SIEMENS

Data sheet

3VA1125-3EE36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 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	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Product variations	General Applications
Ground fault monitoring version	Without
Design of the auxiliary release	Without auxiliary release
Design of the auxiliary switch	Without
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM220

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 IP40 Protective function of the overcurrent release LI Switching capacity class of the circuit breaker N 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 • of the C / at 50/60 Hz / Rated value V 500 Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 500 Operating current • at 40 °C / Rated value A 25 • at 50 °C / Rated value A 25 • 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 Auxillary circuit Number of CO contacts / for auxillary contacts Output Sultability Sultability Sultability Sultability for use system protection Adjustable response value current • of I-trip / Full-scale value A 0 • for N-conductor protection / Full-scale value	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 Maximum Maxi			N			
Electricity 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 Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • of DC / Rated value • at 40 °C / Rated value • at 40 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value • at 70 °C / Rated value • at 60 °C / Rated value • at 70 °C / Rated value • a	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 value of the instantaneous short-circuit release / initial value Operating voltage with AC / at 50/60 Hz / Rated value of DC / Rated value V 500 Operating current at 40 °C / Rated value A 25 at 55 °C / Rated value at 55 °C / Rated value A 24 at 60 °C / Rated value at 60 °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 response value current of Intrip / Full-scale value for N-conductor protection / Full-scale value for N-conductor protection / Full-scale value of The current- A 0.7	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	Α	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 • at 70 °C / Rated value A 23 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability system protection 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		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 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			
 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 but 70 °C / Rated value at 70 °C / Rated value at 70 °C / Rated value but 23 Auxiliary circuit Number of CO contacts / for auxiliary contacts system protection Suitability Suitability for use system protection 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 for N-conductor protection / Full-scale value Adjustable response value current / of the current- Adjustable response value current / of the current- 	• 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 0 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 / Of the current-	• 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					
 for N-conductor protection / initial value for N-conductor protection / Full-scale value Adjustable response value current / of the current- A 0.7 						
• 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			
		Α	0.7			
Product details	Product details					
Product component						

		N-
Trip indicator		No
• display		No
Voltage trigger		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		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		3VA1125-3EE36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		22
at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
● at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
● at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (lcm)		
• at 240 V / Rated value	kA	75.6
● at 415 V / Rated value	kA	52.5
• at 690 V / Rated value	kA	7.5
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of connectable conductor cross-section		

• of the round co	onductor terminal / stra	anded			1 x (1.5 - 70 mm²)	
Type of electrical co	nnection / for main cu	rrent circuit			Box terminal	
Mechanical Design						
Height			mm		130	
Width			mm		76.2	
Depth			mm		70	
Mounting type					fixed mounting	
Environmental cond	litions					
Ambient temperature	9					
during operation	on / minimum		°C		-25	
 during operation 	on / maximum		°C		70	
during storage	/ minimum		°C		-40	
during storage	/ maximum		°C		80	
Certificates						
Equipment marking						
 acc. to DIN EN 	I 61346-2				Q	
• acc. to DIN EN	I 81346-2				Q	
General	EMC	Declaration	n of	Ship	pping Approval	other
Product		Conformity	′			
Approval						
	<u>other</u>			2	8	<u>other</u>

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/3VA11253EE360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11253EE360AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11253EE360AA0

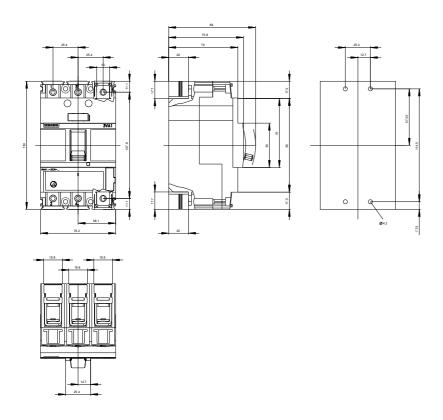
CAx-Online-Generator

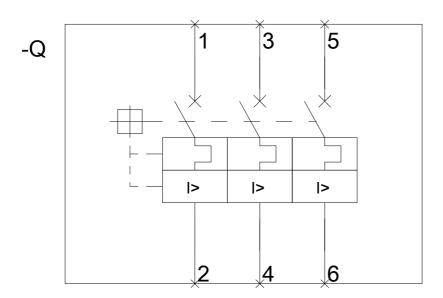
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv

GL





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