



Switch disconnecter 32 A, Size 1, 3-pole Front operating mechanism center
Basic unit without handle Box 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	1
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
• 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	2 331 A ² ·s
• of the fuse / at 500 V / maximum permissible	26 505 A ² ·s
• of the gG fuse / at 690 V / maximum permissible	24 005 A ² ·s
• of the gG/aM SITOR fuse / at 1000 V / maximum permissible	6 000 A ² ·s
• of the molded case circuit breaker / at 415 V / maximum permissible	480 000 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
Protection class	

protection class IP	IP20
protection class IP	
• with closed switch / with cover or cable lug cover • on the front	IP20 IP20
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	0.4 W 1.2 W 0.4 W
Current	
operational current	
• at 35 °C / rated value • at 40 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 70 °C / rated value • at AC / rated value • at AC-23 A / at 690 V / rated value • at AC-23 A / at 500 V / rated value • at AC-23 A / at 400 V / rated value • at AC-22 A / at 690 V / rated value • at AC-22 A / at 500 V / rated value • at AC-22 A / at 400 V / rated value • at AC-20 A / at 1000 V / maximum • at AC-21 A / at 500 V / rated value • at AC-21 A / at 690 V / rated value • at DC-20 A / at 1000 V / maximum • at DC-23 A / at 440 V / rated value / note • at DC-23 A / at 220 V / rated value / note • at DC-22 A / at 440 V / rated value / note • at DC-22 A / at 220 V / rated value / note • at DC-21 A / at 440 V / rated value / note • at DC-21 A / at 220 V / rated value	32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A 32 A / 1 32 A / 3 32 A / 2 32 A / 3 32 A / 2 32 A / 3 32 A / 2
continuous current / of upstream fuse / at 500 V and 690 V / rated value	100 A
continuous current / of upstream fuse / at 1000 V / rated value	100 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	100 A
operational current / at DC / rated value	32 A
let-through current / of the fuse / at 500 V / maximum permissible	12 500 A
let-through current / of the gG fuse / at 690 V / maximum permissible	14 700 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	4 700 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	20 000 A
Main circuit	
operating power	
• at AC-23 A / at 500 V / rated value	18.5 kW
operational current / rated value	32 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	Yes
• maintenance/repair switch	Yes
Product details	
product feature / interlock	No
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	3 kA
short-circuit current making capacity (I _{cm}) / for switch disconnecter	
• at 1000 V AC / without fuse link / rated value / minimum	7 kA
• at DC 440 V / without fuse link / rated value / minimum	7 kA
• without fuse link / rated value / minimum	7 kA
conditional short-circuit current / with line-side fuse protection	
• at 415 V / by molded case circuit breaker / rated value	36 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 / with flexible busbar	2x (0,8x9 mm ²)
type of connectable conductor cross-sections	
• for copper busbar	1 x (2 x 9 mm ²)
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (1 ... 16 mm ²)
• finely stranded / with core end processing	1x (1 ... 35 mm ²)
• stranded	1x (6 ... 35 mm ²)
type of electrical connection / for main current circuit	box terminal
Mechanical Design	
height	119 mm
width	94 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	782 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	
• acc. to DIN EN 61346-2	Q
• acc. to IEC 81346-2	Q

General Product Approval	Declaration of Conformity	Marine / Shipping
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[Miscellaneous](#)



Marine / Shipping	other
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[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=3KD2230-2ME20-0>

