# **SIEMENS**

### Datasheet

### 3VA1110-3EF32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM240, ATAM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=5...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	-	TM240
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	10/	25
• maximum	W	25
Electricity		
Operating current / at 45 °C / Rated value	А	100
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	A	100
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
<ul> <li>of the instantaneous short-circuit release / initial value</li> </ul>	A	5
	~	900
Net weight	g	900
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	500
Operating current		
● at 40 °C / Rated value	А	100
● at 50 °C / Rated value	А	100
● at 55 °C / Rated value	А	98
• at 60 °C / Rated value	А	96
• at 65 °C / Rated value	А	94
• at 70 °C / Rated value	А	91
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
0	_	
Suitability     Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	A	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		
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
<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		3VA1110-3EF32-0AA0
Short circuit Operational short-circuit current breaking capacity	_	
(lcs)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
● at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
at 690 V / Rated value	kA	7

• at 240 V / Rated value		kA	75.6		
• at 415 V / Rated value		kA	52.5		
• at 690 V / Rated value		kA	7.5		
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 / minimur</li> </ul>	n		12 x 0		
<ul> <li>for flat-bar terminal connection / maximu</li> </ul>	m		17 x 6.5		
Design of the electrical connection					
• for main current circuit			Lug terminal	Lug terminal	
lechanical Design					
Height		mm	130		
Width		mm	76.2		
Depth		mm	70		
Mounting type			fixed mounti	ng	
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	-40		
<ul> <li>during storage / maximum</li> </ul>		°C	80		
ertificates					
Reference code					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General Product Approval EN	MC		claration of	Shipping Approval	other
ГПГ	other		<b>^</b>		other
			t	GL	
$\sim$ IIII			Konf.		

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/3VA11103EF320AA0

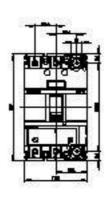
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11103EF320AA0/all

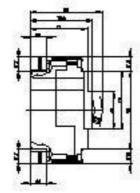
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11103EF320AA0

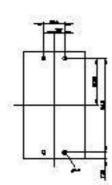
## CAx-Online-Generator

http://www.siemens.com/cax

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







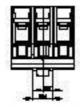


Figure similar

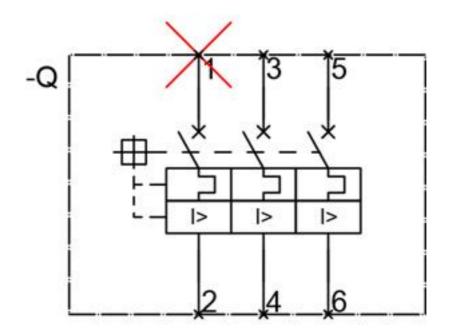


Figure similar

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