

SWITCH-DISCONNECTOR 80A, FRAME SIZE 2,  
4-POLE FRONT OPERATING CENTER BASIC UNIT  
WITHOUT HANDLE BOX TERMINAL



Similar to image

General technical details:		
product brand name		SETRON
Product designation		Switching device
Design of the product		3KD Switch Disconnectors
Size of switch disconnector		2
Number of poles		4
Continuous current		
• rated value	A	80
• at 40 °C / rated value	A	80
• at 45 °C / rated value	A	80
• at 50 °C / rated value	A	80
• at 55 °C / rated value	A	80
• at 60 °C / rated value	A	80
• at 65 °C / rated value	A	80
• at 70 °C / rated value	A	80
• at DC / rated value	A	80
Operating current		
• at AC-21 A		
• at 400 V / maximum	A	80

• at 500 V / maximum	A	80
• at 690 V / maximum	A	80
• at AC-22 A		
• at 400 V / at 50/60 Hz / rated value / maximum	A	80
• at 500 V / at 50/60 Hz / rated value / maximum	A	80
• at 690 V / at 50/60 Hz / rated value / maximum	A	80
• at AC-23 A		
• at 400 V / at 50/60 Hz / rated value / maximum	A	80
• at 500 V / at 50/60 Hz / rated value / maximum	A	80
• at 690 V / at 50/60 Hz / rated value / maximum	A	80
<b>Operational voltage</b>		
• at 50/60 Hz / for AC / rated value	V	690
• with 3 current paths in series / with DC / rated value	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>		
• at 400 V / at 50/60 Hz / rated value	kW	37
• at 500 V / at 50/60 Hz / rated value	kW	55
• at 690 V / at 50/60 Hz / rated value	kW	75
<b>I<sup>2</sup>t value / with closed switch</b>		
• for combination switch + fuse		
• at 400 V / maximum	A <sup>2</sup> ·s	135,600
• at 500 V / maximum	A <sup>2</sup> ·s	135,600
• at 690 V		
• for combination switch +gG fuse / maximum	A <sup>2</sup> ·s	178,300
• for combination switch +aM fuse / maximum	A <sup>2</sup> ·s	201,200
<b>Let-through current / with closed switch</b>		
• for combination switch + fuse		
• at 400 V / maximum permissible	A	17,900
• at 500 V / maximum permissible	A	17,900
• at 690 V		
• with combination switch +gG fuse / maximum permissible	A	17,600
• with combination switch +aM fuse / maximum permissible	A	18,700
<b>Short-time current resistance (I<sub>cw</sub>) / limited to 1 s / rated value</b>	kA	4
<b>Making capacity short-circuit current (I<sub>cm</sub>) / for switch disconnecter / without fuse link / rated value / minimum</b>	kA	12
<b>Conditional short-circuit current / with line-side fuse protection</b>		
• at 500 V / by gG fuse / rated value	kA	100
• at 690 V / by gG fuse / rated value	kA	65

Active power loss / with conventional rated thermal current / per pole	W	2
Product equipment / interlock		No
Type of the driving mechanism / motor drive		No
Product extension / optional / motor drive		No
Design of the electrical connection / for main current circuit		Box terminal
Type of connectable conductor cross-sections <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 (2,5 ... 16mm <sup>2</sup> ) 1x (10 ... 70 mm <sup>2</sup> ) 1x (2,5 ... 70mm <sup>2</sup> ) 3x (0,8x14mm <sup>2</sup> )
Number of connected NC contacts / for auxiliary contacts		0
Number of connected NO contacts / for auxiliary contacts		0
Number of connected changeover contacts / for auxiliary contacts		0
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Number of changeover contacts / for auxiliary contacts		4
Acceptability for application / switch disconnecter		Yes
Acceptability for application <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
Design of the operating mechanism		without
Mounting type		Floor mounting and snap-on mounting to 35 mm standard mounting rail
Mounting type / rail mounting		Yes
Mounting type / front mounting with 4-hole attachment		No
Mounting type / front mounting with central attachment		No
Type from device		fixed mounting
mounting position		any
Position / of switch operating mechanism		after the second pole
Design of handle		without
Width	mm	148
Height	mm	126
Depth	mm	68
Protection class IP		IP20

• on the front		IP20
• with closed switch / with cover or cable lug cover		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		1,500
• 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	1,200
<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/3KD2840-2NE20-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD2840-2NE20-0/all>