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

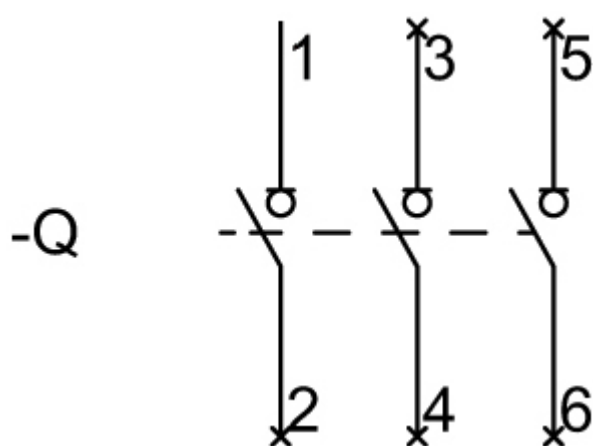
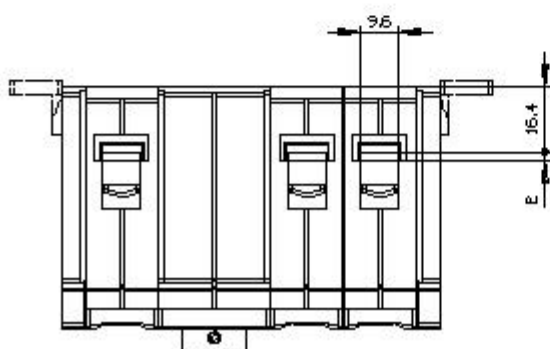
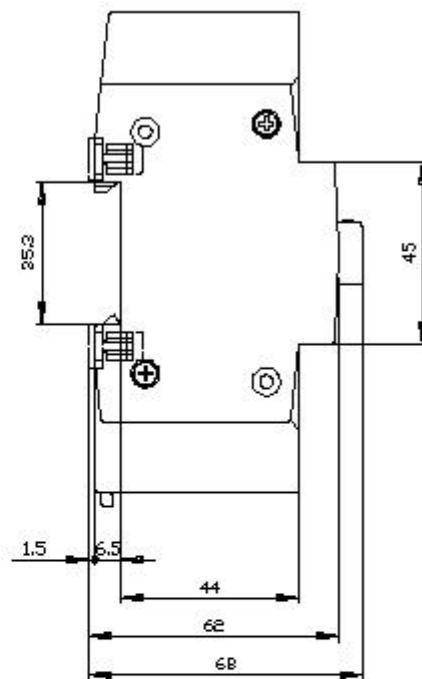
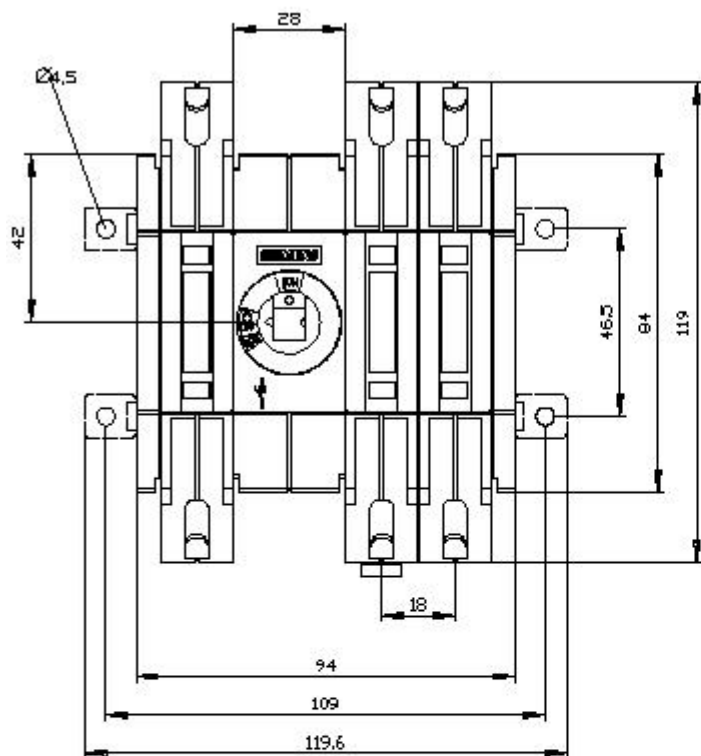
<https://support.industry.siemens.com/cs/ww/en/ps/3KD2230-2ME20-0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2230-2ME20-0

Tender specifications

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



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