# **SIEMENS**

### **Datasheet**

## 3VA1110-3GE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A 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	TM220

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		Ц
Switching consoity		
Switching capacity Switching capacity class of the circuit breaker		N
omining supusity states of the should be state.		
Dissipation		
Active power loss		
• maximum	W	25
Electricity		
Operating current / at 45 °C / Rated value	Α	100
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	100
Adjustable response value current		
<ul><li>of the current-dependent overload release /</li></ul>	Α	1
Full-scale value		
• of the instantaneous short-circuit release / initial	Α	10
value		
Net weight	g	1 200
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	100
• at 50 °C / Rated value	Α	100
• at 55 °C / Rated value	Α	98
• at 60 °C / Rated value	Α	96
• at 65 °C / Rated value	Α	94
• at 70 °C / Rated value	Α	91
Auxiliary circuit		
Number of CO contacts		
for auxiliary contacts		0
Suitability		ovatore protection
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
of I-trip / Full-scale value	А	10
	A A	10 100

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
<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		
<ul><li>optional</li></ul>		
— 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		3VA1110-3GE42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	36
● at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		

• 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 terminal	
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	

Mechanical Design		
Height	mm	130
Width	mm	101.6
Depth	mm	70
Mounting type		fixed mounting

Environmental 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

# Certificates

Reference code • acc. to DIN EN 61346-2

Q Q

**General Product Approval EMC Declaration of Shipping** other Conformity **Approval** other





other



#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

• acc. to DIN EN 81346-2

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11103GE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3VA11103GE420AA0/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=3VA11103GE420AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11103GE420AA0</a>

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

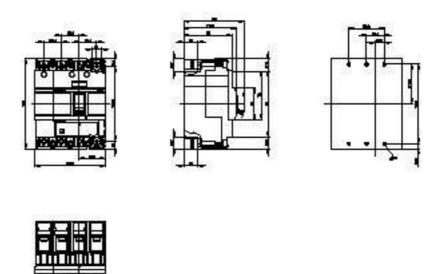


Figure similar

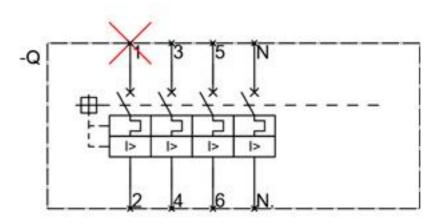


Figure similar

**last modified:** 21.10.2014