## 3VA5580-0BB36-0AA0

**Data sheet** 



molded case switch 3VA5 UL frame 800 max short-circuit curr. rating 65kA @ 480 V 3-pole MCS110, In=800A without overload protection self protection Ii=12 x In Alluq, line and load side

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HMAS
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	T. Control of the Con
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	750 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	210 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	70 W
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 800
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
electrical endurance (operating cycles) / at 480 V	5 800
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
<ul> <li>other measurement function</li> </ul>	No
Net Weight	16.986 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
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	9 600 A

product component  • undervoltage release • voltage trigger • trip indicator  height [in] • leight [in] • leight [in] • leight   328 mm  width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width   210 mm  depth [in] • lay 1 in  # x (4/0 - 500 kcmill)  conductor terminal / stranded  width  # 210 mm  depth   120 mm  # 220 mm	maximum	9 600 A	
• maximum 0 A No  Mechanical Design  product component  • undervoltage release No  • voltage trigger No  • trip indicator No  height [in] 12.91 in No  height [in] 328 mm  width [in] 4x (4/0 - 500 kcmill)  conductor terminal / stranded Azz in Azz in No  depth [in] 4.72 in No  depth [in] 4.72 in No  depth [in] 120 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connector / for main current circuit vity or electrical connector / for auxiliary contacts Provisional / auxiliary circuit  number of CO contacts / for auxiliary contacts Provisional / no No  Accessories  product extension / optional / motor drive No  eduring operation / minimum 25 °C  eduring operation / minimum 4during storage / maximum 4during storage / maximum 1during vicaus vicaus No	adjustable setting current (InN) / for N-tripping		
product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • trip indicator  height (in) height (10) type of connectable conductor cross-sections / of the round conductor terminal / stranded  width (in)  depth (10)  depth	• minimum	0 A	
product component undervoltage release voltage trigger voltage triger v	• maximum	0 A	
product component  • undervoltage release • voltage trigger • trip indicator  height [in] • leight   328 mm  width [in] • type of connectable conductor cross-sections / of the round conductor terminal / stranded  width   210 mm  depth [in] • 12.91 in  ** **A (4/0 - 500 kcmill)  **Connectable conductor cross-sections / of the round conductor terminal / stranded  width • 210 mm  depth   120 mm  **Connections  arrangement of electrical connectors / for main current circuit   Front connection  type of electrical connection / for main current circuit   circular conductor terminal on both sides  **Auxiliary circuit**  product extension / optional / motor drive   No  **Environmental conditions**  protection class IP / on the front   IP40  ambient temperature • during operation / maximum   -25 °C • during operation / maximum   -40 °C • during storage / minimum   -40 °C • during storage / minimum   -40 °C • during storage / maximum   80 °C	product function / grounding protection	No	
• undervoltage release • voltage trigger • trip indicator No height [in] 12.91 in height width [in] 8.27 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width depth [in] 4.72 in depth [in] 4.72 in depth [in] 4.72 in depth 120 mm  Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides Auxiliary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive No Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / minimum • during operation / minimum • during storage / maximum	Mechanical Design		
voltage trigger	product component		
• trip indicator No height [in] 12.91 in height 328 mm width [in] 8.27 in type of connectable conductor cross-sections / of the round conductor terminal / stranded width 210 mm depth [in] 4.72 in depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit for electrical connection / for main current circuit for electrical connection / for auxiliary circuit number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front IP40  ambient temperature	<ul> <li>undervoltage release</li> </ul>	No	
height [in] 12.91 in height 328 mm width [in] 8.27 in  type of connectable conductor cross-sections / of the round conductor terminal / stranded width (in] 4 x (4/0 - 500 kcmil)  width (in] 4 x (4/0 - 500 kcmil)  width 210 mm  depth [in] 4.72 in depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit Front connection type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front IP40  ambient temperature	<ul> <li>voltage trigger</li> </ul>	No	
height 328 mm  width [in] 8.27 in  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width 210 mm  depth [in] 4.72 in  depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit for auxiliary circuit  runuber of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front ambient temperature  • during operation / maximum - 25 °C • during operation / maximum - 40 °C • during storage / minimum - 40 °C • during storage / maximum - 80 °C	trip indicator	No	
width [in]  type of connectable conductor cross-sections / of the round conductor terminal / stranded  width  depth [in]  depth [in]  depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  avaulilary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  protection class IP / on the front  ambient temperature  during operation / maximum  during storage / minimum  during storage / minimum  during storage / maximum  e during storage / maximum  e during storage / maximum  80 °C	height [in]	12.91 in	
type of connectable conductor cross-sections / of the round conductor terminal / stranded  width 210 mm  depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit Front connection  type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Product extension / optional / motor drive No  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	height	328 mm	
width 210 mm  depth [in] 4.72 in  depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts OAccessories  product extension / optional / motor drive No  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / maximum  • during operation / maximum  • during storage / minimum  - 40 °C  • during storage / maximum  80 °C	width [in]	8.27 in	
depth [in] 4.72 in  depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit Front connection  type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  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		4 x (4/0 - 500 kcmil)	
depth 120 mm  Connections  arrangement of electrical connectors / for main current circuit Front connection  type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive No  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	width	210 mm	
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  olduring operation / minimum  during operation / maximum  olduring storage / minimum  during storage / maximum  electrical connection  Front conductor terminal on both sides  Occupation  Front conductor terminal on both sides  Occupation  Front conductor terminal	depth [in]	4.72 in	
arrangement of electrical connectors / for main current circuit  type of electrical connection / for main current circuit  Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / maximum  • during storage / minimum  • during storage / maximum  • during storage / maximum  80 °C	depth	120 mm	
type of electrical connection / for main current circuit circular conductor terminal on both sides  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  • during storage / minimum  -40 °C  • during storage / maximum  80 °C	Connections		
Auxiliary circuit  number of CO contacts / for auxiliary contacts  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  • during storage / minimum  -40 °C  • during storage / maximum  80 °C	arrangement of electrical connectors / for main current circuit	Front connection	
number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  No  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  oduring storage / minimum  -40 °C  • during storage / maximum  80 °C	type of electrical connection / for main current circuit	circular conductor terminal on both sides	
product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  function of the front of the fr	Auxiliary circuit		
product extension / optional / motor drive  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  • during operation / maximum  • during storage / minimum  • during storage / maximum  80 °C	number of CO contacts / for auxiliary contacts	0	
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	Accessories		
protection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C	product extension / optional / motor drive	No	
ambient temperature  • during operation / minimum  -25 °C  • during operation / maximum  70 °C  • during storage / minimum  -40 °C  • during storage / maximum  80 °C	Environmental conditions		
<ul> <li>during operation / minimum</li> <li>-25 °C</li> <li>during operation / maximum</li> <li>6 during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> </ul>	protection class IP / on the front	IP40	
<ul> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> </ul>	ambient temperature		
<ul> <li>during storage / minimum</li> <li>during storage / maximum</li> <li>80 °C</li> </ul>	<ul> <li>during operation / minimum</li> </ul>	-25 °C	
during storage / maximum     80 °C	<ul> <li>during operation / maximum</li> </ul>	70 °C	
3 44 3	during storage / minimum	-40 °C	
house of the same	during storage / maximum	80 °C	
Certificates			
reference code / according to IEC 81346-2 Q	reference code / according to IEC 81346-2	Q	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		Yes	
General Product Approval			

