SIEMENS

Data sheet 3KD0632-2LG20-3

Switch disconnector 125A, size 02, 3-pole Front operating mechanism center Complete unit with direct operating mechanism gray 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-I
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	
number of poles	3
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	130 000 $A^2 \cdot s$

• I2t value / of the fuse / at 500 V / maximum permissible	130 000 A²·s
• I2t value / of the gG fuse / at 690 V / maximum permissible	130 000 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	125 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 cover	IP10
• on the front	IP40

Dissipation	
power loss [W]	
• with conventional rated thermal current / per pole	12 W
• with conventional rated thermal current / per device	12 W
• for rated value of the current / at AC / in hot operating state / per pole	36 W

Current	
• operating current / at AC-23 A / at 690 V / rated value	39 A
• operating current / at AC-23 A / at 500 V / rated value	39 A
• operating current / at AC-23 A / at 400 V / rated value	90 A
• operating current / at AC-22 A / at 690 V / rated value	125 A
• operating current / at AC-22 A / at 500 V / rated value	125 A

• operating current / at AC-22 A / at 400 V / rated value	125 A
• operating current / at AC-21 A / at 400 V / rated value	125 A
• operating current / at AC-21 A / at 500 V / rated value	125 A
• operating current / at AC-21 A / at 690 V / rated value	125 A
• operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	39 A
• operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	125 A
• operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	125 A
• operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	125 A
• operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	90 A
• operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	39 A
continuous current	
• rated value	125 A
continuous current / of upstream fuse / at 500 V and 690 V / rated value	125 A
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 permissible	7 000 A

Main circuit

operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	45 kW
• at AC-23 A / at 500 V / rated value	22 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	37 kW
operating current / rated value	125 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	2
number of NO contacts / for auxiliary contacts	2

Suitability

suitability for use	
• main switch	Yes
• switch disconnector	Yes
• EMERGENCY OFF switch	No
• 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 (Icm)	
• for switch disconnector / without fuse link / rated value / minimum	3.55 kA
conditional short-circuit current / with line-side fuse protection	
• at 500 V / by gG fuse / rated value	20 kA
• at 690 V / by gG fuse / rated value	20 kA

Connections

type of connectable conductor cross-sections / for copper conductor	
• solid	1 x (4 ... 50) mm²
• finely stranded / with core end processing	1 x (4 ... 35) mm²
• stranded	1 x (4 ... 50) mm²
type of electrical connection	
• for main current circuit	box terminal

Mechanical Design

height	110 mm
width	73 mm
depth	95 mm
mounting type	Screw fixing and standard rail mounting 35 mm

mounting type	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	Yes
mounting position	any
net weight	385 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=3KD0632-2LG20-3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3KD0632-2LG20-3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD0632-2LG20-3

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

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