SIEMENS

Data sheet

3VA1116-5FF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=160A OVERLOAD PROTECTION IR=112A ...160A SHORT CIRCUIT PROTECTION II=5...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		TM240		
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				

		IP40
Protection class IP / on the front	-	IP40
Protective function of the overcurrent release	_	LI
Switching capacity	_	
Switching capacity class of the circuit breaker	_	Μ
Dissipation Active power loss	_	
• maximum	W	38
Electricity Continuous current / Rated value / maximum	A	160
Continuous current / Rated value / maximum	A A	160 160
Adjustable response value current	A	100
	А	1
 of the current-dependent overload release / Full-scale value 	~	
• of the instantaneous short-circuit release / initial	А	5
value		
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	160
• at 50 °C / Rated value	А	160
● at 55 °C / Rated value	А	158
• at 60 °C / Rated value	А	155
● at 65 °C / Rated value	А	153
• at 70 °C / Rated value	А	150
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	A	10
• for N-conductor protection / initial value	А	50
• for N-conductor protection / Full-scale value	А	50
Adjustable response value current / of the current- dependent overload release / initial value	A	0.7
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		<u>3VA1116-5FF42-0AA0</u>
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		
• 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	-	

Type of connectable conductor cross-section

	er	EG-Konf.	
General Product Approval EMC		Declaration of Conformity	Shipping Approval
• acc. to DIN EN 81346-2		Q	
• acc. to DIN EN 61346-2		Q	
quipment marking			
rtificates			
 during storage / maximum 	°C	80	
 during storage / minimum 	°C	-40	
 during operation / maximum 	°C	70	
 during operation / minimum 	°C	-25	
mbient temperature			
vironmental conditions			
Nounting type		fixed mount	ing
Depth	mm	70	
Vidth	mm	101.6	
leight	mm	130	
echanical Design			
ype of electrical connection / for main current circui	t	Lug termina	
 for flat-bar terminal connection / maximum 		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/3VA11165FF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11165FF420AA0/all

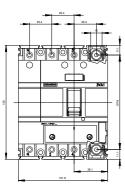
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11165FF420AA0

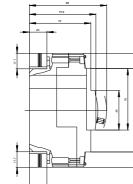
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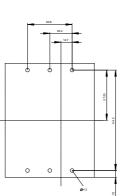
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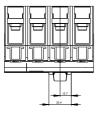
Tender specifications

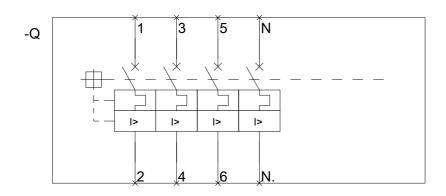
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