# **SIEMENS**

## Data sheet

# 3VA1010-2ED32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS B ICU=16KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=100A OVERLOAD PROTECTION IR=100A 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

Protection class IP / on the front  Protective function of the overcurrent release  Switching capacity  Switching capacity class of the circuit breaker  Dissipation		IP40 LI B
Switching capacity Switching capacity class of the circuit breaker Dissipation		
Switching capacity class of the circuit breaker  Dissipation		В
Switching capacity class of the circuit breaker  Dissipation		В
Active power loss		
• maximum	W	25
 Electricity		<u> </u>
Continuous current / Rated value / maximum	A	100
Continuous current / Rated value	Α	100
Adjustable response value current		
<ul> <li>of the current-dependent overload release / Full-scale value</li> </ul>	Α	1
• of the instantaneous short-circuit release / initial value	Α	10
Main circuit		
Operating voltage		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
• for DC / Rated value	V	500
Operating current		
• at 40 °C / Rated value	Α	100
• at 50 °C / Rated value	Α	100
• at 55 °C / Rated value	Α	98
• at 60 °C / Rated value	Α	96
• at 65 °C / Rated value	Α	94
• at 70 °C / Rated value	Α	91
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	Α	10
• for N-conductor protection / initial value	Α	0
• for N-conductor protection / Full-scale value	Α	0
Adjustable response value current / of the current- dependent overload release / initial value	Α	1
Product details		
Product component		

		N
• Trip indicator		No
• display		No
Voltage trigger		No
undervoltage release		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		No
Product function		
Product function		
Intrinsic device protection		Yes
• communication function		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1010-2ED32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		25
at 240 V / Rated value	kA	25
• at 415 V / Rated value	kA	16
● at 440 V / Rated value	kA	8
• at 500 V / Rated value	kA	5
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	25
• at 415 V / Rated value	kA	16
● at 440 V / Rated value	kA	8
• at 500 V / Rated value	kA	5
• at 690 V / Rated value	kA	5
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	52.5
• at 415 V / Rated value	kA	32
• at 690 V / Rated value	kA	7.5
Connections		
Arrangement of electrical connectors / for main		Front terminal
Arrangement of electrical connectors / for main current circuit  Type of connectable conductor cross-section		Front terminal

• 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	
during storage / minimum	°C	-40	
during storage / maximum	°C	80	

# Certificates **Equipment marking**

• acc. to DIN EN 61346-2

• acc. to DIN EN 81346-2

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**EMC General Product Approval Declaration of Shipping Approval** Conformity











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/3VA10102ED320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA10102ED320AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

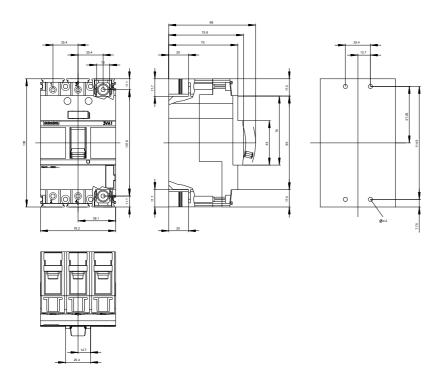
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA10102ED320AA0

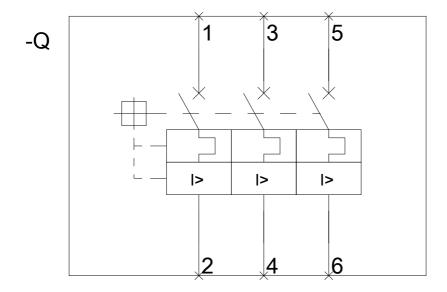
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv





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