SIEMENS

Datasheet

3VA1096-3ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=16A OVERLOAD PROTECTION IR=16A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED 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		LI
Switching capacity		
Switching capacity class of the circuit breaker		N
Dissipation		
Active power loss	W	10.6
• maximum	vv	10.0
Electricity		
Operating current / at 45 °C / Rated value	А	16
Continuous current / Rated value / maximum	А	100
Continuous current		
Rated value	А	16
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
 of the instantaneous short-circuit release / initial 	А	10
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	16
• at 50 °C / Rated value	А	16
● at 55 °C / Rated value	А	16
● at 60 °C / Rated value	А	15
● at 65 °C / Rated value	А	15
• at 70 °C / Rated value	А	15
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
 for N-conductor protection / Full-scale value 	А	0

Adjustable response value current / of the current-	A	1	
dependent overload release / initial value			
ppearance			
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 /		No	
upgradeable/retrofittable / Short-circuit and			
overload proof			
Product expansion			
optional			
— motor drive		No	
Product function			
Product function			
 Intrinsic device protection 		Yes	
 communication function 		No	
Phase failure detection		No	
 other measurement function 		No	
ccessories			
Manufacturer article number / of the supplied basic		3VA1096-3ED42-0AA0	
switch			
Short circuit			
Operational short-circuit current breaking capacity (Ics)			
at 240 V / Rated value	kA	36	
• at 415 V / Rated value	kA	25	
• 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)			
	kA	36	
 at 240 V / Rated value 		25	
 at 240 V / Rated value at 415 V / Rated value 	kA		
• at 415 V / Rated value	kA kA	16	
 at 415 V / Rated value at 440 V / Rated value 	kA	16 8	
• at 415 V / Rated value		16 8 5	

• 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 termin	al		
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		
Invironmental 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	
	ther			other	
	(F	GL		

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

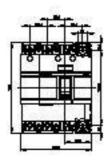
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA10963ED420AA0

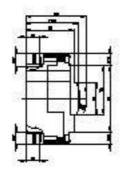
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA10963ED420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA10963ED420AA0

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





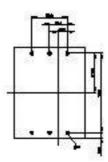




Figure similar



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