## **SIEMENS**

## Datasheet

## 3VA1112-5EE42-0AA0



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 UNPROTECTED BUSBAR 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 conceity		
Switching capacity Switching capacity class of the circuit breaker	_	Μ
Dissipation		
Active power loss		
• maximum	W	23.2
Electricity		
Operating current / at 45 °C / Rated value	А	125
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	125
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	А	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	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		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability		system protection
Suitability <ul> <li>Suitability for use</li> </ul>		system protection
Suitability for use Adjustable parameters		system protection
Suitability for use Adjustable parameters Adjustable response value current		
Suitability for use Adjustable parameters	A	system protection 10
Suitability for use Adjustable parameters Adjustable response value current	A A	

Adjustable response value current / of the current-	А	0.7		
dependent overload release / initial value				
Appearance				
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		
Phase failure detection		No		
<ul> <li>other measurement function</li> </ul>		No		
Accessories				
Manufacturer article number / of the supplied basic switch		3VA1112-5EE42-0AA0		
Short circuit	_			
Operational short-circuit current breaking capacity	_			
(lcs)				
• 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 ka	187			
• at 415 V / Rated value		kA	121			
• at 690 V / Rated value	ŀ	kA	17			
Connections						
Arrangement of electrical connectors						
<ul> <li>for main current circuit</li> </ul>			Front termin	al		
Type of connectable conductor cross-section						
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>	n		12 x 0			
<ul> <li>for flat-bar terminal connection / maximu</li> </ul>	m		17 x 6.5	17 x 6.5		
Design of the electrical connection						
• for main current circuit		Lug terminal				
lechanical Design						
Height	r	mm	130			
Width	r	mm	101.6			
Depth	r	mm	70			
Mounting type			fixed mounting			
invironmental conditions						
Ambient temperature						
<ul> <li>during operation / minimum</li> </ul>	c	°C	-25			
<ul> <li>during operation / maximum</li> </ul>	c	°C	70			
<ul> <li>during storage / minimum</li> </ul>	c	°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 El	МС		claration of	Shipping	other	
		Co	nformity	Approval		
ста ГПГ	other				other	
			t	GL		
		EG				

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

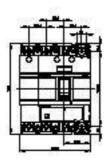
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11125EE420AA0

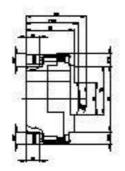
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11125EE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11125EE420AA0

nup.//www.siemens.com/

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





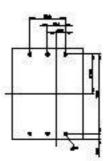




Figure similar

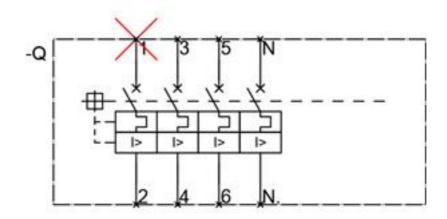


Figure similar

last modified:

21.10.2014