SIEMENS

Data sheet

3KD0443-2LG20-3

Switch disconnector 80A, 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	O-1	
design of the operating mechanism	Short rotary knob	
type of the driving mechanism	Front operating mechanism	
type of the driving mechanism / motor drive	No	
General technical data		
General technical data		
General technical data number of poles	4	
	4 fixed mounting	
number of poles		
number of poles type of device	fixed mounting	
number of poles type of device size of switch disconnector	fixed mounting 02	
number of poles type of device size of switch disconnector mechanical service life (switching cycles) / typical	fixed mounting 02	

 I2t value / of the fuse / at 500 V / maximum permissible 	80 000 A ^{2.} s	
 I2t value / 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	
Supply voltage		
operating current / at AC / rated value	80 A	
operating voltage		
• at AC / at 50/60 Hz / rated value	690 V	
Protection class		
protection class IP	IP10	
protection class IP		
 with closed switch / with cover or cable lug 	IP10	
cover		
• on the front	IP40	
Dissipation		
power loss [W]		
 with conventional rated thermal current / per pole 	5 W	
 with conventional rated thermal current / per device 	5 W	
 for rated value of the current / at AC / in hot 	14.8 W	
operating state / per pole		
Current		
 operating current / at AC-23 A / at 690 V / rated value 	30 A	
 operating current / at AC-23 A / at 500 V / rated value 	30 A	
 operating current / at AC-23 A / at 400 V / rated value 	75 A	
 operating current / at AC-22 A / at 690 V / rated value 	80 A	
 operating current / at AC-22 A / at 500 V / rated value 	80 A	

 operating current / at AC-22 A / at 400 V / rated value 	80 A
 operating current / at AC-21 A / at 400 V / rated value 	80 A
 operating current / at AC-21 A / at 500 V / rated value 	80 A
 operating current / at AC-21 A / at 690 V / rated value 	80 A
 operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum 	30 A
 operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum 	80 A
 operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum 	80 A
 operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum 	80 A
 operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum 	75 A
 operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum 	30 A
continuous current	
rated value	80 A
continuous current / of upstream fuse / at 500 V and 690 V / rated value	100 A
let-through current / of the fuse / at 400 V / maximum permissible	10 000 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 permissible	7 000 A
Main circuit	
operating power	
at AC-23 A / at 400 V / at 50/60 Hz / rated value	37 kW
• at AC-23 A / at 500 V / rated value	18.5 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	30 kW
operating current / rated value	80 A
Auxiliary circuit	
number of connected NC contacts / for auxiliary	0
contacts	
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
	U

number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
-	
Suitability	
suitability for use	Νο
• main switch	
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 short-circuit current making capacity (Icm)	
	3.55 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / 	3.55 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum 	3.55 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse 	3.55 kA 50 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection 	
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value 	50 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for 	50 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for copper conductor 	50 kA 50 kA
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for copper conductor solid 	50 kA 50 kA 1 x (4 50) mm²
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for copper conductor solid finely stranded / with core end processing 	50 kA 50 kA 1 x (4 50) mm ² 1 x (4 35) mm ²
 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for copper conductor solid finely stranded / with core end processing stranded 	50 kA 50 kA 1 x (4 50) mm²
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 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for copper conductor solid finely stranded / with core end processing stranded type of electrical connection for main current circuit 	50 kA 50 kA 1 x (4 50) mm ² 1 x (4 35) mm ² 1 x (4 50) mm ² box terminal
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 short-circuit current making capacity (Icm) for switch disconnector / without fuse link / rated value / minimum conditional short-circuit current / with line-side fuse protection at 500 V / by gG fuse / rated value at 690 V / by gG fuse / rated value Connections type of connectable conductor cross-sections / for copper conductor solid finely stranded / with core end processing stranded type of electrical connection for main current circuit 	50 kA 50 kA 1 x (4 50) mm ² 1 x (4 35) mm ² 1 x (4 50) mm ² box terminal

mounting type	
 front mounting with 4-hole attachment 	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
Certificates	

reference code	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

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=3KD0443-2LG20-3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KD0443-2LG20-3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD0443-2LG20-3

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications







