SIEMENS

Datasheet

3VA1120-6GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 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% 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		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		
Protective function of the overcurrent release		LI
Quitables consolt	_	
Switching capacity Switching capacity class of the circuit breaker	_	Н
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		
 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-	А	0.7
dependent overload release / initial value		
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		3VA1120-6GE46-0AA0
	_	
Short circuit Operational short-circuit current breaking capacity		
(lcs)		
• of 240 V / Doted value		
 at 240 V / Rated value 	kA	100
 at 240 V / Rated value at 415 V / Rated value 	кА kA	100 70
• at 415 V / Rated value	kA	70
 at 415 V / Rated value at 440 V / Rated value 	kA kA	70 36
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA	70 36 15
 at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA	70 36 15
 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	70 36 15 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	70 36 15 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 at 415 V / Rated value 	kA kA kA kA kA	70 36 15 5 100 70
 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 at 440 V / Rated value 	kA kA kA kA kA kA	70 36 15 5 100 70 36

EAC	other	CE		GL		other	
General Product Approval	EMC	Declaration Conformity			ping roval	other	
• acc. to DIN					Q		
• acc. to DIN	EN 61346-2				Q		
Reference code							
ertificates							
 during storage / maximum 		°C		80			
 during stora 	ge / minimum		°C		-40		
 during operation 	ation / maximum		°C		70		
 during operation 	ation / minimum		°C		-25		
Ambient temperat							
nvironmental co	nditions						
Mounting type					fixed moun	ting	
Depth			mm		70		
Vidth			mm		101.6		
Height	j''		mm		130		
echanical Desig	n						
 for main cur 	rent circuit				Box termin	al	
Design of the elec	trical connection						
of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)			
Type of connectal	ble conductor cross-se	ction					
for main current circuit				Front termi	nal		
	lectrical connectors				_		
onnections			_				
• at 690 V / R	ated value		kA		17		
• at 415 V / R	ated value		kA		154		

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/3VA11206GE460AA0

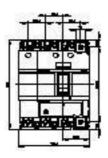
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11206GE460AA0/all

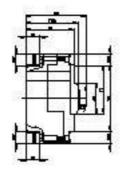
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11206GE460AA0

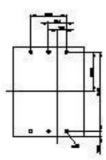
CAx-Online-Generator

http://www.siemens.com/cax

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







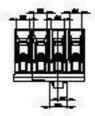


Figure similar

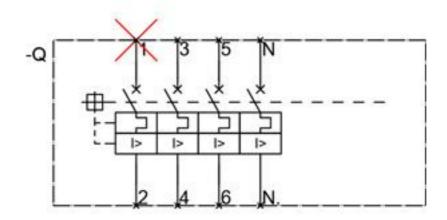


Figure similar

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