## **SIEMENS**

## Data sheet

## 3VA1112-5GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=125A OVERLOAD PROTECTION IR=87,5A ...125A 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		

Protection class IP		IP40			
Protection class IP / on the front		IP40			
Protective function of the overcurrent release		LI			
Switching capacity					
Switching capacity class of the circuit breaker		Μ			
Dissipation					
Active power loss					
• maximum	W	23.2			
Electricity					
Continuous current / Rated value / maximum	A	160			
Continuous current / Rated value	А	125			
Adjustable response value current					
<ul> <li>of the current-dependent overload release / Full-scale value</li> </ul>	A	1			
<ul> <li>of the instantaneous short-circuit release / initial value</li> </ul>	A	10			
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	125			
• at 50 °C / Rated value	А	125			
• at 55 °C / Rated value	А	122			
● at 60 °C / Rated value	А	120			
● at 65 °C / Rated value	А	117			
• at 70 °C / Rated value	А	114			
Auxiliary circuit					
Number of CO contacts / for auxiliary contacts		0			
Suitability					
Suitability for use		system protection			
Adjustable parameters					
Adjustable response value current					
<ul> <li>of I-trip / Full-scale value</li> </ul>	А	10			
<ul> <li>for N-conductor protection / initial value</li> </ul>	А	100			
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	А	100			
Adjustable response value current / of the current-	A	0.7			
dependent overload release / initial value					
Product details					
Product component					

Trip indicator		No
● display		No
Voltage trigger		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		3VA1112-5GE46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	17
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		

Type of connectable conductor cross-section

<ul> <li>of the round co</li> </ul>	onductor terminal / st	randed		1 x (1.5 - 70 mm²)	
Type of electrical co	nnection / for main cu	urrent circuit		Box terminal	
Mechanical Design					
Height			mm	130	
Width			mm	101.6	
Depth			mm	70	
Mounting type				fixed mounting	
Environmental conc	litions				
Ambient temperature	Э				
<ul> <li>during operation</li> </ul>	on / minimum		°C	-25	
<ul> <li>during operation</li> </ul>	on / maximum		°C	70	
<ul> <li>during storage</li> </ul>	/ minimum		°C	-40	
<ul> <li>during storage</li> </ul>	/ maximum		°C	80	
Certificates					
Equipment marking					
<ul> <li>acc. to DIN EN</li> </ul>	l 61346-2			Q	
<ul> <li>acc. to DIN EN</li> </ul>	l 81346-2			Q	
General Product Approval	EMC	Declaration Conformity		pping Approval	other
EHC	other	EG-Konf.			<u>other</u>

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

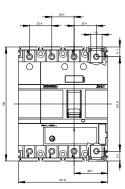
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11125GE460AA0

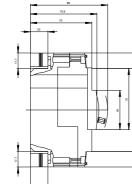
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11125GE460AA0/all

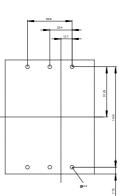
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11125GE460AA0

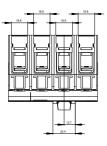
**CAx-Online-Generator** http://www.siemens.com/cax

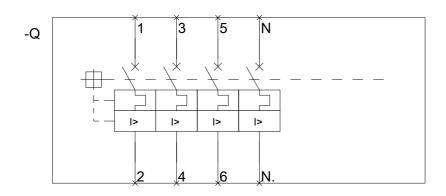
**Tender specifications** http://ausschreibungstexte.siemens.com/tiplv











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