SIEMENS

Data sheet

3VA1132-6GF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=32A OVERLOAD PROTECTION IR=22,4A ...32A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 100% 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		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			
Voltage					
Insulation voltage / Rated value	V	800			
Protection class					

Protection class IP / on the front IP40 Protective function of the overcurrent release LI Switching capacity Switching capacity class of the circuit breaker H Prospiration Active power loss H • maximum W 10.5 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 5 • of the instantaneous short-circuit release / initial value A 5 • of the current-dependent overload release / initial value V 690 • of the instantaneous short-circuit release / initial value A 5 value V 690 690 • for DC / Rated value A 32 432 • at 50 °C / Rated value A 32 432 • at 50 °C / Rated value A 31 432 • at 55 °C / Rated value A 30 30 • at 55 °C / Rated value A 30 30 <	Protection class IP	-	IP40					
Switching capacity Switching capacity class of the circuit breaker H Dissipation Active power loss • maximum W 10.6 Electricity Operating voltage Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 32 Adjustable response value current • A 32 Adjustable response value current • A 1 • of the current-dependent overload release / Full-scale value • 1 • of the current-dependent overload release / initial value • 5 • of the instantaneous short-circuit release / initial value • 5 • of the full-scale value V 690 • of the Operating voltage • 690 • for DC / Rated value V 690 • for DC / Rated value A 32 • at 50 °C / Rated value A 32 • 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 B	Protection class IP / on the front		IP40					
Switching capacity class of the circuit breaker H Dissipation Active power loss Imaximum • maximum W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 32 Adjustable response value current • • 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 5 Main circuit Operating voltage • • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 6000 Operating voltage • • • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 <	Protective function of the overcurrent release	-	LI					
Switching capacity class of the circuit breaker H Dissipation Active power loss Imaximum • maximum W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 32 Adjustable response value current • • 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 5 Main circuit Operating voltage • • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 6000 Operating voltage • • • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 • at 50 °C / Rated value A 30 <								
Dissipation Active power loss v 10.6 Electricity 0 0 Continuous current / Rated value A 160 Continuous current / Rated value A 32 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 Main circuit V 690 600 Operating voltage V 690 600 Operating current 4 32 • at 40 °C / Rated value V 690 600 Operating current 32 32 • at 40 °C / Rated value A 32 • at 40 °C / Rated value A 32 • at 40 °C / Rated value A 31.04 • at 60 °C / Rated value A 30 30 • at 60 °C / Rated value A 30 30 • at 60 °C / Rated value A 30 30 • at 60 °C / Rated value A 30 30		-	н					
Active power loss W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 Adjustable response value current A 32 Adjustable response value current / Full-scale value A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 5 Main circuit Operating voltage V 690 • of DC / Rated value V 600 Operating current a 32 • at 40 °C / Rated value A 32 • at 55 °C / Rated value A 31 • 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 • 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 Suitability System protection Suitability for use								
• maximumW10.6ElectricityContinuous current / Rated value / maximumA160Continuous current / Rated valueA32Adjustable response value currentA1• of the current-dependent overload release / Full-scale valueA1• of the instantaneous short-circuit release / initialA5Main circuitA5Operating voltageV690• for DC / Rated valueV690• for DC / Rated valueV690• for DC / Rated valueA32• at 40 °C / Rated valueA32• at 50 °C / Rated valueA31• at 60 °C / Rated valueA31• at 60 °C / Rated valueA31• at 60 °C / Rated valueA30• at 70 °C / Rated valueA10• at 70 °C / Rated valueA100								
Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 Adjustable response value current A 1 • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial A 5 value Operating voltage Full-scale value V • with AC / at 50/60 Hz / Rated value V 600 Operating voltage V 600 • for DC / Rated value A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 40 °C / Rated value A 32 • at 60 °C / Rated value A 31 • 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 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A	·							
Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 32 Adjustable response value current • of the current-dependent overload release / Full-scale value A 1 • of the instantaneous short-circuit release / initial value A 5 Main circuit Operating voltage • 690 • of the instantaneous short-circuit release / initial value V 690 • of the Z / at 50/60 Hz / Rated value V 690 • of DC / Rated value V 690 • of C / Rated value A 32 • at 40 °C / Rated value A 32 • at 55 °C / Rated value A 32 • at 55 °C / Rated value A 31 • at 65 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 67 °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 10 • of I-trip /	● maximum	W	10.6					
Continuous current / Rated value A 32 Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value A 1 Main circuit A 5 Operating voltage Image: Continuous Current • with AC / at 50/60 Hz / Rated value V • of C / Rated value V • at 40 °C / Rated value V • at 50 °C / Rated value A • at 50 °C / Rated value A • 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 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Suitability Suitability Suitability Suitability Suitability <	Electricity							
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 Main circuit A 5 Operating voltage • 600 • of DC / Rated value V 600 Operating current • 600 • at 40 °C / Rated value A 32 • at 55 °C / Rated value A 32 • at 55 °C / Rated value A 31.04 • 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 0 System protection Auxiliary circuit V System protection Auxiliary contacts / for auxiliary contacts 0 0 Suitability System protection A • of I-trip / Full-scale value A 10 • of I-trip / Full-scale value A 100 • of I-trip / Full-scale value A 100	Continuous current / Rated value / maximum	А	160					
• of the current-dependent overload release / A 1 Full-scale value • of the instantaneous short-circuit release / initial value A 5 Main circuit A 5 Operating voltage • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current - - • 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 60 °C / Rated value A 30 • 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 • at 70 °C / Rated value A 30 Suitability system protection A <t< td=""><td>Continuous current / Rated value</td><td>А</td><td>32</td></t<>	Continuous current / Rated value	А	32					
