



SWITCH-DISCONNECTOR 16A, FRAME SIZE 1,  
4-POLE FRONT OPERATING CENTER BASIC UNIT  
WITHOUT HANDLE BOX TERMINAL

Similar to image

**General technical details:**

<b>product brand name</b>		SETRON
<b>Product designation</b>		Switching device
<b>Design of the product</b>		3KD Switch Disconnectors
<b>Size of switch disconnector</b>		1
<b>Number of poles</b>		4
<b>Continuous current</b>		
• rated value	A	16
• at 40 °C / rated value	A	16
• at 45 °C / rated value	A	16
• at 50 °C / rated value	A	16
• at 55 °C / rated value	A	16
• at 60 °C / rated value	A	16
• at 65 °C / rated value	A	16
• at 70 °C / rated value	A	16
• at DC / rated value	A	16
<b>Operating current</b>		
• at AC-21 A		
• at 400 V / maximum	A	16

<ul style="list-style-type: none"> <li>• at 500 V / maximum</li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at 690 V / maximum</li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at AC-22 A <ul style="list-style-type: none"> <li>• at 400 V / at 50/60 Hz / rated value / maximum</li> <li>• at 500 V / at 50/60 Hz / rated value / maximum</li> <li>• at 690 V / at 50/60 Hz / rated value / maximum</li> </ul> </li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at 500 V / at 50/60 Hz / rated value / maximum</li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at AC-23 A <ul style="list-style-type: none"> <li>• at 400 V / at 50/60 Hz / rated value / maximum</li> <li>• at 500 V / at 50/60 Hz / rated value / maximum</li> <li>• at 690 V / at 50/60 Hz / rated value / maximum</li> </ul> </li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at 500 V / at 50/60 Hz / rated value / maximum</li> </ul>	A	16
<ul style="list-style-type: none"> <li>• at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>	A	16
<b>Operational voltage</b>		
<ul style="list-style-type: none"> <li>• at 50/60 Hz / for AC / rated value</li> </ul>	V	690
<ul style="list-style-type: none"> <li>• with 3 current paths in series / with DC / rated value</li> </ul>	V	440
<b>Insulation voltage / rated value</b>	V	1,000
<b>Impulse voltage resistance / rated value</b>	kV	8
<b>Overvoltage class</b>		III
<b>Operating power / at AC-23 A</b>		
<ul style="list-style-type: none"> <li>• at 400 V / at 50/60 Hz / rated value</li> </ul>	kW	7.5
<ul style="list-style-type: none"> <li>• at 500 V / at 50/60 Hz / rated value</li> </ul>	kW	7.5
<ul style="list-style-type: none"> <li>• at 690 V / at 50/60 Hz / rated value</li> </ul>	kW	11
<b>I<sup>2</sup>t value / with closed switch</b>		
<ul style="list-style-type: none"> <li>• for combination switch + fuse <ul style="list-style-type: none"> <li>• at 400 V / maximum</li> <li>• at 500 V / maximum</li> </ul> </li> </ul>	A <sup>2</sup> ·s	13,300
<ul style="list-style-type: none"> <li>• at 690 V <ul style="list-style-type: none"> <li>• for combination switch +gG fuse / maximum</li> </ul> </li> </ul>	A <sup>2</sup> ·s	13,300
<ul style="list-style-type: none"> <li>• for combination switch +gG fuse / maximum</li> </ul>	A <sup>2</sup> ·s	13,700
<b>Let-through current / with closed switch</b>		
<ul style="list-style-type: none"> <li>• for combination switch + fuse <ul style="list-style-type: none"> <li>• at 400 V / maximum permissible</li> <li>• at 500 V / maximum permissible</li> </ul> </li> </ul>	A	7,000
<ul style="list-style-type: none"> <li>• at 690 V <ul style="list-style-type: none"> <li>• with combination switch +aM fuse / maximum permissible</li> </ul> </li> </ul>	A	7,000
<ul style="list-style-type: none"> <li>• with combination switch +aM fuse / maximum permissible</li> </ul>	A	7,500
<b>Short-time current resistance (I<sub>cw</sub>) / limited to 1 s / rated value</b>	kA	3
<b>Making capacity short-circuit current (I<sub>cm</sub>) / for switch disconnecter / without fuse link / rated value / minimum</b>	kA	7
<b>Conditional short-circuit current / with line-side fuse protection</b>		
<ul style="list-style-type: none"> <li>• at 500 V / by gG fuse / rated value</li> </ul>	kA	100
<ul style="list-style-type: none"> <li>• at 690 V / by gG fuse / rated value</li> </ul>	kA	100
<b>Active power loss / with conventional rated thermal current / per pole</b>	W	0.2

