SIEMENS

Data sheet 3KD0543-2LG20-3



Switch disconnector 100A, size 02, 4-pole Front operating mechanism center Complete unit with direct operating mechanism red/yellow Box terminal

Model		
product brand name	SENTRON	
product designation	3KD switch disconnector	
design of the product	Switch	
display version / for switch position indicator manual operation	0-1	
design of the actuating element	Short rotary knob	
type of the driving mechanism	Front operating mechanism	
type of the driving mechanism / motor drive	No	
General technical data		
number of poles	4	
type of device	fixed mounting	
size of switch disconnector	'02	
mechanical service life (switching cycles) / typical	100 000	
electrical endurance (switching cycles)		
• at AC-23 A / at 690 V	6 000	
I2t value		
 of the fuse / at 400 V / maximum permissible 	80 000 A ² ·s	
 of the fuse / at 500 V / maximum permissible 	80 000 A ² ·s	
 of the gG fuse / at 690 V / maximum permissible 	75 000 A²·s	
position / of the switch operating mechanism	central	
overvoltage in percent / relative to the operating voltage / at AC / at 400, 500, 690 V / at 50/60 Hz	5 %	
overvoltage category	III	
degree of pollution	3	
Voltage		
insulation voltage		
• rated value	750 V	
surge voltage resistance / rated value	8 kV	
Protection class		
protection class IP	IP10	
protection class IP		
 with closed switch / with cover or cable lug cover 	IP10	
on the front	IP40	
Dissipation		
power loss [W]		
 with conventional rated thermal current / per pole 	7.7 W	
 with conventional rated thermal current / per device 	7.7 W	
 for rated value of the current / at AC / in hot operating state / per pole 	23 W	

Current	
operational current	
at 35 °C / rated value	100 A
at 40 °C / rated value	100 A
at 45 °C / rated value	100 A
at 50 °C / rated value	100 A
at AC / rated value	100 A
at AC-23 A / at 690 V / rated value	35 A
at AC-23 A / at 500 V / rated value	35 A
at AC-23 A / at 400 V / rated value	80 A
at AC-22 A / at 690 V / rated value	100 A
at AC-22 A / at 500 V / rated value	100 A
at AC-22 A / at 400 V / rated value	100 A
at AC-21 A / at 500 V / rated value	100 A
at AC-21 A / at 690 V / rated value	100 A
continuous current / of upstream fuse / at 500 V and 690 V	100 A
/ rated value let-through current / of the fuse / at 400 V / maximum permissible	10 500 A
let-through current / of the fuse / at 500 V / maximum permissible	7 000 A
let-through current / of the gG fuse / at 690 V / maximum	7 000 A
permissible Main circuit	
operating power	
at AC-23 A / at 500 V / rated value	22 kW
operational current / rated value	100 A
Auxiliary circuit	100 A
	0
number of connected NC contacts / for auxiliary contacts	0
number of connected NO contacts / for auxiliary contacts number of connected CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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	Yes
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-circuit current making capacity (lcm) / for switch disconnector	
without fuse link / rated value / minimum	3.55 kA
conditional short-circuit current / with line-side fuse protection	
protection ■ at 500 V / by gG fuse / rated value	50 kA
at 690 V / by gG fuse / rated value at 690 V / by gG fuse / rated value	50 kA
- at 500 v / by go luse / lateu value	00 10 1

Connections	
type of connectable conductor cross-sections / for copper conductor	
• solid	1 x (4 50) mm ²
 finely stranded / with core end processing 	1 x (4 35) mm ²
• stranded	1 x (4 50) mm²
type of electrical connection / for main current circuit	box terminal
Mechanical Design	
height	110 mm
width	96 mm
depth	95 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
 4-hole front mounting 	No
 front mounting with central attachment 	No
rail mounting	Yes
mounting position	any
net weight	475 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-5 °C
• maximum	40 °C
ambient temperature / during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity

Confirmation



Miscellaneous



UK Declaration of Conformity



other

Miscellaneous

Further information

 $Information-\ and\ Download center\ (Catalogs,\ Brochures, \ldots)$

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD0543-2LG20-3

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

https://support.industry.siemens.com/cs/ww/en/ps/3KD0543-2LG20-3

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

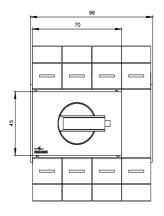
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD0543-2LG20-3

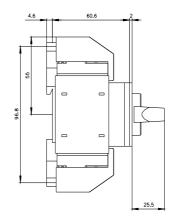
CAx-Online-Generator

http://www.siemens.com/cax

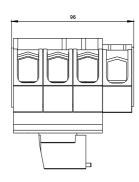
Tender specifications

http://www.siemens.com/specifications









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