SIEMENS

Data sheet 3KD4430-0QE10-0

Switch disconnector 500 A, Size 4, 3-pole Front operating mechanism left 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 operating mechanism	Without handle
Type of the driving mechanism / motor drive	No

General technical data		
Number of poles	3	
Type of device	fixed mounting	
Size of switch disconnector	4	
Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz	1 000	
• at DC-23 A / at 440 V	1 000	
I2t value		
 with closed switch / for combination switch + fuse / at 500 V / maximum 	3 687 500 A ² ·s	

 with closed switch / for combination switch + fuse / at 400 V / maximum 	3 687 500 A ² ·s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	4 450 000 A²·s
• of the fuse / at 500 V / maximum permissible	5 400 005 A ² ·s
 of the gG fuse / at 690 V / maximum permissible 	3 760 005 A²·s
circuit-breaker / Design	3KD4
Mechanical service life (switching cycles) / typical	8 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	IV
Voltage	
Operating voltage / with current paths in series	
with degree of pollution 2 / at DC / rated value / Note	440 V / 3
with degree of pollution 3 / at DC / rated value / Note	440 / 3
Insulation voltage	
• rated value	1 000 V
Surge voltage resistance / rated value	12 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %
Current / at AC / rated value	500 A
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 	12 W
with conventional rated thermal current / per device	36 W
for rated value of the current / at AC / in hot operating state / per pole	12 W
Current	
Operating current	
• at AC-21 A / at 400 V / maximum	500 A
• at AC-21 A / at 500 V / maximum	500 A

• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 400 V / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-22 A / at 220 V / rated value / maximum • at DC-22 A / at 220 V / rated value / maximum 500 / 3 • at DC-22 A / at 220 V / rated value / maximum • at DC-21 A / at 220 V / maximum 500 / 2 • at DC-21 A / at 220 V / maximum • at DC-21 A / at 220 V maximum 500 / 2 Continuous current • rated value • at 45 ° C / rated value • at 45 ° C / rated value • at 45 ° C / rated value • at 65 ° C / rated va		
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum • at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum • at AC-33 A / at 690 V / at 50/60 Hz / rated value / maximum • at AC-32 A / at 440 V / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 220 V / maximum 500 / 2 Continuous current • rated value • at 65 ° C / rated value • at 67 ° C / rated value • at 67 ° C / rated value • at 680 ° C / rated v		500 A
### A AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum at DC-23 A / at 400 V / at 50/60 Hz / rated value / maximum at DC-23 A / at 440 V / rated value / maximum at DC-23 A / at 440 V / rated value / maximum at DC-22 A / at 440 V / rated value / maximum at DC-22 A / at 420 V / rated value / maximum at DC-22 A / at 220 V / rated value / maximum at DC-21 A / at 220 V / rated value / maximum at DC-21 A / at 220 V / rated value / maximum at DC-21 A / at 220 V / rated value / maximum at DC-21 A / at 440 V / rated value / maximum at DC-21 A / at 440 V / rated value / maximum at DC-21 A / at 220 V / maximum at DC-21 A / at 220 V / maximum at DC-21 A / at 220 V / maximum at DC-21 A / at 220 V / rated value / maximum at DC-21 A / at 220 V / rated value / maximum at DC-21 A / at 220 V / rated value / maximum / maximu		500 A
### AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum at AC-23 A / at 490 V / at 50/60 Hz / rated value / maximum at AC-23 A / at 440 V / rated value / maximum 500 / 3		
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum • at DC-23 A / at 690 V / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-22 A / at 420 V / rated value / maximum • at DC-21 A / at 220 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 220 V / maximum • at DC-21 A / at 220 V / maximum • rated value • at 45 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value • at 80 °C / rated value •	• at AC-22 A / at 400 V / at 50/60 Hz / rated value	500 A
### ### ##############################	/ maximum	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum 500 / 3 • at DC-23 A / at 220 V / rated value / maximum 500 / 2 • at DC-22 A / at 220 V / rated value / maximum 500 / 2 • at DC-21 A / at 220 V / rated value / maximum 500 / 3 • at DC-21 A / at 220 V / rated value / maximum 500 / 3 • at DC-21 A / at 220 V / maximum 500 / 2 Continuous current • rated value 500 A • at 40 °C / rated value 500 A • at 45 °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 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 60 °C / ro	• at AC-22 A / at 690 V / at 50/60 Hz / rated value	500 A
/ maximum • at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum • at DC-23 A / at 420 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-22 A / at 220 V / rated value / maximum • at DC-21 A / at 420 V / rated value / maximum • at DC-21 A / at 220 V / maximum • at DC-21 A / at 220 V / maximum • at DC-21 A / at 220 V / maximum • oo 0 / 2 Continuous current • rated value • at 40 °C / rated value • at 45 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 67 °C / rated value • at 70 °C / rated value • at 690 V / for the gG fuse / at 690 V / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maxi		
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum • at DC-23 A / at 440 V / rated value / maximum 500 / 3 • at DC-23 A / at 420 V / rated value / maximum 500 / 2 • at DC-22 A / at 440 V / rated value / maximum 500 / 2 • at DC-22 A / at 440 V / rated value / maximum 500 / 2 • at DC-22 A / at 220 V / rated value / maximum 500 / 2 • at DC-21 A / at 220 V / rated value / maximum 500 / 2 Continuous current • rated value 500 A • at 40 °C / rated value 500 A • at 45 °C / rated value 500 A • at 55 °C / rated value 500 A • at 55 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 66 °C / rated value 500 A		500 A
## A DC-23 A / at 440 V / rated value / maximum		500 A
• at DC-23 A / at 440 V / rated value / maximum • at DC-23 A / at 220 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-22 A / at 440 V / rated value / maximum • at DC-21 A / at 440 V / rated value / maximum • at DC-21 A / at 420 V / rated value / maximum • at DC-21 A / at 220 V / maximum 500 / 3 • at DC-21 A / at 220 V / maximum 500 / 2 Continuous current • rated value • at 40 °C / rated value • at 45 °C / rated value • at 45 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 70 °C / rated value • at 80 °C / rated value • 65 521 A maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA		300 A
at DC-22 A / at 440 V / rated value / maximum at DC-22 A / at 220 V / rated value / maximum 500 / 2 at DC-21 A / at 440 V / rated value / maximum 500 / 2 Continuous current arated value at 40 °C / rated value at 45 °C / rated value at 55 °C / rated value at 66 °C / rated value 500 A at 66 °C / rated value 500 A at 70 °C / rated value 500 A continuous current / at DC-21 A / at 200 V / maximum 500 / 2 Continuous current at 55 °C / rated value 500 A at 65 °C / rated value 500 A cat 60 °C / rated value 500 A cat 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Continuous current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) at 690 V AC/440 V DC / limited to 1 s / rated 30 kA		500 / 3
• at DC-22 A / at 220 V / rated value / maximum 500 / 2 • at DC-21 A / at 440 V / rated value / maximum 500 / 3 • at DC-21 A / at 220 V / maximum 500 / 2 Continuous current • rated value 500 A • at 40 °C / rated value 500 A • at 45 °C / rated value 500 A • at 55 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 65 °C / rated value 500 A • at 70 °C / rated value 500 A • at 70 °C / rated value 500 A Let-through current / of the fuse / at 500 V / 65 521 A maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / 61 600 A maximum permissible • for combination switch + fuse / at 500 V / 61 600 A maximum permissible Short-time current resistance (lcw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	• at DC-23 A / at 220 V / rated value / maximum	500 / 2
