SIEMENS

Datasheet

3VA1180-6GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=80A OVERLOAD PROTECTION IR=56A ...80A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% CABLE CONNECTION

Figure similar

product brand nameSENTRONProduct designationMolded case circuit breakerDesign of the productLine protectionProduct variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary releaseDesign of the auxiliary switchWithout	
Design of the productLine protectionProduct variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary release	
Product variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary release	
Ground fault monitoring version Without Design of the auxiliary release Without auxiliary release	
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 1 value 1	
Trip class / of the L-trip / with I2t characteristic / Full- 1 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 consolts	_	
Switching capacity Switching capacity class of the circuit breaker	_	Н
Dissipation		
Active power loss		
• maximum	W	19.2
Electricity		
Operating current / at 45 °C / Rated value	А	80
Continuous current / Rated value / maximum	А	160
Continuous current	-	
Rated value	А	80
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	10
value		4 600
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	80
● at 50 °C / Rated value	А	80
● at 55 °C / Rated value	А	78
• at 60 °C / Rated value	А	77
• at 65 °C / Rated value	А	75
• at 70 °C / Rated value	А	74
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	A	100
for N-conductor protection / Full-scale value	A	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		3VA1180-6GE46-0AA0
switch		
Short circuit Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	100
 at 240 V / Rated value at 415 V / Rated value 	kA 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 5 100
 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 stora 	ge / 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						
Nounting type				fixed mounting			
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/3VA11806GE460AA0

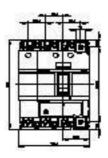
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11806GE460AA0/all

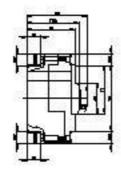
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11806GE460AA0

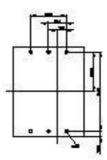
CAx-Online-Generator

http://www.siemens.com/cax

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







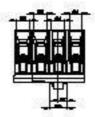


Figure similar

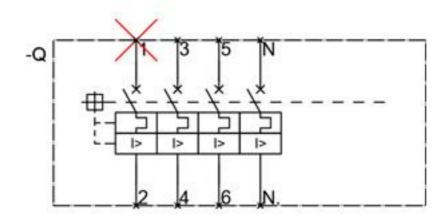


Figure similar

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