SIEMENS

Datasheet

3VA1110-3FE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 50% 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		N				
Dissipation						
Active power loss	W	25				
• maximum	VV	25				
Electricity						
Operating current / at 45 °C / Rated value	Α	100				
Continuous current / Rated value / maximum	Α	160				
Continuous current						
Rated value	Α	100				
Adjustable response value current						
 of the current-dependent overload release / Full-scale value 	Α	1				
 of the instantaneous short-circuit release / initial value 	Α	10				
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	100				
● at 50 °C / Rated value	Α	100				
• at 55 °C / Rated value	Α	98				
• at 60 °C / Rated value	Α	96				
• at 65 °C / Rated value	Α	94				
• at 70 °C / Rated value	Α	91				
Auxiliary circuit						
Number of CO contacts						
• for auxiliary contacts		0				
Suitability						
Suitability for use		system protection				
Adjustable parameters						
Adjustable response value current	A	10				
of I-trip / Full-scale value	A	10				
• for N-conductor protection / initial value	A	0.5				
• for N-conductor protection / Full-scale value	Α	0.5				

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		3VA1110-3FE46-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
● at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		

• at 240 V / Rated value	kA	75.6
● at 415 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)			
Design of the electrical connection					
• for main current circuit		Box 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			

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

Product Conformity **Approval Approval**

other





GL

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/3VA11103FE460AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11103FE460AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11103FE460AA0

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

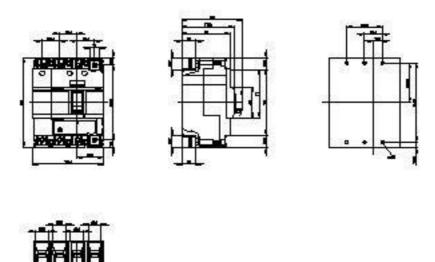


Figure similar

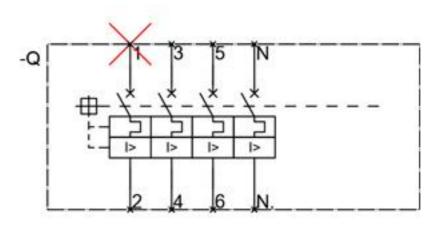


Figure similar

last modified: 21.10.2014