## SIEMENS

## Data sheet

## 3VA5112-1MU36-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=125A without overload protection short-circuit protection Ii=3...7 x In cable connection on both sides

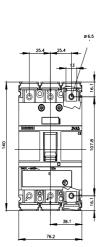
Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	HEAP			
Product version	Starter protection			
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	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	TM120M			
protection function of the overcurrent release	1			
number of poles	3			
General technical data				
insulation voltage / rated value	800 V			
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	30 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	10 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>phase failure detection</li> </ul>	No			
<ul> <li>other measurement function</li> </ul>	No			
Net Weight	1.034 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
• at 40 °C	125 A			
● at 45 °C	122 A			
• at 50 °C	119 A			
● at 55 °C	117 A			
• at 60 °C	114 A			

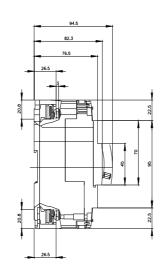
● at 65 °C	112 A
• at 70 °C	109 A
Switching capacity according to IEC 60947	
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	154 kA
• at 690 V	17 kA
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

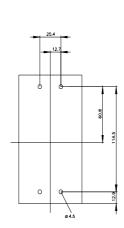
Adjustable parameters	
product feature / for L-tripping / selectable characteristic function	No
product feature / for S-tripping / independent of direction / selectable characteristic function	No
product feature / for I-tripping / can be switched on/off	No
design of I-trip / adjustable	Yes
reference value setting current (li) / for I-tripping	x In
set values setting current (li) / for I-tripping	3;4;5;6;7
adjustable response factor setting current (li) / for I- tripping / minimum	3
adjustable response factor setting current (li) / for l- tripping / maximum	7
adjustable response value setting current (li) / for I-tripping / minimum	375 A
adjustable response value setting current (li) / for I-tripping / maximum	875 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	x ln
adjustable absolute value setting current (InN) / for N- tripping / minimum	0 A
adjustable absolute value setting current (InN) / for N- tripping / maximum	0 A
tripping characteristic / of the upper tolerance band	AK_3VA5_1_125A_TM120M2_H_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_125A_TMuMCS110_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	DE_3VA5_1_125A_TMuMCS110_line u starter_3u4p_415V
let-through energy characteristic / at 690 V	DE_3VA5_1_125A_TMuMCS110_line u starter_3u4p_690V
type of value list setting current (li) / for l-tripping	St
tripping characteristic / of the let-through current characteristic / at 240 V	DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_240V
tripping characteristic / of the let-through current characteristic / at 415 V	DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_415V
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_690V
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	
<ul> <li>undervoltage release</li> </ul>	No
<ul> <li>voltage trigger</li> </ul>	No
<ul> <li>trip indicator</li> </ul>	No
height [in]	5.51 in
Height	140 mm

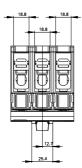
width [in]		3 in					
Type of connectable	conductor cross-section, round	1 x (8 AWG - 3/	))				
conductor terminal, st Width	Iranded	76.2 mm					
depth [in]		3.01 in					
depth		76.5 mm					
Connections							
	ical connectors / for main current	Front connectio	ו				
	nection / for main current circuit	circular conduct	circular conductor terminal on both sides				
Auxiliary circuit							
	ts / for auxiliary contacts	0					
Accessories							
product extension / or	otional / motor drive	Yes					
Environmental condit	·						
protection class IP / o	on the front	IP40					
ambient temperature							
<ul> <li>during operation</li> </ul>	n / minimum	-25 °C					
<ul> <li>during operation</li> </ul>		70 °C					
• during storage		-40 °C					
during storage	/ maximum	80 °C					
Certificates			_	_	_		
reference code / acco certificate of suitability combat vessels) / sup	y / as approval for NAVAL (no	Q Yes					
General Product Ap	proval	EMC	D	eclaration of Con	formity		
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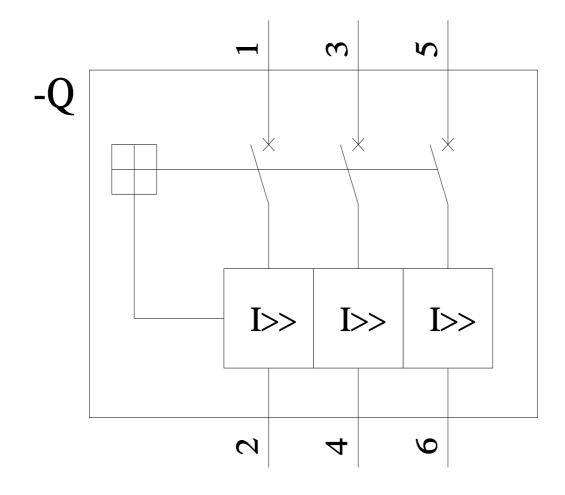
http://www.siemens.com/specifications

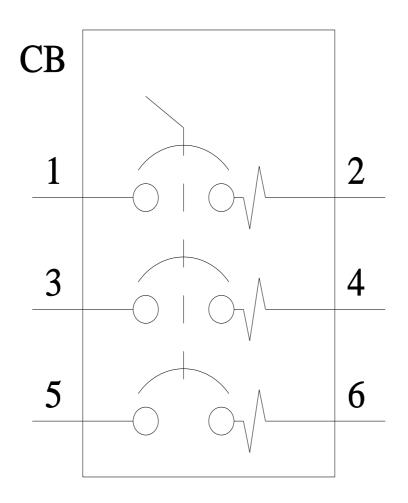












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