SIEMENS

Datasheet

3VA1196-4GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=16A OVERLOAD PROTECTION IR=11,2A ...16A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% 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	TM220

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	14/	40.0
• maximum	W	10.6
Electricity		
Operating current / at 45 °C / Rated value	Α	16
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	16
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	Α	1
of the instantaneous short-circuit release / initial	Α	10
• or the instantaneous short-circuit release / initial value	A	10
Net weight	g	1 200
_		
Main circuit		
Operating voltage	V	600
• with AC / at 50/60 Hz / Rated value	V	690 600
• for DC / Rated value	V	600
Operating current	Δ.	40
• at 40 °C / Rated value	A	16
● at 50 °C / Rated value	A	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 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	100
• for N-conductor protection / Full-scale value	Α	100

Adjustable response value current / of the current- dependent overload release / initial value	А	0.7
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		Yes
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		3VA1196-4GE46-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
● 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 (lcm)		

• at 240 V / Rated value	kA	121
• at 415 V / Rated value	kA	75.6
• at 690 V / Rated value	kA	7.5

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			
Machania I Davina				

Mechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mounting			

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

	Certificates		
•	Reference code		
	• acc. to DIN EN 61346-2	Q	
	● acc. to DIN EN 81346-2	Q	

General Product Approval	EMC	Declaration of Conformity	Shipping Approval	other	
	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/3VA11964GE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11964GE460AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11964GE460AA0

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

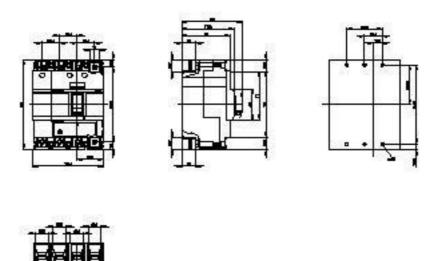


Figure similar

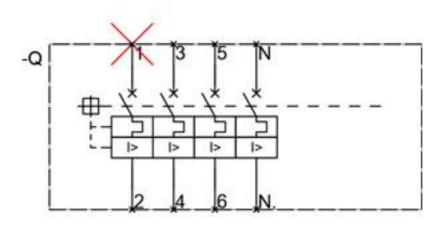


Figure similar

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