SIEMENS

Data sheet

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3KD4434-0PE40-0

SWITCH-DISCONNECTOR 500A, FRAME SIZE 3, 3-POLE LATERAL DRIVE RIGHT 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	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 disconnector	3
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	1 000
• at DC-23 A / at 440 V	1 000
l2t value	
 with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum 	239 650 A ² ·s
 of the fuse / at 500 V / maximum permissible 	2 700 000 A ² ·s
 of the gG fuse / at 690 V / maximum permissible 	2 500 000 A ² ·s
 of the gG/aM SITOR fuse / at 1000 V / maximum permissible 	260 000 A ² ·s
 of the molded case circuit breaker / at 415 V / maximum permissible 	4 750 000 A²·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 	17.2 W
 with conventional rated thermal current / per device 	51.6 W
 for rated value of the current / at AC / in hot 	17.2 W
operating state / per pole	
Current	
operational current	
• at 35 °C / rated value	500 A
• at 40 °C / rated value	500 A
• at 45 °C / rated value	500 A
• at 50 °C / rated value	500 A
• at 55 °C / rated value	500 A
• at 60 °C / rated value	500 A
• at 65 °C / rated value	500 A
• at 70 °C / rated value	475 A
 at AC / rated value at AC 23 A / at 690 V / rated value 	500 A 400 A
 at AC-23 A / at 690 V / rated value at AC-23 A / at 500 V / rated value 	400 A 400 A
 at AC-23 A / at 500 V / rated value at AC-23 A / at 400 V / rated value 	400 A 400 A
 at AC-22 A / at 400 V / fated value at AC-22 A / at 1000 V / maximum 	400 A
• at AC-22 A / at 690 V / rated value	400 A
• at AC-22 A / at 500 V / rated value	400 A
• at AC-22 A / at 400 V / rated value	500 A
• at AC-22 A / at 1000 V / maximum	400 A
• at AC-21 A / at 500 V / rated value	400 A
• at AC-21 A / at 690 V / rated value	400 A
• at DC-20 A / at 1000 V / maximum	500 A / 1
• at DC-23 A / at 440 V / rated value / note	400 A / 3
• at DC-23 A / at 220 V / rated value / note	400 A / 2
 at DC-22 A / at 440 V / rated value / note 	400 A / 3
• at DC-22 A / at 220 V / rated value / note	400 A / 2
 at DC-21 A / at 440 V / rated value / note 	400 A / 3
• at DC-21 A / at 220 V / rated value	400 A / 2
• at DC-21 B / at 750 V / rated value / maximum	400 A / 3
continuous current / of upstream fuse / at 500 V and 690 V / rated value	500 A
continuous current / of upstream fuse / at 1000 V / rated value	500 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	630 A
operational current / at DC / rated value	500 A
let-through current / of the fuse / at 500 V / maximum permissible	54 800 A
let-through current / of the gG fuse / at 690 V / maximum permissible	45 200 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	21 500 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	43 500 A
Main circuit	
operating power	
at AC-23 A / at 500 V / rated value	250 kW
operational current / rated value	400 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	6
number of NO contacts / for auxiliary contacts	6
Suitability	,
suitability for use	
main switch	Yes
switch disconnector	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 (Icw) / at 1000 V AC/440 V DC / limited to 1 s / rated value	13 kA
short-circuit current making capacity (Icm) / for switch disconnector	
 at 1000 V AC / without fuse link / rated value / minimum 	36 kA
 at DC 440 V / without fuse link / rated value / minimum 	36 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 mm²), 2x (25 120 mm²)
type of connectable conductor cross-sections	
for copper busbar	'1 x (30 x 10 mm²)
type of connectable conductor cross-sections / for copper conductor	
stranded / with lug / according to DIN 46235	1x (16 185 mm ²), 2x (16150 mm ²)
type of electrical connection / for main current circuit	flat connector
Mechanical Design	
height	164 mm
width	198.5 mm
depth	95 mm
fastening method	screw fixing
fastening method	Ne
4-hole front mounting	No
front mounting with central attachment roil mounting	No
rail mounting	No
mounting position	any
net weight Environmental conditions	2 949 g
ambient temperature / during operation minimum 	-25 °C
• minimum • maximum	-25 C 70 °C

ambient temperature	e / during storage				
 minimum 			0 °C		
 maximum 		80	О° (С		
General Product A	pproval				Declaration of Conformity
<u>Confirmation</u>		UDE VDE	<u>Miscellaneous</u>	EHC	<u>UK Declaration of</u> <u>Conformity</u>
Declaration of Conformity	Marine / Shipping	other			
CE EG-Konf.	Lloyd's Register urs	<u>Miscellaneous</u>			

Further information

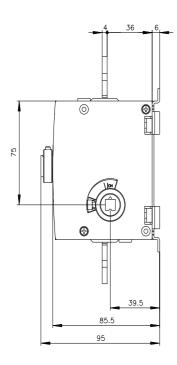
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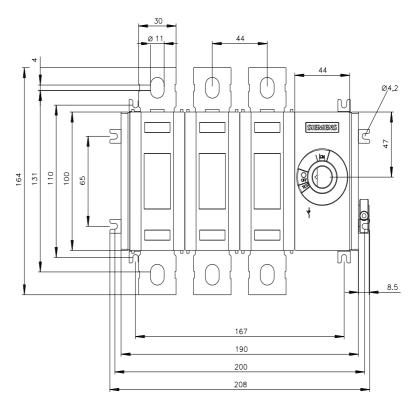
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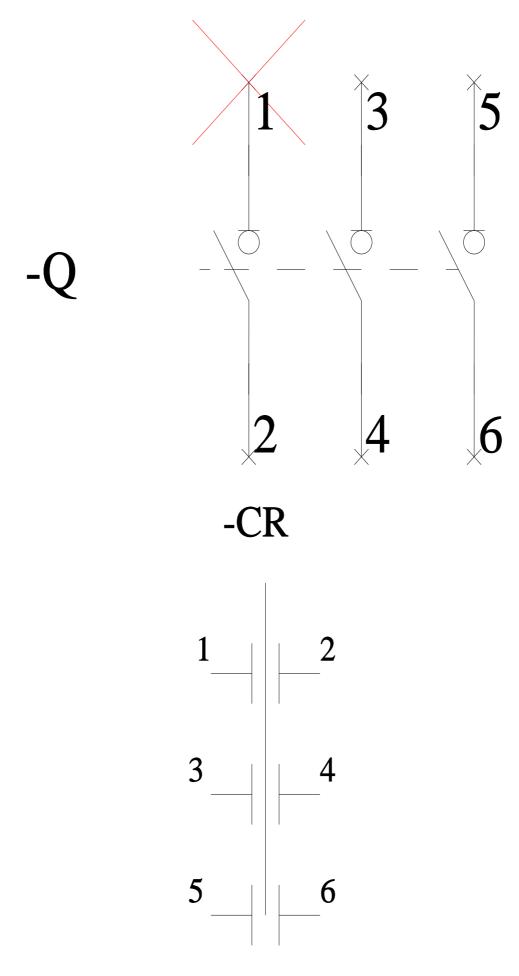
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Tender specifications

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