



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

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	in MCCB design
number of poles	4
design of the auxiliary release	without
design of the auxiliary switch	Without
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	38 W
mechanical service life (operating cycles) / typical	15 000
product function / communication function	No
Net Weight	1.154 kg
Current	
operational current	
• at 40 °C	160 A
• at 45 °C	160 A
• at 50 °C	160 A
• at 55 °C	158 A
• at 60 °C	155 A
• at 65 °C	153 A
• at 70 °C	150 A
let-through I <sub>2t</sub> value / at AC-23 B	
• at 400 V / maximum permissible	475 000 A <sup>2</sup> ·s
• at 500 V / maximum permissible	475 000 A <sup>2</sup> ·s
• at 690 V / maximum permissible	475 000 A <sup>2</sup> ·s
let-through current (I <sub>c</sub> ) / at AC-23 B	
• at 400 V / maximum permissible	20 kA
• at 690 V / maximum permissible	3 kA
Mechanical Design	
product component	
• undervoltage release	No
• voltage trigger	No
• undervoltage release with leading contact	No
• trip indicator	No
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
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Tin

Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0

Accessories	
product extension / optional / motor drive	Yes

Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] / total	190 kg
Global Warming Potential [CO2 eq] / during manufacturing	4.67 kg
Global Warming Potential [CO2 eq] / during operation	186 kg
Global Warming Potential [CO2 eq] / after end of life	-0.826 kg
reference code / according to IEC 81346-2	Q

### Approvals / Certificates

#### General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	EMV	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Special Test Certificate](#)



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

[Confirmation](#)

[Miscellaneous](#)

other	Environment
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[Miscellaneous](#)



[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=3VA1116-1AA42-0AA0>

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

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

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

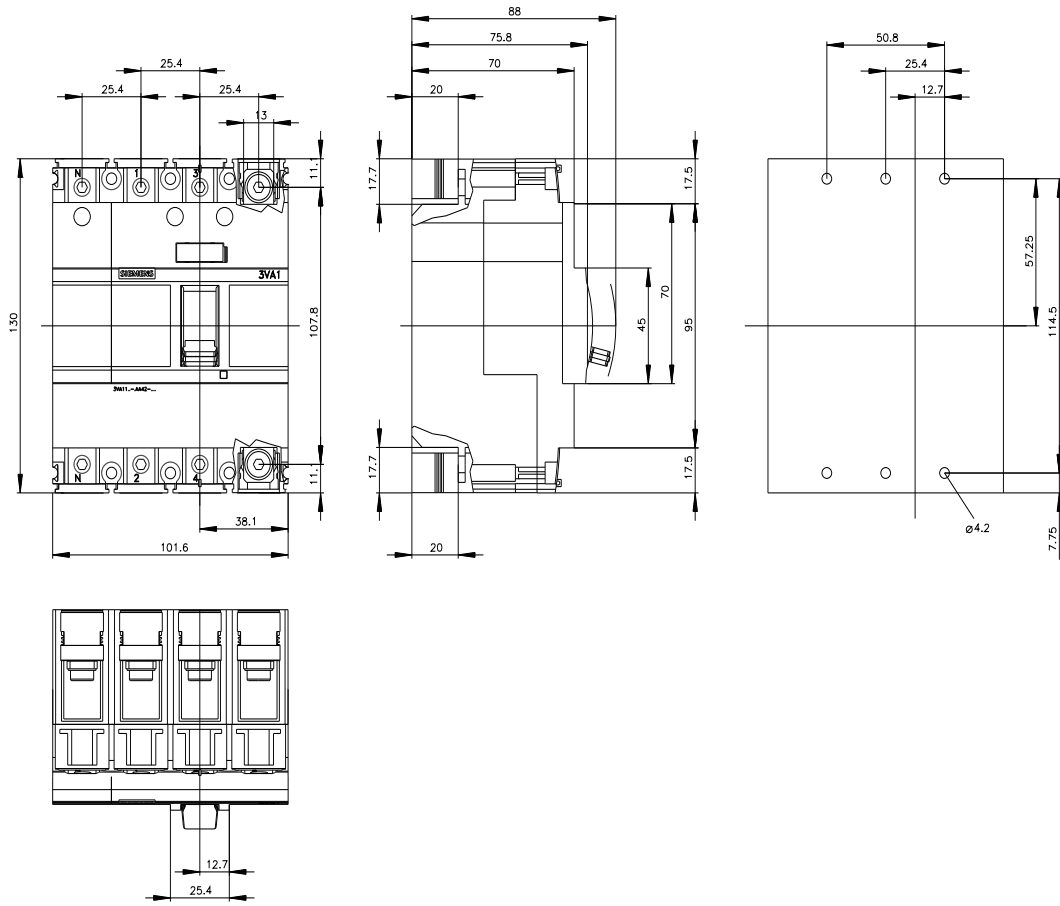
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1116-1AA42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1116-1AA42-0AA0)