<b>Product equipment / interlock</b>		No
<b>Type of the driving mechanism / motor drive</b>		No
<b>Product extension / optional / motor drive</b>		No
<b>Design of the electrical connection / for main current circuit</b>		Box terminal
<b>Type of connectable conductor cross-sections</b>		
<ul style="list-style-type: none"> <li>• for copper conductor <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• finely stranded / with end sleeve</li> </ul> </li> <li>• with flexible busbar</li> </ul>		1x (1 ... 16mm <sup>2</sup> ) 1x (6 ... 35mm <sup>2</sup> ) 1x (1 ... 35mm <sup>2</sup> ) 2x (0.8x9 mm <sup>2</sup> )
<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 changeover contacts / for auxiliary contacts</b>		0
<b>Product extension / auxiliary switch</b>		Yes
<b>Number of NC contacts / for auxiliary contacts</b>		0
<b>Number of NO contacts / for auxiliary contacts</b>		0
<b>Number of changeover contacts / for auxiliary contacts</b>		4
<b>Acceptability for application / switch disconnecter</b>		Yes
<b>Acceptability for application</b>		
<ul style="list-style-type: none"> <li>• emergency stop switch</li> <li>• main switch</li> <li>• safety cut-out switch</li> <li>• maintenance/repair switch</li> </ul>		No Yes Yes Yes
<b>Design of the operating mechanism</b>		without
<b>Mounting type</b>		Floor mounting and snap-on mounting to 35 mm standard mounting rail
<b>Mounting type / rail mounting</b>		Yes
<b>Mounting type / front mounting with 4-hole attachment</b>		No
<b>Mounting type / front mounting with central attachment</b>		No
<b>Type from device</b>		fixed mounting
<b>mounting position</b>		any
<b>Position / of switch operating mechanism</b>		after the second pole
<b>Design of handle</b>		without
<b>Width</b>	mm	112
<b>Height</b>	mm	119
<b>Depth</b>	mm	68
<b>Protection class IP</b>		IP20
<ul style="list-style-type: none"> <li>• on the front</li> <li>• with closed switch / with cover or cable lug cover</li> </ul>		IP20 IP20

<b>Ambient temperature</b>		
• during operating	°C	-25 ... +70
• during storage	°C	-50 ... +80
<b>Degree of pollution</b>		3
<b>Mechanical operating cycles as operating time / typical</b>		15,000
<b>Electrical endurance (switching cycles)</b>		
• at AC-23 A / at 690 V / at 50/60 Hz		6,000
• at DC-23 A		
• at 220 V		1,500
• at 440 V		1,500
<b>Design of display</b>		
• for switch position indicator door-coupling rotary operating mechanism		ON-OFF
<b>Net weight</b>	g	770
<b>Reference code / according to DIN EN 61346-2</b>		Q
<b>Item designation / according to DIN EN 81346-2</b>		Q

#### Certificates/approvals:

General Product Approval

Declaration of Conformity



#### Further information:

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

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

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD1640-2ME20-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD1640-2ME20-0/all>

