maximum permissible	54 500 A
• for combination switch + fuse / at 400 V / maximum permissible	61 600 A
• for combination switch + fuse / at 500 V / maximum permissible	61 600 A
Short-time current resistance (I <sub>cw</sub> )	
• at 690 V AC/440 V DC / limited to 1 s / rated value	30 kA
<b>Main circuit</b>	
Operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	355 kW
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	400 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	630 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
<b>Auxiliary circuit</b>	

Number of connected NC contacts / for auxiliary contacts	0
Number of connected NO contacts / for auxiliary contacts	0
Number of connected CO contacts / for auxiliary contacts	0
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	8
Number of NO contacts / for auxiliary contacts	8

## Suitability

### Suitability for use

• Main switch	Yes
• switch disconnecter	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes

## Product details

Product feature / interlock	No
Product component	
• Trip indicator	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product extension	
• Auxiliary switch	Yes
• optional	
— motor drive	No
— Voltage trigger	No

## Short circuit

Short-circuit current making capacity (I <sub>cm</sub> )	
• for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum	63 kA
Conditional short-circuit current / with line-side fuse protection	
• at 500 V / by gG fuse / rated value	100 kA

## Connections

• Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug	1x (25 ... 240 mm <sup>2</sup> ), 2x (25 ... 240 mm <sup>2</sup> )
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (120 ... 240 mm <sup>2</sup> ), 2x (95 ... 240 mm <sup>2</sup> )
<b>Type of electrical connection</b>	

- for main current circuit

flat connector

### Mechanical Design




Height	235 mm
Width	271 mm
Depth	111.5 mm
Mounting position	any
Mounting type	screw fixing
Mounting type	
<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>	<p>No</p> <p>No</p> <p>No</p>
Net weight	6 350 g

### Environmental conditions

Degree of pollution	3
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	<p>-25 °C</p> <p>70 °C</p> <p>-50 °C</p> <p>80 °C</p>

### Certificates

Reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to DIN EN 81346-2</li> </ul>	<p>Q</p> <p>Q</p>

General Product Approval	Declaration of Conformity	Shipping Approval	other
 <p>CCC</p>	 <p>EG-Konf.</p>	 <p>LRS</p>	<p>Miscellaneous</p> <p>Miscellaneous</p>

### Further information

#### Information- and Downloadcenter (Catalogs, Brochures,...)

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

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD4634-0QE10-0>

#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4634-0QE10-0>

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

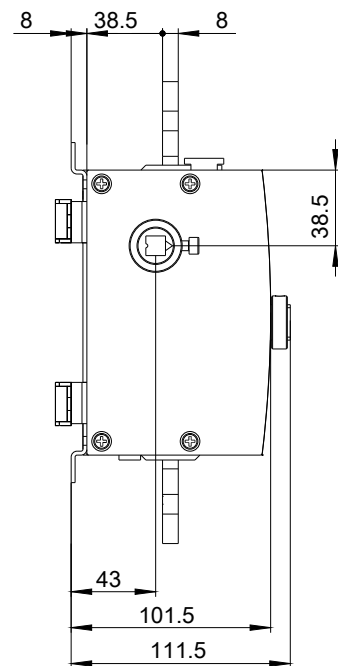
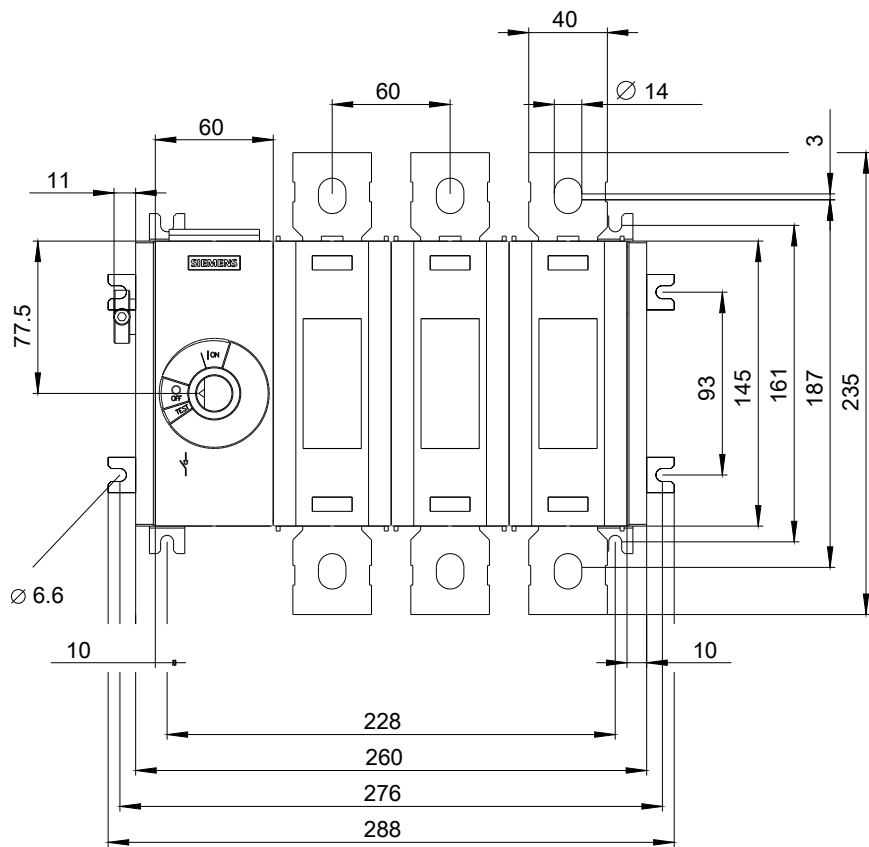
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD4634-0QE10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4634-0QE10-0)

#### CAX-Online-Generator

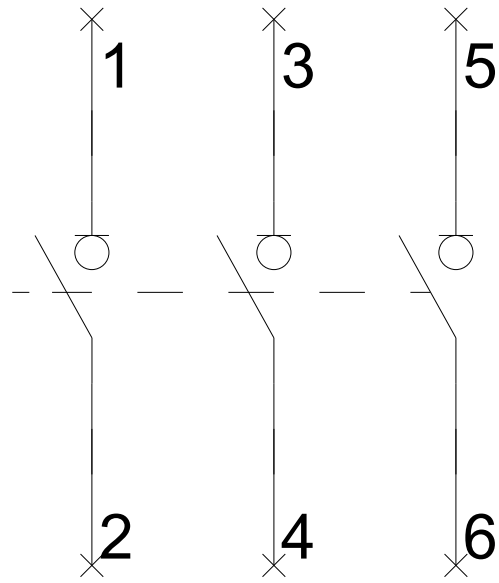
<http://www.siemens.com/cax>

#### Tender specifications

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



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