# **SIEMENS**

## Data sheet

# 3VA1125-6EE36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 3-POLE, LINE PROTECTION TM220, ATFM, IN=25A OVERLOAD PROTECTION IR=17,5A ...25A SHORT CIRCUIT PROTECTION II=10 X IN CABLE CONNECTION

Figure similar

Model		
product brand name	SEN	TRON
Product designation	Mold	led case circuit breaker
Design of the product	Line	protection
Product variations	Gene	eral Applications
Ground fault monitoring version	With	out
Design of the auxiliary release	With	out auxiliary release
Design of the auxiliary switch	With	out
Design of the operating mechanism	toggl	le handle
Type of the driving mechanism / motor drive	No	
Design of the overcurrent release	TM2	20

General technical data			
Number of poles		3	
Trip class / of the L-trip / with I2t characteristic / initial value		1	
Trip class / of the L-trip / with I2t characteristic / Full-scale value		1	
Electrical endurance (switching cycles)			
• at AC-1 / at 380/415 V / at 50/60 Hz		8 000	
circuit-breaker / Design		3VA	
Mechanical service life (switching cycles) / typical		15 000	

Voltage		
	tage	
Insulation voltage / Rated value V 800	sulation voltage / Rated value	V

#### Protection class

Protection class IP / on the front Protective function of the overcurrent release  LI  Switching capacity Switching capacity Switching capacity class of the circuit breaker  Dissipation  Active power loss • maximum  W 8.5  Electricity  Continuous current / Rated value / maximum A 160 Continuous current / Rated value / A 25  Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value  Operating voltage • with AC / at 50/80 Hz / Rated value • for DC / Rated value • at 40 °C / Rated value • at 40 °C / Rated value • at 50 °C / Rated value • at 50 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated va	Protection class IP		IP40		
Switching capacity  Switching capacity class of the circuit breaker  Dissipation  Active power loss  • maximum  W 8.5  Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value / Maximum  • of the current-dependent overload release / A 1  Full-scale value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the C / Rated value  • of DC / Rated value  • at 40 °C / Rated value  • at 50 °C / Rated value  • at 50 °C / Rated value  • at 60 °C / Rated value  • at 70 °C / Rated value  • at 70 °C / Rated value  • at 70 °C / Rated value  • at 60 °C / Rated value  • at 70 °C / Rated valu	Protection class IP / on the front		IP40		
Switching capacity class of the circuit breaker  Dissipation  Active power loss  • maximum  A 160  Continuous current / Rated value / maximum  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of to C / Rated value  • of to C / Rated value  • at 40 °C / Rated value  • at 60 °C / Rated value  • at 70 °C / Rated value  • at	Protective function of the overcurrent release		u		
Switching capacity class of the circuit breaker  Dissipation  Active power loss  • maximum  A 160  Continuous current / Rated value / maximum  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  • of to C / Rated value  • of to C / Rated value  • at 40 °C / Rated value  • at 60 °C / Rated value  • at 70 °C / Rated value  • at	Switching capacity				
Active power loss  • maximum  Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  Main circuit  Operating voltage  • with AC / at 50/60 Hz / Rated value  • for DC / Rated value  • at 40 °C / Rated value  • at 40 °C / Rated value  • at 50 °C / Rated value  • at 65 °C / Rated val			Н		
Active power loss  • maximum    Maximum   Maxi	Dissipation				
Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value  Adjustable response value current  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value  • of the instantaneous short-circuit release / initial value  Main circuit  Operating voltage  • with AC / at 50/60 Hz / Rated value  • for DC / Rated value  • at 40 °C / Rated value  • at 40 °C / Rated value  • at 55 °C / Rated value  • at 65 °C / Rated value  • at 65 °C / Rated value  • at 65 °C / Rated value  • at 67 °C / Rated value  • at 70 °C / Rate	Active power loss				
Continuous current / Rated value / maximum  Continuous current / Rated value  A 25  Adjustable response value current  of the current-dependent overload release / Full-scale value  of the instantaneous short-circuit release / initial value  of the instantaneous short-circuit release / initial value  of the instantaneous short-circuit release / initial value  of or DC / Rated value  A 25  of A 25  of A 25  of A 25  of A 24  of A 25  of A 24  of A 24  of A 25  of A 24  of C / Rated value  A 24  of C / Rated value  A 23  of A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  Of L-trip / Full-scale value  of or N-conductor protection / initial value  of or N-conductor protection / Full-scale value  A 0  Adjustable response value current / of the current-  Adjustable response value current / of the current-	• maximum	W	8.5		
Continuous current / Rated value  Adjustable response value current  of the current-dependent overload release / Full-scale value  of the instantaneous short-circuit release / initial va	Electricity				
Adjustable response value current  of the current-dependent overload release / Full-scale value  of the instantaneous short-circuit release / initial value  of the instantaneous short-ci	Continuous current / Rated value / maximum	А	160		
of the current-dependent overload release / Full-scale value     of the instantaneous short-circuit release / initial value  Main circuit  Operating voltage     with AC / at 50/60 Hz / Rated value     of or DC / Rated value     volume  Operating current      at 40 °C / Rated value     A 25     at 50 °C / Rated value     A 25     at 50 °C / Rated value     A 24     at 60 °C / Rated value     A 24     at 60 °C / Rated value     A 23     at 70 °C / Rated value     A 23     at 70 °C / Rated value     A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  Adjustable parameters  Adjustable response value current     of I-trip / Full-scale value     of or N-conductor protection / Full-scale value     of or N-conductor protection / Full-scale value     of or N-conductor protection / Full-scale value     of N-conductor protection / Full-scale value	Continuous current / Rated value	Α	25		
Full-scale value  • of the instantaneous short-circuit release / initial value  Main circuit  Operating voltage  • with AC / at 50/60 Hz / Rated value  • for DC / Rated value  Operating current  • at 40 °C / Rated value  • at 55 °C / Rated value  • at 55 °C / Rated value  • at 66 °C / Rated value  • at 66 °C / Rated value  • at 70 °C / Rated value  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  Osuitability  Suitabile parameters  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / Full-scale value  • for N-conductor protection / Full-scale value  A 0  Adjustable response value current / of the current-	Adjustable response value current				
Main circuit           Operating voltage           • with AC / at 50/60 Hz / Rated value         V         690           • for DC / Rated value         V         500           Operating current           • at 40 °C / Rated value         A         25           • at 50 °C / Rated value         A         24           • at 55 °C / Rated value         A         24           • at 65 °C / Rated value         A         23           • at 70 °C / Rated value         A         23           Auxiliary circuit         Number of CO contacts / for auxiliary contacts         0           Suitability           Suitability for use           Adjustable parameters           Adjustable parameters           Adjustable response value current         A         10           • for N-conductor protection / Full-scale value         A         0           • for N-conductor protection / Full-scale value         A         0           Adjustable response value current / of the current-         A         0           • at 50 °C / Rated value         A         0           • at 70 °C / Rated value         A         10           • at 70 °C / Rated value         A <td></td> <td>Α</td> <td>1</td>		Α	1		
