

Switch disconnecter 315 A, Size 3, 4-pole Front operating mechanism center 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 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	4
type of device	fixed mounting
size of switch disconnecter	3
mechanical service life (operating cycles) typical	15 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	1 000
• 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	239 650 A <sup>2</sup> ·s
• of the fuse at 500 V maximum permissible	2 150 005 A <sup>2</sup> ·s
• of the gG fuse at 690 V maximum permissible	1 650 005 A <sup>2</sup> ·s
• of the gG/aM SITOR fuse at 1000 V maximum permissible	260 000 A <sup>2</sup> ·s
• of the molded case circuit breaker at 415 V maximum permissible	4 750 000 A <sup>2</sup> ·s
position of the switch operating mechanism	after the second pole
overvoltage in percent relative to the operating voltage at AC at 400, 500, 690 V at 50/60 Hz	10 %
overvoltage category	IV
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	12 kV
operational current at AC-22 A at 1000 V maximum	315 A
let-through current of the fuse at 500 V maximum permissible	54 800 A

<b>let-through current of the gG fuse at 690 V maximum permissible</b>	45 200 A
<b>Supply voltage</b>	
operating voltage at AC rated value	1 000 V
<b>Protection class</b>	
<b>protection class IP</b>	IP00
<b>protection class IP</b>	
<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
<b>Dissipation</b>	
<b>power loss [W]</b>	
<ul style="list-style-type: none"> <li>with conventional rated thermal current per pole</li> </ul>	10 W
<ul style="list-style-type: none"> <li>with conventional rated thermal current per device</li> </ul>	40 W
<ul style="list-style-type: none"> <li>for rated value of the current at AC in hot operating state per pole</li> </ul>	10 W
<b>Main circuit</b>	
<b>operating power</b>	
<ul style="list-style-type: none"> <li>at AC-23 A at 500 V rated value</li> </ul>	200 kW
operational current rated value	315 A
<b>Auxiliary circuit</b>	
<b>number of connected NC contacts for auxiliary contacts</b>	0
<b>number of connected NO contacts for auxiliary contacts</b>	0
<b>number of connected CO contacts for auxiliary contacts</b>	0
<b>number of CO contacts for auxiliary contacts</b>	0
<b>number of NC contacts for auxiliary contacts</b>	6
<b>number of NO contacts for auxiliary contacts</b>	6
<b>Suitability</b>	
<b>suitability for use main switch</b>	Yes
<b>suitability for use switch disconnecter</b>	Yes
<b>suitability for use EMERGENCY OFF switch</b>	Yes
<b>suitability for use safety switch</b>	Yes
<b>suitability for use according to IEC 62626-1 safety switch</b>	No
<b>suitability for use maintenance/repair switch</b>	Yes
<b>Product details</b>	
<b>product feature interlock</b>	No
<b>product component</b>	
<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
<b>product extension auxiliary switch</b>	Yes
<b>product extension optional motor drive</b>	No
<b>product extension optional voltage trigger</b>	No
<b>Short circuit</b>	
<b>short-time withstand current (I<sub>cw</sub>) at 1000 V AC/440 V DC limited to 1 s rated value</b>	13 kA
<b>short-circuit current making capacity (I<sub>cm</sub>) for switch disconnecter</b>	
<ul style="list-style-type: none"> <li>at 1000 V AC without fuse link rated value minimum</li> </ul>	36 kA
<ul style="list-style-type: none"> <li>at DC 440 V without fuse link rated value minimum</li> </ul>	36 kA
<ul style="list-style-type: none"> <li>without fuse link rated value minimum</li> </ul>	36 kA
<b>conditional short-circuit current with line-side fuse protection</b>	
<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
<b>Connections</b>	
<b>type of connectable conductor cross-sections for aluminum conductor</b>	
<ul style="list-style-type: none"> <li>stranded with lug</li> </ul>	1x (25 ... 240 mm <sup>2</sup> ), 2x (25 ... 120 mm <sup>2</sup> )

