SIEMENS

Datasheet

3VA1120-5GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 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		LI
Quitables especify	_	
Switching capacity Switching capacity class of the circuit breaker	_	Μ
Dissipation	_	
Active power loss		
• maximum	W	12
Electricity		
Operating current / at 45 °C / Rated value	А	20
Continuous current / Rated value / maximum	А	160
Continuous current	-	
 Rated value 	А	20
Adjustable response value current	-	
 of the current-dependent overload release / 	А	1
Full-scale value		
 of the instantaneous short-circuit release / initial 	А	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	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	٨	10
• of I-trip / Full-scale value	A	10
 for N-conductor protection / initial value 	A	100
 for N-conductor protection / Full-scale value 	A	100

Adjustable response value current / of the current-	А	1
dependent overload release / initial value		
ppearance		
Product details		
Product component		
Trip indicator		No
• display		No
Voltage trigger		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property	-	
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		
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	_	3VA1120-5GD42-0AA0
		3VA1120-5GD42-0AA0
Manufacturer article number / of the supplied basic switch Short circuit		3VA1120-5GD42-0AA0
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity		3VA1120-5GD42-0AA0
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics)		
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA	85
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	85 55
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA	85 55 30
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA	85 55 30 15
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA	85 55 30
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	85 55 30 15 5
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value • at 240 V / Rated value • at 240 V / Rated value	kA kA kA kA	85 55 30 15 5 85
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA kA	85 55 30 15 5 85 55
Manufacturer article number / of the supplied basic switch Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value • at 240 V / Rated value • at 240 V / Rated value	kA kA kA kA kA kA	85 55 30 15 5 85 55 30
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value • at 240 V / Rated value • at 415 V / Rated value • at 415 V / Rated value	kA kA kA kA kA	85 55 30 15 5 85 55

• at 240 V / Rated value	kA	187		
• at 415 V / Rated value	kA	121		
• at 690 V / Rated value	kA	11.9		
onnections				
Arrangement of electrical connectors				
 for main current circuit 		Front term	inal	
Type of connectable conductor cross-section				
 for flat-bar terminal connection / minimum 		12 x 0		
 for flat-bar terminal connection / maximum 	ı	17 x 6.5		
Design of the electrical connection				
 for main current circuit 		Lug terminal		
lechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm			
Mounting type		fixed mour	nting	
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				
Reference code				
• acc. to DIN EN 61346-2		Q		
• acc. to DIN EN 81346-2		Q		
General Product Approval EM	С	Declaration of Conformity	Shipping Approval	other
ст ГПГ	other	<i>c c</i>		other
		LE	GL	
\sim III				

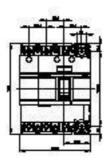
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

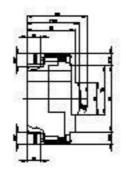
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11205GD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11205GD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11205GD420AA0

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





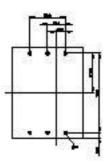




Figure similar

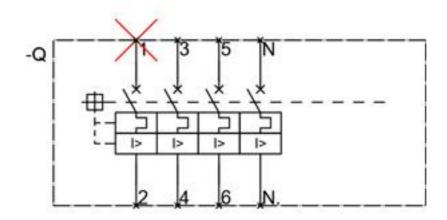


Figure similar

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