

Switch disconnecter 1000 A, Size 5, 3-pole Front operating mechanism left Basic unit without handle flat terminal



Model	
Product brand name	SETRON
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	5
Electrical endurance (switching cycles)	
• at DC-21 A / at 1000 V	100
• 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	15 400 000 A ² ·s

<ul style="list-style-type: none"> • I_{2t} value / with closed switch / for combination switch + fuse / at 400 V / maximum 	15 400 000 A ² ·s
<ul style="list-style-type: none"> • I_{2t} value / of the fuse / at 500 V / maximum permissible 	19 000 005 A ² ·s
circuit-breaker / Design	3KD5
Mechanical service life (switching cycles) / typical	6 000
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 %

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 	20 W
<ul style="list-style-type: none"> • with conventional rated thermal current / per device 	60 W
<ul style="list-style-type: none"> • for rated value of the current / at AC / in hot operating state / per pole 	20 W

Electricity

Operating current	
<ul style="list-style-type: none"> • at AC-21 A / at 400 V / maximum 	1 000 A
<ul style="list-style-type: none"> • at AC-21 A / at 500 V / maximum 	1 000 A
<ul style="list-style-type: none"> • at AC-21 A / at 690 V / maximum 	1 000 A
<ul style="list-style-type: none"> • at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum 	1 000 A
<ul style="list-style-type: none"> • at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum 	1 000 A

• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	1 000 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	1 000 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	1 000 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	1 000 A
• at DC-21 A / at 750 V / rated value / maximum	1000
• at DC-21 A / at 440 V / rated value / maximum	1000 / 3
• at DC-21 A / at 220 V / maximum	1000 / 2
• at DC-21 B / at 750 V / rated value / maximum	1000
Current / at AC / rated value	1 000 A
Continuous current	
• rated value	1 000 A
• at 40 °C / rated value	1 000 A
• at 45 °C / rated value	1 000 A
• at 50 °C / rated value	1 000 A
• at 55 °C / rated value	1 000 A
• at 60 °C / rated value	1 000 A
• at 65 °C / rated value	1 000 A
• at 70 °C / rated value	1 000 A
Continuous current / at DC / rated value	1 000 A
Let-through current / of the fuse / at 500 V / maximum permissible	95 216 A
Let-through current / with closed switch	
• for combination switch + fuse / at 400 V / maximum permissible	95 900 A
• for combination switch + fuse / at 500 V / maximum permissible	95 900 A
Short-time current resistance (I _{cw})	
• at 690 V AC/440 V DC / limited to 1 s / rated value	50 kA

Main circuit

Operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	560 kW
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	710 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	1 000 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V

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	105 kA
• for switch disconnecter / without fuse link / rated value / minimum	105 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 aluminum conductor / stranded / with lug	1x (120 ... 300 mm²), 2x (95 ... 300 mm²)
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<ul style="list-style-type: none"> Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	1x (120 ... 240 mm ²), 2x (95 ... 240 mm ²)
Type of electrical connection <ul style="list-style-type: none"> for main current circuit 	flat connector
Mechanical Design	
Height	310 mm
Width	360 mm
Depth	152.5 mm
Mounting position	any
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 	No No No
Net weight	15 700 g
Environmental conditions	
Degree of pollution	3
Ambient temperature <ul style="list-style-type: none"> during operation / minimum during operation / maximum during storage / minimum during storage / maximum 	-25 °C 70 °C -50 °C 80 °C
Certificates	
Reference code <ul style="list-style-type: none"> acc. to DIN EN 61346-2 acc. to DIN EN 81346-2 	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 Ap-
proval

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=3KD5030-0RE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD5030-0RE10-0>

