

Switch disconnecter 160 A, Size 2, 4-pole Front operating mechanism 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 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	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	223 005 A ² ·s
• of the gG fuse at 690 V maximum permissible	226 005 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	IP20

- on the front

IP00

Dissipation

power loss [W]

- 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

4.6 W
18.4 W
4.6 W

Main circuit

operating power

- at AC-23 A at 500 V rated value

operational current rated value

110 kW
160 A

Auxiliary circuit

number of connected NC contacts for auxiliary contacts
number of connected NO contacts for auxiliary contacts
number of connected CO contacts for auxiliary contacts
number of CO contacts for auxiliary contacts
number of NC contacts for auxiliary contacts
number of NO contacts for auxiliary contacts

0
0
0
4
0
0

Suitability

suitability for use

- main switch
- switch disconnecter
- EMERGENCY OFF switch
- safety switch
- maintenance/repair switch

Yes
Yes
Yes
Yes
Yes

Product details

product component

- trip indicator
- voltage trigger
- undervoltage release
- undervoltage release with leading contact

product extension auxiliary switch

product extension optional

- motor drive
- voltage trigger

No
No
No
No
Yes
No
No

Short circuit

short-time withstand current (I_{cw}) at 1000 V AC/440 V DC limited to 1 s rated value

short-circuit current making capacity (I_{cm}) for switch disconnecter

- 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
- without fuse link rated value minimum

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

4 kA
30 kA
12 kA
12 kA
12 kA
65 kA
100 kA
100 kA

Connections

type of connectable conductor cross-sections for aluminum conductor

- stranded with lug

type of connectable conductor cross-sections

- with combination of Al conductor+switch
- for copper busbar

type of connectable conductor cross-sections for copper conductor

- stranded with lug according to DIN 46234
- stranded with lug according to DIN 46235

type of electrical connection for main current circuit

1x (10 ... 70 mm²)
130A / 70 mm²
'1x (20x3 mm²)
1x (2.5 ... 95 mm²), 2x (25 ... 50 mm²)
1x (25 ... 70 mm²), 2x (25 ... 50 mm²)
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	No
• front mounting with central attachment	No
• rail mounting	Yes
mounting position	any
net weight	1 313 g

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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General Product Approval	Declaration of Conformity
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[Confirmation](#)



[Miscellaneous](#)



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

[Miscellaneous](#)

[Environmental Confirmations](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3KD3440-0NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3440-0NE10-0>

