

Switch disconnecter 200 A, Size 2, 4-pole Front operating mechanism left Basic unit without handle flat terminal incl. phase barriers



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	4
Type of device	fixed mounting
Size of switch disconnecter	2
Electrical endurance (switching cycles)	
<ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / at 50/60 Hz</li> </ul>	1 500
<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>	210 500 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>	210 500 A <sup>2</sup> -s

<ul style="list-style-type: none"> <li>• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul>	226 000 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>• I2t value / of the fuse / at 500 V / maximum permissible</li> </ul>	780 005 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>• I2t value / of the gG fuse / at 690 V / maximum permissible</li> </ul>	525 005 A <sup>2</sup> ·s
circuit-breaker / Design	3KD3
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	III

### Voltage

Operating voltage / with current paths in series	
<ul style="list-style-type: none"> <li>• with degree of pollution 2 / at DC / rated value / Note</li> </ul>	440 V / 3
<ul style="list-style-type: none"> <li>• with degree of pollution 3 / at DC / rated value / Note</li> </ul>	440 / 3
Insulation voltage	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	1 000 V
Surge voltage resistance / rated value	8 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	
<ul style="list-style-type: none"> <li>• with closed switch / with cover or cable lug cover</li> </ul>	IP20
<ul style="list-style-type: none"> <li>• on the front</li> </ul>	IP00

### Dissipation

Power loss [W]	
<ul style="list-style-type: none"> <li>• with conventional rated thermal current / per pole</li> </ul>	6.4 W
<ul style="list-style-type: none"> <li>• with conventional rated thermal current / per device</li> </ul>	25.6 W
<ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	6.4 W

### Electricity

Operating current	
<ul style="list-style-type: none"> <li>• at AC-21 A / at 400 V / maximum</li> </ul>	200 A
<ul style="list-style-type: none"> <li>• at AC-21 A / at 500 V / maximum</li> </ul>	200 A
<ul style="list-style-type: none"> <li>• at AC-21 A / at 690 V / maximum</li> </ul>	200 A
<ul style="list-style-type: none"> <li>• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum</li> </ul>	160 A

• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	200 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	200 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	200 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	160 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	125 A
Current / at AC / rated value	200 A
Continuous current	
• rated value	200 A
• at 40 °C / rated value	200 A
• at 45 °C / rated value	200 A
• at 50 °C / rated value	200 A
• at 55 °C / rated value	200 A
• at 60 °C / rated value	200 A
• at 65 °C / rated value	200 A
• at 70 °C / rated value	200 A
Continuous current / at DC / rated value	160 A
Let-through current / of the fuse / at 500 V / maximum permissible	24 872 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	25 005 A
Let-through current / with closed switch	
• at 690 V / for combination switch + gG fuse / maximum permissible	19 000 A
• for combination switch + fuse / at 400 V / maximum permissible	18 000 A
• for combination switch + fuse / at 500 V / maximum permissible	18 000 A
Short-time current resistance (I <sub>cw</sub> )	
• at 690 V AC/440 V DC / limited to 1 s / rated value	4 kA

### Main circuit

Operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	90 kW
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	110 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	110 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V

### Auxiliary circuit

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	4
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0

### Suitability

<b>Suitability for use</b>	
• 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	12 kA
• for switch disconnecter / without fuse link / rated value / minimum	12 kA
Conditional short-circuit current / with line-side fuse protection	
• at 500 V / by gG fuse / rated value	50 kA

### Connections

• Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug	1x (10 ... 70 mm <sup>2</sup> )
<b>Type of electrical connection</b>	
• for main current circuit	flat connector

Mechanical Design	
Height	168 mm
Width	148 mm
Depth	68 mm
Mounting position	any
Mounting type	Screw fixing and standard rail mounting 35 mm
Mounting type	
<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> </ul>	No
<ul style="list-style-type: none"> <li>• front mounting with central attachment</li> </ul>	No
<ul style="list-style-type: none"> <li>• rail mounting</li> </ul>	Yes
Net weight	1 000 g

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

Certificates	
Reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	Q
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	Q
<p>Waste electronic equipment must not be disposed as unsorted municipal waste, e.g. household waste. For disposing the waste electronic equipment it is necessary to observe the current local national/international regulations.</p> 	

General Product Approval	Declaration of Conformity	Shipping Approval	other
--------------------------	---------------------------	-------------------	-------



[Miscellaneous](#)



[Miscellaneous](#)

### 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=3KD3640-0NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3640-0NE10-0>

