SIEMENS

Datasheet

3VA1180-4GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 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

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 especify	_	
Switching capacity Switching capacity class of the circuit breaker	_	S
		5
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		4 000
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
- IN N-CONTRUCTOR PROTECTION / Full-Scale value		

Adjustable response value current / of the current-	A	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		3VA1180-4GE46-0AA0
Short circuit Operational short-circuit current breaking capacity	_	
(Ics)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	15
	RA .	
at 690 V / Rated value	kA kA	5
		5
• at 690 V / Rated value		5
• at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA	
 at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value 	kA kA	55
 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	55 36
 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	55 36 25

Product Approval	other	Conformity	!	Approva		other	
General	EMC	Declaration		Shipping		other	
• acc. to DIN EN	N 81346-2			Q			
• acc. to DIN EN	N 61346-2			Q			
Reference code							
Certificates							
during storage / maximum		°C	80	80			
during storage / minimum		°C	-40	-40			
during operation / maximum		°C	70	70			
 during operation 			°C	-25			
Invironmental concentration							_
Mounting type				lixe		ng	
Depth			mm	70 fixe	d mounti	20	
Width			mm	101	.6		
Height			mm	130			
lechanical Design							
 for main curre 	nt circuit			Box	terminal	l	
Design of the electri	cal connection						
of the round conductor terminal / stranded			1 x	1 x (1.5 - 70 mm²)			
Type of connectable conductor cross-section							
for main current circuit			Fro	Front terminal			
Arrangement of electrons	ctrical connectors				_		
Connections							
• at 690 V / Rate	ed value		kA	7.5			
 at 415 V / Rate 	ed value		kA	75.0	6		

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/3VA11804GE460AA0

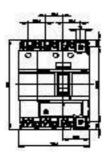
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11804GE460AA0/all

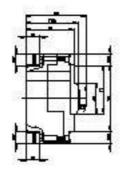
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11804GE460AA0

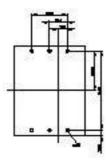
CAx-Online-Generator

http://www.siemens.com/cax

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







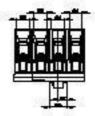


Figure similar

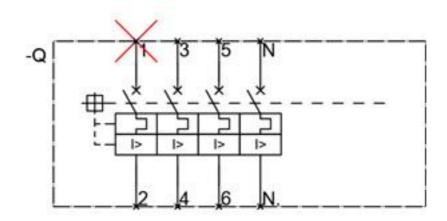


Figure similar

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