

Switch disconnecter 250 A, Size 3, 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 actuating element	Without handle
type of the driving mechanism	Front operating mechanism
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
type of device	fixed mounting
size of switch disconnecter	3
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	1 000
• at DC-23 A / at 440 V	1 000
I ² t value	
• with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum	239 650 A ² ·s
• of the fuse / at 500 V / maximum permissible	780 005 A ² ·s
• of the gG fuse / at 690 V / maximum permissible	525 005 A ² ·s
• of the gG/aM SITOR fuse / at 1000 V / maximum permissible	260 000 A ² ·s
• of the molded case circuit breaker / at 415 V / maximum permissible	4 750 000 A ² ·s
position / of the switch operating mechanism	at the left end
overvoltage in percent / relative to the operating voltage / at AC / at 400, 500, 690 V / at 50/60 Hz	10 %
overvoltage category	IV
degree of pollution	3
Voltage	
operating voltage / with current paths in series	
• with degree of pollution 2 / at DC / rated value	440 V / 3
• with degree of pollution 3 / at DC / rated value	440 V / 3
insulation voltage	
• rated value	1 000 V
surge voltage resistance / rated value	12 kV
Protection class	
protection class IP	IP00

protection class IP	
<ul style="list-style-type: none"> with closed switch / with cover or cable lug cover on the front 	IP20 IP00
Dissipation	
power loss [W]	
<ul style="list-style-type: none"> with conventional rated thermal current / per pole with conventional rated thermal current / per device for rated value of the current / at AC / in hot operating state / per pole 	6 W 18 W 6 W
Current	
operational current	
<ul style="list-style-type: none"> at 35 °C / rated value at 40 °C / rated value at 45 °C / rated value at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value at AC / rated value at AC-23 A / at 690 V / rated value at AC-23 A / at 500 V / rated value at AC-23 A / at 400 V / rated value at AC-22 A / at 1000 V / maximum at AC-22 A / at 690 V / rated value at AC-22 A / at 500 V / rated value at AC-22 A / at 400 V / rated value at AC-20 A / at 1000 V / maximum at AC-21 A / at 500 V / rated value at AC-21 A / at 690 V / rated value at DC-20 A / at 1000 V / maximum at DC-23 A / at 440 V / rated value / note at DC-23 A / at 220 V / rated value / note at DC-22 A / at 440 V / rated value / note at DC-22 A / at 220 V / rated value / note at DC-21 A / at 440 V / rated value / note at DC-21 A / at 220 V / rated value at DC-21 B / at 750 V / rated value / maximum 	250 A / 1 250 A / 3 250 A / 2 250 A / 3 250 A / 2 250 A / 3 250 A / 2 250 A / 3
continuous current / of upstream fuse / at 500 V and 690 V / rated value	500 A
continuous current / of upstream fuse / at 1000 V / rated value	500 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	630 A
operational current / at DC / rated value	250 A
let-through current / of the fuse / at 500 V / maximum permissible	54 800 A
let-through current / of the gG fuse / at 690 V / maximum permissible	45 200 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	21 500 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	43 500 A
Main circuit	
operating power	
<ul style="list-style-type: none"> at AC-23 A / at 500 V / rated value 	160 kW
operational current / rated value	250 A
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	6
number of NO contacts / for auxiliary contacts	6
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
product extension / optional	
• motor drive	No
• voltage trigger	No
Short circuit	
short-time withstand current (I _{cw}) / at 1000 V AC/440 V DC / limited to 1 s / rated value	13 kA
short-circuit current making capacity (I _{cm}) / for switch disconnecter	
• at 1000 V AC / without fuse link / rated value / minimum	36 kA
• at DC 440 V / without fuse link / rated value / minimum	36 kA
• without fuse link / rated value / minimum	36 kA
conditional short-circuit current / with line-side fuse protection	
• at 415 V / by molded case circuit breaker / rated value	65 kA
• at 500 V / by gG fuse / rated value	100 kA
• at 690 V / by gG fuse / rated value	100 kA
Connections	
type of connectable conductor cross-sections / for aluminum conductor	
• stranded / with lug	1x (25 ... 240 mm ²), 2x (25 ... 120 mm ²)
type of connectable conductor cross-sections	
• for copper busbar	1 x (30 x 10 mm ²)
type of connectable conductor cross-sections / for copper conductor	
• stranded / with lug / acc. to DIN 46235	1x (16 ... 185 mm ²), 2x (16 ... 150 mm ²)
type of electrical connection / for main current circuit	flat connector
Mechanical Design	
height	164 mm
width	190 mm
depth	93.5 mm
fastening method	screw fixing
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
mounting position	any
net weight	2 897 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C

<ul style="list-style-type: none"> • maximum 	70 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	-50 °C 80 °C
General Product Approval	
Declaration of Conformity	



Miscellaneous



[UK Declaration of Conformity](#)



Marine / Shipping	other
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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?mfib=3KD3830-0PE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3830-0PE10-0>

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

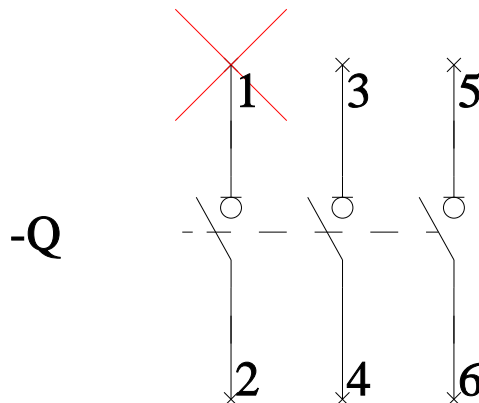
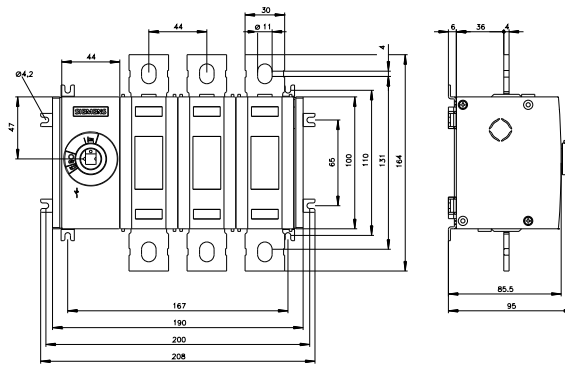
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfib=3KD3830-0PE10-0

CAX-Online-Generator

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

Tender specifications

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



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