## **SIEMENS**

## Data sheet

## 3VA1112-5EF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=125A OVERLOAD PROTECTION IR=87,5A ...125A SHORT CIRCUIT PROTECTION II=5...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		TM240		
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	_	M
Dissipation	_	
Active power loss	14/	22.2
• maximum	W	23.2
Electricity		
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 / Full-scale value</li> </ul>	A	1
• of the instantaneous short-circuit release / initial value	A	5
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 / 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	0
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	А	0
Adjustable response value current / of the current-	А	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		<u>3VA1112-5EF42-0AA0</u>
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 current circuit		Front terminal
Type of connectable conductor cross costion	-	

Type of connectable conductor cross-section

eruncates Equipment marking     e acc. to DIN EN 61346-2     e acc. to DIN EN 81346-2		Q	
during storage / maximum ertificates	U	80	
• during storage / minimum	°C °C	-40	
during operation / maximum	°C	70	
<ul> <li>Ambient temperature</li> <li>during operation / minimum</li> </ul>	°C	-25	
vironmental conditions			
Nounting type	_	fixed mount	ling
Vidth Depth	mm	101.6 70	
Height	mm	130	
echanical Design			
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>	_	Lug termina	al
		17 x 6.5	

<sup>-</sup> urther	Inform	ation
untinen		alion

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/3VA11125EF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11125EF420AA0/all

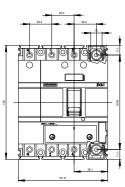
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11125EF420AA0

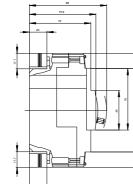
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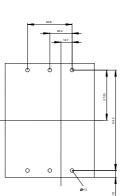
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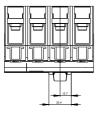
## **Tender specifications**

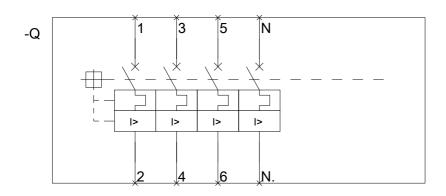
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