SIEMENS

Data sheet

3VA1112-3FE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=125A OVERLOAD PROTECTION IR=87,5A ...125A 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		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			

Protection class IP		IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release	_	L
	_	
Switching capacity Switching capacity class of the circuit breaker	_	N
Dissipation		
Active power loss	14/	22.2
• maximum	W	23.2
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	A	125
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	A	1
 of the instantaneous short-circuit release / initial value 	A	10
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	А	125
• at 50 °C / Rated value	А	125
• at 55 °C / Rated value	А	122
• at 60 °C / Rated value	А	120
● at 65 °C / Rated value	А	117
• at 70 °C / Rated value	А	114
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
 of I-trip / Full-scale value 	А	10
 for N-conductor protection / initial value 	А	0.5
 for N-conductor protection / Full-scale value 	А	0.5
Adjustable response value current / of the current- dependent overload release / initial value	A	0.7
Product details		
Product component		

• This indicator		No
• Trip indicator		
• 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		<u>3VA1112-3FE42-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• 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

eruncates Equipment marking e acc. to DIN EN 61346-2 e acc. to DIN EN 81346-2		Q	
during storage / maximum ertificates	U	80	
• during storage / minimum	°C °C	-40	
during operation / maximum	°C	70	
 Ambient temperature during operation / minimum 	°C	-25	
vironmental conditions			
Nounting type	_	fixed mount	ling
Vidth Depth	mm	101.6 70	
Height	mm	130	
echanical Design	_		
 for flat-bar terminal connection / maximum 	_	Lug termina	al
		17 x 6.5	

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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/3VA11123FE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11123FE420AA0/all

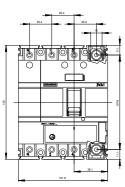
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11123FE420AA0

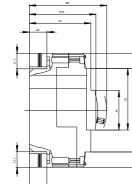
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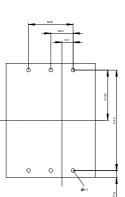
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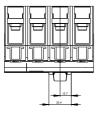
Tender specifications

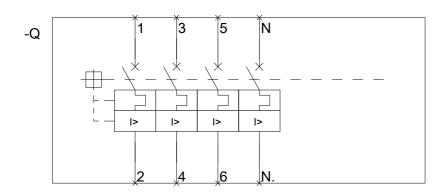
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