SIEMENS

Data sheet 3KD4630-0QE20-0



Switch disconnector 630 A, Size 4, 3-pole Front operating mechanism center 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	Front 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	4
mechanical service life (switching cycles) / typical	8 000
electrical endurance (switching cycles)	
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 	647 250 A ² ·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 A ² ·s
 of the gG/aM SITOR fuse / at 1000 V / maximum permissible 	520 000 A ² ·s
 of the molded case circuit breaker / at 415 V / maximum permissible 	16 000 000 A ² ·s
position / of the switch operating mechanism	after the first pole
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 W
 with conventional rated thermal current / per device 	51 W
 for rated value of the current / at AC / in hot 	17 W
operating state / per pole	
Current	
operational current	620 A
• at 35 °C / rated value	630 A
• at 40 °C / rated value	630 A
 at 45 °C / rated value at 50 °C / rated value 	630 A 630 A
at 50 C / rated value at 55 °C / rated value	
at 55 °C / rated value at 60 °C / rated value	630 A 630 A
at 60 C / rated value at 65 °C / rated value	630 A
at 70 °C / rated value	630 A
at AC / rated value at AC / rated value	630 A
at AC / rated value at AC-23 A / at 690 V / rated value	630 A
• at AC-23 A / at 500 V / rated value	630 A
• at AC-23 A / at 400 V / rated value	630 A
• at AC-22 A / at 1000 V / maximum	630 A
• at AC-22 A / at 1000 V / maximum	630 A
at AC-22 A / at 500 V / rated value	630 A
• at AC-22 A / at 400 V / rated value	630 A
• at AC-20 A / at 1000 V / maximum	630 A
at AC-21 A / at 500 V / rated value	630 A
at AC-21 A / at 690 V / rated value	630 A
• at DC-20 A / at 1000 V / maximum	630 A / 1
at DC-23 A / at 440 V / rated value / note	630 A / 3
at DC-23 A / at 220 V / rated value / note	630 A / 2
at DC-22 A / at 440 V / rated value / note	630 A / 3
• at DC-22 A / at 220 V / rated value / note	630 A / 2
at DC-21 A / at 440 V / rated value / note	630 A / 3
at DC-21 A / at 220 V / rated value	630 A / 2
continuous current / of upstream fuse / at 500 V and 690 V	1 000 A
/ rated value	4 000 1
continuous current / of upstream fuse / at 1000 V / rated value	1 000 A
continuous current / of upstream molded case circuit	1 000 A
breaker / at 415 V / rated value	
operational current / at DC / rated value	630 A
let-through current / of the fuse / at 500 V / maximum permissible	118 000 A
let-through current / of the gG fuse / at 690 V / maximum permissible	90 600 A
let-through current / of the gG/aM SITOR fuse / at 1000 V / maximum permissible	43 000 A
let-through current / of the molded case circuit breaker / at 415 V / maximum permissible	72 500 A
Main circuit	
operating power	
• at AC-23 A / at 500 V / rated value	400 kW
operational current / rated value	630 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	9
number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts	8
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Suitability	
suitability for use • main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch	Yes
maintenance/repair switch	Yes
Product details	165
product feature / interlock	No
product component	110
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	30 kA
DC / limited to 1 s / rated value	
short-circuit current making capacity (Icm) / for switch disconnector	
 at 1000 V AC / without fuse link / rated value / minimum 	80 kA
 at DC 440 V / without fuse link / rated value / minimum 	42.6 kA
without fuse link / rated value / minimum	80 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 (25 240 mm²)
type of connectable conductor cross-sections	
for copper busbar	'1 x (40 x 10 mm²), 2 x (40 x 5 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
fastening method	screw fixing
fastening method	No
4-hole front mounting	No No
front mounting with central attachment roil mounting	No No
• rail mounting	No
mounting position net weight	any 7 422 g
Environmental conditions	1 722 y
ambient temperature / during operation • minimum	-25 °C
maximum maximum	-25 C 70 °C
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ambient temperature / during storage

minimum

-50 °C 80 °C

maximum

General Product Approval

Declaration of Conformity





Miscellaneous



UK Declaration of Conformity



Marine / Shipping

other





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=3KD4630-0QE20-0

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

https://support.industry.siemens.com/cs/ww/en/ps/3KD4630-0QE20-0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4630-0QE20-0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





