



Switch disconnecter 125 A, Size 2, 3-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 actuating element	Without handle
type of the driving mechanism	Front operating mechanism
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
type of device	fixed mounting
size of switch disconnecter	2
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	1 500
• at DC-23 A / at 440 V	1 000
I <sup>2</sup> t value	
• with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum	19 815 A <sup>2</sup> ·s
• of the fuse / at 500 V / maximum permissible	223 005 A <sup>2</sup> ·s
• of the gG fuse / at 690 V / maximum permissible	226 005 A <sup>2</sup> ·s
• of the gG/aM SITOR fuse / at 1000 V / maximum permissible	48 000 A <sup>2</sup> ·s
• of the molded case circuit breaker / at 415 V / maximum permissible	1 750 000 A <sup>2</sup> ·s
position / of the switch operating mechanism	at the left end
overvoltage in percent / relative to the operating voltage / at AC / at 400, 500, 690 V / at 50/60 Hz	10 %
overvoltage category	III
degree of pollution	3
Voltage	
operating voltage / with current paths in series	
• with degree of pollution 2 / at DC / rated value	440 V / 3
• with degree of pollution 3 / at DC / rated value	440 V / 3
insulation voltage	
• rated value	1 000 V
surge voltage resistance / rated value	8 kV
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> <li>on the front</li> </ul>	IP20 IP00
<b>Dissipation</b>	
power loss [W]	
<ul style="list-style-type: none"> <li>with conventional rated thermal current / per pole</li> <li>with conventional rated thermal current / per device</li> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	3.2 W 9.6 W 3.2 W
<b>Current</b>	
operational current	
<ul style="list-style-type: none"> <li>at 35 °C / rated value</li> <li>at 40 °C / rated value</li> <li>at 45 °C / rated value</li> <li>at 50 °C / rated value</li> <li>at 55 °C / rated value</li> <li>at 60 °C / rated value</li> <li>at 65 °C / rated value</li> <li>at 70 °C / rated value</li> <li>at AC / rated value</li> <li>at AC-23 A / at 690 V / rated value</li> <li>at AC-23 A / at 500 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> <li>at AC-22 A / at 1000 V / maximum</li> <li>at AC-22 A / at 690 V / rated value</li> <li>at AC-22 A / at 500 V / rated value</li> <li>at AC-22 A / at 400 V / rated value</li> <li>at AC-20 A / at 1000 V / maximum</li> <li>at AC-21 A / at 500 V / rated value</li> <li>at AC-21 A / at 690 V / rated value</li> <li>at DC-20 A / at 1000 V / maximum</li> <li>at DC-23 A / at 440 V / rated value / note</li> <li>at DC-23 A / at 220 V / rated value / note</li> <li>at DC-22 A / at 440 V / rated value / note</li> <li>at DC-22 A / at 220 V / rated value / note</li> <li>at DC-21 A / at 440 V / rated value / note</li> <li>at DC-21 A / at 220 V / rated value</li> <li>at DC-21 B / at 750 V / rated value / maximum</li> </ul>	125 A / 1 125 A / 3 125 A / 2 125 A / 3 125 A / 2 125 A / 3 125 A / 2 125 A / 3 125 A / 2 125 A / 3
continuous current / of upstream fuse / at 500 V and 690 V / rated value	250 A
continuous current / of upstream fuse / at 1000 V / rated value	250 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	200 A
operational current / at DC / rated value	125 A
let-through current / of the fuse / at 500 V / maximum permissible	25 700 A
let-through current / of the gG fuse / at 690 V / maximum permissible	29 500 A
let-through current / of the aM fuse / at 690 V / maximum permissible	32 900 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	12 500 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	28 000 A
short-time withstand current (I <sub>cw</sub> )	
<ul style="list-style-type: none"> <li>at 400 V AC / limited to 0.15 s / rated value</li> </ul>	15 kA
<b>Main circuit</b>	
operating power	
<ul style="list-style-type: none"> <li>at AC-23 A / at 500 V / rated value</li> </ul>	75 kW
operational current / rated value	125 A
<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	4
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0

