SIEMENS

Data sheet

3VA1120-3GE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=20A OVERLOAD PROTECTION IR=14A ...20A 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		

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	_	Ν
		~
Dissipation		
Active power loss		
• maximum	W	12
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	А	20
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	A	1
 of the instantaneous short-circuit release / initial value 	A	10
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	А	20
• at 50 °C / Rated value	А	20
● at 55 °C / Rated value	А	20
● at 60 °C / Rated value	А	19
● at 65 °C / Rated value	А	19
• at 70 °C / Rated value	А	19
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		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 	А	100
 for N-conductor protection / Full-scale value 	А	100
Adjustable response value current / of the current- dependent overload release / initial value	A	0.7
Product details		
Product component		
· · · · · · · · · · · · · · · · · · ·		

• Trin indicator		No
Trip indicator		No
• display		
Voltage trigger		No
undervoltage release		No
undervoltage release with leading contact		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion / optional / 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		<u>3VA1120-3GE42-0AA0</u>
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		Front terminal
current circuit		

Type of connectable conductor cross-section

 for flat-bar terminal connection / minimum for flat-bar terminal connection / maximum 		12 x 0 17 x 6.5		
Type of electrical connection / for main current cir	rcuit	Lug termina	al	
		Lug termina	1	
lechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm	70		
Mounting type		fixed mount	ting	
nvironmental conditions				
Ambient temperature				
 during operation / minimum 	°C	-25		
 during operation / maximum 	°C	70		
 during storage / minimum 	°C	-40		
 during storage / maximum 	°C	80		
ertificates				
Equipment marking				
• acc. to DIN EN 61346-2		Q		
• acc. to DIN EN 81346-2		Q		
General Product Approval EMC	;	Declaration of Conformity	Shipping Ap	proval
	other		2 8	
			J A	GL
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other				
other				

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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/3VA11203GE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11203GE420AA0/all

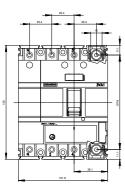
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11203GE420AA0

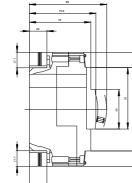
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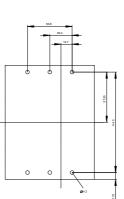
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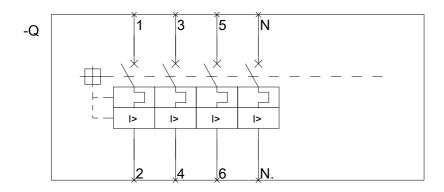
Tender specifications

http://ausschreibungstexte.siemens.com/tiplv









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