Operating voltage		Α	10		
with AC / at 50/60 Hz / Rated value     for DC / Rated value     v 500  Operating current     at 40 °C / Rated value     at 50 °C / Rated value     at 55 °C / Rated value     at 55 °C / Rated value     at 60 °C / Rated value     at 65 °C / Rated value     at 670 °C / Rated value     at 70 °C / Rated value     at 70 °C / Rated value     A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  O  Suitability  Suitability  Suitability for use  Adjustable parameters  Adjustable response value current     of I-trip / Full-scale value     for N-conductor protection / initial value     of or N-conductor protection / Full-scale value A 0  Adjustable response value current / of the current-  Adjustable response value current / of the current-  Adjustable response value current / of the current-	Main circuit				
for DC / Rated value  Operating current      at 40 °C / Rated value     at 50 °C / Rated value     at 50 °C / Rated value     at 55 °C / Rated value     at 60 °C / Rated value     at 60 °C / Rated value     at 65 °C / Rated value     at 67 °C / Rated value     at 67 °C / Rated value     A 23     at 70 °C / Rated value     A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  O  Suitability  Suitability  Suitabile parameters  Adjustable parameters  Adjustable response value current     of I-trip / Full-scale value     for N-conductor protection / initial value     of or N-conductor protection / Full-scale value     of or N-conductor protection / Full-scale value     of N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-  Adjustable response value current / of the current-  A 0.7	Operating voltage				
Operating current  • at 40 °C / Rated value  • at 50 °C / Rated value  • at 55 °C / Rated value  • at 60 °C / Rated value  • at 65 °C / Rated value  • at 65 °C / Rated value  • at 70 °C / Rated value  A 23  • at 70 °C / Rated value  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  O  Suitability  Suitability for use  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  • for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-  Adjustable response value current / of the current-	• with AC / at 50/60 Hz / Rated value	V	690		
<ul> <li>at 40 °C / Rated value</li> <li>at 50 °C / Rated value</li> <li>at 55 °C / Rated value</li> <li>at 60 °C / Rated value</li> <li>at 65 °C / Rated value</li> <li>at 65 °C / Rated value</li> <li>at 70 °C / Rated value</li> <li>b at 70 °C / Rated value</li> <li>c at 70 °C / Rated value</li> <li>d 23</li> </ul> Auxiliary circuit Number of CO contacts / for auxiliary contacts <ul> <li>system protection</li> </ul> Suitability Suitability for use <ul> <li>system protection</li> </ul> Adjustable parameters Adjustable response value current <ul> <li>of I-trip / Full-scale value</li> <li>for N-conductor protection / initial value</li> <li>for N-conductor protection / Full-scale value</li> <li>A 0</li> </ul> Adjustable response value current / of the current- <ul> <li>A 0</li> </ul> Adjustable response value current / of the current- <ul> <li>A 0.7</li> </ul>	• for DC / Rated value	V	500		
at 50 °C / Rated value at 55 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  Suitability  Suitability for use  Adjustable parameters  Adjustable response value current of I-trip / Full-scale value a for N-conductor protection / initial value a for N-conductor protection / Full-scale value Adjustable response value current for N-conductor protection / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current- Adjustable response value current / of the current-	Operating current				
at 55 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  Suitability  Suitability  Suitable parameters  Adjustable parameters  Adjustable response value current of I-trip / Full-scale value of or N-conductor protection / initial value of or N-conductor protection / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current- Adjustable response value current / of the current- A 0.7	• at 40 °C / Rated value	Α	25		
at 60 °C / Rated value  at 65 °C / Rated value  at 70 °C / Rated value  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts   Suitability  Suitability  Suitabile parameters  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  for N-conductor protection / Full-scale value  Adjustable response value current / O  Adjustable response value current / O  Adjustable response value current / O  Adjustable response value current / Of the current-  A 0.7	• at 50 °C / Rated value	Α	25		
at 65 °C / Rated value  at 70 °C / Rated value  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts   Suitability  Suitability for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-  Adjustable response value current / of the current-	• at 55 °C / Rated value	Α	24		
at 70 °C / Rated value  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  0  Suitability  Suitability for use  Suitability for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  of or N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-	• at 60 °C / Rated value	Α	24		
Auxiliary circuit  Number of CO contacts / for auxiliary contacts  Suitability  Suitability for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value for N-conductor protection / initial value for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-	• at 65 °C / Rated value	Α	23		
Number of CO contacts / for auxiliary contacts  Suitability Suitability for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value A 10  for N-conductor protection / initial value A 0  for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-  A 0.7	• at 70 °C / Rated value	Α	23		
Number of CO contacts / for auxiliary contacts  Suitability  Suitability for use  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  • for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-  A 0.7	Auxiliary circuit				
Suitability for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable response value current / of the current-			0		
Suitability for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  Adjustable value  System protection  A  0  0  0  0  0  0  0  0  0  0  0  0	Suitability				
Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  A 0.7			system protection		
Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  for N-conductor protection / Full-scale value  Adjustable response value current / of the current-  A 0.7	Adjustable parameters				
<ul> <li>for N-conductor protection / initial value</li> <li>for N-conductor protection / Full-scale value</li> <li>Adjustable response value current / of the current-</li> <li>A 0.7</li> </ul>					
• for N-conductor protection / Full-scale value A 0  Adjustable response value current / of the current- A 0.7	• of I-trip / Full-scale value	Α	10		
Adjustable response value current / of the current- A 0.7	• for N-conductor protection / initial value	Α	0		
	• for N-conductor protection / Full-scale value	Α	0		
	Adjustable response value current / of the current- dependent overload release / initial value	A	0.7		
Product details	Product details				
Product component					

