# **SIEMENS**

## Datasheet

# 3VA1196-5GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=16A OVERLOAD PROTECTION IR=11,2A ...16A 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		M
	_	
Dissipation	_	
Active power loss	W	10.6
• maximum	vv	10.6
Electricity		
Operating current / at 45 °C / Rated value	А	16
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	16
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	10
value		
Net weight	g	1 200
Main circuit		
Operating voltage		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	600
Operating current		
• at 40 °C / Rated value	А	16
• at 50 °C / Rated value	А	16
• at 55 °C / Rated value	А	16
• at 60 °C / Rated value	А	15
● at 65 °C / Rated value	А	15
• at 70 °C / Rated value	А	15
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability		system protection
Suitability for use		
Adjustable parameters		
Adjustable response value current		
• 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>	А	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		3VA1196-5GE46-0AA0
Short circuit		
Short circuit Operational short-circuit current breaking capacity		
Operational short-circuit current breaking capacity (Ics)		05
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA	85
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	55
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA kA	55 30
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	55 30 15
Operational short-circuit current breaking capacity (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	55 30
Operational short-circuit current breaking capacity (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	55 30 15 5
Operational short-circuit current breaking capacity (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	55 30 15
Operational short-circuit current breaking capacity (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	55 30 15 5
Operational short-circuit current breaking capacity (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	55 30 15 5 85
Operational short-circuit current breaking capacity (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	55 30 15 5 85 55

EHC	other	EG-Konf.		GL	<u>other</u>	
General Product Approval	EMC	Declaration Conformity		Shipping Approval	other	
• acc. to DIN E	N 81346-2			Q		
• acc. to DIN E	N 61346-2			Q		
Reference code						
Certificates						
<ul> <li>during storage / maximum</li> </ul>		°C 80				
<ul> <li>during storage / minimum</li> </ul>		°C	-40	-40		
<ul> <li>during operation / maximum</li> </ul>		°C	70	70		
<ul> <li>during operation</li> </ul>	on / minimum		°C	-25		
Ambient temperatur						
Environmental con	ditions					
Mounting type				fixed	mounting	
Depth			mm	70		
Width			mm	101.6	3	
Height			mm	130		
lechanical Design						
<ul> <li>for main curre</li> </ul>				Box t	Box terminal	
Design of the electri				,		
of the round conductor terminal / stranded			1 x (1	1 x (1.5 - 70 mm²)		
for main current circuit Type of connectable conductor cross-section			11011	r ont terminar		
Arrangement of electrical connectors			Front	Front terminal		
Connections	trical connectors		_	_		
			_	_		
• at 690 V / Rat			kA	17		
<ul> <li>at 415 V / Rate</li> </ul>	ed value		kA	121		

### 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/3VA11965GE460AA0

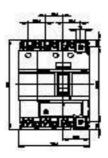
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11965GE460AA0/all

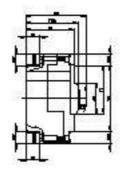
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11965GE460AA0

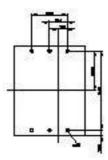
# CAx-Online-Generator

http://www.siemens.com/cax

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







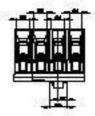


Figure similar

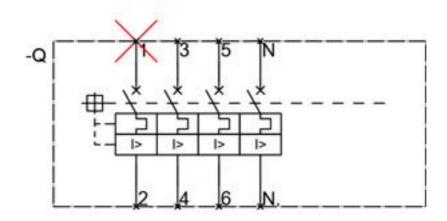


Figure similar

last modified:

21.10.2014