

Switch disconnecter 1000 A, Size 5, 3-pole Side operating mechanism right
Basic unit without handle flat 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	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	5
mechanical service life (switching cycles) / typical	8 000
electrical endurance (switching cycles)	
• at DC-21 A / at 1000 V	100
• at AC-23 A / at 690 V	500
• at DC-23 A / at 440 V	500
I ² t value	
• with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum	3 492 000 A ² ·s
• of the fuse / at 500 V / maximum permissible	19 000 000 A ² ·s
• of the gG/aM SITOR fuse / at 1000 V / maximum permissible	1 800 000 A ² ·s
position / of the switch operating mechanism	at the right 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
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	60 W
• for rated value of the current / at AC / in hot operating state / per pole	20 W
Current	
operational current	
• at 35 °C / rated value	1 000 A
• at 40 °C / rated value	1 000 A
• at 45 °C / rated value	1 000 A
• at 50 °C / rated value	1 000 A
• at 55 °C / rated value	1 000 A
• at 60 °C / rated value	1 000 A
• at 65 °C / rated value	1 000 A
• at 70 °C / rated value	1 000 A
• at AC / rated value	1 000 A
• at AC-23 A / at 690 V / rated value	1 000 A
• at AC-23 A / at 500 V / rated value	1 000 A
• at AC-23 A / at 400 V / rated value	1 000 A
• at AC-22 A / at 1000 V / maximum	1 000 A
• at AC-22 A / at 690 V / rated value	1 000 A
• at AC-22 A / at 500 V / rated value	1 000 A
• at AC-22 A / at 400 V / rated value	1 000 A
• at AC-20 A / at 1000 V / maximum	1 000 A
• at AC-21 A / at 500 V / rated value	1 000 A
• at AC-21 A / at 690 V / rated value	1 000 A
• at DC-20 A / at 1000 V / maximum	1000 A / 1
• at DC-21 A / at 440 V / rated value / note	1000 A / 3
• at DC-21 A / at 220 V / rated value	1000 A / 2
• at DC-21 B / at 750 V / rated value / maximum	1000 A / 3
continuous current / of upstream fuse / at 500 V and 690 V / rated value	2 000 A
continuous current / of upstream fuse / at 1000 V / rated value	1 890 A
operational current / at DC / rated value	1 000 A
let-through current / of the fuse / at 500 V / maximum permissible	176 400 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	87 000 A
Main circuit	
operating power	
• at AC-23 A / at 500 V / rated value	710 kW
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
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• 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	55 kA
short-circuit current making capacity (I _{cm}) / for switch disconnector	
• at 1000 V AC / without fuse link / rated value / minimum	121 kA
• at DC 440 V / without fuse link / rated value / minimum	80 kA
• without fuse link / rated value / minimum	121 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 (120 ... 300 mm ²), 2x (95 ... 300 mm ²)
type of connectable conductor cross-sections	
• for copper busbar	'2 x (60 x 10 mm ²)
type of connectable conductor cross-sections / for copper conductor	
• stranded / with lug / acc. to DIN 46235	1x (120 ... 240 mm ²), 2x (95 ... 240 mm ²)
type of electrical connection / for main current circuit	flat connector
Mechanical Design	
height	310 mm
width	394.5 mm
depth	154 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	17 240 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-50 °C
• maximum	80 °C
General Product Approval	
Declaration of Conformity	



[Miscellaneous](#)



[UK Declaration of Conformity](#)



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=3KD5034-0RE40-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD5034-0RE40-0>

