# **SIEMENS**

## Data sheet

## 3VA1225-5GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=250A OVERLOAD PROTECTION IR=175A ...250A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 1 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 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	
Total disconnection time / for G-tripping / with standard characteristic / initial value	S	0	
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0	
Mechanical service life (switching cycles) / typical		15 000	

Voltage		
Insulation voltage / Rated value	V	800
Protection class		

Protection class	
Protection class IP	IP40
Protection class IP / on the front	IP40

Protective function of the overcurrent release		LI		
Switching capacity				
Switching capacity class of the circuit breaker		M		
Dissipation				
Active power loss				
• maximum	W	57		
Electricity				
Continuous current / Rated value / maximum	Α	250		
Continuous current / Rated value	Α	250		
Main circuit				
Operating voltage				
<ul><li>with AC / at 50/60 Hz / Rated value</li></ul>	V	690		
• for DC / Rated value	V	600		
Operating current				
● at 40 °C / Rated value	Α	250		
• at 50 °C / Rated value	Α	250		
• at 55 °C / Rated value	Α	243.3		
• at 60 °C / Rated value	Α	236.5		
• at 65 °C / Rated value	Α	229.8		
• at 70 °C / Rated value	Α	223		
Auxiliary circuit				
Number of CO contacts / for auxiliary contacts		0		
Suitability				
Suitability for use		system protection		
Adjustable parameters				
Adjustable response value current				
<ul> <li>for G-tripping / with I2t characteristic / initial value</li> </ul>	Α	0		
• for G-tripping / with I2t characteristic / Full-scale value	Α	0		
Adjustable delay time				
<ul> <li>for G-tripping / with I2t characteristic / initial value</li> </ul>	S	0		
<ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> </ul>	s	0		
	s A	250		
value  Adjustable response value current / of the current-				
value  Adjustable response value current / of the current- dependent overload release / initial value				

• display		No
undervoltage release		No
Product property		
of the circuit breaker with tripping unit / Tripping characteristic adjustable		No
<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
• communication function		No
<ul> <li>other measurement function</li> </ul>		No
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
● at 240 V / Rated value	kA	85
● at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	36
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
● at 415 V / Rated value	kA	55
● at 440 V / Rated value	kA	36
● at 690 V / Rated value	kA	10
Short-circuit current making capacity (lcm)		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 440 V / Rated value	kA	75.6
● at 690 V / Rated value	kA	17
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of electrical connection / for main current circuit		Lug terminal
Mechanical Design		
Height	mm	158
Width	mm	140
Depth	mm	70
Mounting type		fixed mounting
Environmental conditions		

Ambient temperature		
<ul><li>during operation / minimum</li></ul>	°C	-25
• during operation / maximum	°C	70
• during storage / minimum	°C	-40
• during storage / maximum	°C	80

## Certificates

#### **Equipment marking**

• acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2 Q

General Product	Declaration of	Test Certificates	other
Approval	Conformity		





Type Test Certificates/Test Report 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/3VA12255GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA12255GF420AA0/all

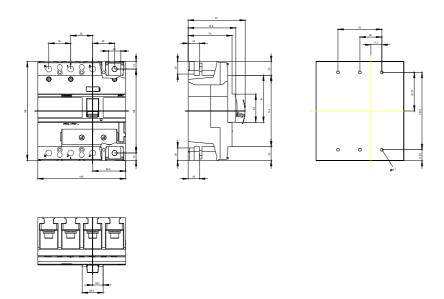
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA12255GF420AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA12255GF420AA0</a>

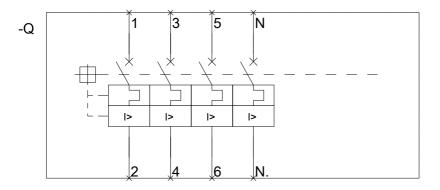
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv





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