



SWITCH-DISCONNECTOR 250A, FRAME SIZE 2, 3-POLE FRONT OPERATING CENTER BASIC UNIT WITHOUT HANDLE FLAT TERMINAL INCL. PHASE BARRIERS

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	2
mechanical service life (operating cycles) typical	15 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	1 500
• 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	19 815 A ² ·s
• of the fuse at 500 V maximum permissible	780 000 A ² ·s
• of the gG fuse at 690 V maximum permissible	525 000 A ² ·s
• of the aM fuse at 690 V maximum permissible	565 000 A ² ·s
• of the gG/aM SITOR fuse at 1000 V maximum permissible	48 000 A ² ·s
• of the molded case circuit breaker at 415 V maximum permissible	1 750 000 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	III
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	8 kV
operational current at AC-22 A at 1000 V maximum	200 A
let-through current of the fuse at 500 V maximum permissible	25 700 A

let-through current of the gG fuse at 690 V maximum permissible	29 500 A
Supply voltage	
operating voltage at AC rated value	1 000 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 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 	8.2 W 24.6 W 8.2 W
Main circuit	
operating power	
<ul style="list-style-type: none"> at AC-23 A at 500 V rated value 	110 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	4
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use main switch	Yes
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use according to IEC 62626-1 safety switch	No
suitability for use maintenance/repair switch	Yes
Product details	
product feature interlock	No
product component	
<ul style="list-style-type: none"> 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	No
product extension optional voltage trigger	No
Short circuit	
short-time withstand current (I_{cw}) at 1000 V AC/440 V DC limited to 1 s rated value	4 kA
short-circuit current making capacity (I_{cm}) for switch disconnecter	
<ul style="list-style-type: none"> at 400 V AC without fuse link rated value minimum at 1000 V AC without fuse link rated value minimum at DC 440 V without fuse link rated value minimum 	30 kA 12 kA 12 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 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	
<ul style="list-style-type: none"> stranded with lug 	1x (10 ... 70 mm ²)
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> with combination of Al conductor+switch 	130A / 70 mm ²

• for copper busbar	1x (20x4 mm ²)
type of electrical connection for main current circuit	flat connector

Mechanical Design

height	168 mm
width	121 mm
depth	68 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	Yes
mounting position	any
Net Weight	1.013 kg

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

Certificates

reference code according to IEC 81346-2	Q
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Approvals Certificates

General Product Approval



[Miscellaneous](#)



Test Certificates	Maritime application	other	Environment
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

Environment

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3KD3830-0NE20-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3830-0NE20-0>

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

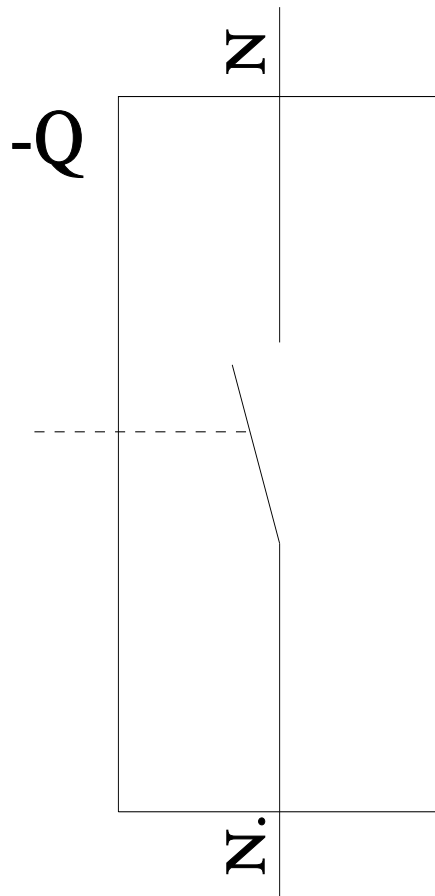
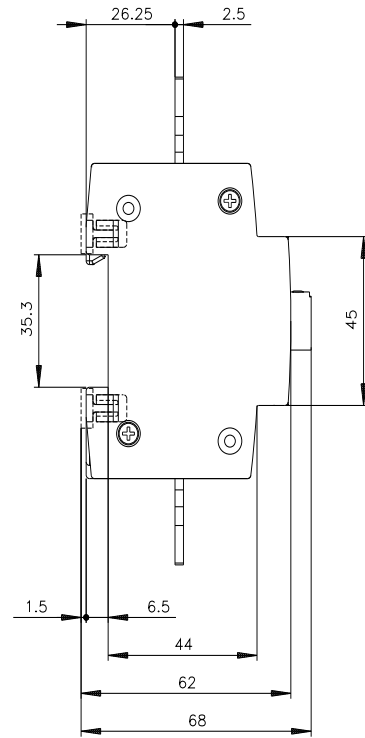
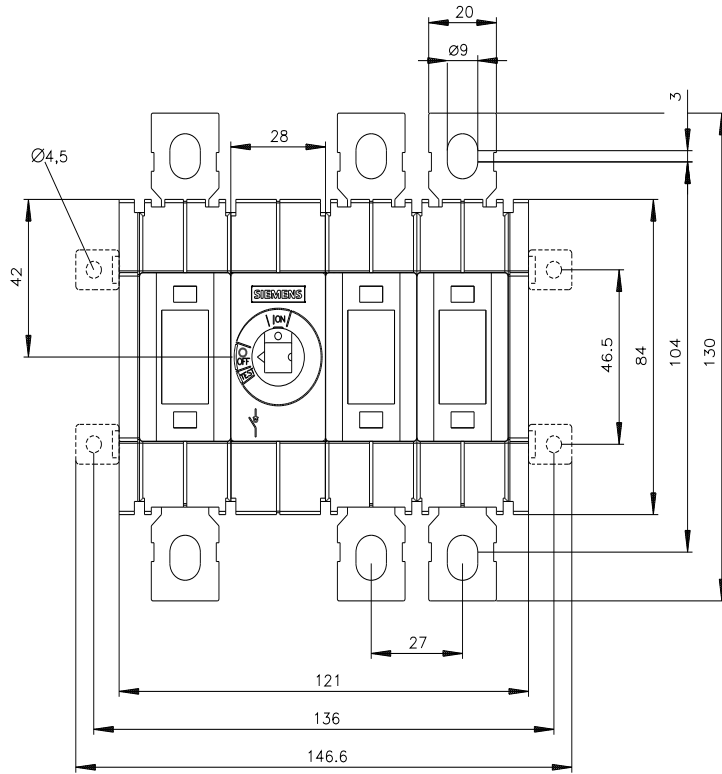
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3830-0NE20-0

CAX-Online-Generator

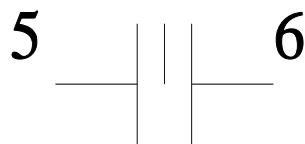
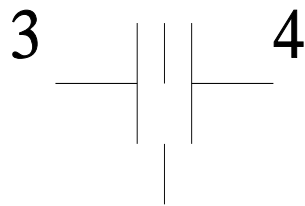
<http://www.siemens.com/cax>

Tender specifications

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



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