## SIEMENS

## Data sheet

## 3VA5110-1BB36-0AA0



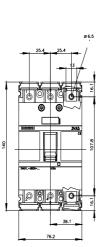
molded case switch 3VA5 UL frame 125 max. sh-circ breaking capacity 65kA @ 480 V 3-pole, line protection MCS110, In=100A without overload protection self-protection Ii=16 x In cable connection on both sides

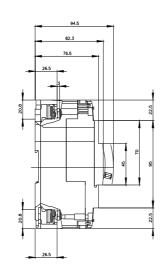
Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	HEAS			
Product version	Molded case switch			
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	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			
Max. rated operational voltage Ue with DC	500 V			
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	19.2 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	6.4 W			
mechanical service life (switching cycles) / typical	20 000			
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000			
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000			
electrical endurance (switching cycles) / at 480 V	8 000			
electrical endurance (switching cycles) / at 600 V	4 000			
Neutral conductors / upgradeable/retrofittable	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	1.059 kg			
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			

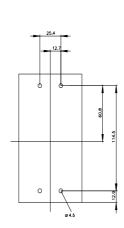
a st GE °C	07.4				
● at 65 °C ● at 70 °C	97 A 94 A				
• at 70 C 94 A Switching capacity according to IEC 60947					
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case				
	circuit breaker device manual; link to be found under Service & Support in the last chapter				
Adjustable parameters					
product feature / for L-tripping / selectable characteristic function	No				
product feature / for S-tripping / independent of direction / selectable characteristic function	No				
product feature / for I-tripping / can be switched on/off	No				
design of I-trip / adjustable	No				
reference value setting current (li) / for l-tripping	x In				
set values setting current (li) / for I-tripping	16				
adjustable response factor setting current (li) / for l- tripping / minimum	16				
adjustable response factor setting current (li) / for l- tripping / maximum	16				
adjustable response value setting current (li) / for l-tripping / minimum	1 600 A				
adjustable response value setting current (li) / for l-tripping / maximum	1 600 A				
product feature / for G-tripping / selectable characteristic function	No				
product feature / with neutral conductor protection / can be switched on/off	No				
product feature / with neutral conductor protection / adjustable	Yes				
type of value list setting current (InN) / for N-tripping	St				
reference value setting current (InN) / for N-tripping adjustable absolute value setting current (InN) / for N-	x ln 0 A				
tripping / minimum					
adjustable absolute value setting current (InN) / for N- tripping / maximum	0 A				
tripping characteristic / of the upper tolerance band	AK_3VA5_1_100A_MCS110_SuMuH_oT				
let-through energy characteristic / at 240 V let-through energy characteristic / at 415 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V				
let-through energy characteristic / at 690 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_413V				
type of value list setting current (li) / for I-tripping	Fest				
tripping characteristic / of the let-through current	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V				
characteristic / at 240 V tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V				
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V				
Ground fault protection / tripping switchable / I2t=ON/OFF	No				
Mechanical Design					
product component					
undervoltage release	No				
voltage trigger	No				
<ul> <li>trip indicator</li> </ul>	No				
height [in]	5.51 in				
Height	140 mm				
width [in]	3 in				
Type of connectable conductor cross-section, 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	circular conductor terminal on both sides				
Auxiliary circuit					
number of CO contacts / for auxiliary contacts	0				

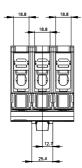
Accessories					
product extension / optional / motor drive		Yes			
Environmental conditions					
protection class IP / on the front		IP40			
ambient temperature					
<ul> <li>during operation / minimum</li> </ul>		-25 °C			
<ul> <li>during operation / maximum</li> </ul>		70 °C			
during storage / minimum		-40 °C			
during storage / maximum		80 °C			
Certificates					
reference code / according to IEC 81346-2		Q			
certificate of suitability / as approval for NAV, combat vessels) / supplement SB	AL (no	Yes			
General Product Approval		EMC	Declarat	ion of Conformity	
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<u>Confirmation</u>	Miscellaneo	ous 🔎		<i>c</i>	UK
(m)		<u> </u>	3 C	<b>כ</b>	
CCC		RCM	EG-I	Konf.	
Marine / Shipping other					
<u>Miscellaneous</u>					
ARS					
765					
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=3VA5110-1BB36-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-1BB36-0AA0					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)					
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5110-1BB36-0AA0					
CAx-Online-Generator					
http://www.siemens.com/cax					
Tender specifications					

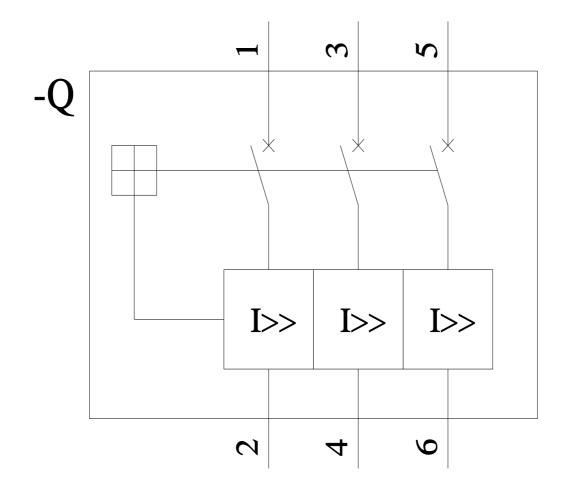
Tender specifications http://www.siemens.com/specifications

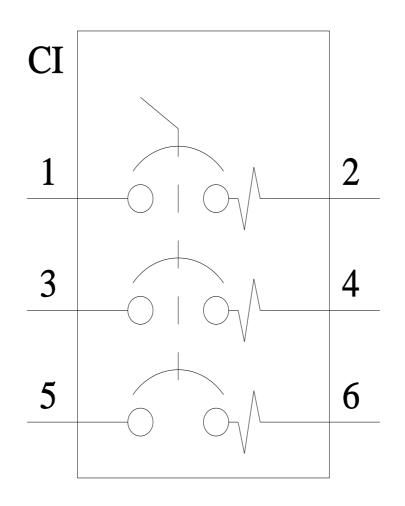












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