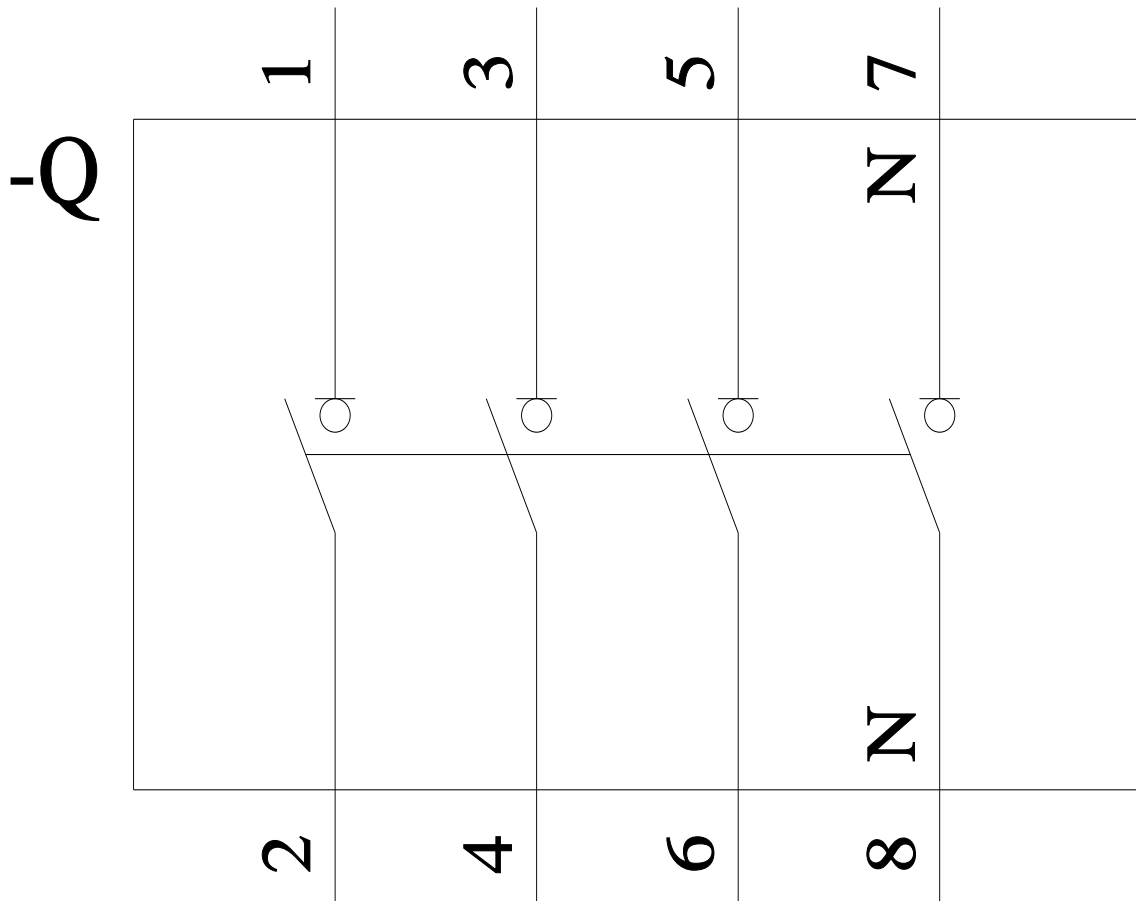
CAX-Online-Generator

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

Tender specifications

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





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