SIEMENS

Datasheet

3VA1132-3GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=32A OVERLOAD PROTECTION IR=22,4A ...32A SHORT CIRCUIT PROTECTION II=5 X IN NEUTRAL PROTECTION 100% BUSBAR CONNECTION

Figure similar

Vlodel		
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		4
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
√oltage		
Insulation voltage		
Rated value	V	800

Protective function of the overcurrent release LI Switching capacity N Switching capacity class of the circuit breaker N Dissipation V 10.6 Active power loss • maximum W 10.6 Electricity V 00.6 Operating current / lat 45 °C / Rated value A 32 Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 32 Adjustable response value current • Rated value A 32 of the current-dependent overload release / Full-scale value A 1 • of the circuit release / initial value G 1 Operating voltage U 600 Operating voltage U 600 • of the circuit aute V 690 • of the circuit aute A 32 • of the circuit aute V 690 • of the circuit aute A 32 • of the circuit aute A 32 • of the circuit aute V 690 • of the circuit aute A 32 • of the full aute A 32 • of the full aute A 32 • of the full aute A </th <th>Protection class</th> <th></th> <th></th>	Protection class		
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• maximumW10.8ElectricityOperating ourrent / at 45 °C / Rated valueA32Continuous current / Rated value / maximumA100Continuous current / • Rated value /A32Adjustable response value current • of the current-dependent overload release / Full-scale valueA32Adjustable response value current • of the instantaneous short-circuit release / initial valueA5Net weightg1 200Main circuit5Operating outrage • with AC / at 50/60 Hz / Rated valueV690Operating outrage • for DC / Rated valueV690Operating outrage • at 50 °C / Rated valueA32At 50 °C / Rated valueA32• at 60 °C / Rated valueA32• at 60 °C / Rated valueA32• at 50 °C / Rated valueA32• at 50 °C / Rated valueA30• at 60 °C / Rated valueA30• at 70 °C / Rated valueA30• at 70 °C / Rated valueA30• for auxiliary contactsI• for uzblityII• Suitabili			
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Continuous current / Rated value / maximum A 160 Continuous current Rated value A 32 Adjustable response value current A 32 Adjustable response value current A 1 • of the current-dependent overload release / initial value A 5 • of the instantaneous short-circuit release / initial value G 1 200 Net weight g 1 200 Main circuit V 690 Operating voltage V 600 • for DC / Rated value V 600 Operating current A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31.04 • at 60 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • for N-conducts 0	Electricity		
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• Rated valueA32Adjustable response value current • of the current-dependent overload release / Full-scale valueA1• of the current-dependent overload release / Full-scale valueA5• of the instantaneous short-circuit release / initial valueA5• Net weightg1 200MetweightOperating voltage • for DC / Rated valueV690• for DC / Rated valueV600• of DC / Rated valueA32• at 40 °C / Rated valueA32• at 50 °C / Rated valueA31• at 65 °C / Rated valueA30• at 65 °C / Rated valueA30• at 65 °C / Rated valueA30• at 70 °C / Rated valueA30• at 70 °C / Rated valueA30• for auxiliary contacts0Suitability for usesuitability for useAdjustable parametersAdjustable response value current • of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100	Continuous current / Rated value / maximum	А	160
Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 5 Net weight g 1 200 Main circuit A 5 Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current V 600 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31.04 • at 60 °C / Rated value A 30 • at 60 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • for auxiliary contacts 0 0 Suitability system protection system protection • of I-trip / Full-scale value A	Continuous current	_	
• of the current-dependent overload release / Full-scale valueA1• of the instantaneous short-circuit release / initial valueA5Net weightg1 200Main circuitV690Operating voltageV690• with AC / at 50/60 Hz / Rated valueV690• for DC / Rated valueV690• for DC / Rated valueV600Operating currentImage: Control of	Rated value	А	32
Full-scale value A 5 • of the instantaneous short-circuit release / initial value g 1 200 Met weight g 1 200 Main circuit V 690 Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current V 600 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31.04 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • for auxiliary contacts 0 0 Suitability system protection • Suitability for use system protection Adjustable response value current A 10 • of 1-trip / Full-scale value A 100	Adjustable response value current		
• of the instantaneous short-circuit release / initial value A 5 Net weight g 1 200 Main circuit Operating voltage Image: Circuit V Circuit Patted value V 690 • with AC / at 50/60 Hz / Rated value V 690 600 Operating current V 600 600 • at 40 °C / Rated value A 32 32 • at 40 °C / Rated value A 32 32 • at 50 °C / Rated value A 31.04 34 • at 60 °C / Rated value A 30 30 • at 65 °C / Rated value A 30 30 • at 65 °C / Rated value A 30 30 • at 70 °C / Rated value A 30 30 • at 70 °C / Rated value A 30 30 Suitability for use system protection 5 5/tdtability for use • for auxiliary contacts 0 0 5/tdtability for use 5/tdtability for use <td< td=""><td> of the current-dependent overload release / </td><td>А</td><td>1</td></td<>	 of the current-dependent overload release / 	А	1
