



Switch disconnecter 160 A, Size 2, 3-pole Lateral 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	Side 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 (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	1 500
• at DC-23 A / at 440 V	1 500
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 4.6 W
- with conventional rated thermal current / per device 13.8 W
- for rated value of the current / at AC / in hot operating state / per pole 4.6 W

Current

operational current

- at 35 °C / rated value 160 A
- at 40 °C / rated value 160 A
- at 45 °C / rated value 160 A
- at 50 °C / rated value 160 A
- at 55 °C / rated value 160 A
- at 60 °C / rated value 160 A
- at 65 °C / rated value 160 A
- at 70 °C / rated value 160 A
- at AC / rated value 160 A
- at AC-23 A / at 690 V / rated value 125 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 160 A
- at AC-22 A / at 690 V / rated value 160 A
- at AC-22 A / at 500 V / rated value 160 A
- at AC-22 A / at 400 V / rated value 160 A
- at AC-20 A / at 1000 V / maximum 160 A
- at AC-21 A / at 500 V / rated value 160 A
- at AC-21 A / at 690 V / rated value 160 A
- at DC-20 A / at 1000 V / maximum 160 A / 1
- at DC-23 A / at 440 V / rated value / note 160 A / 3
- at DC-23 A / at 220 V / rated value / note 160 A / 2
- at DC-22 A / at 440 V / rated value / note 160 A / 3
- at DC-22 A / at 220 V / rated value / note 160 A / 2
- at DC-21 A / at 440 V / rated value / note 160 A / 3
- at DC-21 A / at 220 V / rated value 160 A / 2
- at DC-21 B / at 750 V / rated value / maximum 160 A / 3

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 160 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 160 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 3

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	Yes
• maintenance/repair switch	Yes
Product details	
product component	
• trip indicator	No
• voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
product extension / auxiliary switch	Yes
product extension / optional	
• motor drive	No
• 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	
• at 400 V AC / without fuse link / rated value / minimum	30 kA
• at 1000 V AC / without fuse link / rated value / minimum	12 kA
• at DC 440 V / without fuse link / rated value / minimum	12 kA
• without fuse link / rated value / minimum	12 kA
conditional short-circuit current / with line-side fuse protection	
• at 415 V / by molded case circuit breaker / rated value	65 kA
• at 500 V / by gG fuse / rated value	100 kA
• at 690 V / by gG fuse / rated value	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	130A / 70 mm ²
• for copper busbar	1x (20x3 mm ²)
type of connectable conductor cross-sections / for copper conductor	
• stranded / with lug / according to DIN 46234	1x (2.5 ... 95 mm ²), 2x (25 ... 50 mm ²)
• stranded / with lug / according to DIN 46235	1x (25 ... 70 mm ²), 2x (25 ... 50 mm ²)
type of electrical connection / for main current circuit	flat connector
Mechanical Design	
height	126 mm
width	130.3 mm
depth	69.5 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	1 135 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	

- minimum
- maximum

-50 °C
80 °C

Certificates

reference code / according to IEC 81346-2

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General Product Approval

Declaration of Conformity



[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity

Marine / Shipping

other



[Environmental Conformations](#)

[Miscellaneous](#)

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=3KD3434-0NE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD3434-0NE10-0>

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

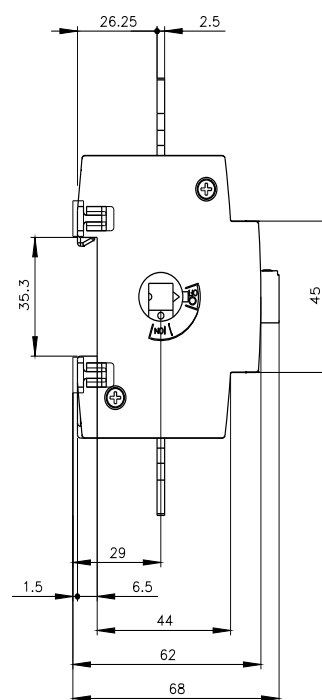
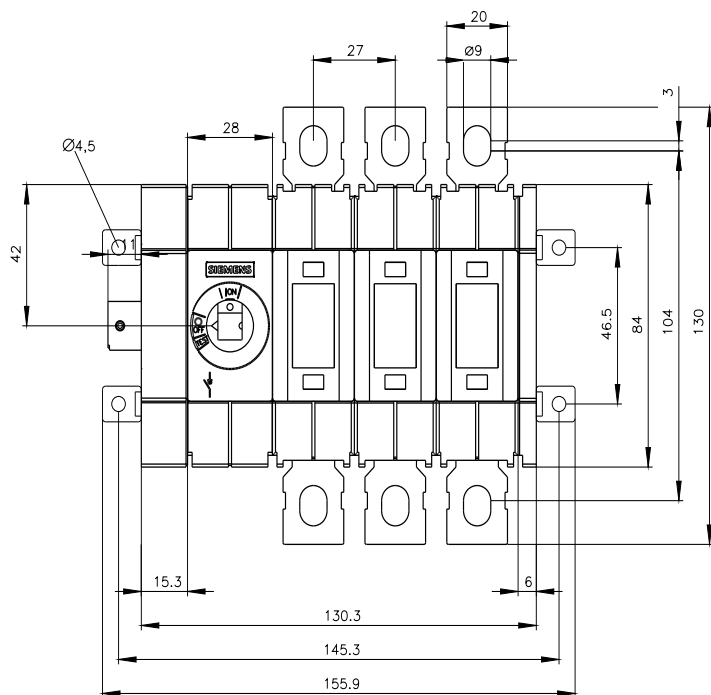
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3434-0NE10-0

CAX-Online-Generator

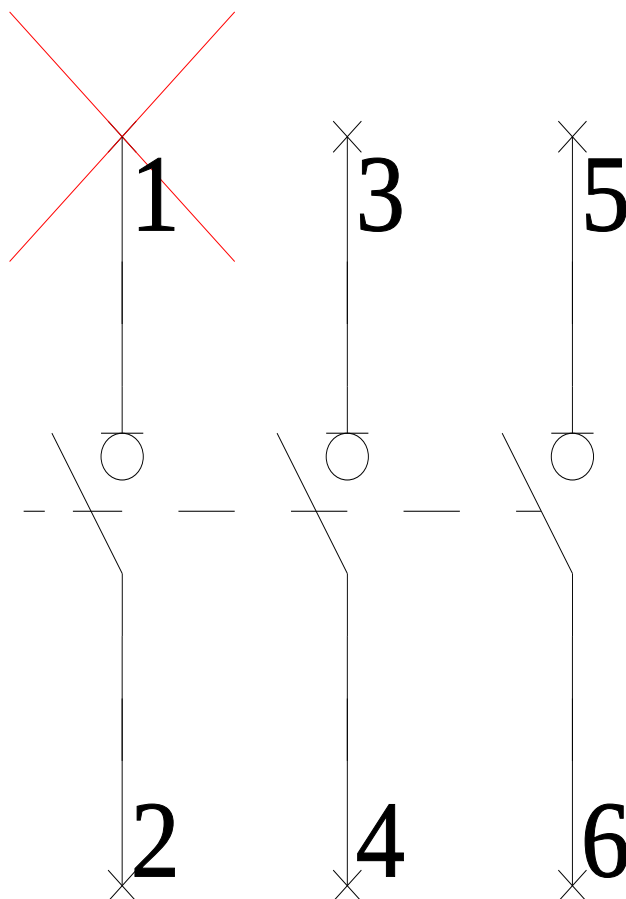
<http://www.siemens.com/cax>

Tender specifications

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



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