## **SIEMENS**

## Datasheet

## 3VA1110-3FD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=100A OVERLOAD PROTECTION IR=100A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 50% BUSBAR CONNECTION

Figure similar

product brand name Product designation Design of the product	SENTRON Molded case circuit breaker
	Molded case circuit breaker
Design of the product	
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	TM210
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
′oltage	
Insulation voltage	
Rated value     V	800

Protection class		
Protective function of the overcurrent release		LI
Switching consoity	_	
Switching capacity Switching capacity class of the circuit breaker	_	N
Dissipation	_	
Active power loss		
• maximum	W	25
Electricity		
Operating current / at 45 °C / Rated value	А	100
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	100
Adjustable response value current		
<ul> <li>of the current-dependent overload release /</li> </ul>	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	10
value	_	1000
Net weight	g	1 200
Main circuit		
Operating voltage		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
<ul> <li>for DC / Rated value</li> </ul>	V	600
Operating current		
• at 40 °C / Rated value	А	100
● at 50 °C / Rated value	А	100
● at 55 °C / Rated value	А	98
• at 60 °C / Rated value	А	96
• at 65 °C / Rated value	А	94
• at 70 °C / Rated value	А	91
Auxiliary circuit		
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Suitability		
Suitability for use		system protection
Adjustable parameters Adjustable response value current		
	А	10
of I-trip / Full-scale value		
• for N-conductor protection / initial value	A	0.5
<ul> <li>for N-conductor protection / Full-scale value</li> </ul>	A	0.5

Adjustable response value current / of the current-	А	1
dependent overload release / initial value		
Appearance		
Product details		
Product component		
Trip indicator		No
• display		No
Voltage trigger		No
<ul> <li>undervoltage release</li> </ul>		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property	-	
• for neutral conductors /		No
upgradeable/retrofittable / Short-circuit and		
overload proof		
Product expansion		
• optional		
— motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1110-3FD42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
<ul> <li>at 440 V / Rated value</li> </ul>	kA	16
	kA	8
• at 500 V / Rated value	kA kA	5
• at 600 V / Pated value	IV-1	U IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	-	
Maximum short-circuit current breaking capacity (Icu)	kΔ	36
<ul> <li>Maximum short-circuit current breaking capacity (Icu)</li> <li>at 240 V / Rated value</li> </ul>	kA	36 25
<ul> <li>Maximum short-circuit current breaking capacity (Icu)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA	25
<ul> <li>Maximum short-circuit current breaking capacity (Icu)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> <li>at 440 V / Rated value</li> </ul>	kA kA	25 16
<ul> <li>Maximum short-circuit current breaking capacity (Icu)</li> <li>at 240 V / Rated value</li> <li>at 415 V / Rated value</li> </ul>	kA	25

		75.6			
• at 240 V / Rated value	kA	75.6			
• at 415 V / Rated value	kA	52.5			
• at 690 V / Rated value	kA	7.5			
onnections					
Arrangement of electrical connectors					
<ul> <li>for main current circuit</li> </ul>		Front termin	al		
Type of connectable conductor cross-section					
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>		12 x 0	12 x 0		
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		17 x 6.5	17 x 6.5		
Design of the electrical connection					
• for main current circuit		Lug terminal			
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mount	fixed mounting		
nvironmental conditions					
Ambient temperature					
<ul> <li>during operation / minimum</li> </ul>	°C	-25			
<ul> <li>during operation / maximum</li> </ul>	°C	70			
<ul> <li>during storage / minimum</li> </ul>	°C	-40			
<ul> <li>during storage / maximum</li> </ul>	°C	80			
ertificates					
Reference code					
• acc. to DIN EN 61346-2		Q			
• acc. to DIN EN 81346-2		Q			
General Product Approval EMC		eclaration of onformity	Shipping Approval	other	
	ner			other	
		E	GL		
	E				

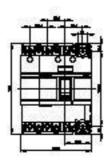
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

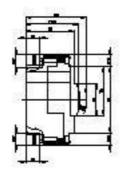
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11103FD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11103FD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA11103FD420AA0

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





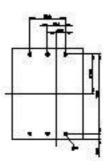




Figure similar

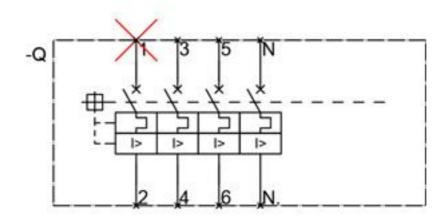


Figure similar

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