# **SIEMENS**

## Data sheet

## 3VA1125-3EF36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM240, ATAM, IN=25A OVERLOAD PROTECTION IR=17,5A ...25A SHORT CIRCUIT PROTECTION II=5...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	TM240

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		
Insulation voltage / Rated value	V	800

#### Protection class

Protective function of the overcurrent release  LI  Switching capacity Switching capacity class of the circuit breaker  N  Dissipation  Active power loss  • maximum  W  8.5  Electricity  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 current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value  Operating voltage  • with AC / at 50/60 Hz / Rated value  • of rDC / Rated value  • of rC / Rated value  • at 40 °C / Rated value  • at 50 °C / Rated value  • at 55 °C / Rated value  • at 65 °C / Rated value  • at 70 °C / Rated	Protection class IP		IP40
Switching capacity  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  • of the current-dependent overload release / Full-scale value  • of the current-dependent overload 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  • of C / Rated value  • at 40 °C / Rated value  • at 55 °C / Rated value  • at 55 °C / Rated value  • at 65 °C / Rated value  • at 66 °C / Rated value  • at 67 °C /	Protection class IP / on the front		IP40
Switching capacity class of the circuit breaker    Dissipation   Active power loss	Protective function of the overcurrent release		LI
Switching capacity class of the circuit breaker    Dissipation   Active power loss	Switching capacity		
Active power loss  • maximum    M   8.5			N
Province of the current / Rated value / maximum	Dissipation		
Continuous current / Rated value / maximum	Active power loss		
Continuous current / Rated value / maximum	• 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  Main circuit  Operating voltage  with AC / at 50/60 Hz / Rated value  of or DC / Rated value  volue  Operating current  of at 40 °C / Rated value  at 55 °C / Rated value  at 65 °C / Rated value  at 70 °C / Rated value  Adjustable parameters  Adjustable parameters  Adjustable parameters  Adjustable response value current  of 1-trip / Full-scale value  at 70 °C - Rated value  Adjustable parameters  Adjustable parameters  Adjustable response value current  of 1-trip / Full-scale value  for N-conductor protection / initial value  Adjustable parameters	Electricity		
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  • 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 70 °C / Rated value  Adjustable parameters  Adjustable parameters  Adjustable response value current  • of 1-trip / Full-scale value  • for N-conductor protection / initial value  • for N-conductor protection / initial value	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     voltage     volt	Continuous current / Rated value	А	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 50 °C / Rated value  • at 55 °C / Rated value  • at 60 °C / Rated value  • at 70 °C / Rated value  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  O  Suitability  Suitability  Suitable parameters  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  A 0	Adjustable response value current		
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 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 60 °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  Suitable parameters  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  A 0		Α	1
Operating voltage  • with AC / at 50/60 Hz / Rated value  • for DC / Rated value  V 500  Operating current  • at 40 °C / Rated value  A 25  • at 50 °C / Rated value  A 25  • at 55 °C / Rated value  A 24  • 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 for use  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  A 10  • for N-conductor protection / initial value  A 20  • at 70 °C / Rated value  A 10		Α	5
with AC / at 50/60 Hz / Rated value     for DC / 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 60 °C / Rated value     at 60 °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  Suitabile parameters  Adjustable parameters  Adjustable response value current     of I-trip / Full-scale value     for N-conductor protection / initial value     for N-conductor protection / initial value	Main circuit		
for DC / Rated value         V 500  Operating current	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 65 °C / Rated value  • 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  A 25  A 25  A 24  A 24  A 23  A 24  A 23  A 23  A 23  A 25  A 24  A 23  A 23  A 23  A 24  A 23  A 25  A 24  A 23  A 23  A 23  A 24  A 24  A 23  A 25  A 24  A 23  A 24  A 23  A 25  A 24  A 23  A 23  A 24  A 23  A 24  A 23  A 25  A 24  A 24  A 23  A 24  A 23  A 25  A 24  A 24  A 24  A 23  A 24  A 24  A 24  A 23  A 24  A 10  A 10  A 0	• 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 65 °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   Suitability  Suitability  Suitabile parameters  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  A 0	• for DC / Rated value	V	500
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 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  A 25  A 24  A 23  A 23  A 23  Auxiliary circuit  Number of CO contacts / for auxiliary contacts  0  Suitability  Suitability  A 10  of I-trip / Full-scale value  of or N-conductor protection / initial value  A 0	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 for use  Adjustable parameters  Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value  A 23  Auxiliary circuit A 23  Auxiliary circuit	• 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 for use  Adjustable parameters  Adjustable response value current  of I-trip / Full-scale value  for N-conductor protection / initial value  A 23  A 23  A 23  Auxiliary circuit  Suitability  A 10  of N-conductor protection / initial value  A 0	• 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  A 23  A 23  A 23  A 23  Auxiliary circuit  Suitability  Suitability  A 10  of I-trip / Full-scale value  A 0	• at 55 °C / Rated value	Α	24
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  A 23  Auxiliary circuit  0  Auxiliary circuit  Suitability  A 10  A 10  of or N-conductor protection / initial value  A 0	• 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  A 0	• 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  • for N-conductor protection / initial value  O  System protection  A 10  A 0	• at 70 °C / Rated value	А	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  O  System protection  A 10  A 0	Auxiliary circuit		
Suitability for use system protection  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  System protection  A 10			0
Suitability for use system protection  Adjustable parameters  Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  System protection  A 10	Suitability		
Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  A  0			system protection
Adjustable response value current  • of I-trip / Full-scale value  • for N-conductor protection / initial value  A  0	Adjustable parameters		
• for N-conductor protection / initial value A 0			
	• of I-trip / Full-scale value	Α	10
	• for N-conductor protection / initial value	Α	0
• for N-conductor protection / Full-scale value     A     0	• for N-conductor protection / Full-scale value	Α	0
Adjustable response value current / of the current- dependent overload release / initial value	Adjustable response value current / of the current-	А	0.7
Product details			
Product component			