### Suitability

suitability for use	
<ul style="list-style-type: none"> <li>main switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>switch disconnecter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>EMERGENCY OFF switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>safety switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>maintenance/repair switch</li> </ul>	Yes

### Product details

product feature / interlock	No
product component	
<ul style="list-style-type: none"> <li>trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>undervoltage release with leading contact</li> </ul>	No
product extension / auxiliary switch	Yes
product extension / optional	
<ul style="list-style-type: none"> <li>motor drive</li> </ul>	No
<ul style="list-style-type: none"> <li>voltage trigger</li> </ul>	No

### Short circuit

short-time withstand current (I <sub>cw</sub> ) / at 1000 V AC/440 V DC / limited to 1 s / rated value	4 kA
short-circuit current making capacity (I <sub>cm</sub> ) / for switch disconnecter	
<ul style="list-style-type: none"> <li>at 400 V AC / without fuse link / rated value / minimum</li> </ul>	30 kA
<ul style="list-style-type: none"> <li>at 1000 V AC / without fuse link / rated value / minimum</li> </ul>	12 kA
<ul style="list-style-type: none"> <li>at DC 440 V / without fuse link / rated value / minimum</li> </ul>	12 kA
<ul style="list-style-type: none"> <li>without fuse link / rated value / minimum</li> </ul>	12 kA
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> <li>at 415 V / by molded case circuit breaker / rated value</li> </ul>	65 kA
<ul style="list-style-type: none"> <li>at 500 V / by gG fuse / rated value</li> </ul>	100 kA
<ul style="list-style-type: none"> <li>at 690 V / by gG fuse / rated value</li> </ul>	100 kA

### Connections

type of connectable conductor cross-sections / for aluminum conductor	
<ul style="list-style-type: none"> <li>stranded / with lug</li> </ul>	1x (10 ... 70 mm <sup>2</sup> )
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> <li>for copper busbar</li> </ul>	1x (20x3 mm <sup>2</sup> )
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> <li>stranded / with lug / acc. to DIN 46235</li> </ul>	1x (25 ... 70 mm <sup>2</sup> ), 2x (25 ... 50 mm <sup>2</sup> )
type of electrical connection / for main current circuit	flat connector

### Mechanical Design

height	168 mm
width	121 mm
depth	68 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
<ul style="list-style-type: none"> <li>4-hole front mounting</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
mounting position	any

net weight	1 050 g
<b>Environmental conditions</b>	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-50 °C
• maximum	80 °C
<b>General Product Approval</b>	<b>Declaration of Conformity</b>



[Miscellaneous](#)



[UK Declaration of Conformity](#)

**Marine / Shipping**

**other**



[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=3KD3230-0NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3230-0NE10-0>

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

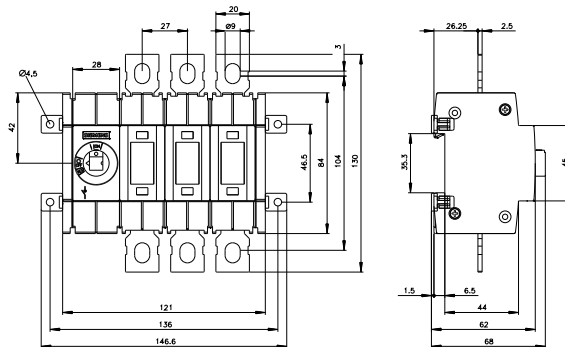
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD3230-0NE10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3230-0NE10-0)

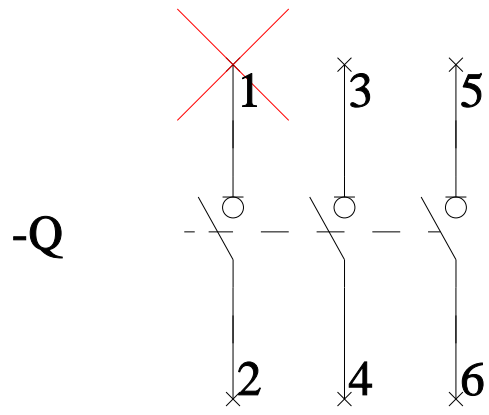
**CAX-Online-Generator**

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

**Tender specifications**

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





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