SIEMENS

Data sheet

3KD3830-0PE10-0



Switch disconnector 250 A, Size 3, 3-pole Front operating mechanism left Basic unit without handle flat terminal

product brand name SENTRON product designation 3KD switch disconnector design of the product Switch display version / for switch position indicator door-coupling rolary operating mechanism ON-OFF design of the actuating element Without handle type of the driving mechanism Front operating mechanism rumber of poles 3 number of poles 3 size of switch disconnector 3 mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1 000 et at DC-23 A / at 800 V 1 000 et at DC-23 A / at 440 V 1 000 Iz value 239 650 A²-s e of the gClaw SITOR fuse / at 1000 V / for combination switch +gClaw SITOR fuse / at 300 V / maximum permissible 239 650 A²-s e of the gClaw J at 800 V / maximum permissible 260 000 A²-s e of the gClaw J at 900 V / maximum permissible 780 005 A²-s e of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A²-s overvoltage in percent / relative to the operating voltage / at AC / at 400, 500, 690 V / at 8000 Hz 10 % verint degree of poll	Model	
design of the product Switch design of the product Switch design of the actuating element Without handle type of the driving mechanism Front operating mechanism type of the driving mechanism Front operating mechanism number of poles 3 size of switch disconnector 3 mechanical service life (switching cycles) 15 000 electrical endurance (switching cycles) 1000 et at C-23 A / at 90 V 1000 et at C-23 A / at 440 V 1000 Izt value ewith closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum 239 650 A²-s e of the gG/aM SITOR fuse / maximum permissible 780 005 A²-s e of the gG/aM SITOR fuse / at 1000 V / maximum permissible 240 000 A²-s e of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A²-s position / of the switch operating mechanism at the left end overvoltage in percent / relative to the operating voltage / at 00 V / at 50/60 Hz 10 % overvoltage relagory IV 10 % ewith degree of pollution 2 / at DC / rated value 440 V / 3 ewith degree of pollution 2 / at DC / rated value 440 V /	product brand name	SENTRON
display version / for switch position indicator door-coupling rolary operating mechanism ON-OFF design of the actuating element Without handle type of the driving mechanism / motor drive No Concert technical data Front operating mechanism number of poles 3 size of switch disconnector 3 mechanical service life (switching cycles) 15000 electrical endurance (switching cycles) 1000 et A C-23 A / at 690 V 1000 et A C-23 A / at 690 V 1000 et the fuse / at 500 V / for combination 239 650 A²-s e of the gG fuse / at 690 V / maximum 280 005 A²-s e of the gG/adk SITOR fuse / at 1000 V / maximum 280 000 A²-s e of the gG/adk SITOR fuse / at 1000 V / maximum 280 000 A²-s e of the molded case circuit breaker / at 415 V / maximum 260 000 A²-s e of the molded case circuit breating mechanism at the left end overvoltage in percent / relative to the operating voltage / 10 % at C / at 400, 500, 690 V / at 50/60 Hz 10 % overvoltage reperting woltage / with current paths in series 440 V / 3 e with degree of pollution 3 / at DC / rated value 440 V / 3 <t< td=""><td>product designation</td><td>3KD switch disconnector</td></t<>	product designation	3KD switch disconnector
rotary operating mechanism Without handle design of the actuating element Without handle type of the driving mechanism Front operating mechanism humber of poles 3 yppe of device fixed mounting size of switch disconnector 3 mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1 000 • at AC-23 A / at 690 V 1 000 • at AC-23 A / at 690 V 1 000 • at AC-23 A / at 440 V 1 000 !21 value 239 650 A ² ·s • of the disk at 500 V / maximum 239 650 A ² ·s • of the gGraw SITCR fuse / maximum 260 000 A ² ·s • of the gGraw SITCR fuse / at 1000 V / maximum 260 000 A ² ·s permissible 4 750 000 A ² ·s • of the molded case circuit breaker / at 415 V / maximum permissible 10 % overvoitage in percent / relative to the operating voltage / at C/ at 400, 500, 630 V / at 50/60 Hz 10 % overvoitage in percent / relative to the operating voltage / at AC / at 400, 500, 630 V / at 50/60 Hz 10 % overvoitage in percent / relative to the operating voltage / at the legree of pollution 2 / at DC / rated value 440 V / 3	design of the product	Switch
