SIEMENS

Datasheet

3VA1116-3ED32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=160A OVERLOAD PROTECTION IR=160A FIXED SHORT CIRCUIT PROTECTION II=10 X IN 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		3			
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			
/oltage					
Insulation voltage					
Rated value	V	800			

Protection class		
Protective function of the overcurrent release		LI
Switching consoity	_	
Switching capacity Switching capacity class of the circuit breaker	-	N
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	A	10
value		000
Net weight	g	900
Main circuit	-	
Operating voltage		
 with AC / at 50/60 Hz / Rated value 	V	690
 for DC / Rated value 	V	500
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	А	10
	A	0
for N-conductor protection / initial value		0
 for N-conductor protection / Full-scale value 	A	U C

Adjustable response value current / of the current-	А	1
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 /		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
Accessories		
Manufacturer article number / of the supplied basic		3VA1116-3ED32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity	-	
Operational short-circuit current breaking capacity (Ics)	kA	26
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA	36
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	25
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA	25 16
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA	25 16 8
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value	kA kA	25 16
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	25 16 8 5
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA kA kA kA	25 16 8 5 36
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA kA kA	25 16 8 5 36 25
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA kA kA kA kA	25 16 8 5 36 25 16
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value	kA kA kA kA kA	25 16 8 5 36 25

• 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	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	76.2			
Depth	mm	70			
Mounting type		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	
	ther			other	
		t	GL		
		G-Konf.			

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/3VA11163ED320AA0

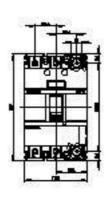
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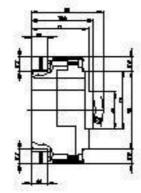
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11163ED320AA0

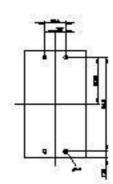
CAx-Online-Generator

http://www.siemens.com/cax

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







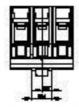


Figure similar

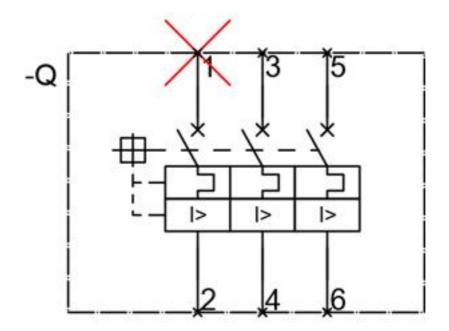


Figure similar

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