		NI-
Trip indicator		No
<ul><li>display</li></ul>		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		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1125-3EF36-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• 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 (Icm)		
• 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 / 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	9					
<ul><li>during operation</li></ul>	on / minimum		°C		-25	
<ul> <li>during operation</li> </ul>	on / maximum		°C		70	
<ul><li>during storage</li></ul>	/ minimum		°C		-40	
<ul><li>during storage</li></ul>	/ maximum		°C		80	
Certificates						
Equipment marking						
<ul><li>acc. to DIN EN</li></ul>	l 61346-2				Q	
● acc. to DIN EN 81346-2				Q		
General	EMC	Declaration	n of	Shi	oping Approval	other
Product		Conformity	1			
Approval						
	other			2	£	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/3VA11253EF360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11253EF360AA0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11253EF360AA0

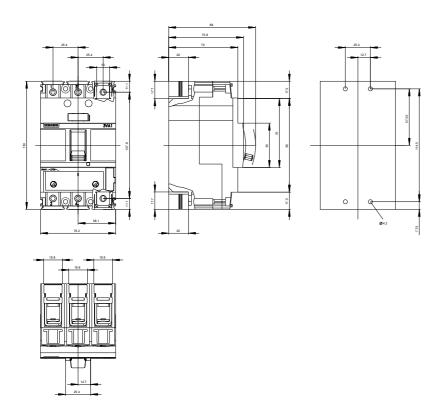
**CAx-Online-Generator** 

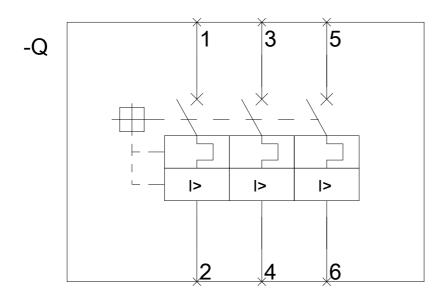
http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv

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