		NI
• Trip indicator		No
• display		No
Voltage trigger		No
undervoltage release		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property		
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
other measurement function		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1125-6EE36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
● at 240 V / Rated value	kA	100
• at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
● at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	100
● at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	220
• at 415 V / Rated value	kA	154
• at 690 V / Rated value	kA	17
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of connectable conductor cross-section		

• of the round co	onductor terminal / str	anded			1 x (1.5 - 70 mm²)	
Type of electrical co	nnection / for main cu	ırrent circuit			Box terminal	
Mechanical Design						
Height			mm		130	
Width			mm		76.2	
Depth			mm		70	
Mounting type					fixed mounting	
Environmental cond	ditions					
Ambient temperature	е					
<ul><li>during operation</li></ul>	on / minimum		°C		-25	
<ul><li>during operation / maximum</li></ul>		°C		70		
<ul><li>during storage</li></ul>	/ minimum		°C		-40	
<ul><li>during storage</li></ul>	e / maximum		°C		80	
Certificates						
Equipment marking						
• acc. to DIN EN 61346-2				Q		
• acc. to DIN EN 81346-2				Q		
General	EMC	Declaration	n of	Shi	pping Approval	other
Product		Conformity	1			
Approval						
	other			2	8	other

## Further information

EAC

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

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

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11256EE360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11256EE360AA0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11256EE360AA0

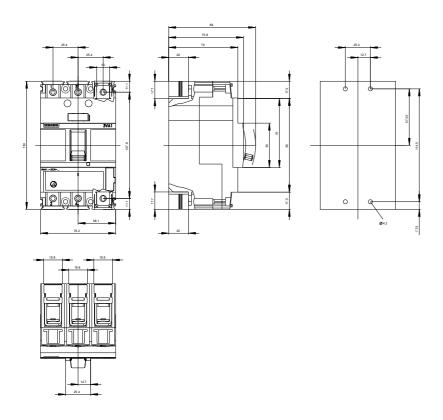
**CAx-Online-Generator** 

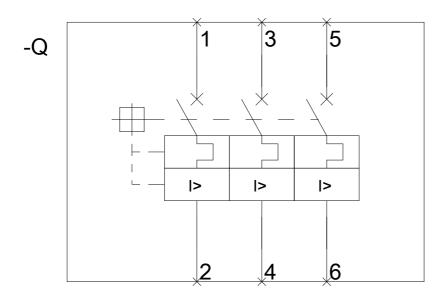
http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv

GL





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