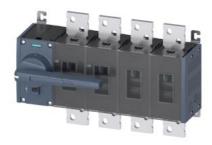
SIEMENS

Data sheet 3KD5042-0RE10-0

Switch disconnector 1000 A, Size 5, 4-pole Front operating mechanism left Complete unit with direct operating mechanism gray flat terminal



Model	
product brand name	SENTRON
product designation	3KD switch disconnector
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	4
type of device	fixed mounting
size of switch disconnector	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
I2t 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 A²·s
 of the gG/aM SITOR fuse / at 1000 V / maximum permissible 	1 800 000 A²·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
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	80 W
 for rated value of the current / at AC / in hot 	20 W
operating state / per pole	
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 23 A / at 600 V / 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 at AC-23 A / at 400 V / rated value 	1 000 A 1 000 A
 at AC-23 A / at 400 V / rated value at AC-22 A / at 1000 V / maximum 	1 000 A
• at AC-22 A / at 1000 V / maximum • at AC-22 A / at 690 V / rated value	1 000 A 1 000 A
• at AC-22 A / at 500 V / rated value	1 000 A 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 / maximum	1 000 A
at AC-21 A / at 690 V / rated value at AC-21 A / at 690 V / rated value	1 000 A
at DC-21 B / at 1000 V / rated value / maximum	1000 A / 4
continuous current / of upstream fuse / at 500 V and 690 V	2 000 A
/ rated value	2 000 71
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	V.
• main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
• safety switch	Yes
maintenance/repair switch	Yes
Product details	
product component	
• trip indicator	No
voltage trigger	No

stranded / with lug	1x (120 300 mm²), 2x (95 300 mm²)	
aluminum conductor • stranded / with lug	1x (120 300 mm²) 2x (95 300 mm²)	
type of connectable conductor cross-sections	1 (120 300 11111), 2 ((33 300 11111)	
with combination of Al conductor+switch	680A / 2x 300 mm²	
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	472 mm	
depth	212.5 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	21 560 g	
Environmental conditions		
ambient temperature / during operation		
	25 °C	
• minimum	-25 °C	
maximum	70 °C	
ambient temperature / during storage		
• minimum	-50 °C	
• maximum	80 °C	
	00 0	
Certificates		
reference code / according to IEC 81346-2	Q	
General Product Approval		Declaration of Conformity

Confirmation





Miscellaneous





Declaration of Conformity

Marine / Shipping

other







Environmental Confirmations **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=3KD5042-0RE10-0

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

https://support.industry.siemens.com/cs/ww/en/ps/3KD5042-0RE10-0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5042-0RE10-0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