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

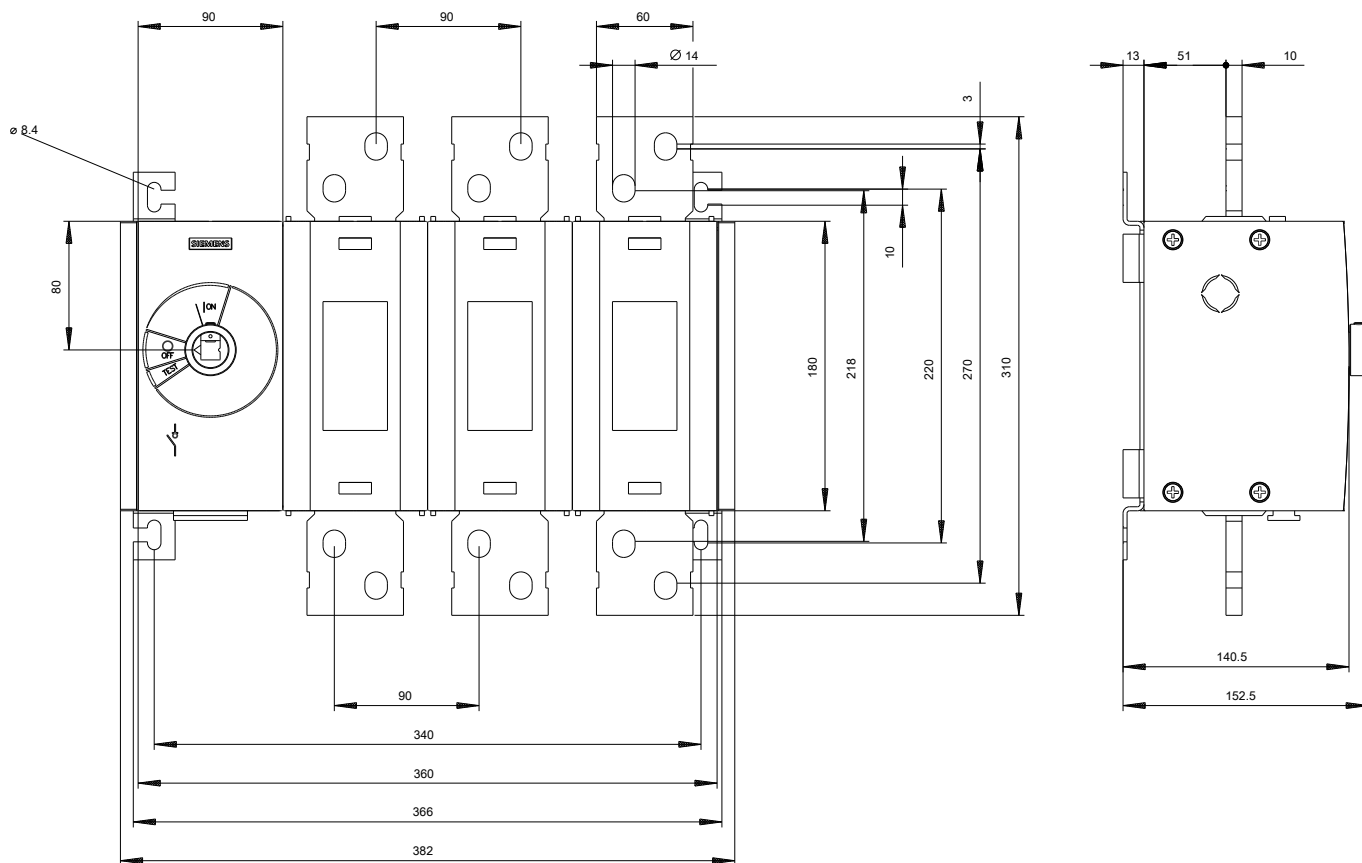
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5030-0RE10-0

CAX-Online-Generator

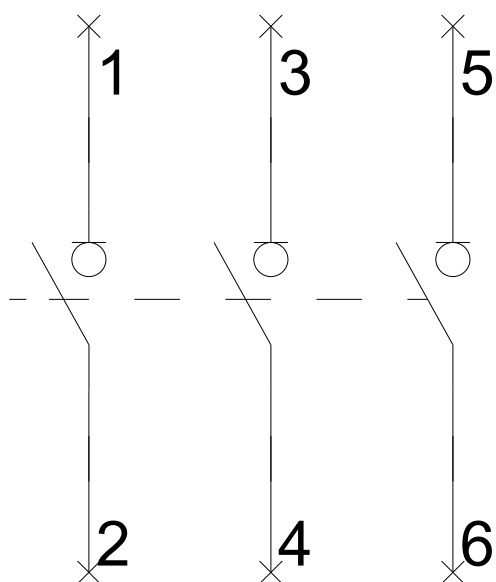
<http://www.siemens.com/cax>

Tender specifications

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



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