

switch disconnecter 3VA1 IEC frame 160 4-pole SD100, In=160A  
without overload protection w/o short-circuit protection nut keeper kit



Model	
Product brand name	SENTRON
Product designation	Switch disconnecter
Product version	in MCCB design
Number of poles	4
Design of the auxiliary release	without
Auxiliary contact version	Without
General technical data	
Rated insulation voltage $U_i$	800 V
Max. rated operational voltage $U_e$ with AC 50/60Hz	690 V
Max. rated operational voltage $U_e$ with DC	600 V
Power loss [W] / maximum	38 W
Mechanical service life (switching cycles) / typical	15 000
Product function	
• communication function	No
Net weight	1 100 g
Current	
Rated continuous current $I_u$	160 A

Short-time withstand current (I <sub>cw</sub> )	
<ul style="list-style-type: none"> <li>• limited to 1 s</li> </ul>	2 kA
Operating current	
<ul style="list-style-type: none"> <li>• at 40 °C</li> <li>• at 45 °C</li> <li>• at 50 °C</li> <li>• at 55 °C</li> <li>• at 60 °C</li> <li>• at 65 °C</li> <li>• at 70 °C</li> </ul>	160 A 160 A 160 A 158 A 155 A 153 A 150 A

### Mechanical Design

Height	130 mm
Width	101.6 mm
Depth	70 mm

### Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	busbar connection

### Auxiliary circuit

Product component	
<ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• Voltage trigger</li> <li>• undervoltage release with leading contact</li> <li>• Trip indicator</li> </ul>	No No No No
Number of CO contacts / for auxiliary contacts	0

### Accessories

Product extension / optional / motor drive	Yes
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### Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	-25 °C 70 °C -40 °C 80 °C

### Certificates

Reference code / acc. to DIN EN 81346-2	Q
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General Product Approval	EMC	Declaration of Conformity
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CCC



VDE

[Miscellaneous](#)



RCM



EG-Konf.

Test Certificates	Shipping Approval
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[Miscellaneous](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



LRS



RMRS

Shipping Approval	other
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[CCS / China Classification Society](#)

[Manufacturer Declaration](#)

[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=3VA1116-1AA42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1116-1AA42-0AA0>

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

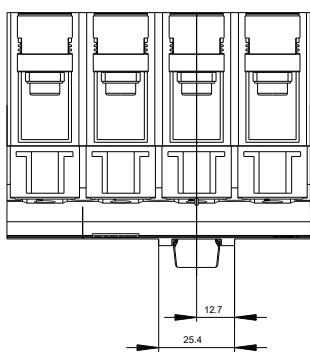
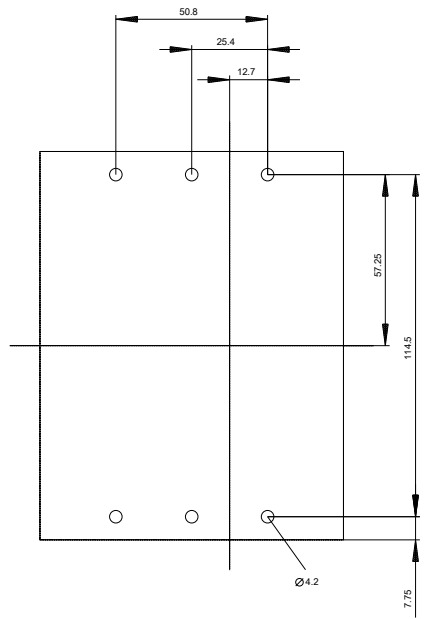
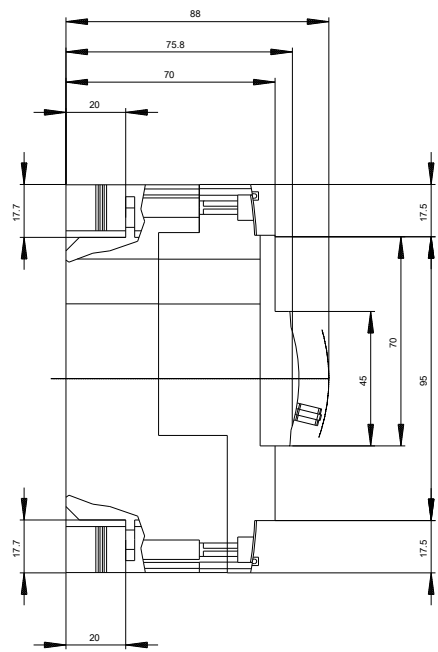
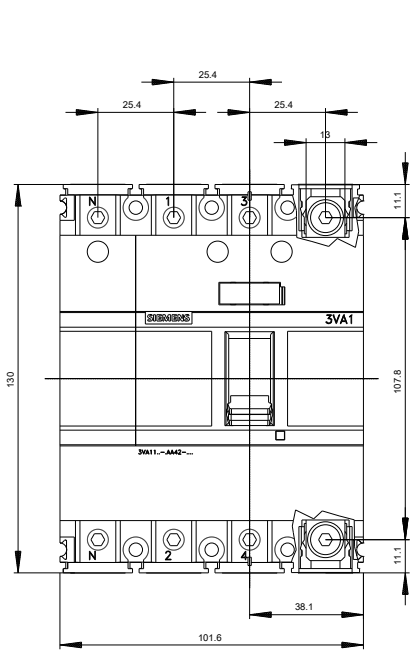
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1116-1AA42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1116-1AA42-0AA0)

