SIEMENS

Datasheet

3VA1110-4EE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED BUSBAR 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

Active power loss • maximum W 25 Electricity Operating current / at 45 °C / Rated value • Rated value • Rated value • A 100 Continuous current • Rated value A 100 Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the or the current value • of the instantaneous short-circuit release / initial value • of the or the current value • of the current value • of the current value • of the instantaneous short-circuit release / initial value • of the or the current value • of the instantaneous short-circuit release / initial value • of the current value • of the cur	Protection class		
Switching capacity class of the circuit breaker Dissipation	Protective function of the overcurrent release		Ц
Switching capacity class of the circuit breaker Dissipation	Switching canacity		
Dissipation Active power loss • maximum Maximum M			S
Active power loss • maximum W 25 Electricity Operating current / at 45 °C / Rated value • Rated value • Rated value • A 100 Continuous current • Rated value A 100 Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the instantaneous short-circuit release / initial value • of the or the current value • of the instantaneous short-circuit release / initial value • of the or the current value • of the current value • of the current value • of the instantaneous short-circuit release / initial value • of the or the current value • of the instantaneous short-circuit release / initial value • of the current value • of the cur	- ' '		
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Continuous current / at 45 °C / Rated value			
Operating current / at 45 °C / Rated value	• maximum	W	25
Continuous current / Rated value / maximum Rated value A 100 Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Net weight Operating voltage with AC / at 50/60 Hz / Rated value of the 7C / Rated value value A 10 Value Noperating voltage with AC / at 50/60 Hz / Rated value of the DC / Rated value A 100 Operating current otal 40 °C / Rated value A 100 otal 50 °C / Rated value A 100 otal 50 °C / Rated value A 98 otal 60 °C / Rated value A 96 otal 60 °C / Rated value A 96 otal 60 °C / Rated value A 96 otal 60 °C / Rated value A 99 otal 60 °C / Rated value A 99 otal 60 °C / Rated value Operating current otal 60 °C / Rated value o	Electricity		
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Rated value Adjustable response value current • of the current-dependent overload release / Full-scale value • of the instantaneous short-circuit release / initial value Net weight Value Val	Continuous current / Rated value / maximum	Α	160
Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Net weight Operating voltage of the C / Rated value of DC / Rated value of C / Rated value A 100 Poprating current of C / Rated value A 100 A 100 Operating current of C / Rated value A 100 of C / Rated value A 1	Continuous current		
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Net weight g		Α	10
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at 40 °C / Rated value at 50 °C / Rated value at 50 °C / Rated value at 60 °C / Rated value at 60 °C / Rated value at 65 °C / Rated value at 65 °C / Rated value at 70 °C / Rated value A 94 at 70 °C / Rated value A 91 Auxiliary circuit Number of CO contacts for auxiliary contacts suitability Suitability Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value A 10 for N-conductor protection / initial value A 0	• for DC / Rated value	V	600
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Auxiliary circuit Number of CO contacts • for auxiliary contacts 0 Suitability • Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A U	• at 65 °C / Rated value	Α	94
Number of CO contacts • for auxiliary contacts • Suitability • Suitability for use Adjustable parameters Adjustable response value current • of I-trip / Full-scale value • for N-conductor protection / initial value A 0	• at 70 °C / Rated value	Α	91
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Suitability for use Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value System protection system protection A 10 A 0	<u> </u>		
Adjustable parameters Adjustable response value current of I-trip / Full-scale value for N-conductor protection / initial value A 0			
Adjustable response value current output for N-conductor protection / initial value A 10 A 0	Suitability for use		system protection
 of I-trip / Full-scale value for N-conductor protection / initial value A D 	Adjustable parameters		
• for N-conductor protection / initial value A 0	Adjustable response value current		
	• of I-trip / Full-scale value	Α	10
• for N-conductor protection / Full-scale value A 0	• for N-conductor protection / initial value	Α	0
Fig. 14-conductor protection / Lan-scale value	• for N-conductor protection / Full-scale value	Α	0

Adjustable response value current / of the current- dependent overload release / initial value	Α	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		3VA1110-4EE42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)	kA	55
at 240 V / Rated value at 445 V / Rated value	kA	36
at 415 V / Rated value	kA kA	
at 440 V / Rated value		25
at 500 V / Rated value	kΑ	15
at 690 V / Rated value Maximum short circuit surrent breaking conseits (/ax)	kA	5
Maximum short-circuit current breaking capacity (Icu)	LΛ	55
at 240 V / Rated value	kΑ	55
• at 415 V / Rated value	kA 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			
• for flat-bar terminal connection / minimum	12 x 0		
 for flat-bar terminal connection / maximum 	17 x 6.5		
Design of the electrical connection			
• for main current circuit	Lug terminal		

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

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

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

Q • acc. to DIN EN 81346-2

General Product	t Approval	EMC	Declaration of Conformity	Shipping Approval	other	
		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/3VA11104EE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3VA11104EE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11104EE420AA0

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

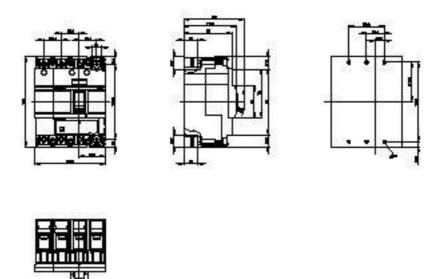


Figure similar

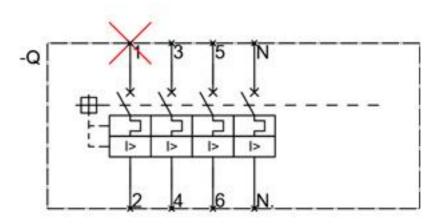


Figure similar

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