type of the driving mechanism / motor drive No General technical data No 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) 1 000 • at AC-23 A / at 690 V 1 000 • at AC-23 A / at 400 V 1 000 !21 value 239 650 A ² ·s • with closed switch / at 1000 V / for combination switch •gG/aM SITOR fuse / at 1000 V / maximum permissible 780 005 A ² ·s • of the gG fuse / at 690 V / maximum permissible 260 000 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 4750 000 A ² ·s • of the molded case circuit breaker / at 415 V / maximum permissible 10 % • of the molded case circuit breaker / at 415 V / taxinum permissible 10 % • of the molded case circuit breaker / at 410 V / a 100 % vervoltage in percent / relative to the operating woltage / at 40, 200 000 A ² ·s 10 % vervoltage category IV degree of pollution 3 vo		ON-OFF
type of the driving mechanism / motor drive No General technical data 3 number of poles 3 size of switch disconnector 3 mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1000 et AC-23 A / at 690 V 1000 et AC-23 A / at 690 V 1000 it AC-23 A / at 690 V 1000 it AC-23 A / at 500 V / maximum 239 650 A² s of the fuse / at 500 V / maximum permissible 780 005 A² s of the fuse / at 500 V / maximum permissible 260 000 A² s of the molded case circuit breaker / at 415 V / maximum permissible 4750 000 A² s of the molded case circuit breaker / at 415 V / maximum permissible 10 % 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 operating voltage / pollution 3 Voltage 440 V / 3 insulation voltage 1000 V / as surge voltage resistance / rated value 1000 V surge voltage resistance / rated value	design of the actuating element	Without handle
General technical data 3 number of poles 5 size of switch disconnector 3 mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1 000 • at AC-23 A / at 690 V 1 000 • at DC-23 A / at 440 V 1 000 !lzt value 239 650 A ² s • with closed switch / at 1000 V / for combination switch +gC/aM SITOR fuse / maximum 239 650 A ² s • of the gG fuse / at 500 V / maximum permissible 780 005 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 260 000 A ² s • of the molded case circuit breaker / at 415 V / maximum permissible 1 0% • of the molded case circuit breaker / at 415 V / at A/50 000 A ² s 10 % • of the operating mechanism at the left end overvoltage in percent / relative to the operating voltage / at 400 , 500, 690 V / at 50/60 Hz 10 % overvoltage category IV 10 % overvoltage of pollution 3 Voltage operating voltage / pollution 3 / at DC / rated value 440 V / 3 insulation voltage 1000 V<	type of the driving mechanism	Front operating mechanism
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) 1000 • at AC-23 A / at 690 V 1000 • at AC-23 A / at 690 V 1000 • at AC-23 A / at 400 V 1000 !2t value 239 650 A*-s • of the fuse / at 500 V / maximum permissible 780 005 A*-s • of the gG fuse / at 690 V / maximum permissible 525 005 A*-s • of the gG fuse / at 690 V / maximum permissible 260 000 A*-s • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A*-s • of the molded case circuit breaker / at 415 V / maximum permissible 10 % • of the switch operating mechanism at the left end overvoltage in percent / relative to the operating voltage / at AC / at 400, 500, 680 V / at 50/60 Hz 10 % overvoltage category IV degree of pollution 3 Voltage 440 V / 3 insulation voltage 1000 V insulation voltage 1000 V surge voltage resistance / rated value 1000 V </td <td>type of the driving mechanism / motor drive</td> <td>No</td>	type of the driving mechanism / motor drive	No
type of device fixed mounting size of switch disconnector 3 mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1000 et at C-23 A / at 690 V 1 000 et at C-23 A / at 690 V 1 000 et at C-23 A / at 440 V 1 000 lizt value • with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum 239 650 A ² ·s • of the gG fuse / at 500 V / maximum permissible 780 005 A ² ·s • of the gG/aM SITOR fuse / at 1000 V / maximum permissible 260 000 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 4750 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 3 / at DC / rated value 440 V / 3 • with degree of pollution 3 / at DC / rated value 440 V / 3 • rated	General technical data	
