SIEMENS

Datasheet

3VA1096-4ED46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS S ICU=36KA @ 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		
Protective function of the overcurrent release		Ц
Switching capacity	_	
Switching capacity class of the circuit breaker		S
Dissipation		
Active power loss	147	40.0
• maximum	W	10.6
Electricity		
Operating current / at 45 °C / Rated value	Α	16
Continuous current / Rated value / maximum	Α	100
Continuous current		
Rated value	Α	16
Adjustable response value current		
• of the current-dependent overload release /	Α	1
Full-scale value		
• of the instantaneous short-circuit release / initial	Α	10
value		4000
Net weight	g	1 200
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
Suitability		
Suitability Suitability for use		system protection
		,
Adjustable parameters		
Adjustable response value current		40
of I-trip / Full-scale value	A	10
 for N-conductor protection / initial value 	A	0
 for N-conductor protection / Full-scale value 	Α	0

Adjustable response value current / of the current- dependent overload release / initial value	Α	1
Appearance		
Product details		
Product component		
Trip indicator		No
• display		No
 Voltage trigger 		No
 undervoltage release 		No
 undervoltage release with leading contact 		No
Product property		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion		
• optional		
— motor drive		No
Product function		
Product function		
 Intrinsic device protection 		Yes
communication function		No
Phase failure detection		No
other measurement function		No
Accessories		
Manufacturer article number / of the supplied basic switch		3VA1096-4ED46-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	55
● at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		

• at 240 V / Rated value	kA	121
● at 415 V / Rated value	kA	75.6
● at 690 V / Rated value	kA	11.9

Connections					
Arrangement of electrical connectors					
• for main current circuit		Front terminal			
Type of connectable conductor cross-section					
 of the round conductor terminal / stranded 		1 x (1.5 - 70 mm²)			
Design of the electrical connection					
• for main current circuit		Box terminal			
Mechanical Design					
Height	mm	130			

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Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mounting			
Environmental conditions					

Environmental conditions					
Ambient temperature					
during operation / minimum	°C	-25			
during operation / maximum	°C	70			
during storage / minimum	°C	-40			
during storage / maximum	°C	80			

C	Certificates						
	Reference code						
	● acc. to DIN EN	61346-2			Q		
	• acc. to DIN EN	81346-2			Q		
	General	EMC	Declaration of	Shi	nning	other	

snipping **Product** Conformity Approval **Approval** 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/3VA10964ED460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA10964ED460AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA10964ED460AA0

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

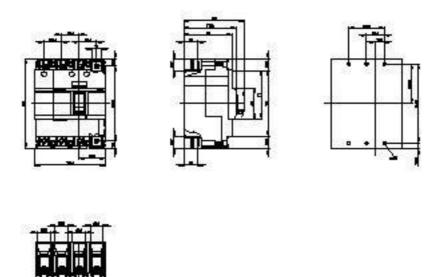


Figure similar

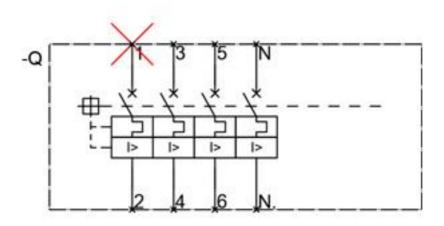


Figure similar

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