at DC-21 A / at 440 V / rated value / maximum at DC-21 A / at 220 V / maximum 500 / 2 Continuous current rated value 500 A at 40 °C / rated value 500 A at 45 °C / rated value 500 A at 55 °C / rated value 500 A at 65 °C / rated value 500 A at 66 °C / rated value 500 A at 67 °C / rated value 500 A at 68 °C / rated value 500 A at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) at 690 V AC/440 V DC / limited to 1 s / rated	• at DC-22 A / at 440 V / rated value / maximum	500 / 3
• at DC-21 A / at 220 V / maximum Continuous current • rated value • at 40 °C / rated value • at 45 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 67 °C / rated value • at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) • at 690 V AC/440 V DC / limited to 1 s / rated	• at DC-22 A / at 220 V / rated value / maximum	500 / 2
Continuous current • rated value • at 40 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 50 °C / rated value • at 50 °C / rated value • at 60 °C / rated value • at 70 °C / rated value • at 70 °C / rated value • at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	• at DC-21 A / at 440 V / rated value / maximum	500 / 3
rated value at 40 °C / rated value at 45 °C / rated value at 45 °C / rated value at 50 °C / rated value at 50 °C / rated value at 65 °C / rated value at 66 °C / rated value at 66 °C / rated value at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / stated value Let-through current / with closed switch at 690 V / for combination switch + gG fuse / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + fuse / at 400 V / maximum permissible For combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) at 690 V AC/440 V DC / limited to 1 s / rated Sound Sou	• at DC-21 A / at 220 V / maximum	500 / 2
at 40 °C / rated value 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 60 °C / rated value 500 A at 65 °C / rated value 500 A at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + gG fuse / maximum permissible of or combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 400 V / maximum permissible of or combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	Continuous current	
at 45 °C / rated value at 50 °C / rated value at 50 °C / rated value 500 A at 60 °C / rated value 500 A at 60 °C / rated value 500 A at 65 °C / rated value 500 A at 70 °C / rated value 500 A continuous current / at DC / rated value 500 A Continuous current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + gG fuse / maximum permissible for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) at 690 V AC/440 V DC / limited to 1 s / rated 500 A 500 A 500 A 65 521 A 65 521 A 66 520 A 67 600 A 68 600 A 69 600 A 69 600 A 69 600 A 60 600 A	• rated value	500 A
at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value at 60 °C / rated value at 65 °C / rated value at 65 °C / rated value at 70 °C / rated value 500 A continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / 65 521 A maximum permissible Let-through current / of the gG fuse / at 690 V / 7 maximum permissible Let-through current / with closed switch at 690 V / for combination switch + gG fuse / 7 maximum permissible for combination switch + fuse / at 400 V / 7 maximum permissible for combination switch + fuse / at 500 V / 61 600 A maximum permissible for combination switch + fuse / at 500 V / 61 600 A maximum permissible for combination switch + fuse / at 500 V / 61 600 A maximum permissible Short-time current resistance (lcw) at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	• at 40 °C / rated value	500 A
at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 65 °C / rated value at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + gG fuse / maximum permissible 4 61 600 A 61 600 A 61 600 A 63 65 521 A 64 65 521 A 65 521 A 66 67 67 C / rated value 66 67 68 68 69 0 V / for combination switch + gG fuse / maximum permissible 61 600 A	• at 45 °C / rated value	500 A
at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / 65 521 A maximum permissible Let-through current / of the gG fuse / at 690 V / 7 maximum permissible Let-through current / with closed switch at 690 V / for combination switch + gG fuse / 7 maximum permissible 4 500 A 54 005 A 54 500 A 61 600 A 61 600 A maximum permissible for combination switch + fuse / at 400 V / 61 600 A maximum permissible 61 600 A maximum permissible Short-time current resistance (Icw) at 690 V AC/440 V DC / limited to 1 s / rated 500 A 500 A 500 A 61 600 A 61 600 A 61 600 A	• at 50 °C / rated value	500 A
at 65 °C / rated value at 70 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch at 690 V / for combination switch + gG fuse / maximum permissible for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible At 690 V AC/440 V DC / limited to 1 s / rated 30 kA	• at 55 °C / rated value	500 A
at 30 °C / rated value 500 A Continuous current / at DC / rated value 500 A Let-through current / of the fuse / at 500 V / 65 521 A maximum permissible Let-through current / of the gG fuse / at 690 V / 70	• at 60 °C / rated value	500 A
Continuous current / at DC / rated value Let-through current / of the fuse / at 500 V / 65 521 A maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / 61 600 A Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	• at 65 °C / rated value	500 A
Let-through current / of the fuse / at 500 V / maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	● at 70 °C / rated value	500 A
maximum permissible Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	Continuous current / at DC / rated value	500 A
Let-through current / of the gG fuse / at 690 V / maximum permissible Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) • at 690 V AC/440 V DC / limited to 1 s / rated 54 500 A 61 600 A 61 600 A		65 521 A
Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	·	E4 00E A
Let-through current / with closed switch • at 690 V / for combination switch + gG fuse / maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 54 500 A 61 600 A 61 600 A		54 005 A
maximum permissible • for combination switch + fuse / at 400 V / maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 61 600 A 61 600 A 63 600 A		
 for combination switch + fuse / at 400 V / maximum permissible for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) at 690 V AC/440 V DC / limited to 1 s / rated 61 600 A 61 600 A 63 600 A 64 600 A 65 600 A 66 600 A 67 600 A 68 600 A 69 600 A 600 A 61 600 A		54 500 A
maximum permissible • for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA	maximum permissible	
for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (Icw) at 690 V AC/440 V DC / limited to 1 s / rated 30 kA		61 600 A
maximum permissible Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA		
Short-time current resistance (Icw) • at 690 V AC/440 V DC / limited to 1 s / rated 30 kA		61 600 A
• at 690 V AC/440 V DC / limited to 1 s / rated 30 kA		
	·	30 kA