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

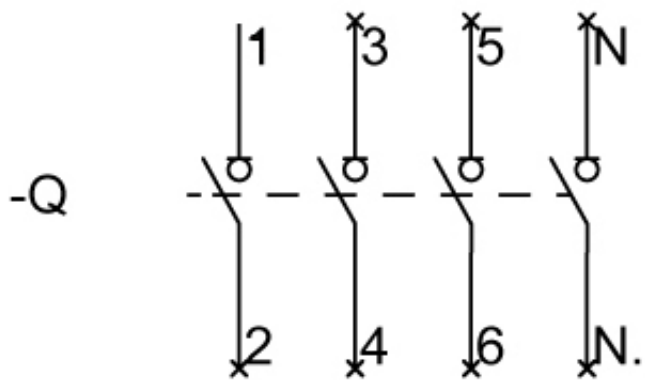
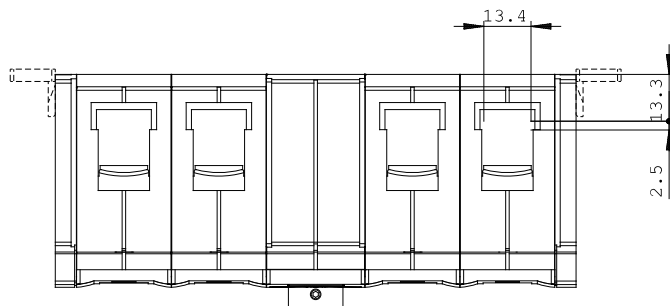
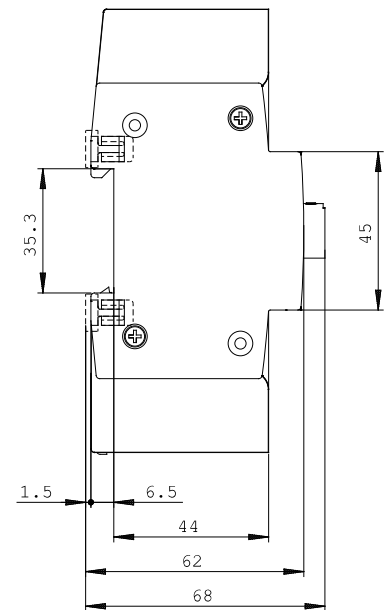
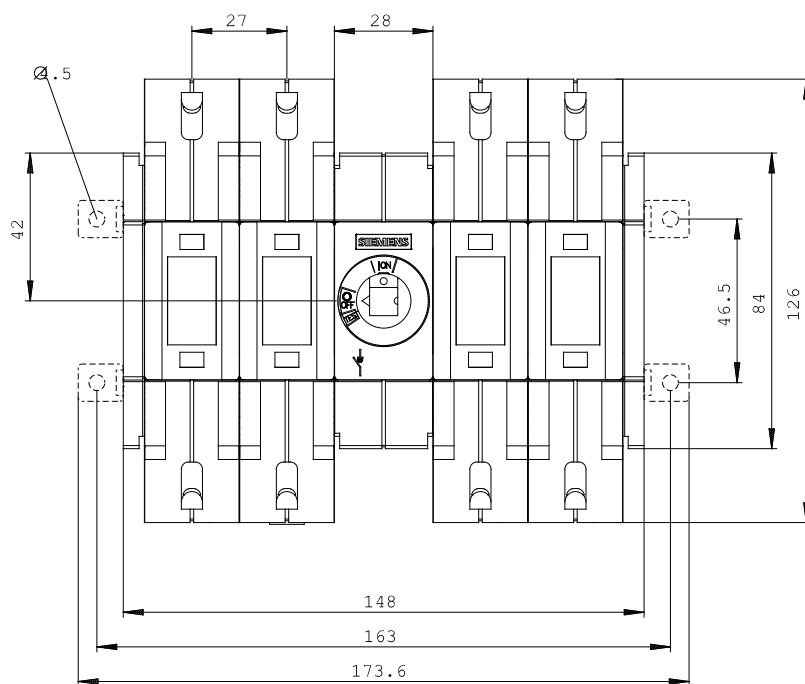
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##### CAX-Online-Generator

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

##### Tender specifications

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



**last change:**

Apr 21, 2014