3VA5110-1BB22-0AA0

## **Data sheet**



molded case switch 3VA5 UL frame 125 max. sh-circ breaking capacity 65kA @ 480 V 2-pole, line protection MCS110, ln=100A without overload protection self-protection li=16 x ln nut keeper kit 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	2		
General technical data			
rated insulation voltage Ui	600 V		
Max. rated operational voltage Ue with DC	250 V		
operating voltage / at AC / rated value	415 V		
power loss [W] / maximum	12.8 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		
other measurement function	No		
Net Weight	0.669 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		

		100 /				
• at 55 °C		100 A				
• at 60 °C			100 A			
• at 65 °C		97 A 94 A				
• at 70 °C						
	Switching capacity according to IEC 60947					
design of short-circuit protection		circui	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						
Ground fault protection / tripping switchable /	I2t=ON/OFF	No				
Mechanical Design						
height [in]			5.51 in			
Height		140 n	40 mm			
width [in]		2 in				
Width		50.8 mm				
depth [in]		3.01 in				
depth		76.5 mm				
Connections						
arrangement of electrical connectors / for ma	in current	Front connection				
type of electrical connection / for main curren	t circuit	nut keeper kit on both ends				
Type of connectable conductor cross-section screw, width x thickness , min.	, connection	12 x 1 mm				
Type of connectable conductor cross-section screw, width x thickness, max.	, connection	17 x 6.5 mm				
Auxiliary circuit						
product component						
undervoltage release		No				
<ul> <li>voltage trigger</li> </ul>		No				
trip indicator		No				
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				
<ul><li>during storage / maximum</li></ul>		80 °C				
Certificates						
		Q				
certificate of suitability / as approval for NAV/combat vessels) / supplement SB			Yes			
General Product Approval	EMC		Marine / Shipping	other		

Confirmation







**Miscellaneous** 

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

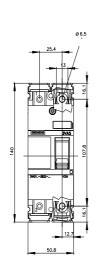
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5110-1BB22-0AA0

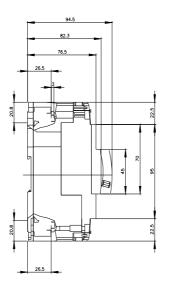
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

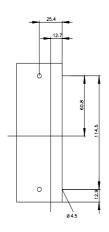
https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-1BB22-0AA0

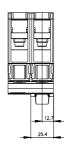
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5110-1BB22-0AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5110-1BB22-0AA0</a>

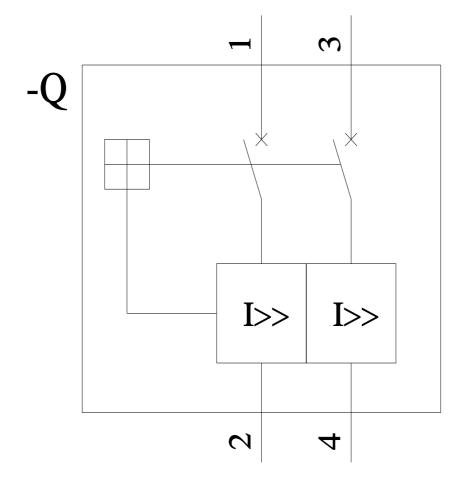
**CAx-Online-Generator** 

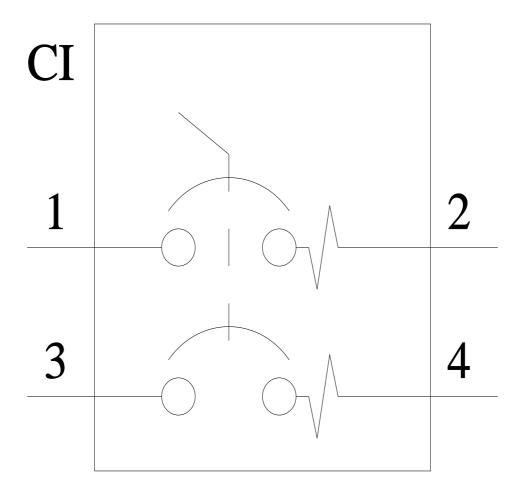












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