SIEMENS

Datasheet

3VA1110-3GF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=5...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		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
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
/oltage		
Insulation voltage		
 Rated value 	V	800

Protection class		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss	W	25
• maximum	VV	20
Electricity		
Operating current / at 45 °C / Rated value	A	100
Continuous current / Rated value / maximum	A	160
Continuous current		
Rated value	A	100
Adjustable response value current		
	A	1
Full-scale value		
	A	5
value		
Net weight g	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	A	100
• at 50 °C / Rated value	A	100
• at 55 °C / Rated value	A	98
• at 60 °C / Rated value	A	96
• at 65 °C / Rated value	A	94
• at 70 °C / Rated value	A	91
Auxiliary circuit		
Number of CO contacts		
for auxiliary contacts		0
-		
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable parameters Adjustable response value current		
Adjustable response value current	A	10
Adjustable response value current • of I-trip / Full-scale value	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	
 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		3VA1110-3GF42-0AA0	
Short circuit			
Operational short-circuit current breaking capacity (Ics)			
at 240 V / Rated value	kA	36	
at 215 V / Rated value	kA	25	
at 440 V / Rated value	kA	16	
at 500 V / Rated value	kA	8	
	kA	5	
• at 600 V / Rated value			
at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	KA		
Maximum short-circuit current breaking capacity (Icu)	-		
 Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value 	kA	36	
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value	kA kA	36 25	
Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value 	kA kA kA	36 25 16	
Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value	kA kA	36 25	

• 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 termin	al	
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		
lechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm	70		
Mounting type		fixed mount	ing	
Invironmental 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		
• acc. to DIN EN 81346-2		Q		
General Product Approval EMC		eclaration of onformity	Shipping Approval	other
	ther			other
	(F	GL	

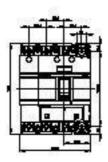
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

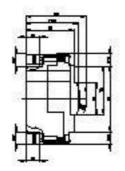
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11103GF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11103GF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11103GF420AA0

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





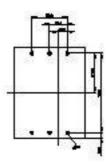




Figure similar

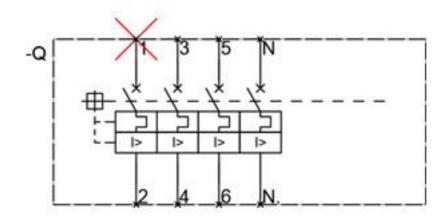


Figure similar

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