value g 1 200 Main circuit g 1 200 Operating voltage g 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current	Full-scale value		
Net weight g 1 200 Main circuit Operating voltage vith AC / at 50/60 Hz / Rated value V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 690 Operating current vith ad 0° C / Rated value A 32 • at 40 °C / Rated value A 32 • at 40 °C / Rated value A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 31.04 • at 60 °C / Rated value A 30 • at 60 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • bit ability contacts 0 Suitability Suitability for use System protection • Suitability for use System protection Adjustable response value current A 10 • for N-conductor protection / initial value A 100	 of the instantaneous short-circuit release / initial 	А	5
Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current	value		
Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 600 • for DC / Rated value V 600 Operating current	Net weight	g	1 200
with AC / at 50/60 Hz / Rated valueV690• for DC / Rated valueV600Operating current-• at 40 °C / Rated valueA32• at 50 °C / Rated valueA32• at 50 °C / Rated valueA31.04• at 60 °C / Rated valueA31• at 60 °C / Rated valueA30• at 70 °C / Rated valueA30• difference00Suitability-system protection• for auxiliary contacts0-Adjustable parameters-system protectionAdjustable response value currentA10• of I-trip / Full-scale valueA100	Main circuit		
Instruct of the origination originat	Operating voltage		
Operating current A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 55 °C / Rated value A 31.04 • at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Number of CO contacts 0 • for auxiliary contacts 0 Suitability system protection Adjustable parameters A 10 Adjustable response value A 100	 with AC / at 50/60 Hz / Rated value 	V	690
• at 40 °C / Rated valueA32• at 50 °C / Rated valueA32• at 50 °C / Rated valueA31.04• at 60 °C / Rated valueA31• at 65 °C / Rated valueA30• at 65 °C / Rated valueA30• at 70 °C / Rated valueA30• at 70 °C / Rated valueA30• for auxiliary contacts0Suitability for use• for auxiliary contactsoAdjustable parameterssystem protectionAdjustable response value current • of 1-trip / Full-scale valueA10• for N-conductor protection / initial valueA100	 for DC / Rated value 	V	600
A to be induce tableA32• at 50 °C / Rated valueA31.04• at 55 °C / Rated valueA31.04• at 60 °C / Rated valueA31• at 65 °C / Rated valueA30• at 65 °C / Rated valueA30• at 70 °C / Rated valueA30• at 70 °C / Rated valueA30• for auxiliary circuitImage: Second s	Operating current	_	
• at 55 °C / Rated value A 31.04 • at 60 °C / Rated value A 31 • at 60 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Auxiliary contacts 0 0 Suitability System protection • Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 100	• at 40 °C / Rated value	А	32
• at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Auxiliary contacts 0 0 Suitability • for auxiliary contacts 0 Suitability • system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 100	● at 50 °C / Rated value	А	32
• at 65 °C / Rated valueA30• at 70 °C / Rated valueA30Auxiliary circuitA30Auxiliary contacts0• for auxiliary contacts0Suitabilitysystem protectionAdjustable parameterssystem protectionAdjustable response value currentA10• for N-conductor protection / initial valueA100	● at 55 °C / Rated value	А	31.04
• at 70 °C / Rated valueA30Auxiliary circuitImage: Auxiliary circuitNumber of CO contacts • for auxiliary contacts0Suitability0Suitabilitysystem protectionAdjustable parametersImage: Auxiliary circuitAdjustable response value current • of I-trip / Full-scale valueA10Adjustable response valueA100	● at 60 °C / Rated value	А	31
Auxiliary circuit Number of CO contacts 0 • for auxiliary contacts 0 Suitability • Suitability for use • Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A	● at 65 °C / Rated value	А	30
Number of CO contacts 0 • for auxiliary contacts 0 Suitability • • Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A	● at 70 °C / Rated value	А	30
Number of CO contacts 0 • for auxiliary contacts 0 Suitability • • Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A			
• for auxiliary contacts0SuitabilitySuitability for usesystem protection• Suitable parameterssystem protectionAdjustable parametersAdjustable response value current • of I-trip / Full-scale valueA• of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100			
Suitability system protection • Suitability for use system protection Adjustable parameters Adjustable response value current • of I-trip / Full-scale value A • for N-conductor protection / initial value A			0
Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 100	Suitability		
Adjustable response value current A • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 100	 Suitability for use 		system protection
• of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100	Adjustable parameters		
for N-conductor protection / initial value A 100	Adjustable response value current		
	 of I-trip / Full-scale value 	А	10
for N-conductor protection / Full-scale value A 100	 for N-conductor protection / initial value 	А	100
	 for N-conductor protection / Full-scale value 	А	100

