



SWITCH-DISCONNECTOR 250A, FRAME SIZE 2, 4-POLE FRONT
OPERATING LEFT 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	ON-OFF
rotary operating mechanism	
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	4
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	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	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
Protection class	
protection class IP	IP00
protection class IP	

- with closed switch with cover or cable lug cover
- on the front

IP20
IP00

Dissipation

power loss [W]

- with conventional rated thermal current per pole 8.2 W
- with conventional rated thermal current per device 32.8 W
- for rated value of the current at AC in hot operating state per pole 8.2 W

Current

operational current

- at 35 °C rated value 250 A
- at 40 °C rated value 250 A
- at 45 °C rated value 250 A
- at 50 °C rated value 250 A
- at 55 °C rated value 250 A
- at 60 °C rated value 238 A
- at 65 °C rated value 225 A
- at 70 °C rated value 213 A
- at AC rated value 250 A
- at AC-23 A at 690 V rated value 160 A
- at AC-23 A at 500 V rated value 160 A
- at AC-23 A at 400 V rated value 160 A
- at AC-22 A at 1000 V maximum 200 A
- at AC-22 A at 690 V rated value 200 A
- at AC-22 A at 500 V rated value 200 A
- at AC-22 A at 400 V rated value 250 A
- at AC-20 A at 1000 V maximum 200 A
- at AC-21 A at 500 V rated value 200 A
- at AC-21 A at 690 V rated value 200 A
- at DC-20 A at 1000 V maximum 250 A / 1

continuous current of upstream fuse at 500 V and 690 V rated value 250 A

continuous current of upstream fuse at 1000 V rated value 250 A

continuous current of upstream molded case circuit breaker at 415 V rated value 200 A

operational current at DC rated value 250 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

let-through current of the aM fuse at 690 V maximum permissible 32 900 A

let-through current of the gG/aM SITOR fuse at 1000 V maximum permissible 12 500 A

let-through current of the molded case circuit breaker at 415 V maximum permissible 28 000 A

short-time withstand current (I_{cw})

- at 400 V AC limited to 0.15 s rated value 15 kA

Main circuit

operating power

- 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
- 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	4 kA
short-circuit current making capacity (I _{cm}) for switch disconnector	
• 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	
• 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 (10 ... 70 mm ²)
type of connectable conductor cross-sections	
• with combination of Al conductor+switch • for copper busbar	130A / 70 mm ² 1x (20x4 mm ²)
type of electrical connection for main current circuit	flat connector
Mechanical Design	
height	168 mm
width	148 mm
depth	68 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
• 4-hole front mounting • front mounting with central attachment • rail mounting	No No Yes
mounting position	any
net weight	1 311 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 Marine / Shipping other



Further information

Information on the packaging

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

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=3KD3840-0NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3840-0NE10-0>

