# **SIEMENS**

### Datasheet

### 3VA1112-3ED32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=125A OVERLOAD PROTECTION IR=125A FIXED SHORT CIRCUIT PROTECTION II=10 X IN 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	_	TM210
General technical data		
Number of poles		3
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
/oltage		
Insulation voltage		
Rated value	V	800

Protection class		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss	14/	22.0
• 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	A	10
value		
Net weight	g	900
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	500
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		
Suitability for use		system protection
-		
Adjustable parameters Adjustable response value current		
of I-trip / Full-scale value	А	10
	A	0
• for N-conductor protection / initial value		
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	0

Adjustable response value current / of the current-	А	1
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	-	
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		
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		3VA1112-3ED32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
at 240 V / Rated value	kA	36
at 415 V / Rated value	kA	25
	10.1	20
	kA	16
• at 440 V / Rated value	kA kA	16 8
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> </ul>	kA	8
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>		
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu)	kA kA	8 5
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> </ul>	kA kA kA	8 5 36
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA kA	8 5 36 25
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> </ul>	kA kA kA kA kA	8 5 36 25 16
<ul> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Maximum short-circuit current breaking capacity (Icu) <ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA kA kA kA	8 5 36 25

• at 240 V / Rated value	kA	4	75.6		
• at 415 V / Rated value	k.A	4	52.5		
• at 690 V / Rated value	kA	4	7.5		
onnections					
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>			12 x 0		
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>	า		17 x 6.5		
Design of the electrical connection					
• for main current circuit			Lug terminal		
lechanical Design					
Height	m	m	130		
Width	m	m	76.2		
Depth	m	m	70		
Mounting type			fixed mount	ing	
nvironmental conditions					
Ambient temperature					
<ul> <li>during operation / minimum</li> </ul>	°C		-25		
<ul> <li>during operation / maximum</li> </ul>	°C	)	70		
<ul> <li>during storage / minimum</li> </ul>	°C	2	-40		
<ul> <li>during storage / maximum</li> </ul>	°C	2	80		
ertificates					
Reference code					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General Product Approval EM	IC		laration of	Shipping	other
	. 0	Con	formity	Approval	
ГПГ	other		6	CIA	other
			7		
		EG-K		GL	

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/3VA11123ED320AA0

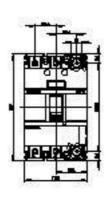
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11123ED320AA0/all

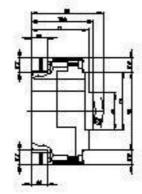
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11123ED320AA0

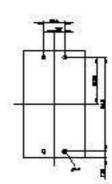
## CAx-Online-Generator

http://www.siemens.com/cax

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







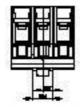


Figure similar

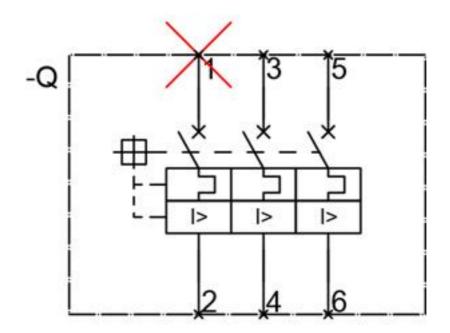


Figure similar

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