SIEMENS

Datasheet

3VA1120-3GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=20A OVERLOAD PROTECTION IR=20A 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		Ц
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss		40
• maximum	W	12
Electricity		
Operating current / at 45 °C / Rated value	Α	20
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	20
Adjustable response value current		
• of the current-dependent overload release /	Α	1
Full-scale value		
• of the instantaneous short-circuit release / initial	Α	10
value		
Net weight	g	1 200
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	Α	20
• at 50 °C / Rated value	Α	20
• at 55 °C / Rated value	Α	20
• at 60 °C / Rated value	Α	19
• at 65 °C / Rated value	Α	19
• at 70 °C / Rated value	Α	19
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
·		
Suitability • Suitability for upo		system protection
Suitability for use		System protection
Adjustable parameters		
Adjustable response value current		
● of I-trip / Full-scale value	Α	10
• for N-conductor protection / initial value	Α	100
• for N-conductor protection / Full-scale value	Α	100

ppearance roduct details Product component • Trip indicator • display • Voltage trigger • undervoltage release • undervoltage release with leading contact		No
Product component Trip indicator display Voltage trigger undervoltage release		
Product component Trip indicator display Voltage trigger undervoltage release		
displayVoltage triggerundervoltage release		
Voltage triggerundervoltage release		N
undervoltage release		No
		No
undervoltage release with leading contact		No
		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion		
• optional		
— motor drive		Yes
roduct function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
other measurement function		No
ccessories		
Manufacturer article number / of the supplied basic		3VA1120-3GD42-0AA0
switch		
hort circuit		
Operational short-circuit current breaking capacity (lcs)		
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 (lcm)		

• 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					
during operation / minimum	°C	-25			
during operation / maximum	°C	70			
during storage / minimum	°C	-40			
during storage / maximum	°C	80			

Certificates Reference code ● acc. to DIN EN 61346-2 Q

General Pro	duct Approval	EMC	Declaration of Conformity	Shipping Approval	other
		other			other





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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/3VA11203GD420AA0

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

http://support.automation.siemens.com/WW/view/en/3VA11203GD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11203GD420AA0

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

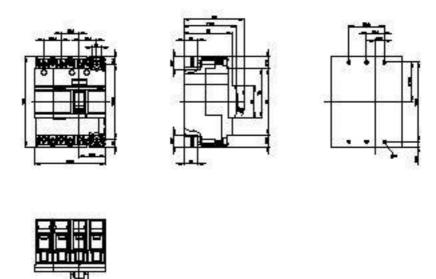


Figure similar

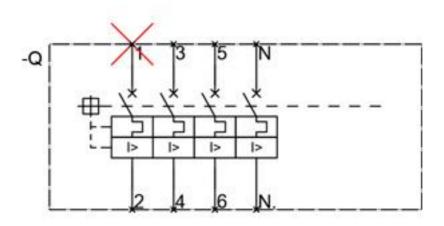


Figure similar

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