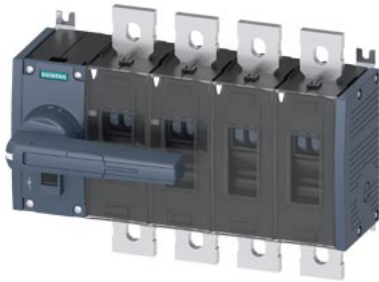


Switch disconnecter 800 A, Size 4, 4-pole Front operating mechanism left
Complete unit with direct operating mechanism gray flat terminal



Model	
product brand name	SENTRON
product designation	3KD switch disconnecter
design of the product	Switch
display version / for switch position indicator manual operation	ON-OFF-TEST
design of the actuating element	Long rotary knob
type of the driving mechanism	Front operating mechanism
type of the driving mechanism / motor drive	No
General technical data	
number of poles	4
type of device	fixed mounting
size of switch disconnecter	4
mechanical service life (switching cycles) / typical	8 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	500
• at DC-23 A / at 440 V	500
I ² t value	
• with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum	647 250 A ² ·s
• of the fuse / at 500 V / maximum permissible	10 400 005 A ² ·s
• of the gG/aM SITOR fuse / at 1000 V / maximum permissible	520 000 A ² ·s
• of the molded case circuit breaker / at 415 V / maximum permissible	16 000 000 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 	25 W
<ul style="list-style-type: none"> with conventional rated thermal current / per device 	100 W
<ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole 	25 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 	800 A 800 A 800 A 800 A 800 A 630 A 630 A 630 A 800 A 800 A 800 A 800 A 800 A 800 A 800 A 800 A 800 A 800 A 800 A
continuous current / of upstream fuse / at 500 V and 690 V / rated value	1 000 A
continuous current / of upstream fuse / at 1000 V / rated value	1 000 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	1 000 A
operational current / at DC / rated value	800 A
let-through current / of the fuse / at 500 V / maximum permissible	118 000 A
let-through current / of the gG fuse / at 690 V / maximum permissible	90 600 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	43 000 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	72 500 A
Main circuit	
operating power	
<ul style="list-style-type: none"> at AC-23 A / at 500 V / rated value 	560 kW
operational current / rated value	800 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	8
number of NO contacts / for auxiliary contacts	8
Suitability	
suitability for use	
<ul style="list-style-type: none"> main switch switch disconnecter EMERGENCY OFF switch safety switch 	Yes Yes No Yes

<ul style="list-style-type: none"> • maintenance/repair switch 	Yes
Product details	
product component	
<ul style="list-style-type: none"> • trip indicator 	No
<ul style="list-style-type: none"> • voltage trigger 	No
<ul style="list-style-type: none"> • undervoltage release 	No
<ul style="list-style-type: none"> • undervoltage release with leading contact 	No
product extension / auxiliary switch	Yes
product extension / optional	
<ul style="list-style-type: none"> • motor drive 	No
<ul style="list-style-type: none"> • voltage trigger 	No
Short circuit	
short-time withstand current (I _{cw}) / at 1000 V AC/440 V DC / limited to 1 s / rated value	30 kA
short-circuit current making capacity (I _{cm}) / for switch disconnector	
<ul style="list-style-type: none"> • at 1000 V AC / without fuse link / rated value / minimum 	80 kA
<ul style="list-style-type: none"> • at DC 440 V / without fuse link / rated value / minimum 	42.6 kA
<ul style="list-style-type: none"> • without fuse link / rated value / minimum 	80 kA
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> • at 415 V / by molded case circuit breaker / rated value 	65 kA
<ul style="list-style-type: none"> • at 500 V / by gG fuse / rated value 	100 kA
<ul style="list-style-type: none"> • at 690 V / by gG fuse / rated value 	100 kA
Connections	
type of connectable conductor cross-sections / for aluminum conductor	
<ul style="list-style-type: none"> • stranded / with lug 	1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • with combination of Al conductor+switch 	620A / 2x 240 mm ²
<ul style="list-style-type: none"> • for copper busbar 	1 x (40 x 10 mm ²), 2 x (40 x 5 mm ²)
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> • stranded / with lug / according to DIN 46234 	1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
<ul style="list-style-type: none"> • stranded / with lug / according to DIN 46235 	1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
type of electrical connection / for main current circuit	flat connector
Mechanical Design	
height	235 mm
width	320 mm
depth	166.5 mm
fastening method	screw fixing
fastening method	
<ul style="list-style-type: none"> • 4-hole front mounting 	No
<ul style="list-style-type: none"> • front mounting with central attachment 	No
<ul style="list-style-type: none"> • rail mounting 	No
mounting position	any
net weight	9 340 g
Environmental conditions	
ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum 	-25 °C
<ul style="list-style-type: none"> • maximum 	70 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum 	-50 °C
<ul style="list-style-type: none"> • maximum 	80 °C
Certificates	
reference code / according to IEC 81346-2	Q
General Product Approval	Declaration of Conformity

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity	Marine / Shipping	other
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[Miscellaneous](#)

[Environmental Confirmations](#)