size of switch disconnector 3 mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1000 • at AC-23 A / at 690 V 1 000 • at DC-23 A / at 690 V 1 000 !2t value 239 650 A*.s • with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum 239 650 A*.s • of the gG fuse / at 690 V / maximum permissible 780 005 A*.s • of the gG fuse / at 690 V / maximum permissible 220 000 A*.s • of the gG/aM SITOR fuse / at 1000 V / maximum permissible 260 000 A*.s • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A*.s • of the switch operating mechanism 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 • at act value 1 000 V surge voltage resistance / rated value 1 000 V <td>number of poles</td> <td>3</td>	number of poles	3
mechanical service life (switching cycles) / typical 15 000 electrical endurance (switching cycles) 1 000 • at AC-23 A / at 690 V 1 000 • at DC-23 A / at 440 V 1 000 !2t value 239 650 A².s • with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum 239 650 A².s • of the fuse / at 690 V / maximum permissible 780 005 A².s • of the gG fuse / at 690 V / maximum permissible 260 000 A².s • of the gG/aM SITOR fuse / at 1000 V / maximum permissible 260 000 A².s • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A².s • of the molded case circuit breaker / at 415 V / maximum permissible 10 % at AC / at 400, 500, 690 V / at 5006 Hz 10 % overvoltage in percent / relative to the operating voltage / at AC / at 400, 500, 690 V / at 5006 Hz 10 % overvoltage category IV degree of pollution 3 Voltage • with degree of pollution 2 / at DC / rated value • with degree of pollution 3 / at DC / rated value 440 V / 3 • with degree of pollution 3 / at DC / rated value 440 V / 3 • rated value 1 000 V surge voltage resistance / rated value </td <td>type of device</td> <td>fixed mounting</td>	type of device	fixed mounting
electrical endurance (switching cycles) 1000 • at AC-23 A / at 690 V 1000 • at DC-23 A / at 440 V 1000 I2t 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 780 005 A ² · s • of the gG fuse / at 690 V / maximum permissible 525 005 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 postion / of the switch operating mechanism at the left end overvoltage in percent / relative to the operating voltage / at 400, 500, 690 V / at 50/60 Hz 10 % overvoltage category IV degree of pollution 3 Voltage • with degree of pollution 2 / at DC / rated value • with degree of pollution 3 / at DC / rated value 440 V / 3 • matulation voltage 1 000 V • rated value 1 000 V	size of switch disconnector	3
• at AC-23 A / at 690 V 1 000 • at DC-23 A / at 440 V 1 000 I2t 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 780 005 A ² ·s • of the gG fuse / at 690 V / maximum permissible 525 005 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 • of the molded case circuit breaker / at 415 V / maximum permissible 10 % • of the switch operating mechanism at the left end overvoltage in percent / relative to the operating voltage / at AO, 500, 690 V / at 50/60 Hz 10 % overvoltage category IV degree of pollution 3 Voltage evith degree of pollution 2 / at DC / rated value • with degree of pollution 3 / at DC / rated value 440 V / 3 • rated value 1 000 V surge voltage resistance / rated value 1 000 V	mechanical service life (switching cycles) / typical	15 000
• at DC-23 A / at 440 V 1 000 I2t value • with closed switch / at 1000 V / for combination switch +gG/a/M SITOR fuse / maximum 239 650 A²·s • of the gG tase / at 690 V / maximum permissible 780 005 A²·s • of the gG / aM SITOR fuse / at 1000 V / maximum permissible 260 000 A²·s • of the gG/a/M SITOR fuse / at 1000 V / maximum permissible 260 000 A²·s • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A²·s • of the molded case circuit breaker / at 415 V / maximum permissible 10 % 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 • with degree of pollution 2 / at DC / rated value • with degree of pollution 2 / at DC / rated value 440 V / 3 insulation voltage 1000 V surge voltage resistance / rated value 1000 V	electrical endurance (switching cycles)	
