SIEMENS

Data sheet



switch disconnector 3VA1 IEC frame 160 4-pole SD100, In=100A 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	100 A	
● at 45 °C	100 A	
• at 50 °C	100 A	
• at 55 °C	100 A	
• at 60 °C	100 A	
• at 65 °C	100 A	
● at 70 °C	100 A	
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





Special Test Certific-<u>ate</u>

Miscellaneous





Marine / Shipping





CCS (China Classification Society)

Miscellaneous

other

Confirmation

other

Environment

Miscellaneous





Environmental Con**firmations**

Environmental Con-firmations

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=3VA1110-1AA42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1110-1AA42-0AA0

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

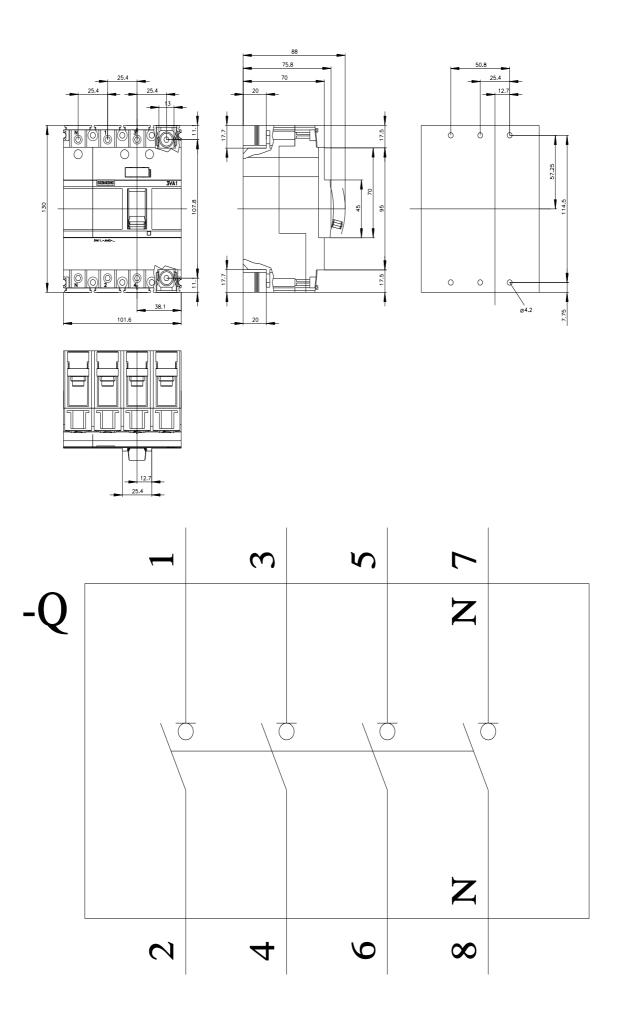
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1110-1AA42-0AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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