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=3KD4842-0QE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4842-0QE10-0>

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

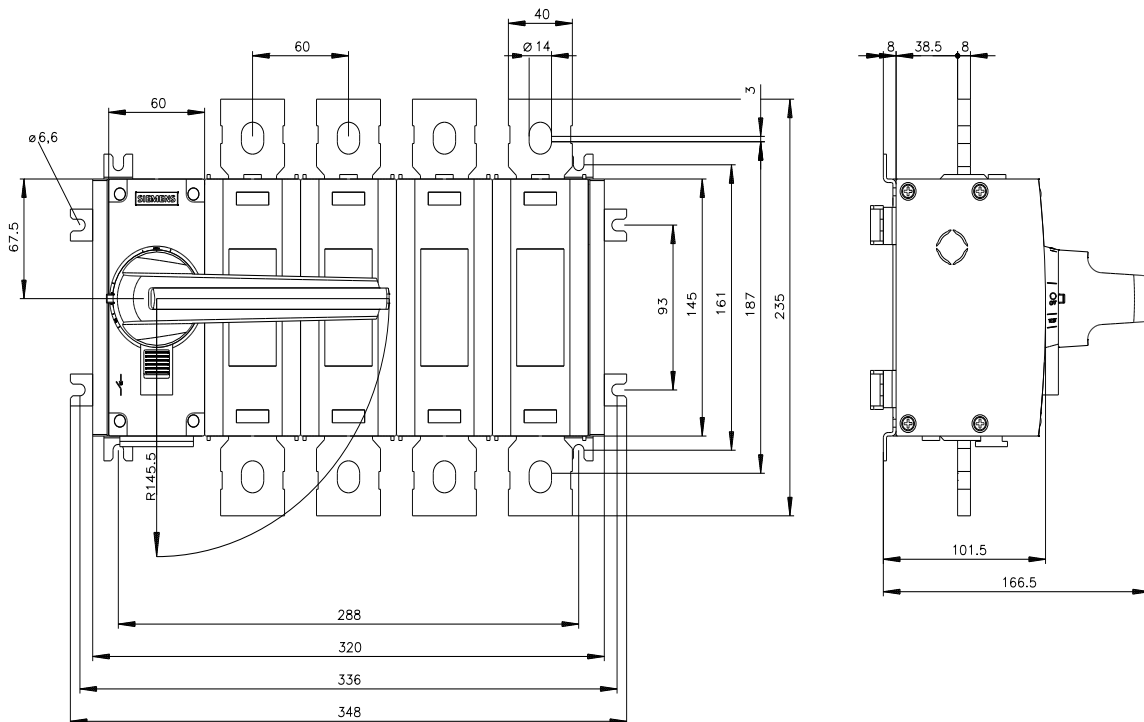
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4842-0QE10-0

CAX-Online-Generator

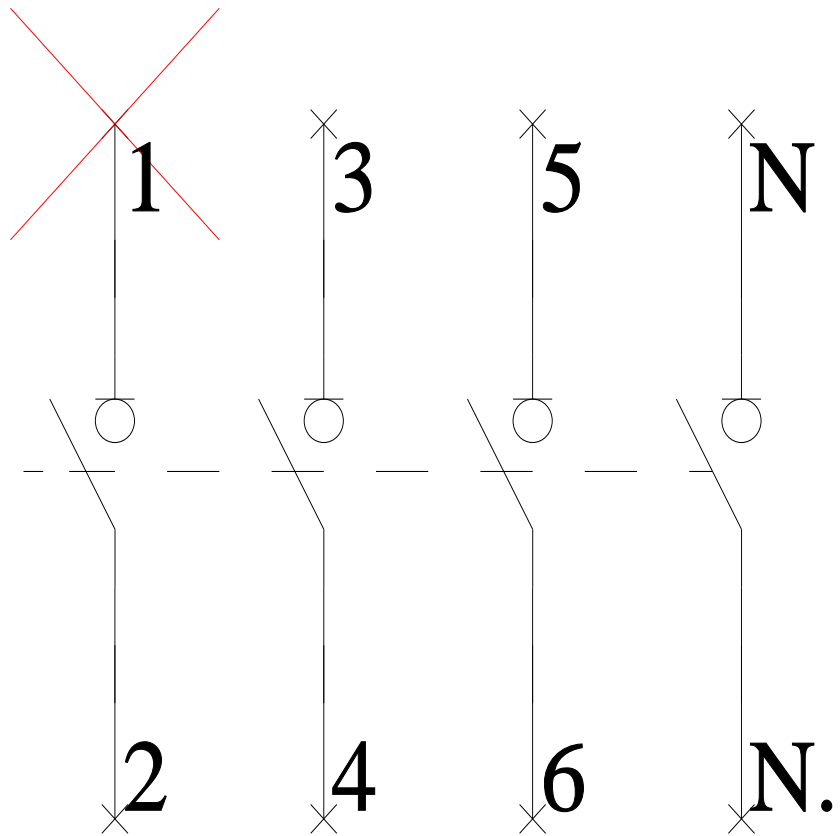
<http://www.siemens.com/cax>

Tender specifications

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



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