

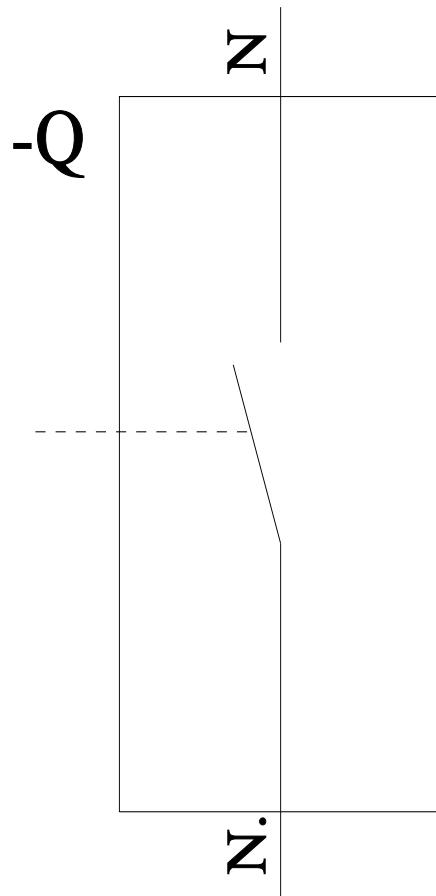
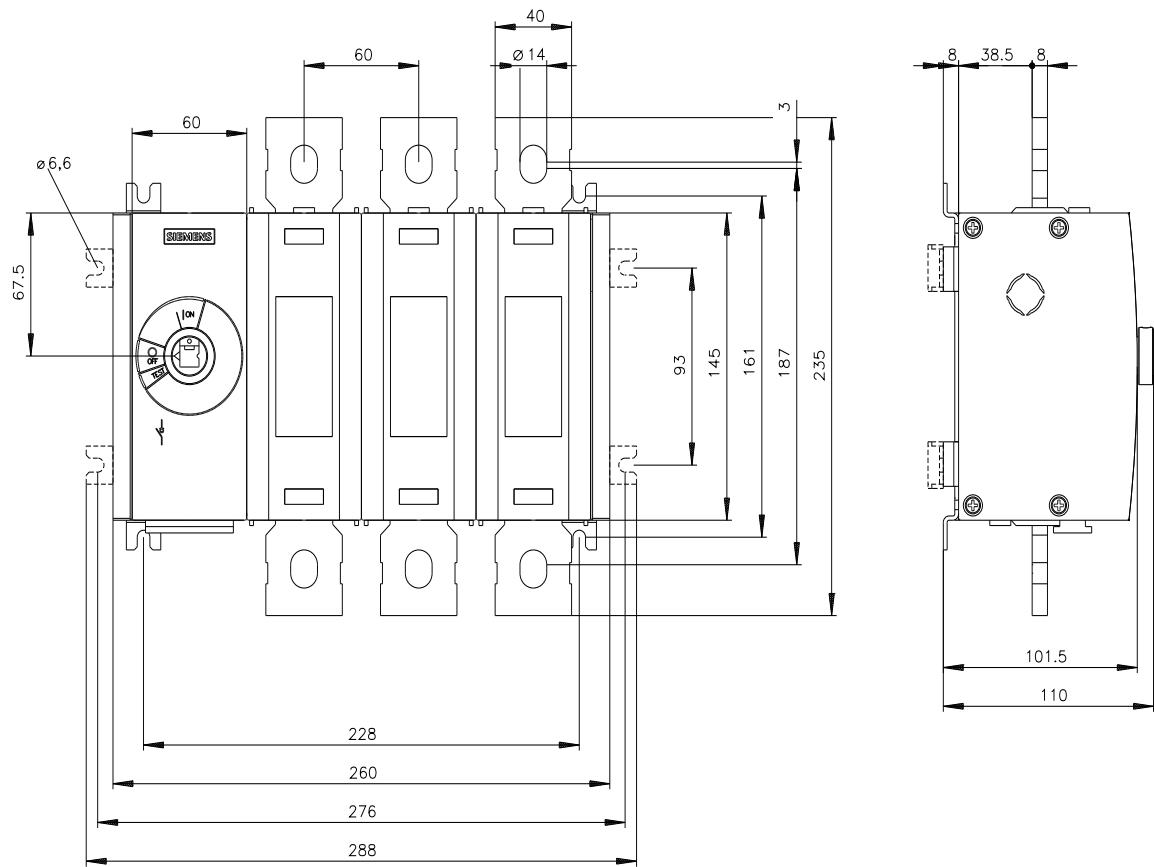
Switch disconnector 500 A, Size 4, 3-pole Front operating mechanism left Basic unit without handle flat terminal



