SIEMENS

Data sheet

3VA1196-4EE46-0AA0



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=20 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		TM220
General technical data		
Number of poles		4
Trip class / of the L-trip / with I2t characteristic / initial		1
value		
Trip class / of the L-trip / with I2t characteristic / Full-	_	1
scale value		
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

Switching capacity		
Switching capacity class of the circuit breaker		S
Dissipation		
Active power loss		
• maximum	W	10.6
Electricity		
Continuous current / Rated value / maximum	Α	160
Continuous current / Rated value	Α	16
Adjustable response value current		
of the current-dependent overload release /	Α	16
Full-scale value		
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 for use		system protection
Adjustable parameters		
Adjustable response value current		
 of S-trip / with standard characteristic / initial value 	Α	160
 of S-trip / with standard characteristic / Full- scale value 	Α	160
• 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	11
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 /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		Vac
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		3VA1196-4EE46-0AA0
switch		
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 (Icm)		
• at 240 V / Rated value	kA	121
• at 415 V / Rated value	kA	75.6
• at 440 V / Rated value	kA	52.5
• 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		Front terminal
Type of connectable conductor cross-section		
• of the round conductor terminal / stranded		1 x (1.5 - 70 mm²)

rcuit	Box terminal
mm	130
mm	101.6
mm	70
	fixed mounting
g	1 200
°C	-25
°C	70
°C	-40
°C	80
	Q
	Q
aration of	Test Shipping Approval Certificates
	mm mm g °C °C °C °C

Shipping Approval	other		
Lloyd's Register	<u>other</u>		
LRS			

Type Test

Certificates/Test Report

Further information

Approval

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/3VA11964EE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11964EE460AA0/all

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

EG-Konf.

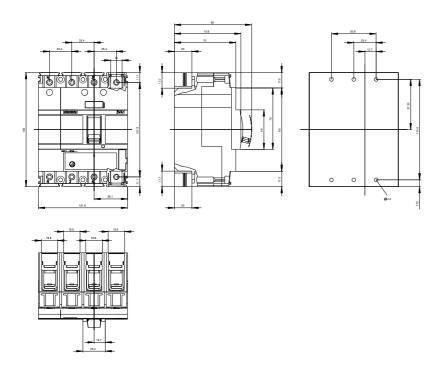
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11964EE460AA0

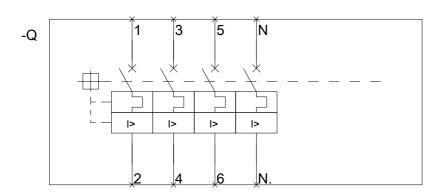
CAx-Online-Generator

http://www.siemens.com/cax

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