



switch disconnecter 1000A, frame size 5, 2-pole DC500V, front operating mech. left, basic unit without handle, flat terminal, DC-21B

Model	
product brand name	SENTRON
product designation	3KD switch disconnecter
design of the product	Switch
display version for switch position indicator manual operation	ON-OFF-TEST
design of the actuating element	Long rotary knob
type of the driving mechanism	Front operating mechanism
type of the driving mechanism motor drive	No
General technical data	
number of poles	2
type of device	fixed mounting
size of switch disconnecter	5
mechanical service life (operating cycles) typical	8 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	500
• at DC-23 A at 440 V	500
position of the switch operating mechanism	at the left end
overvoltage category	III
degree of pollution	3
Voltage	
operating voltage with current paths in series	
• with degree of pollution 2 at DC rated value	500V
• with degree of pollution 3 at DC rated value	500V
insulation voltage	
• rated value	1 000 V
surge voltage resistance rated value	12 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	20 W
• with conventional rated thermal current per device	40 W
• for rated value of the current at AC in hot operating state per pole	20 W
Main circuit	

operational current rated value	1 000 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	0
number of NC contacts for auxiliary contacts	8
number of NO contacts for auxiliary contacts	8
Suitability	
suitability for use main switch	Yes
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use according to IEC 62626-1 safety switch	No
suitability for use maintenance/repair switch	Yes
Product details	
product feature interlock	Yes
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
product extension optional voltage trigger	No
Connections	
type of connectable conductor cross-sections for aluminum conductor	
• stranded with lug	1x (120 ... 300 mm²), 2x (95 ... 300 mm²)
type of connectable conductor cross-sections	
• for copper busbar	'2 x (60 x 10 mm²)
type of connectable conductor cross-sections for copper conductor	
• stranded with lug according to DIN 46234	1x (120 ... 240 mm²), 2x (95 ... 240 mm²)
• stranded with lug according to DIN 46235	1x (120 ... 240 mm²), 2x (95 ... 240 mm²)
type of electrical connection for main current circuit	flat connector
Mechanical Design	
height	310 mm
width	292 mm
depth	153 mm
fastening method	screw fixing
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
mounting position	any
Net Weight	153 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
Approvals Certificates	
Environment	General Product Approval

[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)



[Miscellaneous](#)



[Confirmation](#)

General Product Approval

Test Certificates

other



[Type Test Certific-
ates/Test Report](#)

[Confirmation](#)



[Miscellaneous](#)

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,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD5120-0RE10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD5120-0RE10-0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5120-0RE10-0

CAX-Online-Generator

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

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)

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