SIEMENS

Data sheet 3KD0142-2KG20-3



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

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
eneral technical data	
number of poles	4
type of device	fixed mounting
size of switch disconnector	01
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
l2t value	
 of the fuse at 400 V maximum permissible 	6 400 A²·s
• of the fuse at 500 V maximum permissible	6 400 A²·s
• of the gG fuse at 690 V maximum permissible	5 800 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
oltage	
insulation voltage	
• rated value	750 V
surge voltage resistance rated value	8 kV
rotection class	
protection class IP	IP10
protection class IP	
 with closed switch with cover or cable lug cover 	IP10
• on the front	IP40
issipation	
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

operating power	
at AC-23 A at 500 V rated value	8 kW
operational 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	
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 (lcm) for switch	
disconnector	
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) mm²
stranded	1 x (2,5 5) mm²
type of electrical connection for main current circuit	box terminal
Mechanical Design	
height	100 mm
width	83 mm
depth	92 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	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	

Approvals Certificates

General Product Approval

Confirmation







Miscellaneous



other Environment

<u>Confirmation</u> <u>Miscellaneous</u>

Environmental Confirmations

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

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

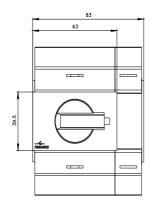
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD0142-2KG20-3

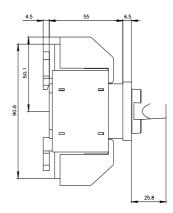
CAx-Online-Generator

http://www.siemens.com/cax

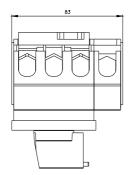
Tender specifications

http://www.siemens.com/specifications









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