## **SIEMENS**

## **Data sheet**

Model

## 3VA5110-4EC36-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A fixed short-circuit protection Ii=5...10 x In cable connection on both sides

SENTRON
Molded-case circuit breaker
SEAS
System protection
Yes
No
No
TM230
LI
3
800 V
500 V
690 V
22.8 W
7.6 W
20 000
8 000
4 000
8 000
4 000
No
without
No
No
1.034 kg
No
100 A
98 A
95 A
93 A
91 A

• at 65 °C	89 A
• at 70 °C Switching capacity according to IEC 60947	87 A
switching capacity class of the circuit breaker	S
breaking capacity class of the circuit breaker  breaking capacity maximum short-circuit current (Icu)	3
• at 240 V	55 kA
• at 415 V	36 kA
• at 690 V	5 kA
breaking capacity operating short-circuit current (lcs)	
• at 240 V	85 kA
• at 415 V	36 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	40414
at 240 V     at 415 V	121 kA 75.6 kA
• at 690 V	7.5 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
accign of anote anough proceedion	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	65 kA
• at 480 V	25 kA
• at 600 Y/347 V	14 kA
Adjustable parameters	Ne
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	100 A
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic / maximum	100 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 l2t 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 5
adjustable response factor setting current (li) / for l-tripping / minimum	
adjustable response factor setting current (li) / for l-tripping / maximum	10
adjustable response value setting current (li) / for I-tripping / minimum	500 A
adjustable response value setting current (li) / for I-tripping / maximum	1 000 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 In
adjustable absolute value setting current (InN) / for N-	0 A
tripping / minimum	
adjustable absolute value setting current (InN) / for N-tripping / maximum	0 A
tripping characteristic / of the lower tolerance band	AK_3VA5_1_100A_TM2_SuMuH_uT
tripping characteristic / of the upper tolerance band	AK_3VA5_1_100A_TM2_SuMuH_oT
let-through energy characteristic / at 240 V	DE_3VA5_1_100A_TMuMCS110_line u starter_3u4p_240V
let-through energy characteristic / at 415 V	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_690V
type of value list setting current (li) / for I-tripping	St
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	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_415V
characteristic / at 415 V	
tripping characteristic / of the let-through current characteristic / at 690 V	DS_3VA5_1_100A_TMuMCS110_line u starter_3u4p_690V
Adjustable response value current / lg min.	100 A
adjustable current response value current / of the current- dependent overload release / full-scale value	100 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
• trip indicator	No
height [in]	5.51 in
Height	140 mm
	3 in
width [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
·	76.5
Connections	Fort constitu
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	
during operation / minimum	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	
reference code / according to IEC 81346-2	Q
General Product Approval	



Confirmation







Miscellaneous











**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=3VA5110-4EC36-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-4EC36-0AA0

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

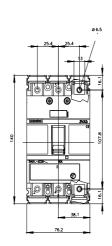
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5110-4EC36-0AA0

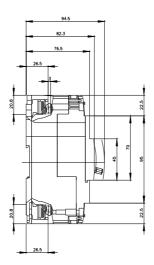
**CAx-Online-Generator** 

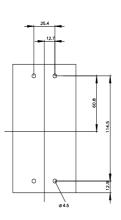
http://www.siemens.com/cax

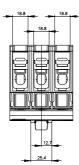
**Tender specifications** 

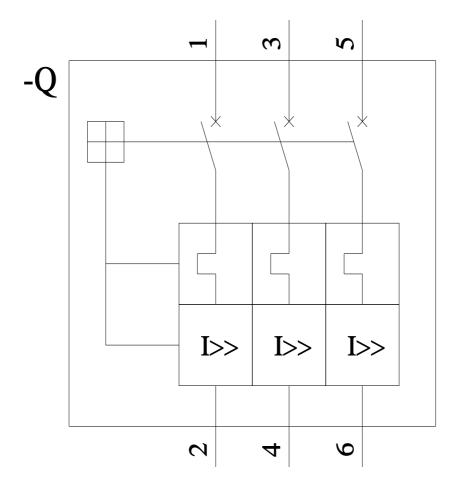
http://www.siemens.com/specifications

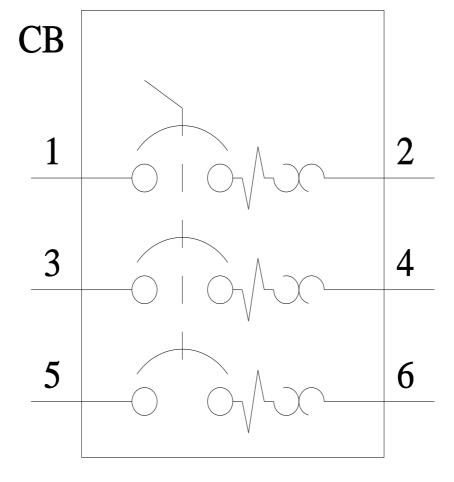












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