



Switch disconnecter 16A, Size 1, 4-pole Front operating mechanism left Basic unit without handle Box 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	1
mechanical service life (operating cycles) typical	15 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
• at DC-23 A at 440 V	1 500
I <sup>2</sup> t value	
• with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum	2 331 A <sup>2</sup> ·s
• of the fuse at 500 V maximum permissible	26 505 A <sup>2</sup> ·s
• of the gG fuse at 690 V maximum permissible	24 005 A <sup>2</sup> ·s
• of the gG/aM SITOR fuse at 1000 V maximum permissible	6 000 A <sup>2</sup> ·s
• of the molded case circuit breaker at 415 V maximum permissible	480 000 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	
<b>operating voltage with current paths in series</b>	
• with degree of pollution 2 at DC rated value	440 V / 3
• with degree of pollution 3 at DC rated value	440 V / 3
<b>insulation voltage</b>	
• rated value	1 000 V
surge voltage resistance rated value	8 kV
operational current at AC-22 A at 1000 V maximum	16 A
Protection class	
protection class IP	IP20
protection class IP	

- with closed switch with cover or cable lug cover IP20
- on the front IP20

#### Dissipation

power loss [W]	
<ul style="list-style-type: none"> <li>• with conventional rated thermal current per pole</li> </ul>	0.1 W
<ul style="list-style-type: none"> <li>• with conventional rated thermal current per device</li> </ul>	0.4 W
<ul style="list-style-type: none"> <li>• for rated value of the current at AC in hot operating state per pole</li> </ul>	0.1 W

#### Main circuit

operating power	
<ul style="list-style-type: none"> <li>• at AC-23 A at 500 V rated value</li> </ul>	8 kW
operational current rated value	16 A

#### 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

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 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
<b>product extension optional</b>	
<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	3 kA
short-circuit current making capacity (I <sub>cm</sub> ) for switch disconnecter	
<ul style="list-style-type: none"> <li>• at 1000 V AC without fuse link rated value minimum</li> </ul>	7 kA
<ul style="list-style-type: none"> <li>• at DC 440 V without fuse link rated value minimum</li> </ul>	7 kA
<ul style="list-style-type: none"> <li>• without fuse link rated value minimum</li> </ul>	7 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>	36 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 with flexible busbar	2x (0,8x9 mm <sup>2</sup> )
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> <li>• for copper busbar</li> </ul>	'1 x (2 x 9 mm <sup>2</sup> )
type of connectable conductor cross-sections for copper conductor	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	1x (1 ... 16 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	1x (1 ... 35 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• stranded</li> </ul>	1x (6 ... 35 mm <sup>2</sup> )
type of electrical connection for main current circuit	box terminal

#### Mechanical Design

height	119 mm
width	112 mm

depth	68 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	Yes
mounting position	any
net weight	977 g

### Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

### Certificates

reference code according to IEC 81346-2	Q
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### Approvals Certificates

#### General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

### Environment

[Environmental Confirmations](#)

### Further information

#### Information on the packaging

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

#### 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=3KD1640-2ME10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD1640-2ME10-0>

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

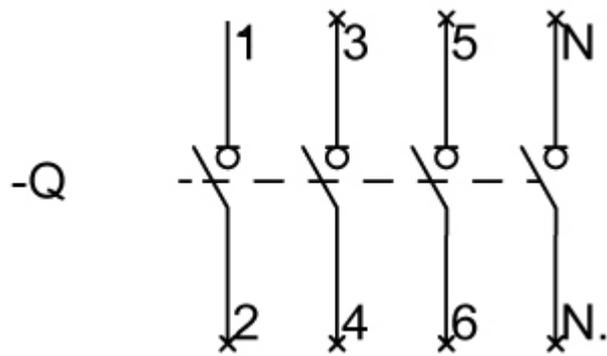
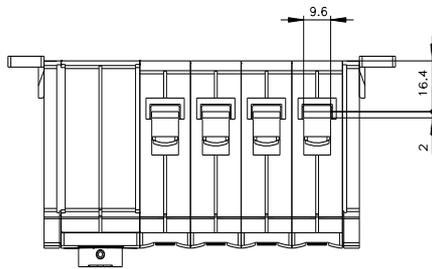
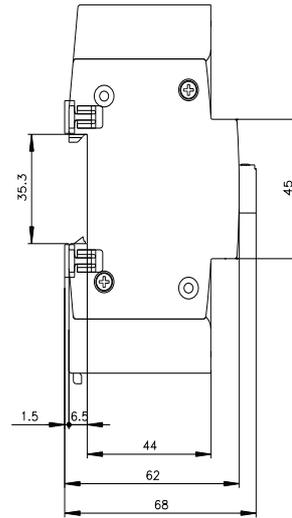
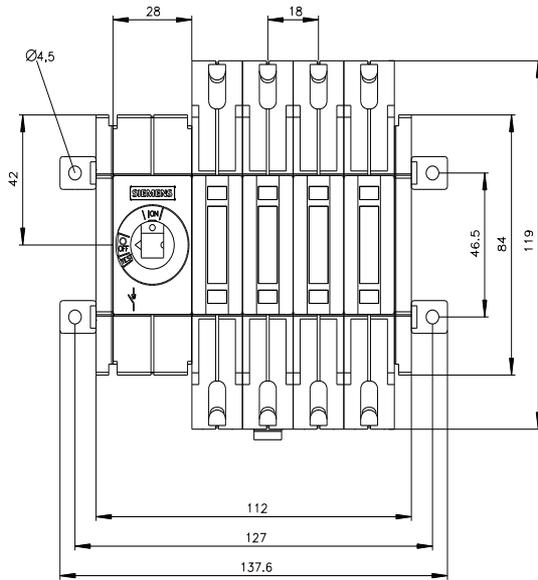
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD1640-2ME10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1640-2ME10-0)

#### CAX-Online-Generator

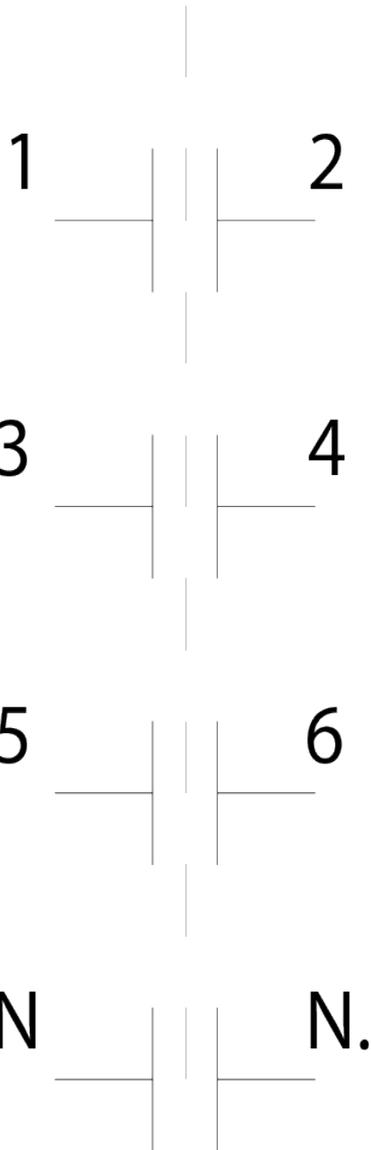
<http://www.siemens.com/cax>

#### Tender specifications

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



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2/1/2024 