I2t value 239 650 A²-s • with closed switch / at 1000 V / for combination switch +gG/2M SITOR fuse / maximum 239 650 A²-s • of the gic / at 500 V / maximum permissible 780 005 A²-s • of the gC/aM SITOR fuse / at 1000 V / maximum permissible 525 005 A²-s • of the gC/aM SITOR fuse / at 1000 V / maximum permissible 260 000 A²-s • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A²-s • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 A²-s • 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 vith degree of pollution 2 / at DC / rated value • with degree of pollution 3 / at DC / rated value 440 V / 3 • rated value 1 000 V surge voltage resistance / rated value 1 2 kV	• at AC-23 A / at 690 V	1 000
 with closed switch / at 1000 V / for combination switch +gG/aM SITOR fuse / maximum of the fuse / at 500 V / maximum permissible of the gG fuse / at 690 V / maximum permissible of the gG/aM SITOR fuse / at 1000 V / maximum permissible of the molded case circuit breaker / at 415 V / maximum permissible 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 overvoltage category voltage operating voltage / with current paths in series with degree of pollution 2 / at DC / rated value 440 V / 3 insulation voltage rated value 1000 V surge voltage resistance / rated value to 00 V surge voltage resistance / rated value to 00 V 	• at DC-23 A / at 440 V	1 000
switch +gG/aM SITOR fuse / maximum 780 005 Ų-s • of the fuse / at 500 V / maximum permissible 525 005 Ų-s • of the gG/aM SITOR fuse / at 1000 V / maximum 260 000 Ų-s • of the molded case circuit breaker / at 415 V / 4 750 000 Ų-s • of the switch operating mechanism at the left end overvoltage in percent / relative to the operating voltage / 10 % at AC / at 400, 500, 690 V / at 50/60 Hz 10 % overvoltage category IV degree of pollution 3 Voltage • with degree of pollution 3 / at DC / rated value • rated value 1 000 V surge voltage resistance / rated value 1 000 V	I2t value	
 of the gG fuse / at 690 V / maximum permissible of the gG/aM SITOR fuse / at 1000 V / maximum permissible of the molded case circuit breaker / at 415 V / maximum permissible of the molded case circuit breaker / at 415 V / maximum permissible 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 overvoltage category overvoltage category voltage operating voltage / with current paths in series with degree of pollution 2 / at DC / rated value with degree of pollution 3 / at DC / rated value the degree of pollution 3 / at DC / rated value the degree of pollution 3 / at DC / rated value the degree of pollution 2 / at DC / rated value the degree of pollution 3 / at DC / rated value the degree of pollution 2 / at DC / rated value the degree of pollution 2 / at DC / rated value the degree of pollution 3 / at DC / rated value the degree of pollution 3 / at DC / rated value the degree of rated value		239 650 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 • rated value 1 000 V	 of the fuse / at 500 V / maximum permissible 	780 005 A ² ·s
permissible • of the molded case circuit breaker / at 415 V / maximum permissible 4 750 000 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 • with degree of pollution 2 / at DC / rated value • with degree of pollution 3 / at DC / rated value 440 V / 3 • rated value 1 000 V surge voltage resistance / rated value 12 kV	 of the gG fuse / at 690 V / maximum permissible 	525 005 A ² ·s
maximum permissible at the left end 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 1000 V surge voltage resistance / rated value 12 kV	5	260 000 A ² ·s
overvoltage in percent / relative to the operating voltage / 10 % at AC / at 400, 500, 690 V / at 50/60 Hz IV overvoltage category IV degree of pollution 3 Voltage insulation 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 insulation voltage • rated value 1 000 V surge voltage resistance / rated value 12 kV Protection class Insulation voltage		4 750 000 A ² ·s
