## **SIEMENS**

## Data sheet

## 3VA1120-4EE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=20A OVERLOAD PROTECTION IR=14A ...20A SHORT CIRCUIT PROTECTION II=16 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
Destrution along		
Protection class		ID40
Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LI

Switching capacity		
Switching capacity class of the circuit breaker		S
Dissipation	_	
Active power loss		
• maximum	W	12
	_	
Electricity  Continuous current / Rated value / maximum		400
	Α	160
Continuous current / Rated value	A	20
Adjustable response value current	Α	20
of the current-dependent overload release / Full-scale value	A	20
i dii-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	20
• at 50 °C / Rated value	Α	20
● at 55 °C / Rated value	Α	20
• at 60 °C / Rated value	Α	19
• at 65 °C / Rated value	Α	19
• at 70 °C / Rated value	Α	19
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Suitability		
Suitability for use	_	system protection
-	_	
Adjustable parameters		
Adjustable response value current	Δ.	200
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	Α	200
of S-trip / with standard characteristic / Full-	Α	200
scale value		
• for N-conductor protection / initial value	Α	0
for N-conductor protection / Full-scale value	Α	0
Adjustable response value current / of the current-	A	14
dependent overload release / initial value		
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		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
Intrinsic device protection		Yes
<ul> <li>communication function</li> </ul>		No
Phase failure detection		No
other measurement function		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1120-4EE46-0AA0
switch		
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 (lcm)		
• 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 current circuit		Front terminal
Type of connectable conductor cross-section		
• of the round conductor terminal / stranded		1 x (1.5 - 70 mm²)

-	Type of electrical cor	nnection / for main cu	ırrent circuit			Box terminal	
M	echanical Design						
П	-leight			mm		130	
_	Width			mm		101.6	
	Depth			mm		70	
	Mounting type					fixed mounting	ng
	Net weight			g		1 200	
Е	nvironmental cond	itions					
_	Ambient temperature	)					
	<ul><li>during operation</li></ul>	n / minimum		°C		-25	
	<ul> <li>during operation</li> </ul>	n / maximum		°C		70	
	<ul><li>during storage</li></ul>	/ minimum		°C		-40	
	<ul><li>during storage</li></ul>	/ maximum		°C		80	
С	ertificates						
П	Equipment marking						
	• acc. to DIN EN	61346-2				Q	
	• acc. to DIN EN	81346-2				Q	
	General	EMC	Declaration	n of	Tes	t	Shipping Approval
	Product		Conformity	1	Cer	tificates	

Shipping Approval	other	
Lloyd's Register	other	

Type Test

Certificates/Test Report

LRS

**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/3VA11204EE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11204EE460AA0/all

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

EG-Konf.

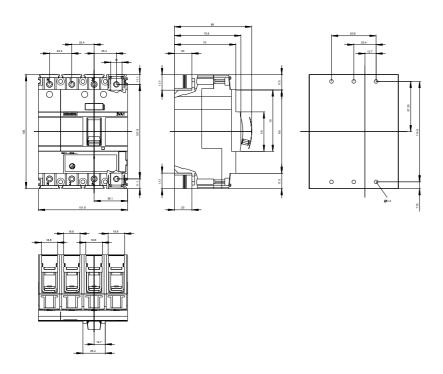
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11204EE460AA0

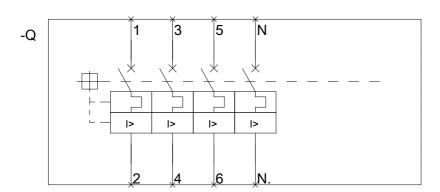
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