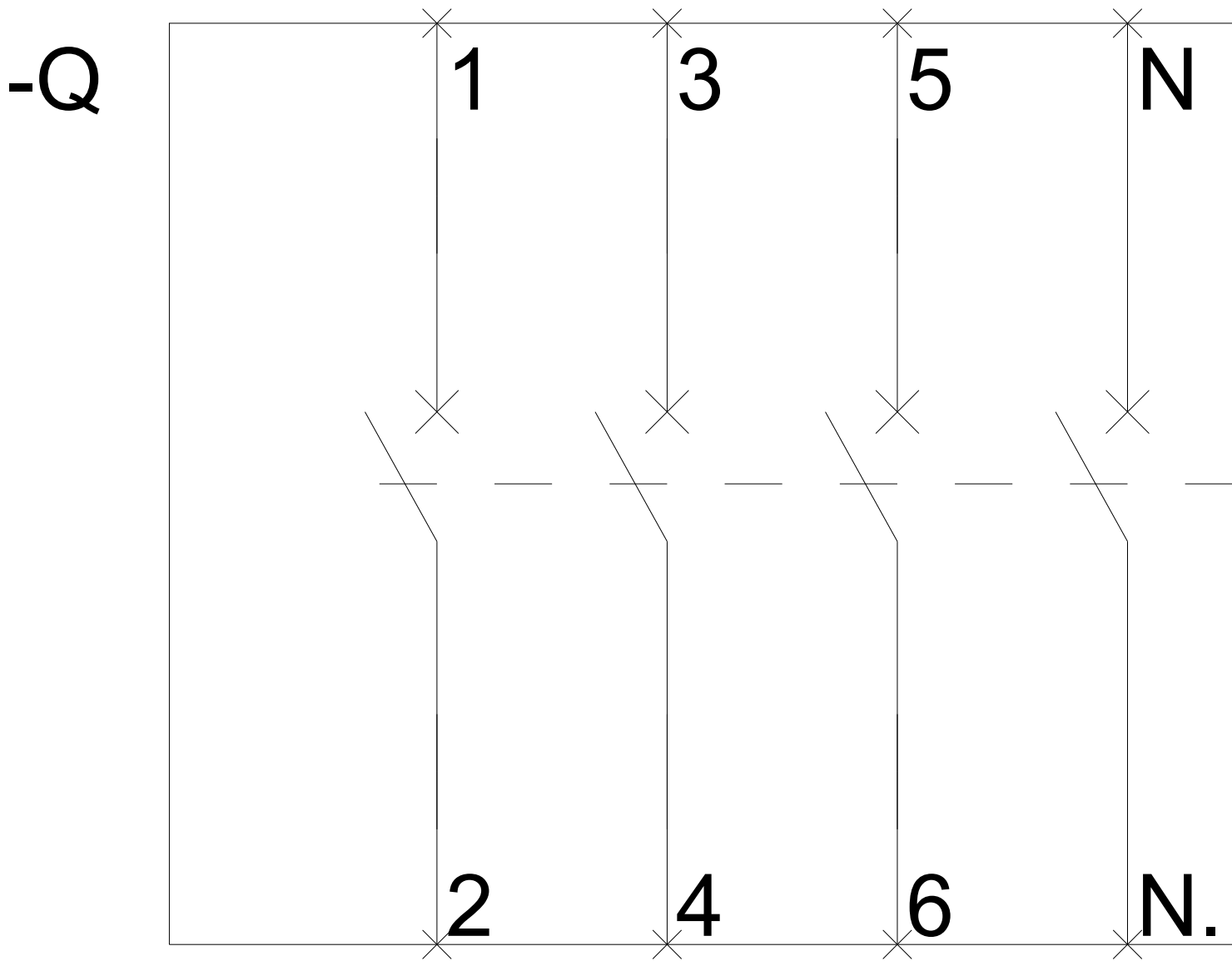
##### CAX-Online-Generator

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

##### Tender specifications

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





**last modified:**

07/18/2020