SIEMENS

Data sheet

3VA1125-3ED36-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=25A OVERLOAD PROTECTION IR=25A FIXED 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	TM210

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 Switching capacity dass of the circuit breaker N Dissipation Active power lose • maximum W 8.5 Electricity Continuous current / Rated value / maximum Continuous current / Rated value / maximum • of the current-dependent overload release / A Adjustable response value current • 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 55 °C / Rated value • at 65 °C / Rated v	Protection class IP		IP40
Switching capacity Switching capacity class of the circuit breaker N Dissipation Active power loss	Protection class IP / on the front	_	IP40
Switching capacity class of the circuit breaker Dissipation	Protective function of the overcurrent release	_	Ц
Switching capacity class of the circuit breaker Dissipation	Switching capacity		
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 A 10 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 25 • at 55 °C / Rated value A 24 • at 65 °C / Rated value A 23 Auxiliary circuit Number of CO contacts / for auxiliary contacts Osurtability Suitability Suitability Suitabile response value current • of I-trip / Full-scale value			N
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 A 10 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 25 • at 55 °C / Rated value A 24 • at 65 °C / Rated value A 23 Auxiliary circuit Number of CO contacts / for auxiliary contacts Osurtability Suitability Suitability Suitabile response value current • of I-trip / Full-scale value	Dissipation		
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 Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value • for DC / Rated value • at 40 °C / Rated value • at 50 °C / Rated value • at 55 °C / Rated value • at 65 °C / Rated value • at 66 °C / Rated value • at 70 °C / Rated value Adjustable parameters Adjustable response value current • of 1-trip / Full-scale value	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 of C / Rated value A 25 at 50 °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 Auxiliary circuit Number of CO contacts / for auxiliary contacts Adjustable parameters Adjustable parameters Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 10	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 50 °C / Rated value • at 60 °C / Rated value • at 70 °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 for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10	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 DC / Rated value vo 500 Operating current at 40 °C / Rated value A 25 at 55 °C / Rated value at 55 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 60 °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 A 10	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 A 25 • at 50 °C / Rated value • at 50 °C / Rated value • at 60 °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 A 10	Adjustable response value current		
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 60 °C / Rated value • at 60 °C / Rated value • at 65 °C / Rated value • at 65 °C / Rated value A 24 • at 65 °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 Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10		Α	1
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 60 °C / Rated value • at 65 °C / Rated value A 24 • 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 A 10		Α	10
with AC / at 50/60 Hz / Rated value v	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 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 O Suitability Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 25 A 24 A 23 A 23 Auxiliary circuit Number of CO contacts / for auxiliary contacts Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10	• 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 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 A 25 A 24 A 23 A 24 A 23 A 23 A 23 A 23 A 23 A 24 A 24 A 23 A 23 A 23 A 23 A 24 A 24 A 23 A 23 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 24 A 23 A 24 A 24 A 24 A 24 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 24 A 24 A 23 A 24 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 23 A 24 A 24 A 23 A 24 A 24 A 23 A 24 A 24 A 24 A 24 A 24 A 23 A 24 A 24 A 24 A 24 A 23 A 23 A 24 A 24 A 24 A 24 A 23 A 24 A 24 A 24 A 24 A 23 A 24 A 24 A 24 A 24 A 24 A 24 A 23 A 24 A 24 A 24 A 23 A 24 A 24 A 24 A 24 A 23 A 24 A 27 A 28	• for DC / Rated value	V	500
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 Auxiliary circuit Number of CO contacts / for auxiliary contacts Suitability Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 25 A 24 A 23 A 23 A 23 A 23 Auxiliary circuit Number of CO contacts / for auxiliary contacts O Aliant A 10	Operating current		
at 55 °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 Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 24 A 24 A 23 A 23 A 23 Auxiliary circuit Suitability Suitability for use Adjustable response value current Adjustable response value current Adjustable response value current	• 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 system protection Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 10 	• 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 A 23 A 23 A 10	• 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 A 20 A	• 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 A 10	● 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	• 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 A 10	Auxiliary circuit		
Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10			0
Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10	Cuitability		
Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10	· · · · · · · · · · · · · · · · · · ·		system protection
Adjustable response value current ● of I-trip / Full-scale value A 10	•		•
• of I-trip / Full-scale value A 10			
		Δ	10
■ for in-conductor protection / initial value A U			
• for N-conductor protection / Full-scale value A 0			
Adjustable response value current / of the current- A 1 dependent overload release / initial value	-	A	
Product details	Product details		
Product component	Product component		

Trip indicator		No
		No
display Voltage trigger		No
Voltage triggerundervoltage release		No
•		No
undervoltage release with leading contact Product property		INO
Product property for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		140
overload proof		
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		3VA1125-3ED36-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		00
• 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)		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	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		
Current circuit Type of connectable conductor cross-section		

 of the round conductor 	terminal / stranded			1 x (1.5 - 70 mm²)	
Type of electrical connection / for main current circuit		t		Box terminal	
Mechanical Design					
Height		mm		130	
Width		mm		76.2	
Depth		mm		70	
Mounting type	Mounting type			fixed mounting	
Environmental conditions					
Ambient temperature					
during operation / minimum		°C		-25	
during operation / maximum		°C		70	
during storage / minimum	• during storage / minimum			-40	
• during storage / maxim	ium	°C		80	
Certificates					
Equipment marking					
• acc. to DIN EN 61346-2				Q	
● acc. to DIN EN 81346-2				Q	
General EMC	Declara	tion of	Shi	pping Approval	other
Product	Conforr	nitv			

Further information

Approval

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

other

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

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11253ED360AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11253ED360AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11253ED360AA0

CAx-Online-Generator

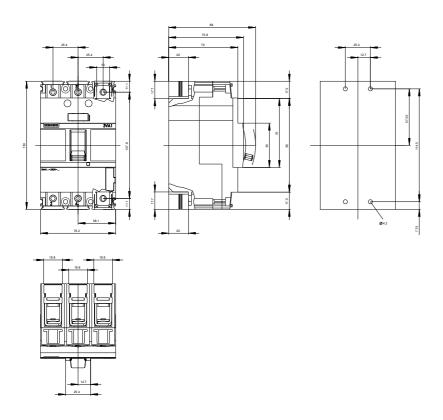
http://www.siemens.com/cax

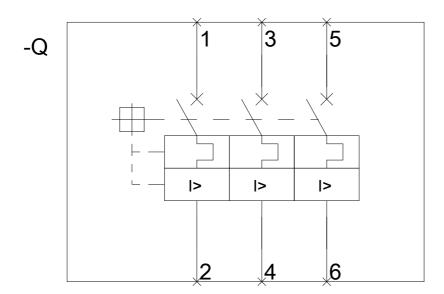
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv

other

GL





last modified: 11.03.2015