

Switch disconnecter 63 A, 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 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	1
Electrical endurance (switching cycles)	
<ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / at 50/60 Hz</li> </ul>	6 000
<ul style="list-style-type: none"> <li>• at DC-23 A / at 440 V</li> </ul>	1 500
<ul style="list-style-type: none"> <li>• I<sub>2t</sub> value / with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	13 300 A <sup>2</sup> ·s
<ul style="list-style-type: none"> <li>• I<sub>2t</sub> value / with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>	13 300 A <sup>2</sup> ·s

• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	13 700 A <sup>2</sup> ·s
• I2t value / of the fuse / at 500 V / maximum permissible	26 505 A <sup>2</sup> ·s
• I2t value / of the gG fuse / at 690 V / maximum permissible	24 005 A <sup>2</sup> ·s
circuit-breaker / Design	3KD2
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	
• 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	8 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %

## 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]	
• with conventional rated thermal current / per pole	1 W
• with conventional rated thermal current / per device	4 W
• for rated value of the current / at AC / in hot operating state / per pole	1 W

## Electricity

Operating current	
• at AC-21 A / at 400 V / maximum	63 A
• at AC-21 A / at 500 V / maximum	63 A
• at AC-21 A / at 690 V / maximum	63 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	63 A

<ul style="list-style-type: none"> <li>• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>	63 A
Current / at AC / rated value	63 A
Continuous current	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 45 °C / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 60 °C / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 65 °C / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>• at 70 °C / rated value</li> </ul>	63 A
Continuous current / at DC / rated value	63 A
Let-through current / of the fuse / at 500 V / maximum permissible	8 135 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	8 805 A
Let-through current / with closed switch	
<ul style="list-style-type: none"> <li>• at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	7 500 A
<ul style="list-style-type: none"> <li>• for combination switch + fuse / at 400 V / maximum permissible</li> </ul>	7 000 A
<ul style="list-style-type: none"> <li>• for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	7 000 A
Short-time current resistance (I <sub>cw</sub> )	
<ul style="list-style-type: none"> <li>• at 690 V AC/440 V DC / limited to 1 s / rated value</li> </ul>	3 kA
<b>Main circuit</b>	
Operating power	
<ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / at 50/60 Hz / rated value</li> </ul>	30 kW
<ul style="list-style-type: none"> <li>• at AC-23 A / at 500 V / at 50/60 Hz / rated value</li> </ul>	37 kW
<ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / at 50/60 Hz / rated value</li> </ul>	55 kW
Operating voltage	
<ul style="list-style-type: none"> <li>• at AC / at 50/60 Hz / rated value</li> </ul>	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	4
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0

## 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	7 kA
• for switch disconnecter / without fuse link / rated value / minimum	7 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 copper conductor / solid	1x (1 ... 16 mm <sup>2</sup> )
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<ul style="list-style-type: none"> <li>• Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing</li> </ul>	1x (1 ... 35 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• Type of connectable conductor cross-sections / for copper conductor / stranded</li> </ul>	1x (6 ... 35 mm <sup>2</sup> )
<b>Type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>	box terminal

Mechanical Design	
Height	119 mm
Width	112 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> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>	No No Yes
Net weight	770 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>	-25 °C 70 °C -50 °C 80 °C

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>	Q Q
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. 	

General Product Approval	Declaration of Conformity	Shipping Approval	other
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[Miscellaneous](#)



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## 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=3KD2640-2ME10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD2640-2ME10-0>

