# **SIEMENS**

## Data sheet

## 3VA2110-5KP32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU850, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% BUSBAR CONNECTION

Model				
product brand name		SENTRON		
Product designation		Molded case circuit breaker		
Design of the product		Line protection		
Product variations		Selective Applications		
Ground fault monitoring version		Without		
Design of the auxiliary release		without auxiliaryrelease		
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		ETU850		
General technical data				
Number of poles		3		
Trip class / of the L-trip / with I2t characteristic / initial value		0.5		
Trip class / of the L-trip / with I2t characteristic / Full- scale value		25		
Electrical endurance (switching cycles)				
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000		
circuit-breaker / Design		3VA		
Mechanical service life (switching cycles) / typical		20 000		
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		LSI			
Switching capacity					
Switching capacity class of the circuit breaker		Μ			
Dissipation					
Active power loss					
• maximum	W	10			
Electricity					
Continuous current / Rated value / maximum	А	160			
Continuous current / Rated value	А	100			
Adjustable response value current / of the	А	1.5			
instantaneous short-circuit release / initial value					
Main circuit					
Operating voltage					
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690			
Operating current					
• at 40 °C / Rated value	А	100			
• at 50 °C / Rated value	А	100			
• at 60 °C / Rated value	А	100			
● at 65 °C / Rated value	А	100			
• at 70 °C / Rated value	А	100			
Auxiliary circuit					
Number of NC contacts / for auxiliary contacts		0			
Number of NO contacts / for auxiliary contacts		0			
Suitability					
Suitability for use		system protection			
Adjustable parameters	_				
Adjustable response value current					
• of I-trip / Full-scale value	А	12			
<ul> <li>of the short-time delayed short-circuit release /</li> </ul>	A	0.6			
initial value					
• of the short-time delayed short-circuit release /	А	10			
Full-scale value					
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	A	0.6			
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	А	10			
Adjustable delay time					
• of S-trip / with I2t characteristic / initial value	S	0.05			

<ul> <li>of S-trip / with I2t characteristic / Full-scale value</li> </ul>	S	0.5
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	S	0.05
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	S	0.5
Adjustable response value current / of the current- dependent overload release / initial value	A	0.4
Product details	_	
Product component		
Trip indicator		No
• display		Yes
undervoltage release		No
Product property	_	
for neutral conductors /		Yes
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>		Yes
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		Yes
Accessories		
Manufacturer article number / of the supplied basic		<u>3VA2110-5KP32-0AA0</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	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2.5
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	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)		

• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 440 V / Rated value	kA	121
• at 500 V / Rated value	kA	79
• at 690 V / Rated value	kA	3.75

Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		
Type of connectable conductor cross-section	_	
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		13 x 1 mm
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		25 x 8.5
Type of electrical connection / for main current circuit		Lug terminal
Machanical Desire		
Mechanical Design	-	
Height	mm	181
Width	mm	105

Width	mm	105
Depth	mm	107
Mounting type		fixed mounting

Environmental 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		

 Equipment marking
 Q

 • acc. to DIN EN 61346-2
 Q

 • acc. to DIN EN 81346-2
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 General Product Approval
 EMC
 Declaration of Conformity
 Shipping Approval

	VDE	EHC	other	EG-Konf.	ĴÅ DNV DNV
Shipping Approval	other				
GL	other				

GL

#### Further information

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/3VA21105KP320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21105KP320AA0/all

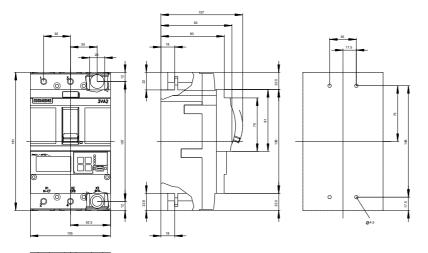
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA21105KP320AA0

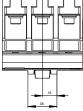
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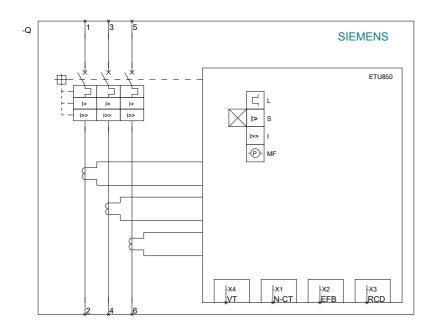
http://www.siemens.com/cax

#### **Tender specifications**

http://ausschreibungstexte.siemens.com/tiplv







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