SIEMENS

Datasheet

3VA1120-3GF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=20A OVERLOAD PROTECTION IR=14A ...20A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 100% CABLE 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
Voltage		
Insulation voltage		
Rated value	V	800

Protection class		
Protective function of the overcurrent release		LI
Quitables consolt	_	
Switching capacity Switching capacity class of the circuit breaker	_	N
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	5
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		
 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	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		3VA1120-3GF46-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity	_	
(Ics)		
• at 240 V / Pated value	kA	00
 at 240 V / Rated value 		36
 at 240 V / Rated value at 415 V / Rated value 	kA	25
• at 415 V / Rated value	kA	25
 at 415 V / Rated value at 440 V / Rated value 	kA kA	25 16
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA	25 16 8
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA	25 16 8
 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	25 16 8 5
 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) at 240 V / Rated value 	kA kA kA kA kA	25 16 8 5 36
 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) at 240 V / Rated value at 415 V / Rated value 	kA kA kA kA kA	25 16 8 5 36 25

EHC		EG-Konf.		GL			
General Product Approval	EMC other	Declaration Conformity			oping roval	other	
acc. to DIN EN		_			Q		
 acc. to DIN EN 					Q		
Reference code							
Certificates							
 during storage 	 during storage / maximum 		°C 80		80		
• during storage / minimum		°C		-40			
 during operation / maximum 		°C		70			
 during operatio 	 during operation / minimum 		°C		-25		
Ambient temperature	•						
Environmental cond	itions						
Mounting type					fixed mounti	ng	
Depth			mm		70		
Width			mm		101.6		
Mechanical Design Height			mm		130		
• for main curren					Box terminal		
Design of the electric					(1.5 - 70 mm)		
Type of connectable conductor cross-section • of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)			
	• for main current circuit				Front terminal		
Arrangement of elect					-		
Connections			_				
• at 690 V / Rate	d value		kA		7.5		
• at 415 V / Rate	d value		kA		52.5		

Further information

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/3VA11203GF460AA0

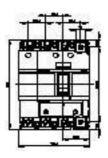
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11203GF460AA0/all

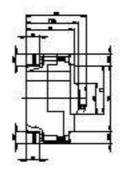
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11203GF460AA0

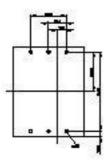
CAx-Online-Generator

http://www.siemens.com/cax

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







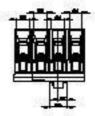


Figure similar

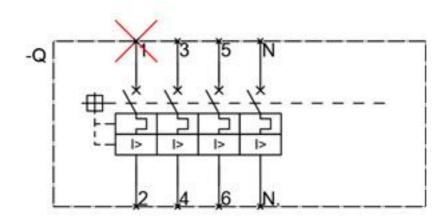


Figure similar

last modified:

21.10.2014