## SIEMENS

## Data sheet

## 3VA5112-5EC36-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=125A overload protection Ir=125A fixed short-circuit protection Ii=5...10 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MEAM
Product version	System 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	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	30.1 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	10.03 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	0.951 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			
switching capacity class of the circuit breaker	M		
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		
Switching capacity according to UL 489			
breaking capacity current			
• at 240 V	85 kA		
• at 480 V	35 kA		
• at 600 Y/347 V	18 kA		
Adjustable parameters			
product feature / for L-tripping / selectable characteristic function	No		
type of value list setting current (Ir) / for L-tripping / with I2t characteristic	Fest		
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x In		
set values setting current (Ir) / for L-tripping / with I2t characteristic	1		
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / minimum	1		
adjustable response factor setting current (Ir) / for L- tripping / with I2t characteristic / maximum	1		
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / minimum	125 A		
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	125 A		
type of value list delay time (tr) / for L-tripping / with I2t characteristic	Fest		
reference value delay time (tr) / for L-tripping / with I2t characteristic	S		
set values delay time (tr) / for L-tripping / with I2t characteristic	1		
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / minimum	1 s		
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic / maximum	1 s		
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	5;6;7;8;9;10		
adjustable response factor setting current (li) / for l- tripping / minimum	5		
adjustable response factor setting current (li) / for l- tripping / maximum	10		
adjustable response value setting current (li) / for I-tripping / minimum	625 A		
adjustable response value setting current (li) / for I-tripping / maximum	1 250 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 lower tolerance band	AK_3VA5_1_125A_TM2_SuMuH_uT		
tripping characteristic / of the upper tolerance band	AK_3VA5_1_125A_TM2_SuMuH_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		

tripping characteristic	ng current (li) / for I-tripping : / of the let-through current	St DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_240V			
	/ of the let-through current	DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_415V			
characteristic / at 415 tripping characteristic	V / of the let-through current	DS_3VA5_1_125A_TMuMCS110_line u starter_3u4p_690V			
characteristic / at 690					
Adjustable response	0	125 A			
	sponse value current / of the current- elease / full-scale value	125 A			
Ground fault protection	on / tripping switchable / I2t=ON/OFF	No			
Mechanical Design					
product component					
<ul> <li>undervoltage re</li> </ul>	elease	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			
	conductor cross-section, round	1 x (8 AWG - 3/0)			
conductor terminal, st					
Width		76.2 mm			
depth [in]		3.01 in			
depth		76.5 mm			
Connections					
	ical connectors / for main current	Front connection			
	nection / for main current circuit	circular conductor terminal on	both sides		
Auxiliary circuit					
	te / fen en villen verste ste	0	_		
	ts / for auxiliary contacts	0			
Accessories					
product extension / or	ptional / motor drive	Yes			
Environmental condit	tions				
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			
<ul> <li>during storage</li> </ul>		-40 °C			
<ul> <li>during storage</li> </ul>		80 °C			
Certificates					
	y / as approval for NAVAL (no	Yes			
General Product Ap					
(m)	Confirmation	ل ل	DE	Miscellaneous	
ccc	UL	UL	VDE		
EMC	Declaration of Conformity	Marine / Shipping		other	
_					
A		( Same		Miscellaneous	
<u>/</u> \2\			EL 619 H		
	<u>UK</u> CE				
RCM		ARS	RMRS		
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RCM Further information		ABS	RMRS		
Information- and Do		AB5	RMRS		
Information- and Do	wnloadcenter (Catalogs, Brochures,.	"ABS	RMRS		
Information- and Do http://www.siemens.c Industry Mall (Online	wnloadcenter (Catalogs, Brochures,.		RMRS		

## Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5112-5EC36-1AA0

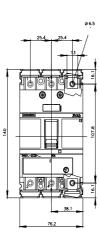
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5112-5EC36-1AA0

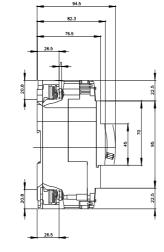
CAx-Online-Generator

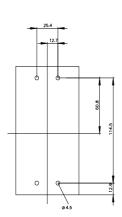
http://www.siemens.com/cax

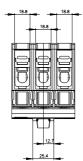
Tender specifications

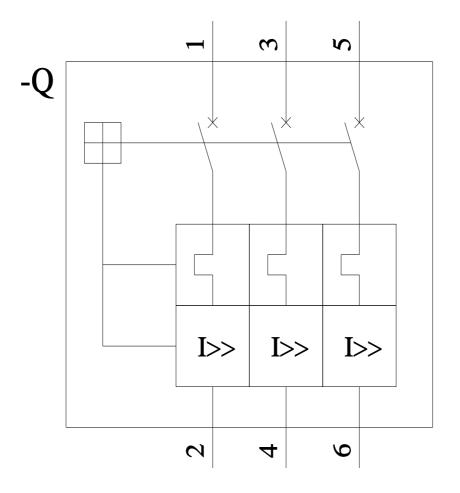
http://www.siemens.com/specifications

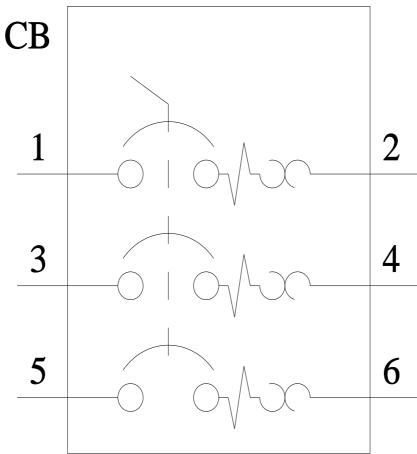












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