Adjustable response value current / of the current- dependent overload release / initial value	А	0.7
-		
Appearance		
Product details	_	
Product component		
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 switch		3VA1132-3GF42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	36
at 240 V / Rated value	kA kA	36 25
• at 415 V / Rated value	kA	25
 at 415 V / Rated value at 440 V / Rated value 	kA kA	25 16
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA	25 16 8
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA	25 16
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	25 16 8 5
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value 	kA kA kA kA kA	25 16 8 5 36
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value 	kA kA kA kA kA	25 16 8 5 36 25
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value 	kA kA kA kA kA kA	25 16 8 5 36 25 16
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value 	kA kA kA kA kA	25 16 8 5 36 25

• 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 current circuit 		Front termin	al	
Type of connectable conductor cross-section				
 for flat-bar terminal connection / minimum 		12 x 0		
 for flat-bar terminal connection / maximum 		17 x 6.5		
Design of the electrical connection				
• for main current circuit		Lug terminal		
lechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm	70		
Mounting type		fixed mounting		
Invironmental conditions				
Ambient temperature				
 during operation / minimum 	°C	-25		
 during operation / maximum 	°C	70		
 during storage / minimum 	°C	-40		
 during storage / maximum 	°C	80		
Certificates				
Reference code				
• acc. to DIN EN 61346-2		Q		
• acc. to DIN EN 81346-2		Q		
General Product Approval EMC		eclaration of onformity	Shipping Approval	other
	ther			other
	(F	GL	

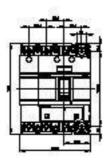
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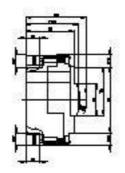
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11323GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11323GF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11323GF420AA0

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





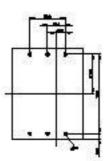




Figure similar

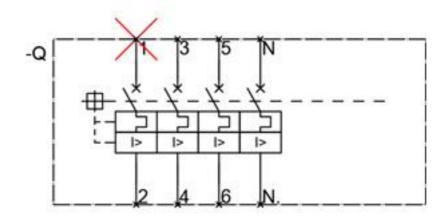


Figure similar

last modified:

21.10.2014