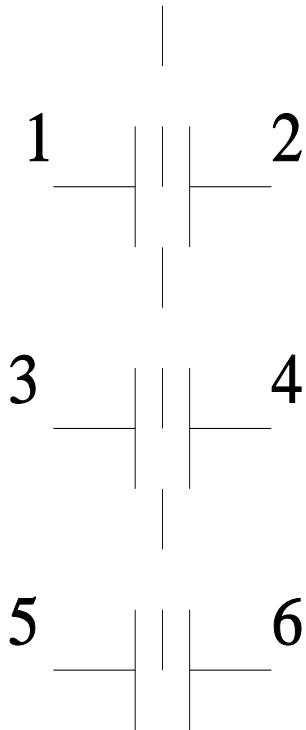
Model	
product brand name	SENTRON
product designation	3KD switch disconnector
design of the product	Switch
display version for switch position indicator door-coupling rotary operating mechanism	ON-OFF
design of the actuating element	Without handle
type of the driving mechanism	Front operating mechanism
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
type of device	fixed mounting
size of switch disconnector	4
mechanical service life (operating cycles) typical	8 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	1 000
• at DC-23 A at 440 V	1 000
I _{2t} value	
• with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum	647 250 A ² ·s
• of the fuse at 500 V maximum permissible	5 400 005 A ² ·s
• of the gG fuse at 690 V maximum permissible	3 760 005 A ² ·s
• of the gG/aM SITOR fuse at 1000 V maximum permissible	520 000 A ² ·s
• of the molded case circuit breaker at 415 V maximum permissible	16 000 000 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	IV
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	12 kV
operational current at AC-22 A at 1000 V maximum	500 A
let-through current of the fuse at 500 V maximum permissible	118 000 A
let-through current of the gG fuse at 690 V maximum	90 600 A

permissible	
Supply voltage	
operating voltage at AC rated value	1 000 V
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	12 W
• with conventional rated thermal current per device	36 W
• for rated value of the current at AC in hot operating state per pole	12 W
Main circuit	
operating power	
• at AC-23 A at 500 V rated value	355 kW
operational current rated value	500 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 disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use 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 (Icw) at 1000 V AC/440 V DC limited to 1 s rated value	30 kA
short-circuit current making capacity (Icm) for switch disconnector	
• at 1000 V AC without fuse link rated value minimum	80 kA
• at DC 440 V without fuse link rated value minimum	42.6 kA
• without fuse link rated value minimum	80 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 (25 ... 240 mm ²), 2x (25 ... 240 mm ²)
type of connectable conductor cross-sections	
• with combination of AI conductor+switch	500 A / 2 x 240 mm ²
• for copper busbar	'1 x (40 x 10 mm ²), 2 x (40 x 5 mm ²)

type of connectable conductor cross-sections for copper conductor		1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²) 1x (25 ... 240 mm ²), 2x (25 ... 240 mm ²)			
• stranded with lug according to DIN 46234 • stranded with lug according to DIN 46235					
type of electrical connection for main current circuit		flat connector			
Mechanical Design					
height	235 mm				
width	260 mm				
depth	110 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	7 320 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				
Approvals Certificates					
General Product Approval					
	Confirmation	 EG-Konf.		 VDE	Miscellaneous
General Product Approval	Test Certificates	Marine / Shipping	other		
	Type Test Certificates/Test Report	 DNV	 LRS	Confirmation	Miscellaneous
Environment					
Environmental Confirmations	Environmental Confirmations				
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=3KD4430-0QE10-0					
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KD4430-0QE10-0					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4430-0QE10-0					
CAx-Online-Generator http://www.siemens.com/cax					
Tender specifications http://www.siemens.com/specifications					



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