# **SIEMENS**

## Datasheet

# 3VA1163-4GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=63A OVERLOAD PROTECTION IR=44,1A ...63A 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
Switching capacity		
Switching capacity class of the circuit breaker		S
	_	
Dissipation	_	
Active power loss	W	17.3
• maximum	VV	17.5
Electricity		
Operating current / at 45 °C / Rated value	А	63
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	A	63
Adjustable response value current		
• of the current-dependent overload release /	A	1
Full-scale value		10
<ul> <li>of the instantaneous short-circuit release / initial value</li> </ul>	A	10
	~	1 200
Net weight	g	1 200
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	600
Operating current		
● at 40 °C / Rated value	А	63
• at 50 °C / Rated value	А	63
• at 55 °C / Rated value	А	62
• at 60 °C / Rated value	А	61
• at 65 °C / Rated value	А	60
• at 70 °C / Rated value	А	58
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability	_	
Suitability Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		10
• of I-trip / Full-scale value	A	10
<ul> <li>for N-conductor protection / initial value</li> </ul>	A	100
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	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
<ul> <li>Voltage trigger</li> </ul>		No
<ul> <li>undervoltage release</li> </ul>		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property	-	
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion	_	
• optional		
— motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1163-4GE46-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
Operational short-circuit current breaking capacity (Ics)		
	kA	55
(Ics)	kA	36
<ul> <li>(Ics)</li> <li>at 240 V / Rated value</li> </ul>	kA kA	36 25
<ul> <li>(Ics)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA	36 25 15
(Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA	36 25
(Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA	36 25 15
(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	36 25 15
(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	36 25 15 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 Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA kA kA kA kA	36 25 15 5 55
(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	36 25 15 5 55 36

• at 240 V / Rate	d value		kA		121		
<ul> <li>at 415 V / Rate</li> </ul>	d value		kA		75.6		
• at 690 V / Rate	d value		kA		7.5		
Connections							
Arrangement of elect	rical connectors						
<ul> <li>for main curren</li> </ul>	<ul> <li>for main current circuit</li> </ul>				Front terminal		
Type of connectable	Type of connectable conductor cross-section						
<ul> <li>of the round co</li> </ul>	• of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)		
Design of the electric	al connection						
<ul> <li>for main curren</li> </ul>	<ul> <li>for main current circuit</li> </ul>				Box terminal		
Mechanical Design							
Height			mm		130		
Width			mm		101.6		
Depth			mm		70		
Mounting type					fixed mounti	ng	
Environmental cond	itions						
Ambient temperature	)						
<ul> <li>during operatio</li> </ul>	n / minimum		°C		-25		
<ul> <li>during operatio</li> </ul>	<ul> <li>during operation / maximum</li> </ul>		°C		70		
<ul> <li>during storage / minimum</li> </ul>		°C		-40			
<ul> <li>during storage / maximum</li> </ul>			°C	C 80			
Certificates							
Reference code							
• acc. to DIN EN 61346-2				Q			
• acc. to DIN EN 81346-2				Q			
General Product Approval	EMC	Declaration Conformity		Shipj Appr		other	
r 11 r	other					other	
EHC		CE		GL			
LIIL		EG-Konf.		GL			
				51			

### 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/3VA11634GE460AA0

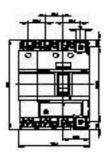
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11634GE460AA0/all

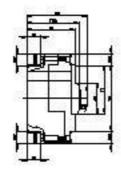
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11634GE460AA0

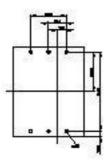
# CAx-Online-Generator

http://www.siemens.com/cax

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







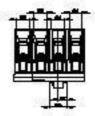


Figure similar

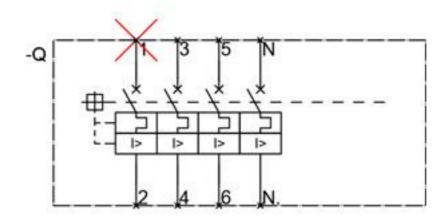


Figure similar

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