# **SIEMENS**

## Data sheet

## 3VA1132-3ED32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=32A OVERLOAD PROTECTION IR=32A 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			

Voltage		
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  • maximum  W  10.6  Electricity  Continuous current / Rated value / maximum  Continuous current / Rated value  A 32  Adjustable response value current  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value	
Switching capacity Switching capacity class of the circuit breaker  Dissipation Active power loss  • maximum  W 10.6  Electricity  Continuous current / Rated value / maximum A 160  Continuous current / Rated value A 32  Adjustable response value current  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value	
Switching capacity class of the circuit breaker  Dissipation  Active power loss  • maximum  W 10.6  Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value  A 32  Adjustable response value current  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value	
Switching capacity class of the circuit breaker  Dissipation  Active power loss  • maximum  W 10.6  Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value  A 32  Adjustable response value current  • of the current-dependent overload release / Full-scale value  • of the instantaneous short-circuit release / initial value	
Active power loss  • maximum  W 10.6  Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value  A 32  Adjustable response value current  • of the current-dependent overload release / A 1  Full-scale value  • of the instantaneous short-circuit release / initial value	
Active power loss  • maximum  W 10.6  Electricity  Continuous current / Rated value / maximum  A 160  Continuous current / Rated value  A 32  Adjustable response value current  • of the current-dependent overload release / A 1  Full-scale value  • of the instantaneous short-circuit release / initial value	
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Continuous current / Rated value  Adjustable response value current  of the current-dependent overload release / Full-scale value  of the instantaneous short-circuit release / initial value  A 32  A 1  Full-scale value	
Adjustable response value current	
<ul> <li>of the current-dependent overload release / A</li> <li>Full-scale value</li> <li>of the instantaneous short-circuit release / initial value</li> </ul> A 1 10	
Full-scale value  ● of the instantaneous short-circuit release / initial A 10 value	
value	
Main circuit	
Operating voltage	
• with AC / at 50/60 Hz / Rated value V 690	
• for DC / Rated value V 500	
Operating current	
• at 40 °C / Rated value A 32	
• at 50 °C / Rated value A 32	
at 55 °C / Rated value     A 31.04	
• at 60 °C / Rated value A 31	
• at 65 °C / Rated value A 30	
• at 70 °C / Rated value A 30	
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts 0	
Suitability	
Suitability for use system protection	
Adjustable parameters	
Adjustable response value current	
• of I-trip / Full-scale value A 10	
• for N-conductor protection / initial value A 0	
● for N-conductor protection / Full-scale value A 0	
Adjustable response value current / of the current- A 1 dependent overload release / initial value	
Product details	
Product component	

Trip indicator		No
		No
• display		No
Voltage trigger		No
undervoltage release		
undervoltage release with leading contact		No
Product property		No
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and</li> </ul>		No
overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
other measurement function		No
• Other measurement function		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1132-3ED32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
	LεA	20
• at 240 V / Rated value	kA	36
<ul><li>at 240 V / Rated value</li><li>at 415 V / Rated value</li></ul>	kA	25
• at 240 V / Rated value	kA kA	25 16
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> </ul>	kA kA kA	25 16 8
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul>	kA kA	25 16
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<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <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 kA	25 16 8 5
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<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <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> <li>at 500 V / Rated value</li> </ul>	kA kA kA kA kA kA	25 16 8 5 36 25 16 8
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<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <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> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> </ul>	kA kA kA kA kA kA kA	25 16 8 5 36 25 16 8 7
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<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <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> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> <li>at 690 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Connections Arrangement of electrical connectors / for main	kA kA kA kA kA kA kA kA kA	25 16 8 5 36 25 16 8 7 75.6 52.5
<ul> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <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> <li>at 500 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Short-circuit current making capacity (Icm) <ul> <li>at 240 V / Rated value</li> <li>at 690 V / Rated value</li> <li>at 690 V / Rated value</li> </ul> Connections Connections	kA kA kA kA kA kA kA kA kA	25 16 8 5 36 25 16 8 7 75.6 52.5 7.5

• for flat-bar terminal connection / minimum	12 x 0
• for flat-bar terminal connection / maximum	17 x 6.5
Type of electrical connection / for main current circuit	Lug terminal

Mechanical Design				
Height	mm	130		
Width	mm	76.2		
Depth	mm	70		
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		

С	er	tifi	ca	tes	

**Equipment marking** 

• acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2 Q

General Product Approval	EMC	Declaration of	Shipping Approval
		Conformity	





other







 $\mathsf{GL}$ 

### other

other

## 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/3VA11323ED320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11323ED320AA0/all

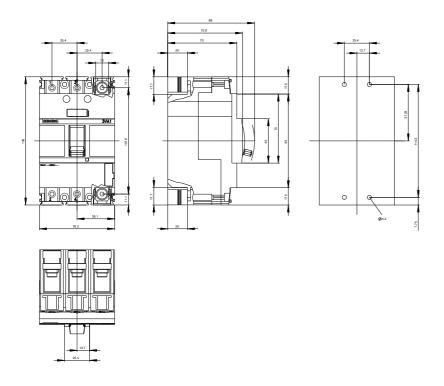
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11323ED320AA0

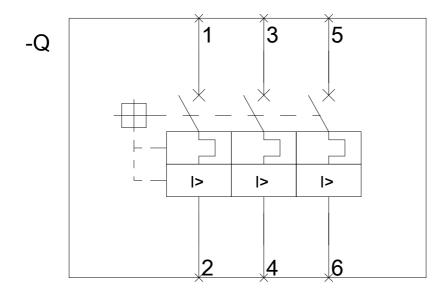
**CAx-Online-Generator** 

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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