SIEMENS

Data sheet 3KD1640-2ME10-0

Switch disconnector 16A, Size 1, 4-pole Front operating mechanism left Basic unit without handle Box terminal



Model	
Product brand name	SENTRON
Product designation	3KD switch disconnector
Design of the product	Switch
Display version / for switch position indicator door- coupling rotary operating mechanism	ON-OFF
Design of the operating mechanism	Without handle
Type of the driving mechanism / motor drive	No

General technical data	
Number of poles	4
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 A²·s
• I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum	13 300 A ² ·s

• I2t value / with closed switch / at 690 V / for	13 700 A²·s
combination switch + gG fuse / maximum	
• I2t value / of the fuse / at 500 V / maximum	26 505 A ² ·s
permissible	
• I2t value / of the gG fuse / at 690 V / maximum	24 005 A ² ·s
permissible	
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 /	440 V / 3
Note	
• with degree of pollution 3 / at DC / rated value /	440 / 3
Note	
Insulation voltage	
• rated value	1 000 V
Surge voltage resistance / rated value	8 kV
Overvoltage in percent / relative to the operating	10 %
voltage / at AC / at 50/60 Hz	
Protection class	
Protection class IP	IP20
Protection class IP	
with closed switch / with cover or cable lug	IP20
cover	
• on the front	IP20
Dissipation	
Power loss [W]	
• with conventional rated thermal current / per	0.1 W
pole	
• with a successful safe of the successful successful said	0.4.10/

Dissipation	
Power loss [W]	
 with conventional rated thermal current / per pole 	0.1 W
 with conventional rated thermal current / per device 	0.4 W
 for rated value of the current / at AC / in hot operating state / per pole 	0.1 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
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 (Icw)	
• at 690 V AC/440 V DC / limited to 1 s / rated value	3 kA
Main circuit	
Operating power	7.5 140
• 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	000.17
• 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
Number of CO contacts / for auxiliary contacts	4
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0
Suitability	
Suitability for use	
Main switch	Yes
• switch disconnector	Yes
 EMERGENCY OFF switch 	Yes
• safety switch	Yes
• maintenance/repair switch	Yes
Product details	
Product feature / interlock	No
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 (Icm)	
 for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum 	7 kA
 for switch disconnector / 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
Connections	
Type of connectable conductor cross-sections / for copper conductor / solid	1x (1 16 mm²)

Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing
 Type of connectable conductor cross-sections / for copper conductor / stranded
 Type of electrical connection
 for main current circuit

Mechanical Design	
Height	119 mm
Width	112 mm
Depth	68 mm
Mounting position	any
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
Net weight	770 g

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

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Certificates

Reference code

• acc. to DIN EN 61346-2

• acc. to DIN EN 81346-2

Waste electronic equipment must not be disposed as unsorted municipal waste, e.g. household waste. For disposing the waste electronic equipment it is necessary to observe the current local national/international regulations.



General Product Approval

Declaration of Shipping Apother

Conformity proval





Miscellaneous





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=3KD1640-2ME10-0

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

https://support.industry.siemens.com/cs/ww/en/ps/3KD1640-2ME10-0

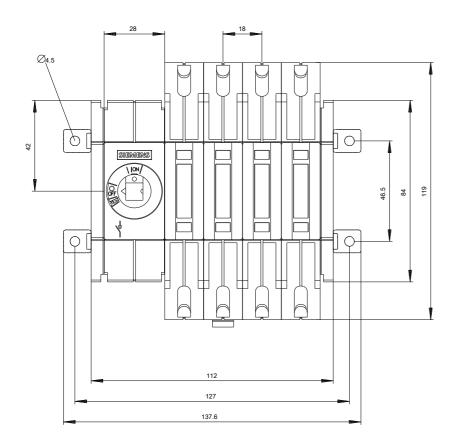
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1640-2ME10-0

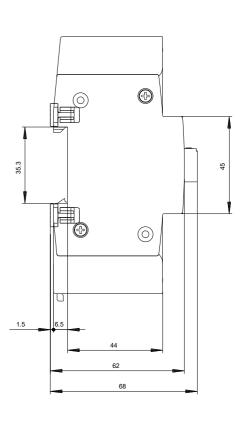
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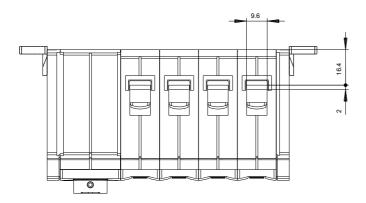
http://www.siemens.com/cax

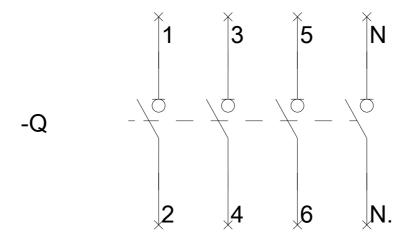
Tender specifications

http://www.siemens.com/specifications









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