

Switch disconnecter 80 A, Size 2, 6-pole DC Front operating mechanism center Basic unit without handle flat terminal incl. phase barriers



Model	
Product brand name	SETRON
Product designation	3KD switch disconnecter
Design of the product	DC 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	6
Type of device	fixed mounting
Size of switch disconnecter	2
Electrical endurance (switching cycles)	
• at DC-21 A / at 1000 V	1 500
circuit-breaker / Design	3KD2
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	after the third pole
Overvoltage category	III

Voltage

Operating voltage / with current paths in series	
• with degree of pollution 2 / at DC / rated value / Note	1200 V / 6
• with degree of pollution 3 / at DC / rated value / Note	1000 / 6
Insulation voltage	
• with degree of pollution 2 / at DC / rated value	1 250 V
• with degree of pollution 3 / at DC / rated value	1 000 V
Surge voltage resistance / rated value	8 kV

Protection class

Protection class IP	IP00
Protection class IP	
• with closed switch / with cover or cable lug cover	IP20
• on the front	IP00

Dissipation

Power loss [W]	
• with conventional rated thermal current / per pole	1.1 W
• with conventional rated thermal current / per device	6.6 W
• for rated value of the current / at AC / in hot operating state / per pole	1.1 W

Electricity

Operating current	
• at DC-21 B / at 1200 V / rated value / maximum	80 / 6
Continuous current	
• rated value	80 A
• at 40 °C / rated value	80 A
• at 45 °C / rated value	80 A
• at 50 °C / rated value	80 A
• at 55 °C / rated value	80 A
• at 60 °C / rated value	80 A
• at 65 °C / rated value	80 A
• at 70 °C / rated value	80 A
Continuous current / at DC / rated value	80 A
Short-time current resistance (I _{cw})	
• at DC / at 1200 V / limited to 1 s / rated value	4 kA

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

• 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 _{cm})	
• for switch disconnecter / at 1200 V / without fuse link / rated value / minimum	5.7 kA

Connections

• Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug	1x (10 ... 70 mm ²)
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (25 ... 70 mm ²), 2x (25 ... 50 mm ²)
Type of electrical connection	
• for main current circuit	flat connector

Mechanical Design

Height	168 mm
Width	202 mm
Depth	68 mm
Mounting type	Screw fixing and standard rail mounting 35 mm
Mounting type	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	Yes
Mounting position	any
Net weight	1 300 g

Environmental conditions

Ambient temperature

-25 ... +70 °C

-50 ... +80 °C

Certificates

Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

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



EG-Konf.



LRS

[Miscellaneous](#)

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=3KD2860-0NE20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD2860-0NE20-0>

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

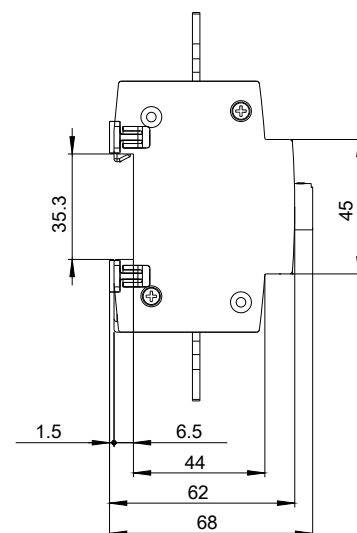
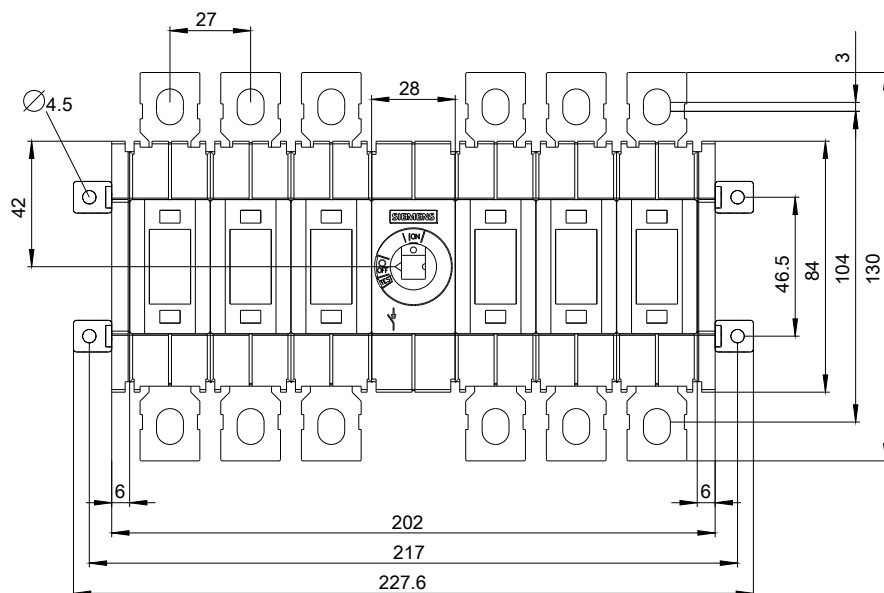
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2860-0NE20-0

CAX-Online-Generator

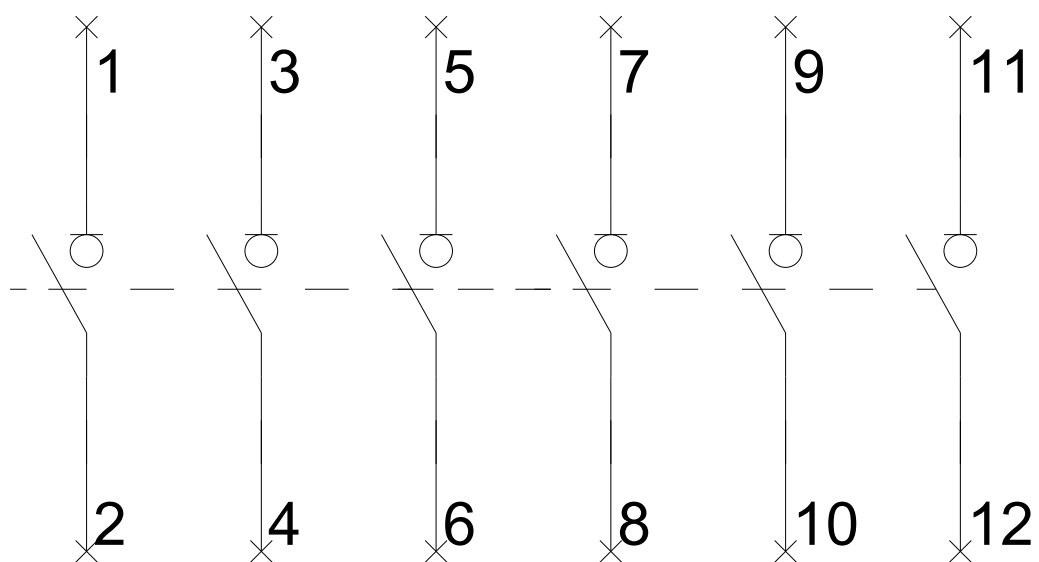
<http://www.siemens.com/cax>

Tender specifications

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



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