# **SIEMENS**

## Data sheet

## 3VA1096-3ED46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=16A OVERLOAD PROTECTION IR=16A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED CABLE 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		4	
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		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		Ц
0.:4-1:		
Switching capacity Switching capacity class of the circuit breaker		N
Ownering capacity class of the circuit breaker		· ·
Dissipation		
Active power loss		
• maximum	W	10.6
Electricity		
Continuous current / Rated value / maximum	А	100
Continuous current / Rated value	Α	16
Adjustable response value current		
<ul> <li>of the current-dependent overload release / Full-scale value</li> </ul>	Α	1
<ul> <li>of the instantaneous short-circuit release / initial value</li> </ul>	Α	10
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
• for DC / Rated value	V	600
Operating current		
• at 40 °C / Rated value	Α	16
• at 50 °C / Rated value	Α	16
● at 55 °C / Rated value	Α	16
• at 60 °C / Rated value	Α	15
• at 65 °C / Rated value	Α	15
• at 70 °C / Rated value	Α	15
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Cita_b.ilita.		
Suitability Suitability for use		system protection
<u> </u>		System protostion
Adjustable parameters		
Adjustable response value current		40
• of I-trip / Full-scale value	A	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	A	1
Product details		
Product component		

		N
• Trip indicator		No
<ul><li>display</li></ul>		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		3VA1096-3ED46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		22
• 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	5
Short-circuit current making capacity (lcm)		
• at 240 V / Rated value	kA	75.6
• at 415 V / Rated value	kA	52.5
• at 690 V / Rated value	kA	7.5
	KA	
Connections	KA .	
Arrangement of electrical connectors / for main	K/A	Front terminal
	M	

• of the round conductor terminal / str	anded		1 x (1.5 - 70 mm²)		
Type of electrical connection / for main cu	ırrent circuit		Box terminal		
Mechanical Design					
Height		mm	130		
Width		mm	101.6		
Depth		mm	70		
Mounting type			fixed mounting		
Environmental conditions	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		
Certificates					
Equipment marking					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General EMC	Declaration	of Sh	nipping Approval	other	
Product	Conformity				
Approval					

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

other

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA10963ED460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA10963ED460AA0/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA10963ED460AA0

**CAx-Online-Generator** 

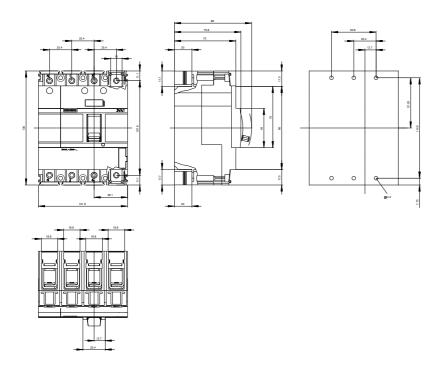
http://www.siemens.com/cax

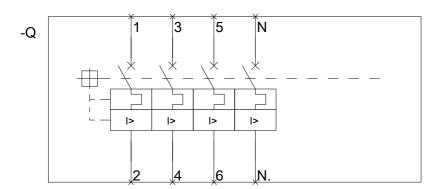
**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv

other

GL





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