

Switch disconnecter 400 A, Size 3, 3-pole Lateral operating mechanism left
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	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
I ² t 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	2 150 005 A ² ·s
• of the gG fuse / at 690 V / maximum permissible	1 650 005 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 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
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	14 W
• with conventional rated thermal current / per device	42 W
• for rated value of the current / at AC / in hot operating state / per pole	14 W

Current

operational current

• at 35 °C / rated value	400 A
• at 40 °C / rated value	400 A
• at 45 °C / rated value	400 A
• at 50 °C / rated value	400 A
• at 55 °C / rated value	400 A
• at 60 °C / rated value	400 A
• at 65 °C / rated value	400 A
• at 70 °C / rated value	400 A
• at AC / rated value	400 A
• at AC-23 A / at 690 V / rated value	400 A
• at AC-23 A / at 500 V / rated value	400 A
• at AC-23 A / at 400 V / rated value	400 A
• 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	400 A
• at AC-20 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	400 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 400 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
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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 • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch	Yes Yes Yes Yes Yes
Product details	
product component	
• trip indicator • voltage trigger • undervoltage release • undervoltage release with leading contact	No No No No
product extension / auxiliary switch	Yes
product extension / optional	
• motor drive • voltage trigger	No No
Short circuit	
short-time withstand current (I _{cw}) / at 1000 V AC/440 V DC / limited to 1 s / rated value	13 kA
short-circuit current making capacity (I _{cm}) / for switch disconnecter	
• at 1000 V AC / without fuse link / rated value / minimum	36 kA
• at DC 440 V / without fuse link / rated value / minimum	36 kA
• 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	
• with combination of Al conductor+switch • for copper busbar	315A / 240 mm² '1 x (30 x 10 mm²)
type of connectable conductor cross-sections / for copper conductor	
• stranded / with lug / according to DIN 46234 • stranded / with lug / according to DIN 46235	1x (6 ... 240 mm²), 2x (6 ... 150 mm²) 1x (16 ... 185 mm²), 2x (16 ... 150 mm²)
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	
• 4-hole front mounting • front mounting with central attachment • rail mounting	No No No
mounting position	any
net weight	2 976 g
Environmental conditions	
ambient temperature / during operation	
• minimum • maximum	-25 °C 70 °C
ambient temperature / during storage	
• minimum • maximum	-50 °C 80 °C
Certificates	
reference code / according to IEC 81346-2	Q



EAC

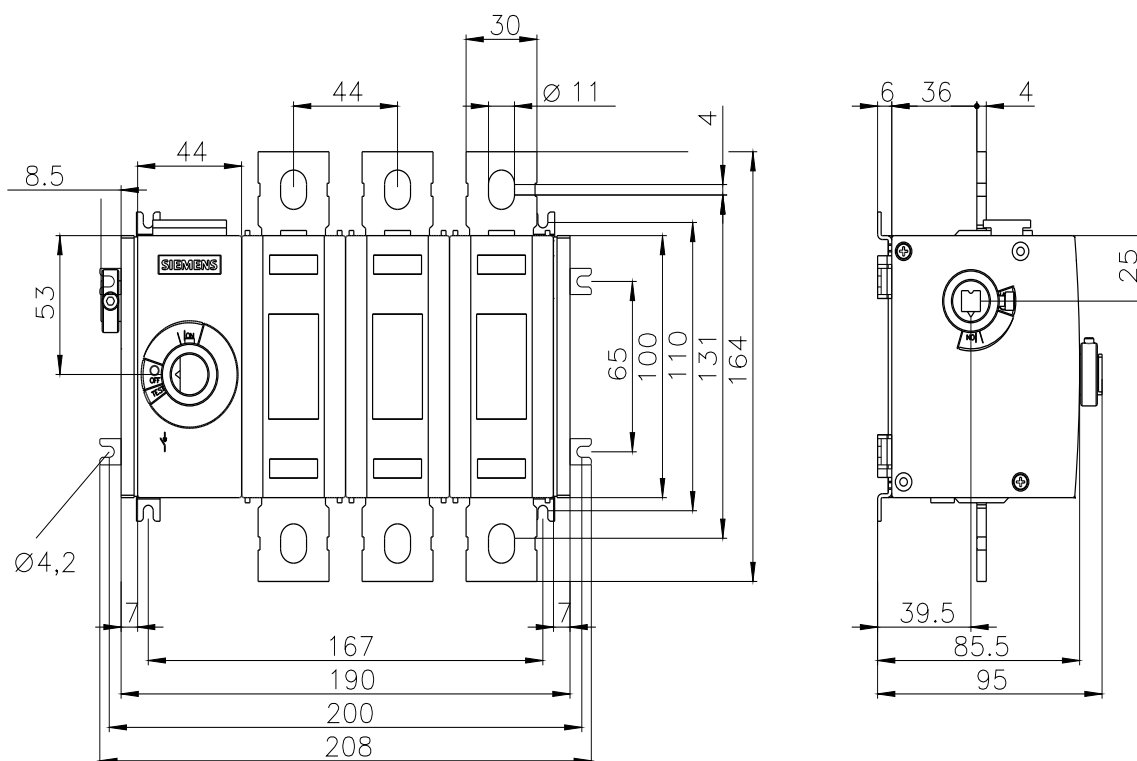


other



Environmental Con- firmations

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



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