SIEMENS

Datasheet

3VA1180-3GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 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 name SENTRON Product designation Molded case circuit breaker Design of the product Line protection Product variations General Applications						
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 1 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	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 /	A	1
Full-scale value		<i>(</i> 0)
 of the instantaneous short-circuit release / initial value 	A	10
Net weight	0	1 200
	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	80
● at 50 °C / Rated value	A	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 	А	100
 for N-conductor protection / Full-scale value 	А	100
. p		

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		3VA1180-3GE46-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
(Ics)	k A	26
 (Ics) at 240 V / Rated value 	kA	36
 (Ics) at 240 V / Rated value at 415 V / Rated value 	kA	25
(Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA	25 16
(Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA	25 16 8
(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	25 16
(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	25 16 8 5
(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 kA kA kA	25 16 8
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(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) • at 240 V / Rated value	kA kA kA kA kA	25 16 8 5 36
(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) • 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 / maximum 		°C		80			
• during storage			°C		-40		
 during operatio 			°C		70		
 during operatio 	n / 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 termina	I	
Design of the electric					1 X (1.0 - 70		
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/3VA11803GE460AA0

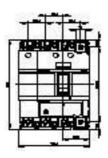
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11803GE460AA0/all

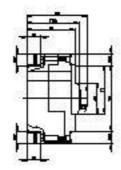
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11803GE460AA0

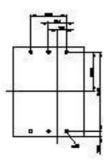
CAx-Online-Generator

http://www.siemens.com/cax

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







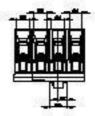


Figure similar

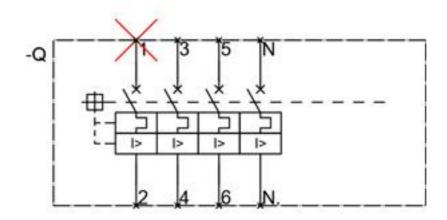


Figure similar

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