



Switch disconnecter 16A, Size 1, 4-pole Lateral operating mechanism right Basic unit without handle Box terminal

Model	
product brand name	SENTRON
product designation	3KD switch disconnecter
design of the product	Switch
display version for switch position indicator door-coupling rotary operating mechanism	ON-OFF
design of the actuating element	Without handle
type of the driving mechanism	Side 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	1
mechanical service life (operating cycles) typical	15 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
• at DC-23 A at 440 V	1 500
I _{2t} value	
• with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum	2 331 A ² ·s
• of the gG/aM SITOR fuse at 1000 V maximum permissible	6 000 A ² ·s
• of the molded case circuit breaker at 415 V maximum permissible	480 000 A ² ·s
position of the switch operating mechanism	at the right end
overvoltage in percent relative to the operating voltage at AC at 400, 500, 690 V at 50/60 Hz	10 %
overvoltage category	III
degree of pollution	3
Voltage	
operating voltage with current paths in series	
• with degree of pollution 2 at DC rated value	440 V / 3
• with degree of pollution 3 at DC rated value	440 V / 3
insulation voltage	
• rated value	1 000 V
surge voltage resistance rated value	8 kV
operational current at AC-22 A at 1000 V maximum	16 A
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	0.1 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
Main circuit	
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	3
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use	
• main switch	Yes
• switch disconnecter	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes
Product details	
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-time withstand current (I _{cw}) at 1000 V AC/440 V DC limited to 1 s rated value	3 kA
short-circuit current making capacity (I _{cm}) for switch disconnecter	
• at 1000 V AC without fuse link rated value minimum	7 kA
• at DC 440 V without fuse link rated value minimum	7 kA
• without fuse link rated value minimum	7 kA
conditional short-circuit current with line-side fuse protection	
• at 415 V by molded case circuit breaker rated value	36 kA
• at 500 V by gG fuse rated value	100 kA
• at 690 V by gG fuse rated value	100 kA
Connections	
type of connectable conductor cross-sections with flexible busbar	2x (0,8x9 mm ²)
type of connectable conductor cross-sections	
• for copper busbar	1 x (2 x 9 mm ²)
type of connectable conductor cross-sections for copper conductor	
• solid	1x (1 ... 16 mm ²)
• finely stranded with core end processing	1x (1 ... 35 mm ²)
• stranded	1x (6 ... 35 mm ²)
type of electrical connection for main current circuit	box terminal
Mechanical Design	
height	119 mm
width	121.3 mm
depth	70 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	1 046 g

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

Certificates

reference code according to IEC 81346-2	Q
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Approvals Certificates

General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

[Confirmation](#)

Environment

[Environmental Conformations](#)

[Environmental Conformations](#)

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=3KD1644-2ME40-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KD1644-2ME40-0>

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

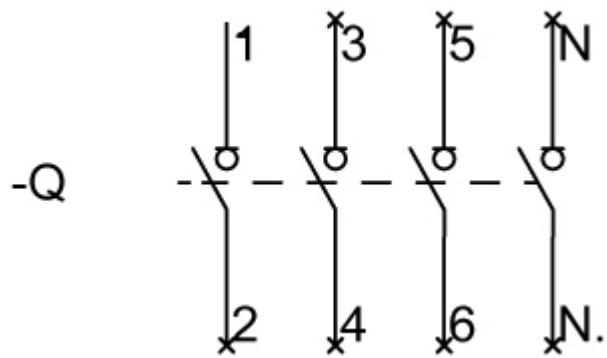
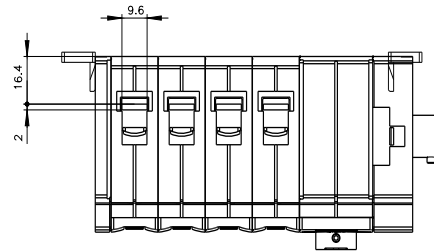
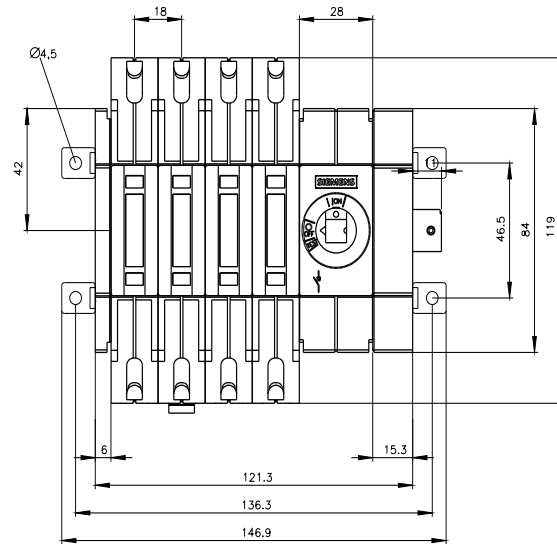
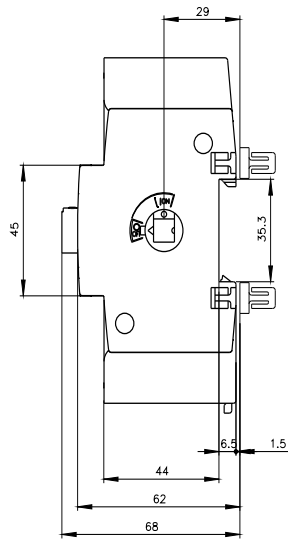
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD1644-2ME40-0

CAX-Online-Generator

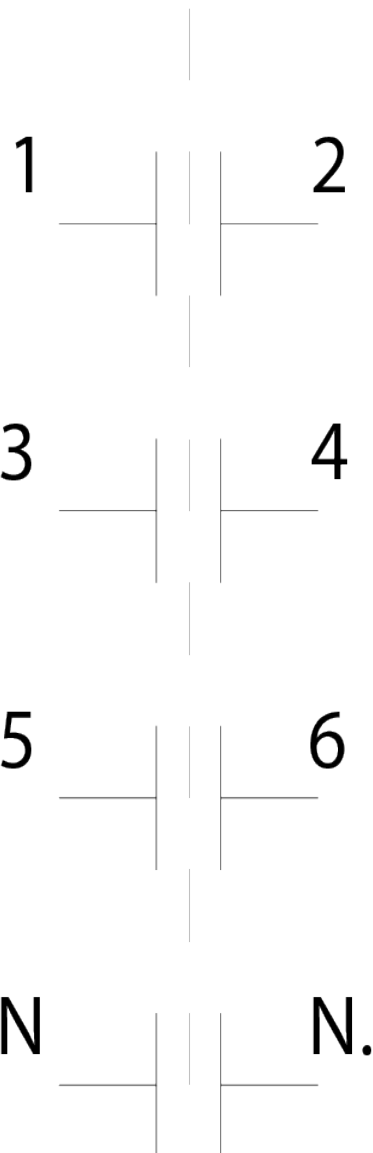
<http://www.siemens.com/cax>

Tender specifications

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



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