SIEMENS

Datasheet

3VA1196-3ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 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	10.6
Electricity		
Operating current / at 45 °C / Rated value	А	16
Continuous current / Rated value / maximum	А	160
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	A	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	A	10
 for N-conductor protection / initial value 	A	0
 for N-conductor protection / Full-scale value 	A	0

Adjustable response value current / of the current-	А	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		Yes
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		3VA1196-3ED42-0AA0
switch		
hort 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 500 V / Rated value at 690 V / Rated value	kA	5
• at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)		
at 240 V / Rated value	kA	36
at 240 V / Rated Value at 415 V / Rated value	kA	25
- al 413 V / Maleu Value	kA	16
• at 440 V// Datad value	N-4	10
 at 440 V / Rated value at 500 V / Rated value 	k٨	8
 at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA	8 7

		75.6			
• at 240 V / Rated value	kA	75.6			
• at 415 V / Rated value	kA	52.5			
• at 690 V / Rated value	kA	7.5			
onnections					
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 termina	Lug terminal		
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mount	fixed mounting		
nvironmental 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 EN 81346-2		Q			
General Product Approval EMC		eclaration of onformity	Shipping Approval	other	
	ner			other	
		E	GL		
	E				

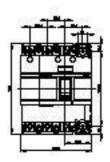
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

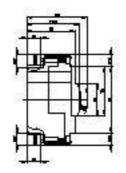
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11963ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11963ED420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11963ED420AA0

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





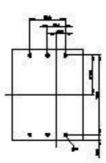




Figure similar



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