<b>type of connectable conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>with combination of Al conductor+switch</li> <li>for copper busbar</li> </ul>	315 A / 240 mm <sup>2</sup> '1 x (30 x 10 mm <sup>2</sup> )
<b>type of connectable conductor cross-sections for copper conductor</b>	
<ul style="list-style-type: none"> <li>stranded with lug according to DIN 46234</li> <li>stranded with lug according to DIN 46235</li> </ul>	1x (6 ... 240 mm <sup>2</sup> ), 2x (6 ... 150 mm <sup>2</sup> ) 1x (16 ... 185 mm <sup>2</sup> ), 2x (16 ... 150 mm <sup>2</sup> )
type of electrical connection for main current circuit	flat connector

### Mechanical Design

<b>height</b>	164 mm
<b>width</b>	234 mm
<b>depth</b>	94 mm
<b>fastening method</b>	screw fixing
<b>fastening method</b>	
<ul style="list-style-type: none"> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul>	No No No
<b>mounting position</b>	any
<b>Net Weight</b>	3.54 kg

### Environmental conditions

<b>ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	-25 °C 70 °C
<b>ambient temperature during storage</b>	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	-50 °C 80 °C

### Certificates

<b>reference code according to IEC 81346-2</b>	Q
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### Approvals Certificates

<b>Environment</b>	<b>General Product Approval</b>
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[Environmental Con-  
firmations](#)

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firmations](#)



[Confirmation](#)

<b>General Product Approval</b>	<b>Test Certificates</b>	<b>Maritime application</b>
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[Miscellaneous](#)



[Type Test Certificates/Test Report](#)



### other



[Miscellaneous](#)

[Confirmation](#)

### Further information

#### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

#### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD4040-0PE20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4040-0PE20-0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD4040-0PE20-0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4040-0PE20-0)

CAX-Online-Generator

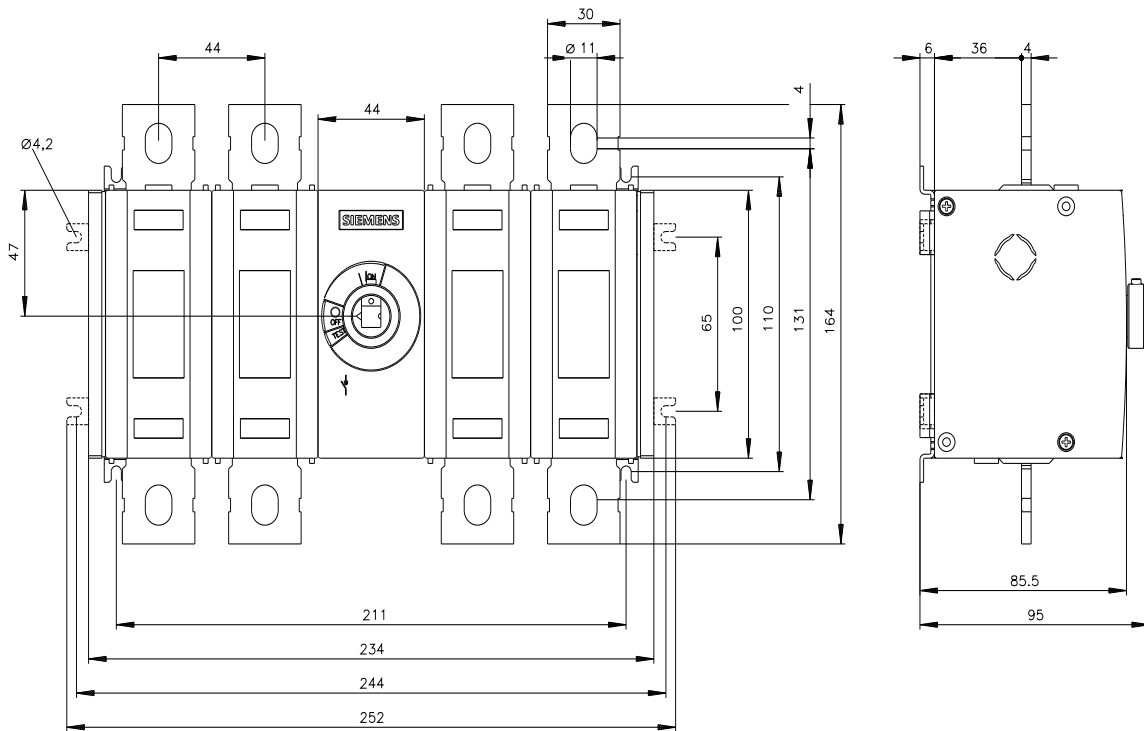
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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last modified:

7/9/2025 