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

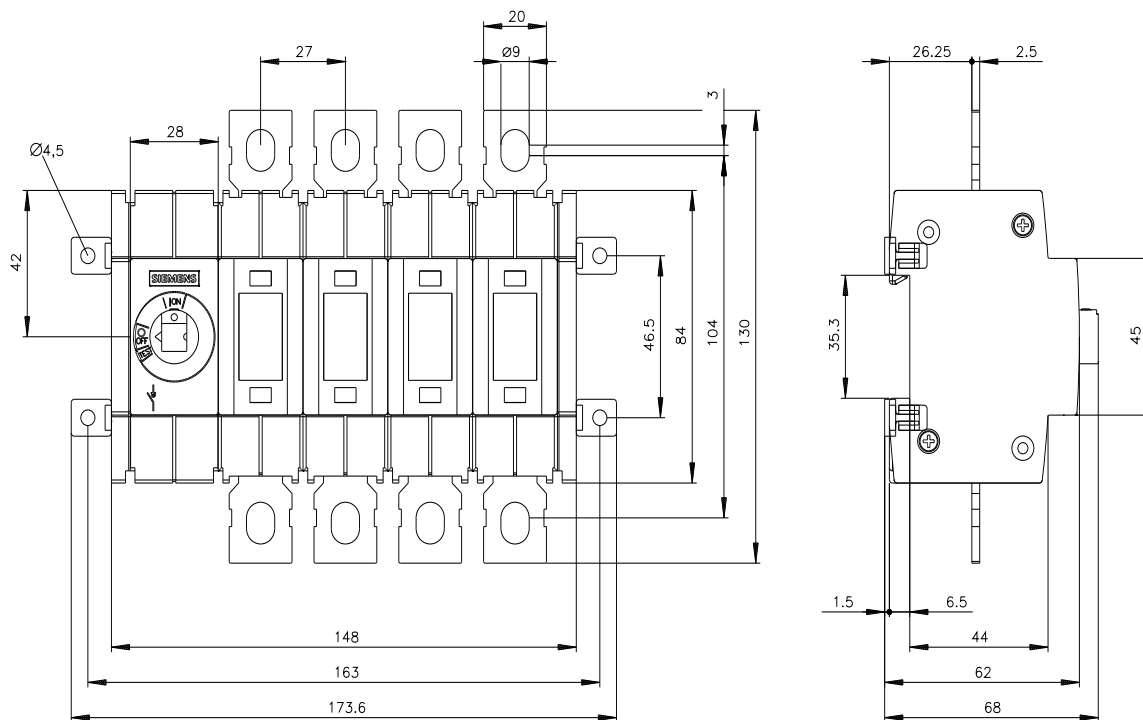
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3840-0NE10-0

CAx-Online-Generator

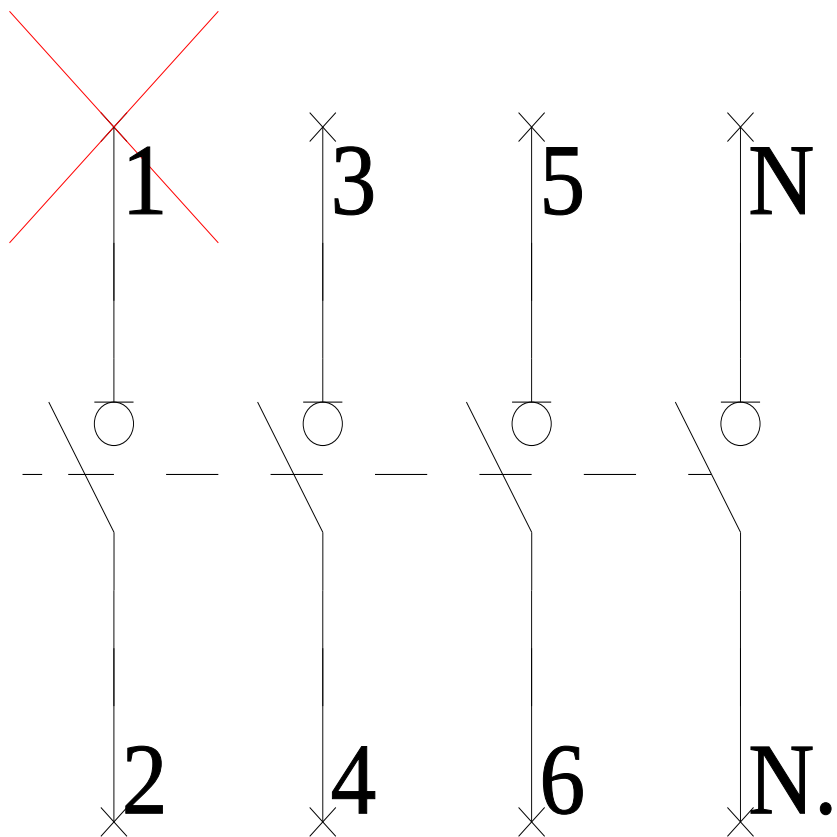
<http://www.siemens.com/cax>

Tender specifications

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



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