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

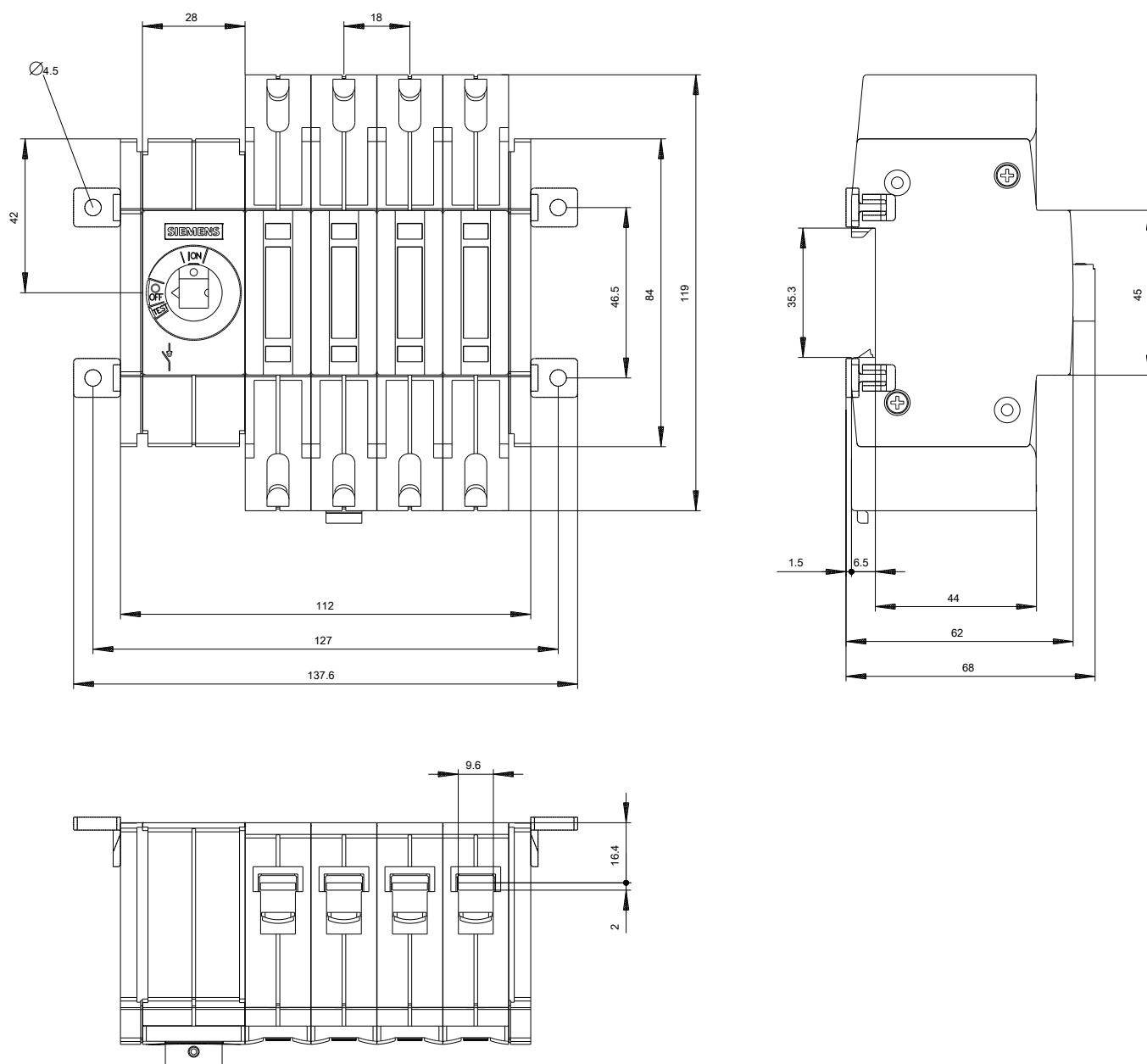
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD2640-2ME10-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2640-2ME10-0)

### CAX-Online-Generator

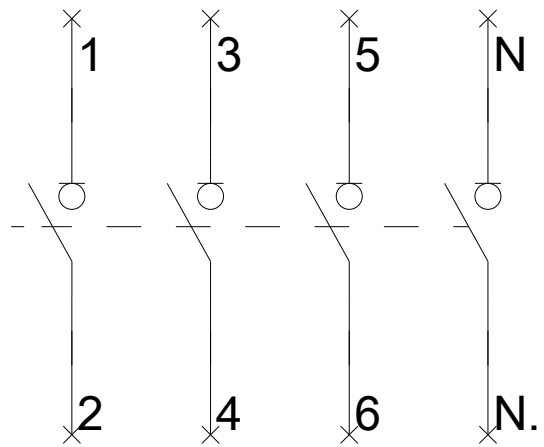
<http://www.siemens.com/cax>

### Tender specifications

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



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