## **SIEMENS**

## Datasheet

## 3VA1110-4GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 100% BUSBAR 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		
Protective function of the overcurrent release		LI
	_	
Switching capacity Switching capacity class of the circuit breaker	_	S
		3
Dissipation	-	
Active power loss		
• maximum	W	25
Electricity		
Operating current / at 45 °C / Rated value	А	100
Continuous current / Rated value / maximum	А	160
Continuous current		
<ul> <li>Rated value</li> </ul>	А	100
Adjustable response value current	-	
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
<ul> <li>of the instantaneous short-circuit release / initial</li> </ul>	А	5
value		
Net weight	g	1 200
Main circuit		
Operating voltage		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	600
Operating current	-	
● at 40 °C / Rated value	А	100
• at 50 °C / Rated value	А	100
• at 55 °C / Rated value	А	98
• at 60 °C / Rated value	А	96
• at 65 °C / Rated value	А	94
• at 70 °C / Rated value	А	91
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability		
Suitability for use		system protection
-		
Adjustable parameters Adjustable response value current		
	А	10
of I-trip / Full-scale value     for N conductor protection / initial value	A	100
• for N-conductor protection / initial value		
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	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
<ul> <li>undervoltage release</li> </ul>		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
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1110-4GF42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		

	other			GI	other	
General Product Approval	EMC		Declaration of Conformity	Shipping Approval	other	
• acc. to DIN EN 81346-2			Q			
• acc. to DIN EN 61346-2			Q			
Reference code						
Certificates						
<ul> <li>during storage / maximum</li> </ul>		°C	80			
• during storage / minimum		°C	-40			
• during operation / maximum		°C	70			
• during operation / minimum		°C	-25			
Ambient temperature						
Environmental conditions						
Mounting type			fixed mount	ing		
Depth Mounting time		mm	70			
Width		mm	101.6			
Height		mm	130			
lechanical Design						
• for main current circuit			Lug terminal			
Design of the electrical connection						
<ul> <li>for flat-bar terminal connection / m</li> </ul>	aximum		17 x 6.5	17 x 6.5		
<ul> <li>for flat-bar terminal connection / m</li> </ul>	inimum		12 x 0			
Type of connectable conductor cross-se	ction					
<ul> <li>for main current circuit</li> </ul>			Front termin	nal		
Arrangement of electrical connectors						
Connections						
• at 690 V / Rated value		kA	7.5			
• at 415 V / Rated value		kA	75.6			

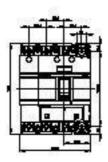
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

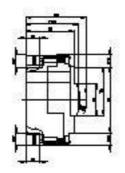
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11104GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11104GF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11104GF420AA0

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





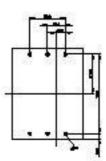




Figure similar

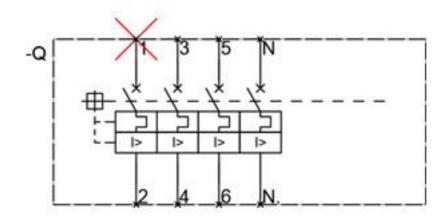


Figure similar

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