

SWITCH-DISCONNECTOR 16A, FRAME SIZE 1, 3-POLE FRONT
OPERATING LEFT COMPLETE ASSEMBLY DIRECT OPERATING
MECHANISM GREY 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	ON-OFF-TEST
Design of the operating mechanism	Long rotary knob
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	3
Type of device	fixed mounting
Size of switch disconnector	1
Electrical endurance (switching cycles)	
at AC-23 A / at 690 V / at 50/60 Hz	6 000
at DC-23 A / at 440 V	1 500
I²t value / with closed switch / for combination switch + fuse / at 500 V / maximum	13 300 A ² ·s
I²t value / with closed switch / for combination switch + fuse / at 400 V / maximum	13 300 A ² ·s

• I_{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	13 700 A ² ·s
• I_{2t} value / of the fuse / at 500 V / maximum permissible	26 505 A ² ·s
• I_{2t} value / of the gG fuse / at 690 V / maximum permissible	24 005 A ² ·s
circuit-breaker / Design	3KD1
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	III

Voltage

Operating voltage / with current paths in series	
• with degree of pollution 2 / at DC / rated value / Note	440 V / 3
• with degree of pollution 3 / at DC / rated value / Note	440 / 3
Insulation voltage	
• rated value	1 000 V
Surge voltage resistance / rated value	8 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %

Protection class

Protection class IP	IP20
Protection class IP	
• with closed switch / with cover or cable lug cover	IP20
• on the front	IP20

Dissipation

Power loss [W]	
• with conventional rated thermal current / per pole	0.2 W

Electricity

Operating current	
• at AC-21 A / at 400 V / maximum	16 A
• at AC-21 A / at 500 V / maximum	16 A
• at AC-21 A / at 690 V / maximum	16 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	16 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	16 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	16 A

• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	16 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	16 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	16 A
• at DC-23 A / at 440 V / rated value / maximum	16 / 3
• at DC-22 A / at 440 V / rated value / maximum	16 / 3
• at DC-21 A / at 440 V / rated value / maximum	16 / 3
Current / at AC / rated value	16 A
Continuous current	
• rated value	16 A
• at 40 °C / rated value	16 A
• at 45 °C / rated value	16 A
• at 50 °C / rated value	16 A
• at 55 °C / rated value	16 A
• at 60 °C / rated value	16 A
• at 65 °C / rated value	16 A
• at 70 °C / rated value	16 A
Continuous current / at DC / rated value	16 A
Let-through current / of the fuse / at 500 V / maximum permissible	8 135 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	8 805 A
Let-through current / with closed switch	
• at 690 V / for combination switch + gG fuse / maximum permissible	7 500 A
• for combination switch + fuse / at 400 V / maximum permissible	7 000 A
• for combination switch + fuse / at 500 V / maximum permissible	7 000 A
Short-time current resistance (I_{cw})	
• at 690 V AC/440 V DC / limited to 1 s / rated value	3 kA

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 / at 50/60 Hz / rated value	7.5 kW
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	11 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V

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

Suitability

Suitability for use	
• 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
• optional	
— motor drive	No
— Voltage trigger	No

Short circuit

Short-circuit current making capacity (I_{cm})	
• for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum	7 kA
• for switch disconnecter / without fuse link / rated value / minimum	7 kA
Conditional short-circuit current / with line-side fuse protection	
• at 500 V / by gG fuse / rated value	100 kA
Short-time current resistance (I_{cw}) / limited to 1 s / rated value	3 kA

Connections

• Type of connectable conductor cross-sections / for copper conductor / solid	1x (1 ... 16 mm ²)
• Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing	1x (1 ... 35 mm ²)

Type of connectable conductor cross-sections / for copper conductor / stranded	1x (6 ... 35 mm ²)
Type of electrical connection for main current circuit	Box terminal

Mechanical Design

Height	119 mm
Width	94 mm
Depth	87 mm
Mounting position	any
Mounting type	Screw fixing and standard rail mounting 35 mm
Mounting type - front mounting with 4-hole attachment - front mounting with central attachment - rail mounting	No No Yes
Net weight	750 g

Environmental conditions

Degree of pollution	3
Ambient temperature - during operation / minimum - during operation / maximum - during storage / minimum - during storage / maximum	-25 °C 70 °C -50 °C 80 °C

Certificates

Equipment marking - acc. to DIN EN 61346-2 - acc. to DIN EN 81346-2	Q Q
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General Product Approval	Declaration of Conformity
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[Miscellaneous](#)



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=3KD1632-2ME10-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD1632-2ME10-0>

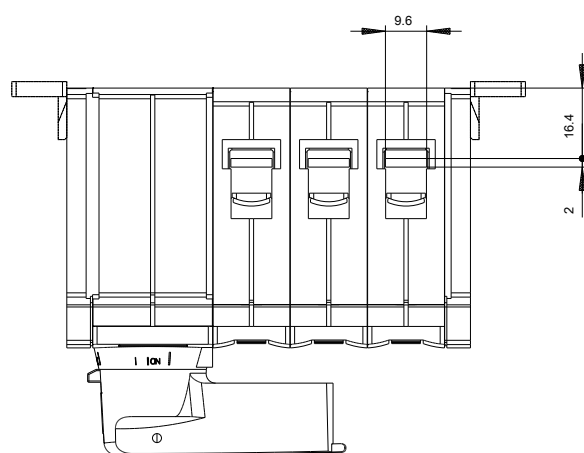
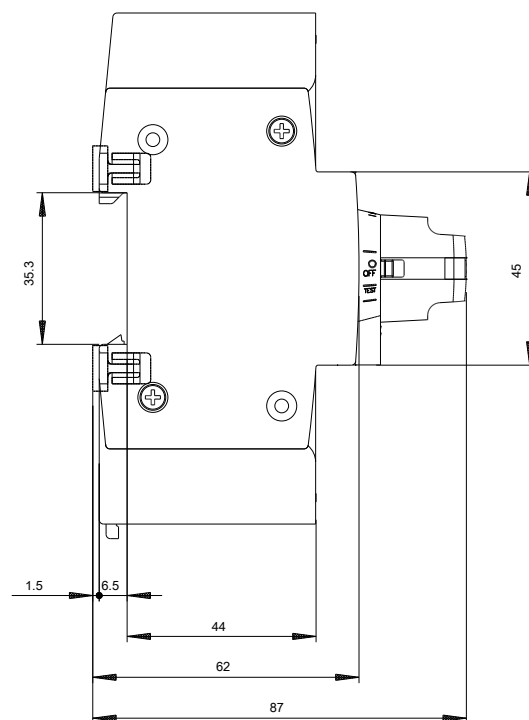
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1632-2ME10-0

CAX-Online-Generator

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

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



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