Full-scale value A 5 of the instantaneous short-circuit release / initial value A 5 Main circuit Operating voltage 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current	Adjustable response value current							
value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current • 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 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 • at 70 °C / Rated value A 30 Auxiliary circuit 0 Suitability for use Suitability for use system protection Adjustable parameters A 10 • of I-trip / Full-scale value A 100 • for N-conductor protection / initial value A 100	·	A	1					
Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current		A	5					
• with AC / at 50/60 Hz / Rated valueV690• for DC / Rated valueV600Operating current-• at 40 °C / Rated valueA32• at 50 °C / Rated valueA32• at 55 °C / Rated valueA31.04• at 60 °C / Rated valueA31• at 65 °C / Rated valueA30• at 70 °C / Rated valueA30• at 70 °C / Rated valueA30• at 70 °C / Rated valueA10Adjustable parametersA100Adjustable response value currentA100• for N-conductor protection / Full-scale valueA100	Main circuit							
• for DC / Rated value V 600 Operating current - • 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 31.04 • 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 • 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 • at 70 °C / Rated value A 30 Auxiliary circuit 0 0 Suitability Suitability for use system protection Adjustable parameters Adjustable response value current A • of 1-trip / Full-scale value A 10 • for N-conductor protection / initial value A 100 • for N-conductor protection / Full-scale value A 100	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 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit 0 0 Suitability Suitability for use 9 Suitability for use a 10 Adjustable parameters A 100 • of I-trip / Full-scale value A 100 • for N-conductor protection / initial value A 100	 with AC / at 50/60 Hz / Rated value 	V	690					
• at 40 °C / Rated valueA32• at 50 °C / Rated valueA32• 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 valueA10• at 70 °C / Rated valueA100• at 70 °C / Rated valueA100• of I-trip / Full-scale valueA100• for N-conductor protection / initial valueA100	 for DC / Rated value 	V	600					
at to o'n factor factor A 12 • 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 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters A 10 • of I-trip / Full-scale value A 100 • for N-conductor protection / initial value A 100	Operating current	-						
eat 55 °C / Rated value A 31.04 eat 60 °C / Rated value A 31 eat 65 °C / Rated value A 30 eat 65 °C / Rated value A 30 eat 70 °C / Rated value A 30 Auxiliary circuit A 30 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters 4 Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A • for N-conductor protection / Full-scale value A	• at 40 °C / Rated value	А	32					
• at 60 °C / Rated value A 31 • at 60 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30 Auxiliary circuit A 30 Number of CO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters 4 Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A	• at 50 °C / Rated value	А	32					
• 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 Number of CO contacts / for auxiliary contacts 0 Suitability Suitability Adjustable parameters system protection Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A	• at 55 °C / Rated value	А	31.04					
 at 70 °C / Rated value A 30 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability 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 for N-conductor protection / Full-scale value 	• at 60 °C / Rated value	А	31					
Auxiliary circuit 0 Number of CO contacts / for auxiliary contacts 0 Suitability system protection Suitability for use system protection Adjustable parameters 10 Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A	• at 65 °C / Rated value	А	30					
Number of CO contacts / for auxiliary contacts 0 Suitability system protection Suitability for use system protection Adjustable parameters a Adjustable response value current A • of I-trip / Full-scale value A • for N-conductor protection / initial value A • for N-conductor protection / Full-scale value A	• at 70 °C / Rated value	А	30					
Number of CO contacts / 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 • for N-conductor protection / Full-scale value A	Auxiliary circuit							
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 • for N-conductor protection / Full-scale value A 100			0					
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 • for N-conductor protection / Full-scale 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 • for N-conductor protection / Full-scale value A 100			system protection					
Adjustable response value current A • of I-trip / Full-scale value A 10 • for N-conductor protection / initial value A 100 • for N-conductor protection / Full-scale value A 100	Adjustable parameters							
• of I-trip / Full-scale valueA10• for N-conductor protection / initial valueA100• for N-conductor protection / Full-scale valueA100								
 for N-conductor protection / initial value for N-conductor protection / Full-scale value A 100 A 100 		А	10					
for N-conductor protection / Full-scale value A 100		А	100					
		А	100					
		А						
dependent overload release / initial value								
Product details								
Product component	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		3VA1132-6GF46-0AA0
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	randed		1 x (1.5 - 70 mm²)			
Type of electrical co	nnection / for main cu	urrent circuit		Box terminal			
Mechanical Design							
Height			mm	130			
Width			mm	101.6			
Depth			mm	70			
Mounting type				fixed mounting			
Environmental conc	litions						
Ambient temperature	e						
 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 	l 61346-2			Q			
 acc. to DIN EN 	V 81346-2			Q			
General Product Approval	EMC	Declaration Conformity		pping Approval	other		
EHC	other	EG-Konf.			other		

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

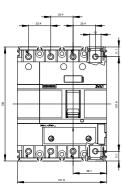
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11326GF460AA0

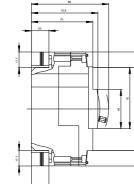
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11326GF460AA0/all

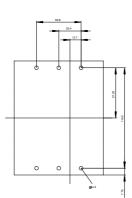
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11326GF460AA0

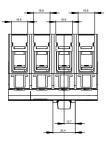
CAx-Online-Generator http://www.siemens.com/cax

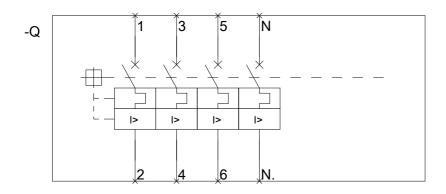
Tender specifications http://ausschreibungstexte.siemens.com/tiplv











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