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

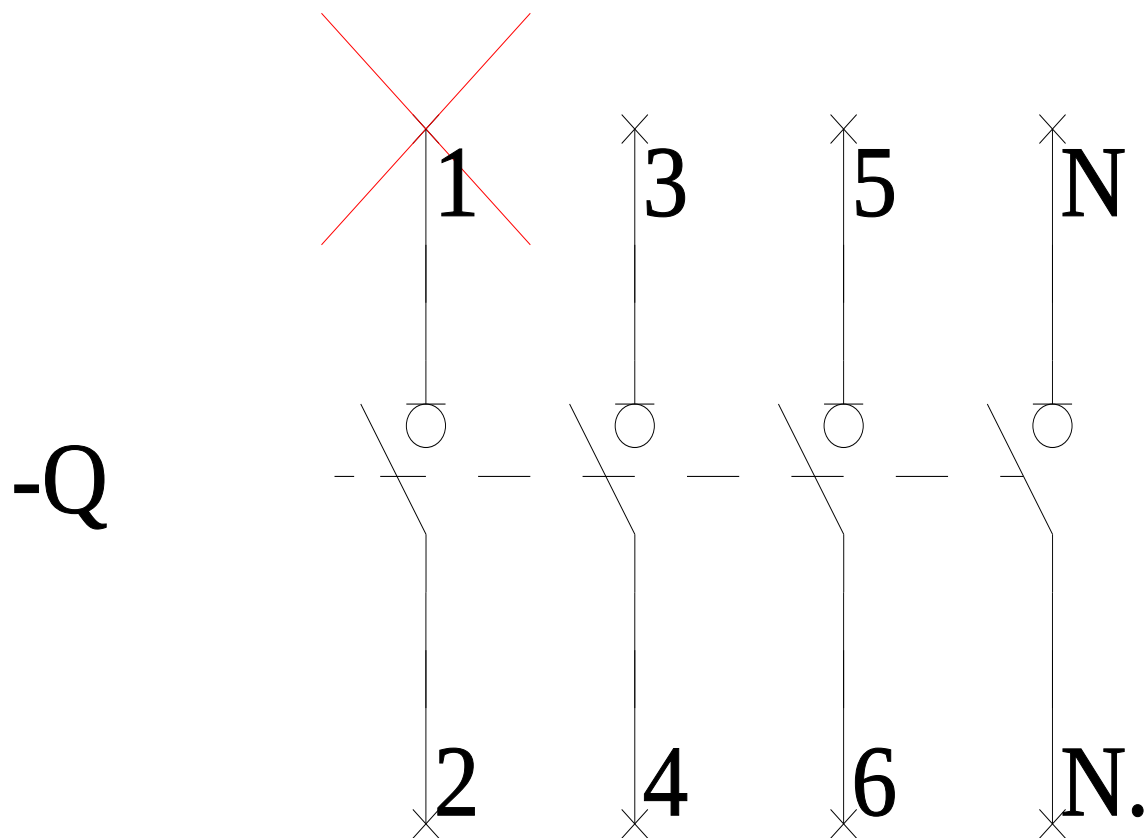
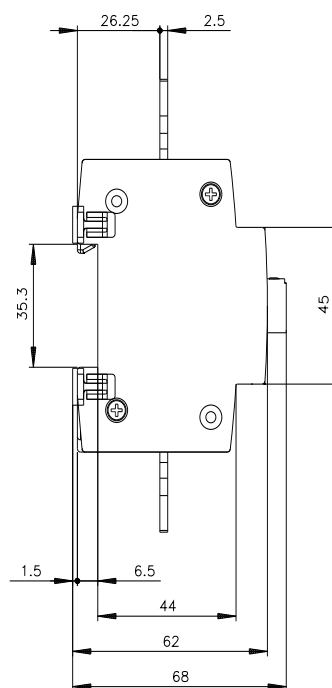
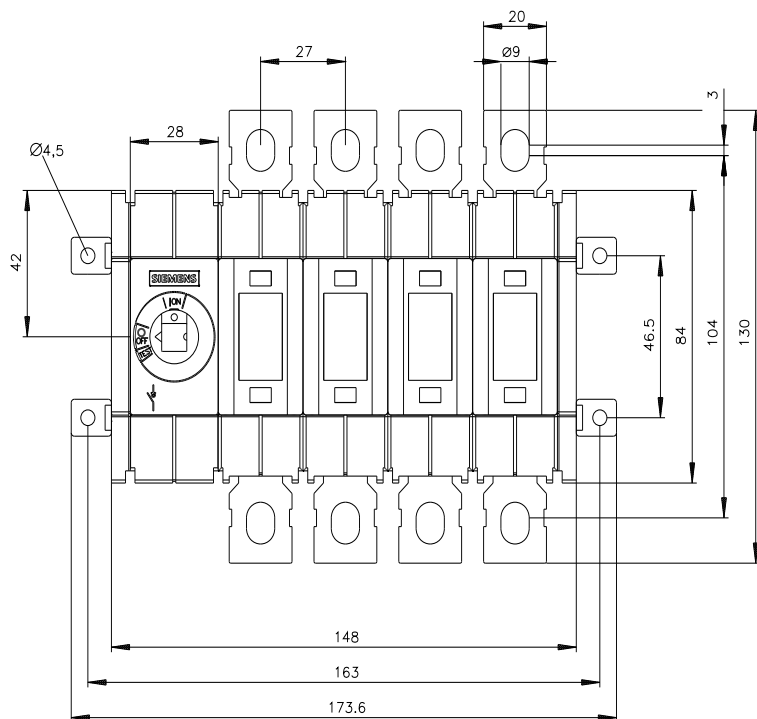
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3440-0NE10-0

CAX-Online-Generator

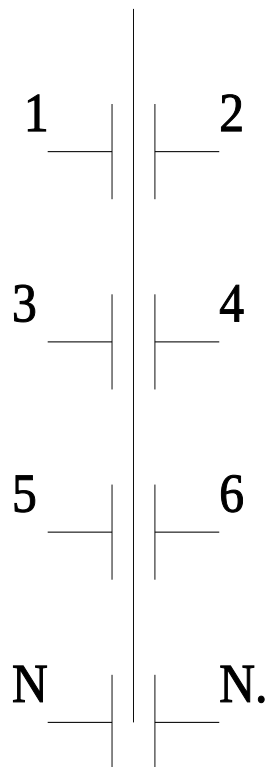
<http://www.siemens.com/cax>

Tender specifications

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



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