Confirmation









Miscellaneous

General Product Approval

EMC

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





CE.



Type Test Certificates/Test Report



Marine / Shipping

other



Confirmation

Miscellaneous

Miscellaneous

Further 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=3VA5580-0BB36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5580-0BB36-0AA0

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

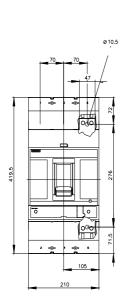
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5580-0BB36-0AA0

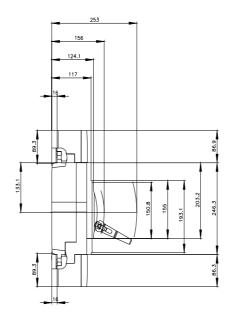
**CAx-Online-Generator** 

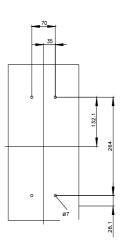
http://www.siemens.com/cax

**Tender specifications** 

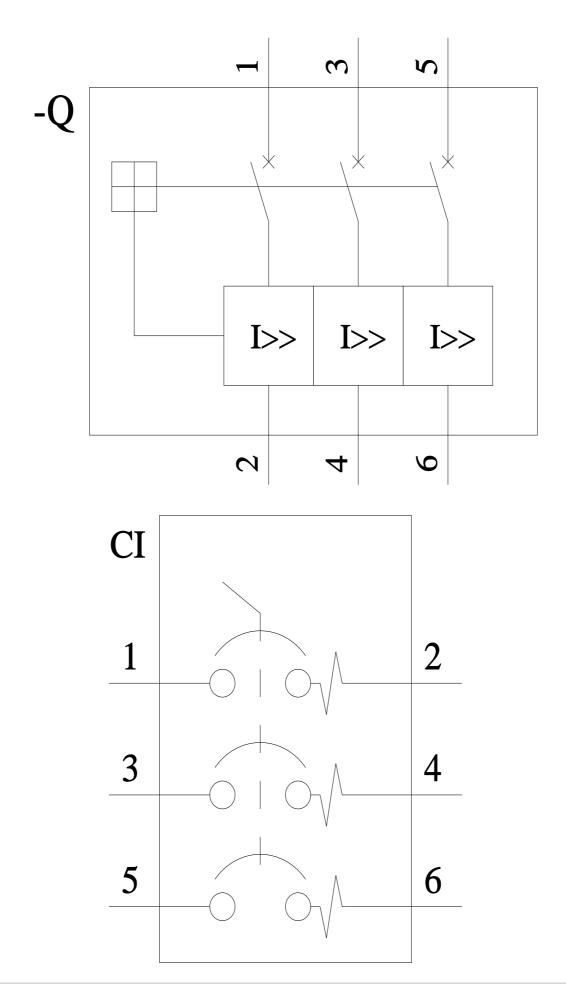
http://www.siemens.com/specifications











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