Main circuit

Operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	250 kW
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	355 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	500 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Auxiliary circuit	
Number of connected NC contacts / for auxiliary	0
contacts	
Number of connected NO contacts / for auxiliary	0
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
	ŭ
Suitability	
Suitability for use	u.
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
optional	
— motor drive	No
— Voltage trigger	No
Short circuit	
Short-circuit current making capacity (Icm)	62 kA
 for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum 	63 kA
	63 kA
 for switch disconnector / without fuse link / rated value / minimum 	
rated value / minimum	

Conditional short-circuit current / with line-side fuse protection

• at 500 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 (25 240 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	1x (25 240 mm²), 2x (25 240 mm²)
Type of electrical connection	
for main current circuit	flat connector

Mechanical Design	
Height	235 mm
Width	260 mm
Depth	110 mm
Mounting type	screw fixing
Mounting type	
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	No
Mounting position	any
Net weight	7 300 g

Environmental conditions	
Ambient temperature	
	-25 +70 °C
	-50 +80 °C

Certificates		
Reference code		
● acc. to DIN EN 61346-2	Q	
 acc. to DIN EN 81346-2 	Q	

General Product Approval	Declaration of	Shipping Ap-	other
	Conformity	proval	





Miscellaneous





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=3KD4430-0QE10-0

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

https://support.industry.siemens.com/cs/ww/en/ps/3KD4430-0QE10-0

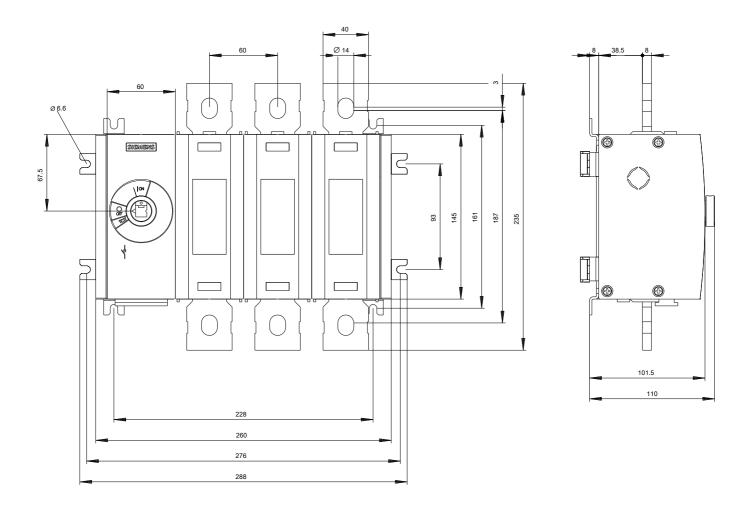
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4430-0QE10-0

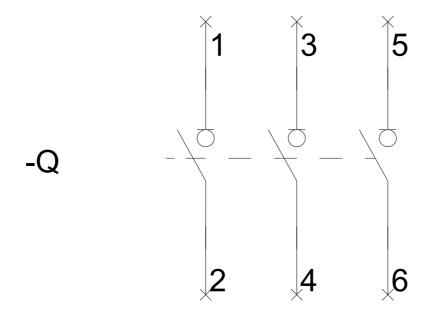
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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