SIEMENS

Datasheet

3VA1116-4FF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 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		
Protective function of the overcurrent release		LI
Quitching conceity	_	
Switching capacity Switching capacity class of the circuit breaker		S
Dissipation		
Active power loss		
• maximum	W	38
Electricity		
Operating current / at 45 °C / Rated value	А	160
Continuous current / Rated value / maximum	А	160
Continuous current		
 Rated value 	А	160
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
 of the instantaneous short-circuit release / initial 	А	5
value		
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	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		system protection
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

Adjustable response value current / of the current-	А	0.7
dependent overload release / initial value		
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		3VA1116-4FF42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
• at 690 V / Rated value Short-circuit current making capacity (Icm)	kA	7

• at 240 V / Rated value	kA	121			
• at 415 V / Rated value	kA	75.6			
• at 690 V / Rated value	kA	7.5			
Connections					
Arrangement of electrical connectors					
 for main current circuit 		Front termin	nal		
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	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		
Environmental conditions					
Ambient temperature					
 during operation / minimum 	°C	-25			
 during operation / maximum 	°C	70			
 during storage / minimum 	°C	-40			
• during storage / maximum	°C	80			
Certificates					
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	
	her			other	
		t	GL		

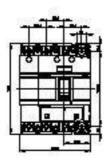
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

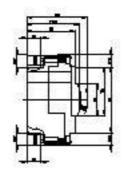
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11164FF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11164FF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11164FF420AA0

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





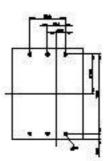




Figure similar

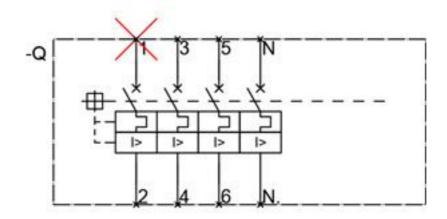


Figure similar

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