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

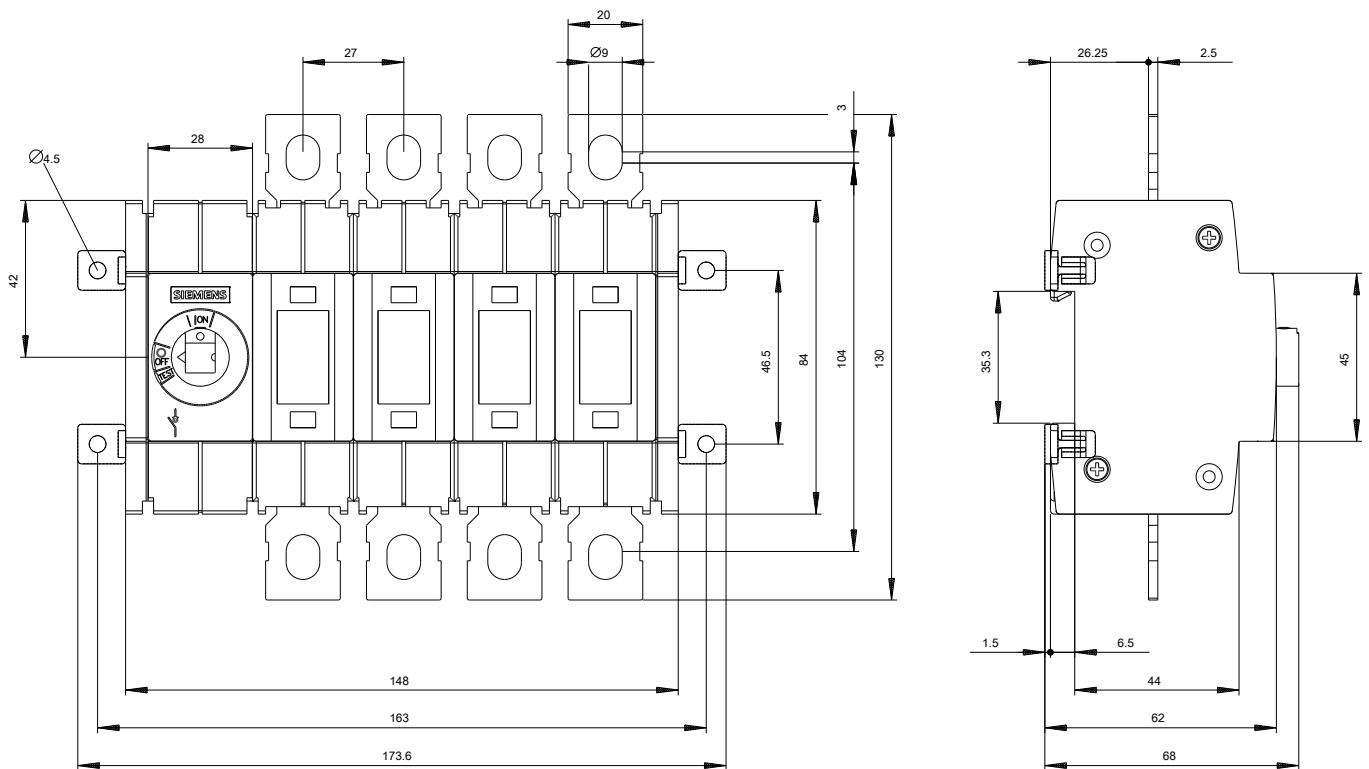
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD3640-ONE10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3640-ONE10-0)

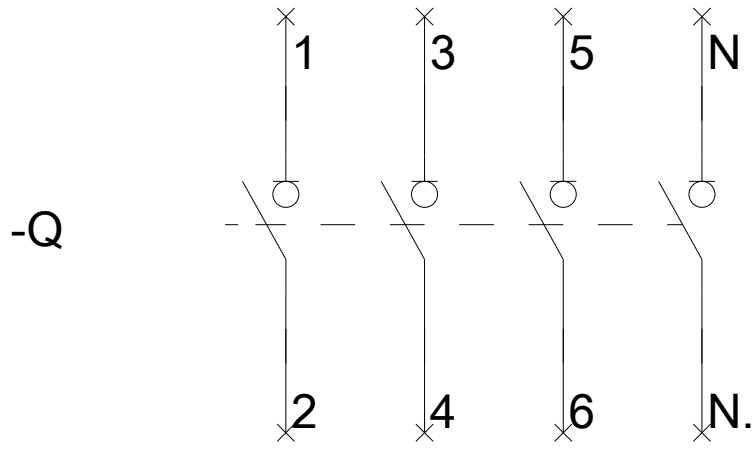
CAx-Online-Generator

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

Tender specifications

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





# -CR

