

Switch disconnecter 800 A, Size 4, 3-pole Front operating mechanism left Basic unit without handle flat 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	3
Type of device	fixed mounting
Size of switch disconnecter	4
Electrical endurance (switching cycles)	
• at AC-23 A / at 690 V / at 50/60 Hz	500
• at DC-23 A / at 440 V	500
I ² t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	7 471 700 A ² ·s

<ul style="list-style-type: none"> • with closed switch / for combination switch + fuse / at 400 V / maximum 	7 471 700 A ² ·s
<ul style="list-style-type: none"> • with closed switch / at 690 V / for combination switch + gG fuse / maximum 	10 300 000 A ² ·s
<ul style="list-style-type: none"> • of the fuse / at 500 V / maximum permissible 	10 400 005 A ² ·s
circuit-breaker / Design	3KD4
Mechanical service life (switching cycles) / typical	8 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	IV

Voltage

Operating voltage / with current paths in series	
<ul style="list-style-type: none"> • with degree of pollution 2 / at DC / rated value / Note 	440 V / 3
<ul style="list-style-type: none"> • with degree of pollution 3 / at DC / rated value / Note 	440 / 3
Insulation voltage	
<ul style="list-style-type: none"> • rated value 	1 000 V
Surge voltage resistance / rated value	12 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %
Current / at AC / rated value	800 A
Operating voltage	
<ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	690 V

Protection class

Protection class IP	IP00
Protection class IP	
<ul style="list-style-type: none"> • with closed switch / with cover or cable lug cover 	IP20
<ul style="list-style-type: none"> • on the front 	IP00

Dissipation

Power loss [W]	
<ul style="list-style-type: none"> • with conventional rated thermal current / per pole 	25 W
<ul style="list-style-type: none"> • with conventional rated thermal current / per device 	75 W
<ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole 	25 W

Current

Operating current	
<ul style="list-style-type: none"> • at AC-21 A / at 400 V / maximum 	800 A
<ul style="list-style-type: none"> • at AC-21 A / at 500 V / maximum 	800 A
<ul style="list-style-type: none"> • at AC-21 A / at 690 V / maximum 	800 A

<ul style="list-style-type: none"> • at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum 	800 A
<ul style="list-style-type: none"> • at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum 	800 A
<ul style="list-style-type: none"> • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum 	800 A
<ul style="list-style-type: none"> • at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum 	800 A
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum 	800 A
<ul style="list-style-type: none"> • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum 	800 A
<ul style="list-style-type: none"> • at DC-23 A / at 440 V / rated value / maximum 	800 / 3
<ul style="list-style-type: none"> • at DC-23 A / at 220 V / rated value / maximum 	800 / 2
<ul style="list-style-type: none"> • at DC-22 A / at 440 V / rated value / maximum 	800 / 3
<ul style="list-style-type: none"> • at DC-22 A / at 220 V / rated value / maximum 	800 / 2
<ul style="list-style-type: none"> • at DC-21 A / at 440 V / rated value / maximum 	800 / 3
<ul style="list-style-type: none"> • at DC-21 A / at 220 V / maximum 	800 / 2
Continuous current	
<ul style="list-style-type: none"> • rated value 	800 A
<ul style="list-style-type: none"> • at 40 °C / rated value 	800 A
<ul style="list-style-type: none"> • at 45 °C / rated value 	800 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	800 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	800 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	630 A
<ul style="list-style-type: none"> • at 65 °C / rated value 	630 A
<ul style="list-style-type: none"> • at 70 °C / rated value 	630 A
Continuous current / at DC / rated value	800 A
Let-through current / of the fuse / at 500 V / maximum permissible	70 816 A
Let-through current / with closed switch	
<ul style="list-style-type: none"> • at 690 V / for combination switch + gG fuse / maximum permissible 	70 400 A
<ul style="list-style-type: none"> • for combination switch + fuse / at 400 V / maximum permissible 	63 700 A
<ul style="list-style-type: none"> • for combination switch + fuse / at 500 V / maximum permissible 	63 700 A
Short-time current resistance (I _{cw})	
<ul style="list-style-type: none"> • at 690 V AC/440 V DC / limited to 1 s / rated value 	30 kA
Main circuit	
Operating power	
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / at 50/60 Hz / rated value 	400 kW

- at AC-23 A / at 500 V / at 50/60 Hz / rated value 560 kW
- at AC-23 A / at 690 V / at 50/60 Hz / rated value 800 kW

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	0
Number of NC contacts / for auxiliary contacts	8
Number of NO contacts / for auxiliary contacts	8

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 690 V AC/440 V DC / without fuse link / rated value / minimum	63 kA
• for switch disconnecter / without fuse link / rated value / minimum	63 kA
Conditional short-circuit current / with line-side fuse protection	
• at 500 V / by gG fuse / rated value	65 kA