at AC / at 400, 500, 690 V / at 50/60 Hz IV 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	position / of the switch operating mechanism	at the left end
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 1000 V surge voltage resistance / rated value 12 kV Protection class		10 %
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	overvoltage category	IV
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	degree of pollution	3
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 e rated value 1000 V surge voltage resistance / rated value 12 kV Protection class	Voltage	
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	operating voltage / with current paths in series	
insulation voltage • rated value 1 000 V surge voltage resistance / rated value Protection class	 with degree of pollution 2 / at DC / rated value 	440 V / 3
rated value 1 000 V surge voltage resistance / rated value 12 kV Protection class	 with degree of pollution 3 / at DC / rated value 	440 V / 3
surge voltage resistance / rated value 12 kV Protection class 12 kV	insulation voltage	
Protection class	rated value	1 000 V
	surge voltage resistance / rated value	12 kV
protection class IP IP00	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 	6 W
 with conventional rated thermal current / per device 	18 W
 for rated value of the current / at AC / in hot 	6 W
operating state / per pole	
Current	
operational current	050 4
• at 35 °C / rated value	250 A
• at 40 °C / rated value	250 A
• at 45 °C / rated value	250 A
• at 50 °C / rated value	250 A
• at 55 °C / rated value	250 A
at 60 °C / rated value	250 A
• at 65 °C / rated value	250 A
• at 70 °C / rated value	250 A
at AC / rated value	250 A
 at AC-23 A / at 690 V / rated value at AC-23 A / at 500 V / rated value 	250 A
at AC-23 A / at 500 V / rated value	250 A
• at AC-23 A / at 400 V / rated value	250 A
• at AC-22 A / at 1000 V / maximum	250 A
• at AC-22 A / at 690 V / rated value	250 A
at AC-22 A / at 500 V / rated value	250 A
• at AC-22 A / at 400 V / rated value	250 A
 at AC-20 A / at 1000 V / maximum at AC-21 A / at 500 V / rated value 	250 A 250 A
 at AC-21 A / at 500 V / rated value at AC-21 A / at 690 V / rated value 	250 A
• at DC-20 A / at 1000 V / maximum	250 A / 1
• at DC-23 A / at 440 V / rated value / note	250 A / 3
at DC-23 A / at 220 V / rated value / note	250 A / 2
at DC-22 A / at 220 V / rated value / note	250 A / 2
at DC-22 A / at 440 V / rated value / note	250 A / 2
 at DC-22 A / at 220 V / rated value / note at DC-21 A / at 440 V / rated value / note 	250 A / 3
• at DC-21 A / at 220 V / rated value	250 A / 2
• at DC-21 B / at 750 V / rated value / maximum	250 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	500 A
value	630 A
continuous current / of upstream molded case circuit breaker / at 415 V / rated value	630 A
operational current / at DC / rated value	250 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	160 kW
operational current / rated value	250 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	Yes
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 / 	36 kA
 at DC 440 V / without fuse link / rated value / 	36 kA
 minimum 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 / acc. to DIN 46235	1x (16 185 mm²), 2x (16150 mm²)
type of electrical connection / for main current circuit	flat connector
Mechanical Design	
height	164 mm
width	190 mm
depth	93.5 mm
fastening method	screw fixing
fastening method	
4-hole front mounting	No
 front mounting with central attachment rail mounting 	No
rail mounting	No
mounting position	any 2 897 a
net weight	2 897 g
Environmental conditions	
ambient temperature / during operation minimum 	-25 °C
	-23 0

maximum ambient temperature / minimum maximum		70 °C -50 °C 80 °C			ï
General Product App		<u>Miscellaneous</u>	EAC	Declaration of Confor	EG-Konf.
Marine / Shipping		other			
Lloyd's Register uis	DNV-GL	<u>Miscellaneous</u>			

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=3KD3830-0PE10-0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KD3830-0PE10-0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3830-0PE10-0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications