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

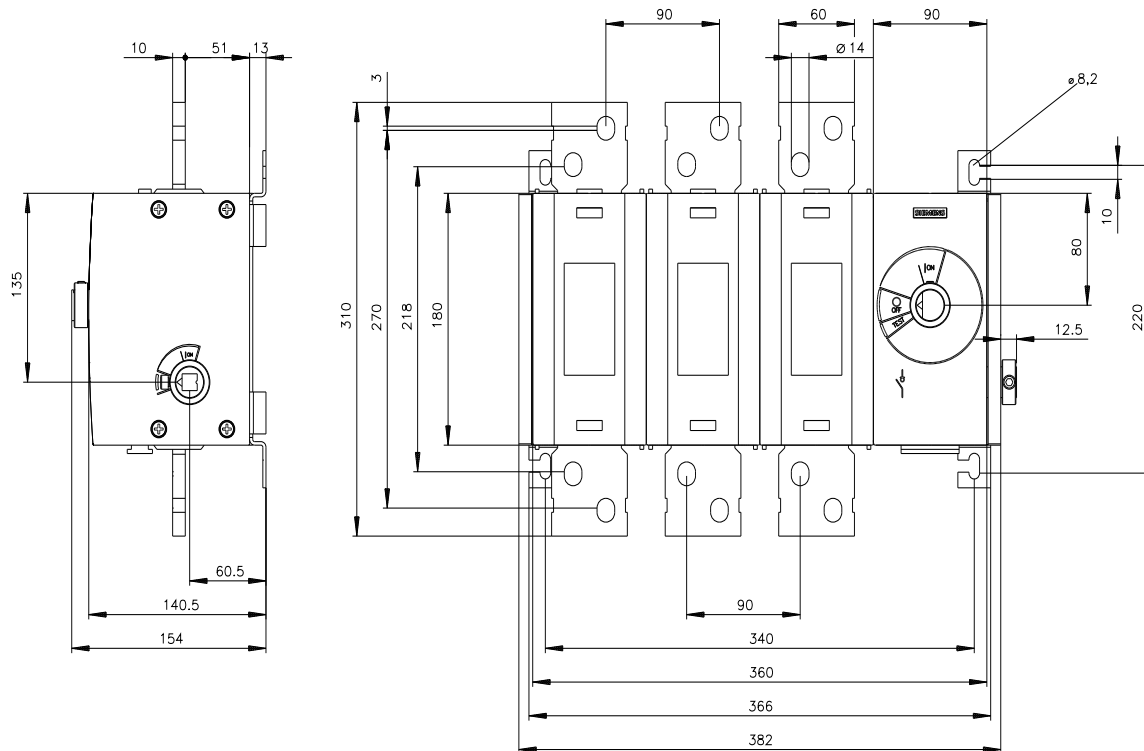
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5034-0RE40-0

CAX-Online-Generator

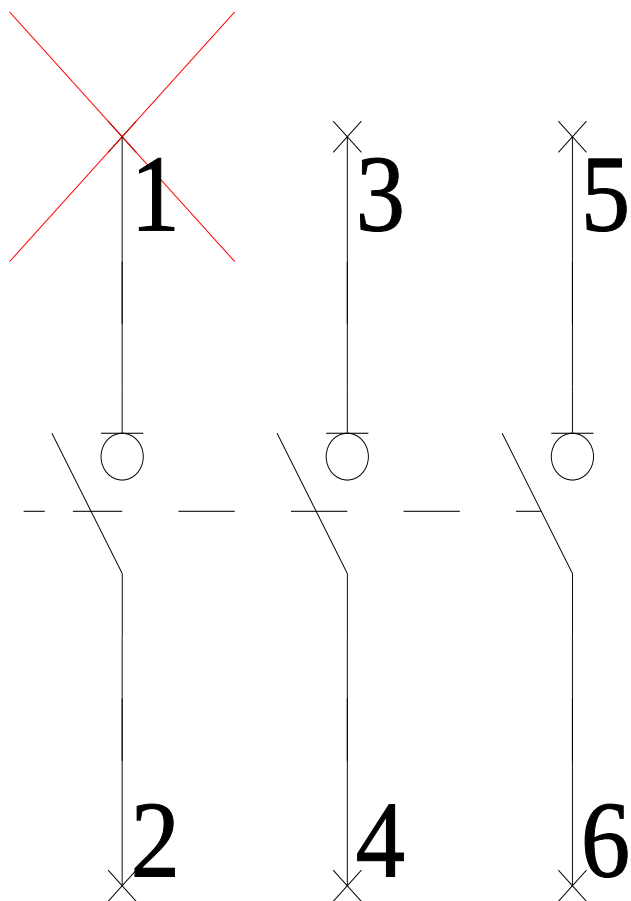
<http://www.siemens.com/cax>

Tender specifications

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



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