Connections

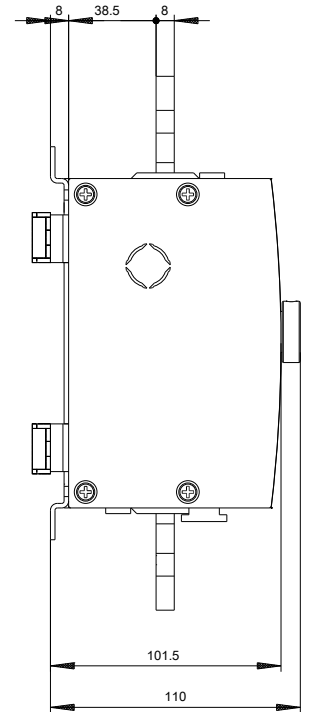
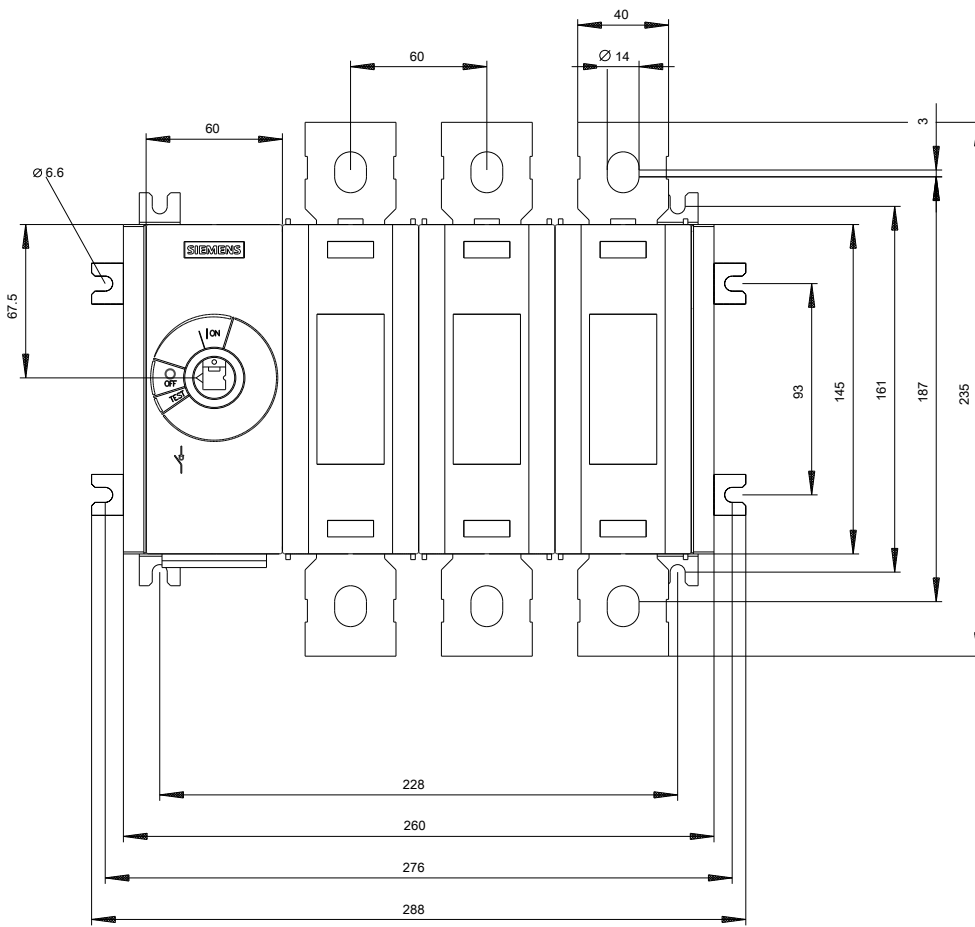
<ul style="list-style-type: none"> Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	<p>1x (25 ... 240 mm²), 2x (25 ... 240 mm²)</p> <p>1x (25 ... 240 mm²), 2x (25 ... 240 mm²)</p>
Type of electrical connection <ul style="list-style-type: none"> for main current circuit 	flat connector

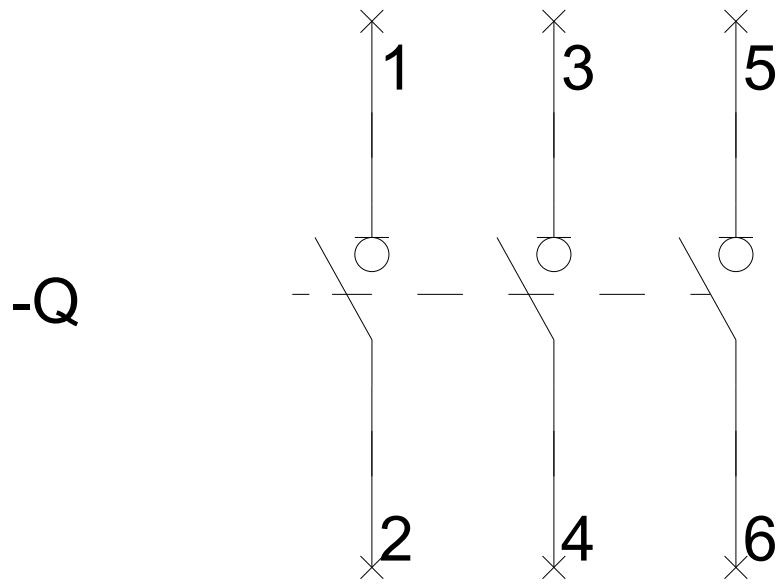
Mechanical Design	
Height	235 mm
Width	260 mm
Depth	110 mm
Mounting type	screw fixing
Mounting type <ul style="list-style-type: none"> front mounting with 4-hole attachment front mounting with central attachment rail mounting 	<p>No</p> <p>No</p> <p>No</p>
Mounting position	any
Net weight <ul style="list-style-type: none"> during operation during storage 	<p>7 300 g</p> <p>-25 ... +70 °C</p> <p>-50 ... +80 °C</p>

Certificates	
Reference code <ul style="list-style-type: none"> acc. to DIN EN 61346-2 acc. to DIN EN 81346-2 	<p>Q</p> <p>Q</p>

General Product Approval	Declaration of Conformity	Shipping Approval	other
 CCC  VDE 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=3KD4830-0QE10-0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KD4830-0QE10-0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4830-0QE10-0
CAX-Online-Generator http://www.siemens.com/cax
Tender specifications http://www.siemens.com/specifications





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