SIEMENS

Datasheet

3VA1112-5FD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=125A OVERLOAD PROTECTION IR=125A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 50% 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	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			

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		M
Dissipation		
Active power loss	147	00.0
• maximum	W	23.2
Electricity		
Operating current / at 45 °C / Rated value	Α	125
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	125
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	Α	1
of the instantaneous short-circuit release / initial	Α	10
value	7.	
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	125
• at 50 °C / Rated value	Α	125
● at 55 °C / Rated value	Α	122
• at 60 °C / Rated value	Α	120
• at 65 °C / Rated value	Α	117
● at 70 °C / Rated value	Α	114
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current	^	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	A	1
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		3VA1112-5FD42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)	kA	85
• at 240 V / Rated value	kA	
at 415 V / Rated value		55
• at 440 V / Rated value	kΑ	30
at 500 V / Rated value	kA kA	15
at 690 V / Rated value Movimum short circuit surrent breaking conseits (lov)	kA	5
Maximum short-circuit current breaking capacity (Icu)	kΛ	30
• at 240 V / Rated value	kA kA	85
at 415 V / Rated value	kΑ	55
• at 440 V / Rated value	kA kA	30
at 500 V / Rated value	kA IsA	20
at 690 V / Rated value	kA	10
Short-circuit current making capacity (lcm)		

• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	17

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	hanical 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	

ertificates				
Reference code				
• acc. to DIN EN 61346-2		Q		
• acc. to DIN FN 81346-2		O		

General P	roduct Approval	EMC	Declaration of Conformity	Shipping Approval	other	
		other			other	







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/3VA11125FD420AA0

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

http://support.automation.siemens.com/WW/view/en/3VA11125FD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11125FD420AA0

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

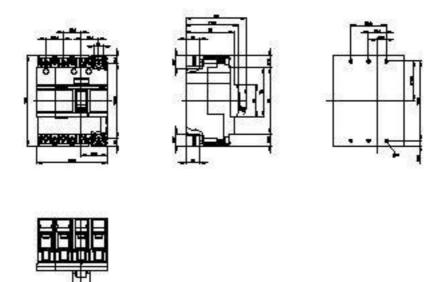


Figure similar

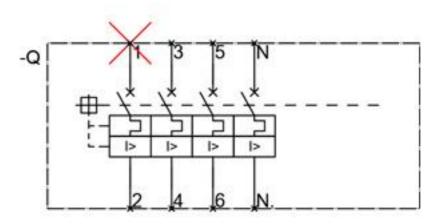


Figure similar

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