# **SIEMENS**

### Datasheet

### 3VA1116-6EE32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 3-POLE, LINE PROTECTION TM220, ATFM, IN=160A OVERLOAD PROTECTION IR=112A ...160A 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		TM220			
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
Cuitaking constitu	_	
Switching capacity Switching capacity class of the circuit breaker	_	Н
Dissipation	_	
Active power loss		
• maximum	W	38
Electricity		
Operating current / at 45 °C / Rated value	А	160
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	160
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</li> </ul>	А	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	160
• at 50 °C / Rated value	А	160
• at 55 °C / Rated value	А	158
• at 60 °C / Rated value	А	155
• at 65 °C / Rated value	А	153
• at 70 °C / Rated value	А	150
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- dependent overload release / initial value	А	0.7
Appearance		
Product details		
Product component		
Trip indicator	No	
● display		No
<ul> <li>Voltage trigger</li> </ul>		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		3VA1116-6EE32-0AA0
Short circuit		
Short circuit Operational short-circuit current breaking capacity		
Operational short-circuit current breaking capacity (Ics)		
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA	100
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	70
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA kA	70 36
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA	70 36 15
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA	70 36
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA kA	70 36 15
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA kA	70 36 15
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	70 36 15 5
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA kA kA kA kA	70 36 15 5 100
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA kA kA	70 36 15 5 100 70

<ul> <li>at 415 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	154 17				
Connections	_		_	_		
Arrangement of electrical connectors	_	_				
for main current circuit		Front terminal				
Type of connectable conductor cross-section						
• for flat-bar terminal connection / minimum		12 x 0				
• for flat-bar terminal connection / maximum		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 mounting				
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				
Certificates						
Reference code						
• acc. to DIN EN 61346-2		Q				
• acc. to DIN EN 81346-2		Q				
General Product Approval EMC			Shipping Approval	other		
	other			other		
			5L@)			
		EG-Konf.	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/3VA11166EE320AA0

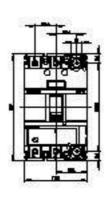
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11166EE320AA0/all

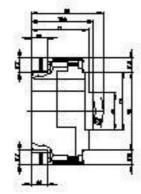
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11166EE320AA0

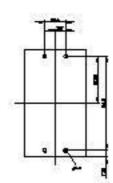
## CAx-Online-Generator

http://www.siemens.com/cax

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







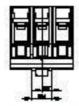


Figure similar

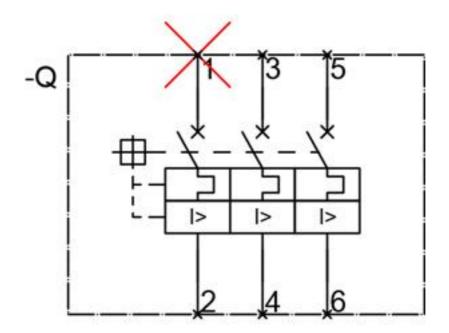


Figure similar

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