

Switch disconnecter 16A, size 01, 4-pole Front operating mechanism center Complete unit with direct operating mechanism gray Box terminal



Model	
product brand name	SETRON
product designation	3KD switch disconnecter
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	4
type of device	fixed mounting
size of switch disconnecter	01
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
• I _{2t} value / of the fuse / at 500 V / maximum permissible	6 400 A ² ·s

• I2t value / of the gG fuse / at 690 V / maximum permissible	5 800 A ² ·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	16 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	0.3 W
• with conventional rated thermal current / per device	0.3 W
• for rated value of the current / at AC / in hot operating state / per pole	0.3 W

Current

• operating current / at AC-23 A / at 690 V / rated value	16 A
• operating current / at AC-23 A / at 500 V / rated value	16 A
• operating current / at AC-23 A / at 400 V / rated value	16 A
• operating current / at AC-22 A / at 690 V / rated value	16 A
• operating current / at AC-22 A / at 500 V / rated value	16 A
• operating current / at AC-22 A / at 400 V / rated value	16 A

• operating current / at AC-21 A / at 400 V / rated value	16 A
• operating current / at AC-21 A / at 500 V / rated value	16 A
• operating current / at AC-21 A / at 690 V / rated value	16 A
• operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	16 A
• operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	16 A
• operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	16 A
• operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	16 A
• operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	16 A
• operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	16 A
continuous current	
• rated value	16 A
continuous current / of upstream fuse / at 500 V and 690 V / rated value	32 A
let-through current / of the fuse / at 500 V / maximum permissible	3 700 A
let-through current / of the gG fuse / at 690 V / maximum permissible	3 700 A

Main circuit

operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	7.5 kW
• at AC-23 A / at 500 V / rated value	7.5 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	11 kW
operating current / rated value	16 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	1
number of NO contacts / for auxiliary contacts	1

Suitability

suitability for use	
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• main switch	Yes
• switch disconnecter	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 disconnecter / without fuse link / rated value / minimum	1.78 kA
conditional short-circuit current / with line-side fuse protection	
• at 500 V / by gG fuse / rated value	50 kA
• at 690 V / by gG fuse / rated value	50 kA

Connections

type of connectable conductor cross-sections / for copper conductor	
• solid	1 x (2,5 ... 35) mm ²
• finely stranded / with core end processing	1 x (2,5 ... 16) mm ²
• stranded	1 x (2,5 ... 5) mm ²
type of electrical connection	
• for main current circuit	box terminal

Mechanical Design

height	100 mm
width	83 mm
depth	92 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	355 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=3KD0142-2KG20-3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD0142-2KG20-3>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD0142-2KG20-3

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



