3VA5110-1BB35-0AA0

## **Data sheet**



molded case switch 3VA5 UL frame 125 max short-circuit curr. rating 65kA @ 480 V 3-pole MCS110, In=100A without overload protection SELF PROTECTION li=16 x In Al-lug, line side

Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	HEAS		
design of the product	Molded case switch		
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes		
design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type)	No		
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No		
design of the overcurrent release	MCS110		
protection function of the overcurrent release	1		
number of poles	3		
General technical data			
insulation voltage / rated value	800 V		
operating voltage / at DC / rated value	500 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	19.2 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	6.4 W		
mechanical service life (operating cycles) / typical	20 000		
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000		
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000		
electrical endurance (operating cycles) / at 480 V	8 000		
electrical endurance (operating cycles) / at 600 V	4 000		
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No		
ground-fault monitoring version	without		
product function			
<ul> <li>communication function</li> </ul>	No		
other measurement function	No		
Net Weight	1 050 g		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
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	97 A		

• at 70 °C	94 A			
Switching capacity according to IEC 60947				
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter			
Adjustable parameters				
adjustable response value setting current (li) / for I-tripping				
• minimum	1 600 A			
• maximum	1 600 A			
adjustable setting current (InN) / for N-tripping				
• minimum	0 A			
• maximum	0 A			
product function / grounding protection	No			
Mechanical Design				
product component				
<ul> <li>undervoltage release</li> </ul>	No			
<ul> <li>voltage trigger</li> </ul>	No			
trip indicator	No			
height [in]	5.51 in			
height	140 mm			
width [in]	3 in			
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (8 AWG - 3/0)			
width	76.2 mm			
depth [in]	3.01 in			
depth	76.5 mm			
Connections				
arrangement of electrical connectors / for main current circuit	Front connection			
type of electrical connection / for main current circuit	line-side circular conductor terr	line-side circular conductor terminal		
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				
<ul><li>during operation / minimum</li></ul>	-25 °C			
<ul> <li>during operation / maximum</li> </ul>	70 °C			
during storage / minimum	-40 °C			
during storage / maximum	80 °C			
Certificates				
reference code / according to IEC 81346-2	Q			
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes			
General Product Approval		EMC	Declaration of Conformity	

Confirmation



Miscellaneous







**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

other

UK CA Special Test Certificate



Miscellaneous

Confirmation

urther information

Siemens has decided to exit the Russian market (see here).

## https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## 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=3VA5110-1BB35-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-1BB35-0AA0

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

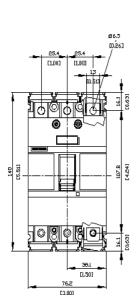
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5110-1BB35-0AA0

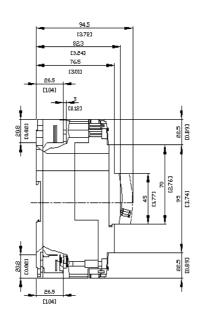
**CAx-Online-Generator** 

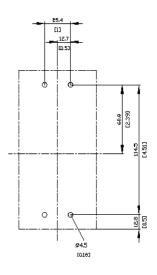
http://www.siemens.com/cax

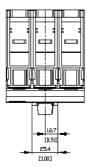
Tender specifications

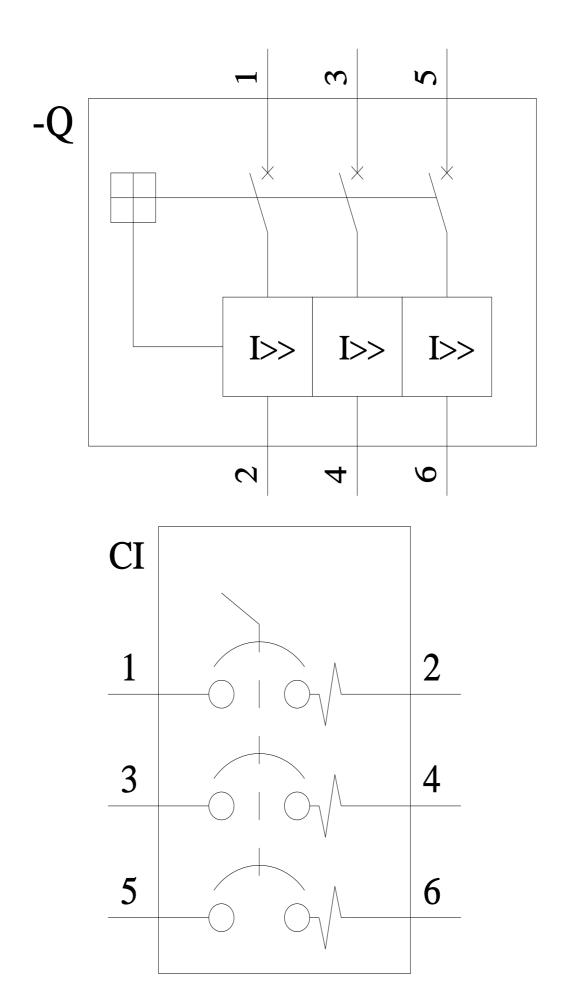
http://www.siemens.com/specifications











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