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

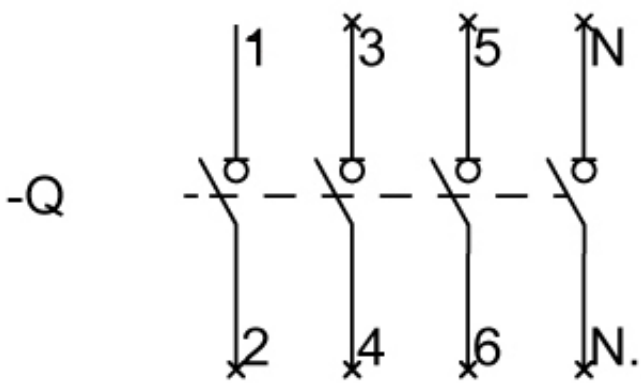
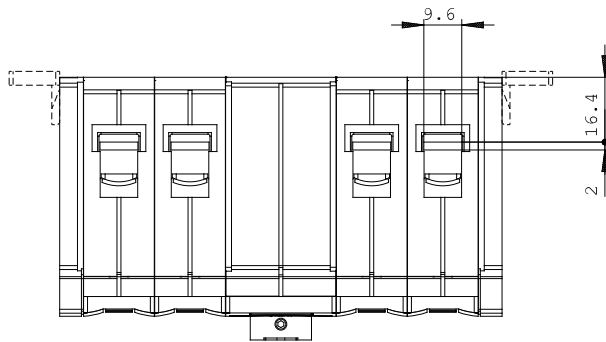
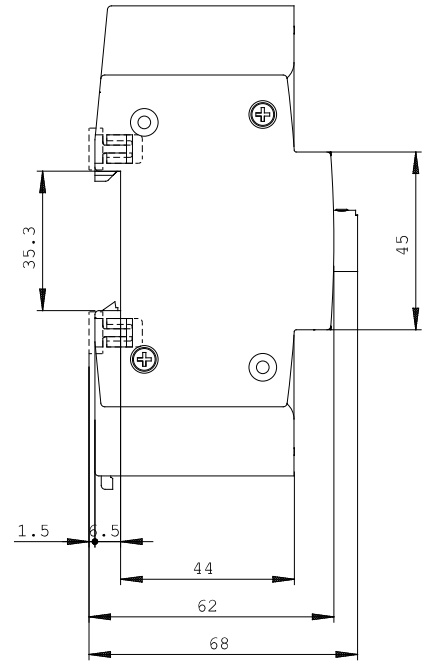
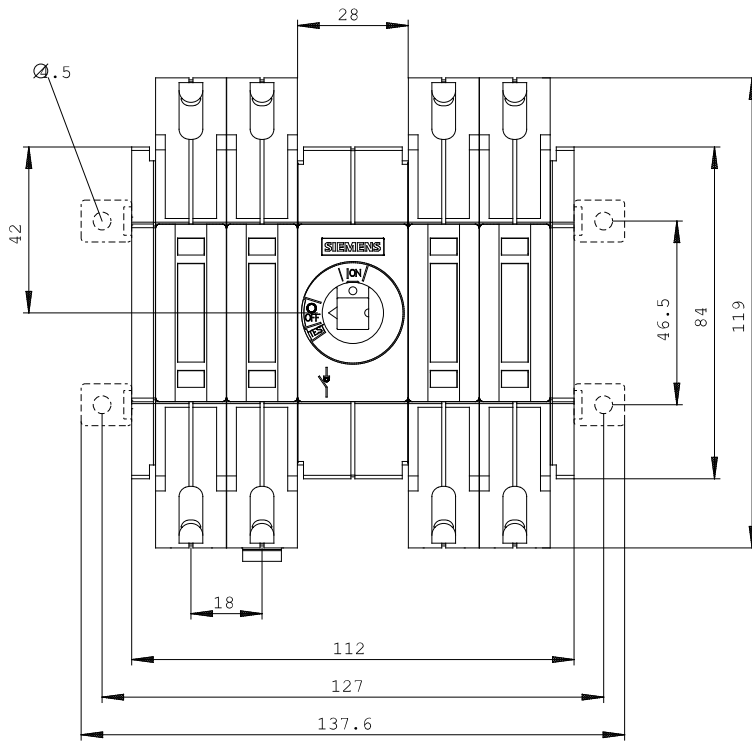
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KD1640-2ME20-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1640-2ME20-0)

**CAX-Online-Generator**

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

**Tender specifications**

[Datanorm GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)



**last change:**

Apr 21, 2014