



Switch disconnecter 800 A, Size 4, 3-pole Front operating mechanism center 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	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	after the first pole
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	
• 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	25 W
with conventional rated thermal current per device	75 W
for rated value of the current at AC in hot operating state per pole	25 W
Current	
operational current	
at 35 °C rated value	800 A
at 40 °C rated value	800 A
at 45 °C rated value	800 A
at 50 °C rated value	800 A
at 55 °C rated value	800 A
at 60 °C rated value	630 A
at 65 °C rated value	630 A
at 70 °C rated value	630 A
at AC rated value	800 A
at AC-23 A at 690 V rated value	800 A
at AC-23 A at 500 V rated value	800 A
at AC-23 A at 400 V rated value	800 A
at AC-22 A at 1000 V maximum	800 A
at AC-22 A at 690 V rated value	800 A
at AC-22 A at 500 V rated value	800 A
at AC-22 A at 400 V rated value	800 A
at AC-20 A at 1000 V maximum	800 A
at AC-21 A at 500 V rated value	800 A
at AC-21 A at 690 V rated value	800 A
at DC-20 A at 1000 V maximum	800 A / 1
at DC-23 A at 440 V rated value note	800 A / 3
at DC-23 A at 220 V rated value note	800 A / 2
at DC-22 A at 440 V rated value note	800 A / 3
at DC-22 A at 220 V rated value note	800 A / 2
at DC-21 A at 440 V rated value note	800 A / 3
at DC-21 A at 220 V rated value	800 A / 2
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	
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	
main switch	Yes
switch disconnecter	Yes
EMERGENCY OFF switch	Yes

• safety switch • maintenance/repair switch	Yes Yes
Product details	
product component	
• trip indicator • voltage trigger • undervoltage release • undervoltage release with leading contact	No No No No
product extension auxiliary switch	Yes
product extension optional	
• motor drive • voltage trigger	No 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	
• at 1000 V AC without fuse link rated value minimum • at DC 440 V without fuse link rated value minimum • without fuse link rated value minimum	80 kA 42.6 kA 80 kA
conditional short-circuit current with line-side fuse protection	
• at 415 V by molded case circuit breaker rated value • at 500 V by gG fuse rated value • at 690 V by gG fuse rated value	65 kA 100 kA 100 kA
Connections	
type of connectable conductor cross-sections for aluminum conductor	
• stranded with lug	1x (25 ... 240 mm²), 2x (25 ... 240 mm²)
type of connectable conductor cross-sections	
• with combination of Al conductor+switch • for copper busbar	620A / 2x 240 mm² '1 x (40 x 10 mm²), 2 x (40 x 5 mm²)
type of connectable conductor cross-sections for copper conductor	
• stranded with lug according to DIN 46234 • stranded with lug according to DIN 46235	1x (25 ... 240 mm²), 2x (25 ... 240 mm²) 1x (25 ... 240 mm²), 2x (25 ... 240 mm²)
type of electrical connection for main current circuit	flat connector
Mechanical Design	
height	235 mm
width	260 mm
depth	110 mm
fastening method	screw fixing
fastening method	
• 4-hole front mounting • front mounting with central attachment • rail mounting	No No No
mounting position	any
net weight	7 440 g
Environmental conditions	
ambient temperature during operation	
• minimum • maximum	-25 °C 70 °C
ambient temperature during storage	
• minimum • maximum	-50 °C 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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EG-Konf.



LRS



[Miscellaneous](#)

[Environmental Conformations](#)

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=3KD4830-0QE20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD4830-0QE20-0>

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

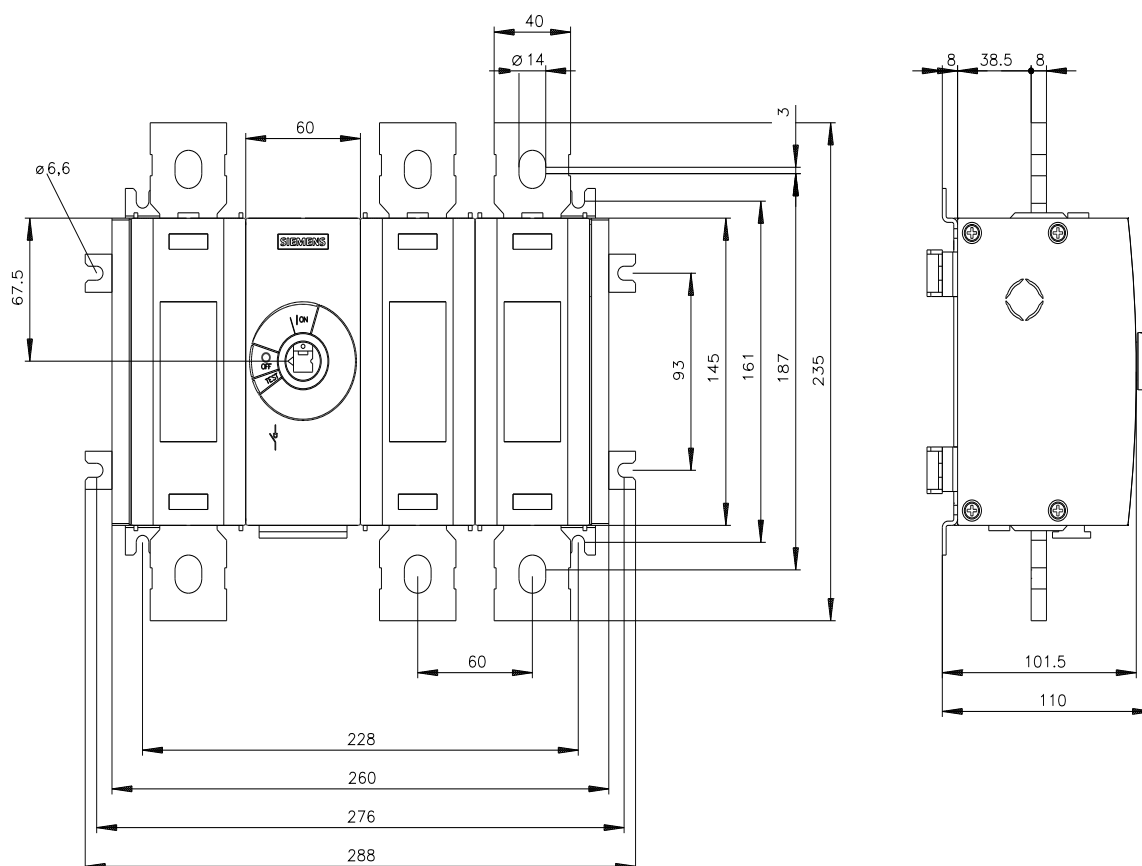
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4830-0QE20-0

CAX-Online-Generator

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

Tender specifications

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



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