# **SIEMENS**

### Datasheet

## 3VA1112-3GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=125A OVERLOAD PROTECTION IR=125A FIXED SHORT CIRCUIT PROTECTION II=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		TM210		
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 consolity	_	
Switching capacity Switching capacity class of the circuit breaker		N
Dissipation	_	
Active power loss		
• maximum	W	23.2
Electricity		
Operating current / at 45 °C / Rated value	А	125
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	125
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
of the instantaneous short-circuit release / initial	A	10
value		4 000
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	125
● at 50 °C / Rated value	А	125
● at 55 °C / Rated value	А	122
• at 60 °C / Rated value	А	120
• at 65 °C / Rated value	А	117
• at 70 °C / Rated value	А	114
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		
of I-trip / Full-scale value	А	10
for N-conductor protection / initial value	A	100
	A	100
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	Α	100

Adjustable response value current / of the current-	A	1
dependent overload release / initial value		
ppearance		
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
ccessories		
Manufacturer article number / of the supplied basic		3VA1112-3GD42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		22
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
	kA	16
• at 440 V / Rated value		
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> </ul>	kA	8
<ul> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	8 5
• at 500 V / Rated value	kA	5
<ul> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	5 36
<ul> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA	5
<ul> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> </ul>	kA kA	5 36
<ul> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA	5 36 25

		75.6			
• at 240 V / Rated value	kA	75.6			
• at 415 V / Rated value	kA	52.5			
• at 690 V / Rated value	kA	7.5			
onnections					
Arrangement of electrical connectors					
<ul> <li>for main current circuit</li> </ul>		Front termin	al		
Type of connectable conductor cross-section					
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		12 x 0			
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		17 x 6.5			
Design of the electrical connection					
• for main current circuit		Lug termina	Lug terminal		
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mount	fixed mounting		
nvironmental conditions					
Ambient temperature					
<ul> <li>during operation / minimum</li> </ul>	°C	-25			
<ul> <li>during operation / maximum</li> </ul>	°C	70			
<ul> <li>during storage / minimum</li> </ul>	°C	-40			
<ul> <li>during storage / maximum</li> </ul>	°C	80			
ertificates					
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	
	ner			other	
		E	GL		
	E				

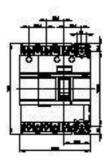
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

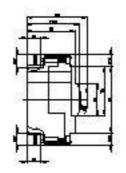
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11123GD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11123GD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11123GD420AA0

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





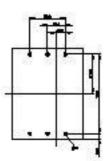




Figure similar

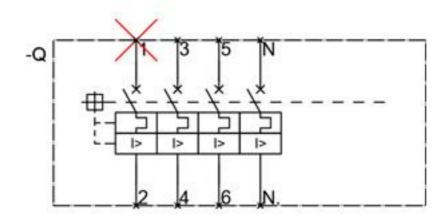


Figure similar

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