SIEMENS

Datasheet

3VA1080-3ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=80A OVERLOAD PROTECTION IR=80A 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	10.2
• maximum	VV	19.2
Electricity		
Operating current / at 45 °C / Rated value	А	80
Continuous current / Rated value / maximum	А	100
Continuous current		
Rated value	А	80
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	80
• at 50 °C / Rated value	А	80
• at 55 °C / Rated value	А	78
• at 60 °C / Rated value	А	77
● at 65 °C / Rated value	А	75
• at 70 °C / Rated value	А	74
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability		system protection
Suitability for use		
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-	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
roduct function		
Product function		Nee
Intrinsic device protection		Yes
communication function		No
Phase failure detection		No
 other measurement function 		No
ccessories		
Manufacturer article number / of the supplied basic		3VA1080-3ED42-0AA0
nuitob		
switch		
hort circuit	-	
	_	
hort circuit Operational short-circuit current breaking capacity	kA	36
Short circuit Operational short-circuit current breaking capacity (Ics)	kA kA	36 25
Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value		
Chort circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	25
Chort circuit 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
Chort circuit 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
Chort circuit 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 kA	25 16 8
Chort circuit 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 • at 690 V / Rated value	kA kA kA kA	25 16 8 5
Chort circuit 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 • 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
Chort circuit 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 500 V / Rated value • at 690 V / Rated value • at 690 V / Rated value • at 240 V / Rated value • at 240 V / Rated value • 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	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		

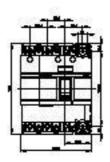
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

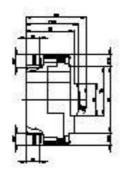
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA10803ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA10803ED420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA10803ED420AA0

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





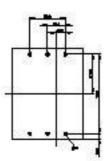




Figure similar

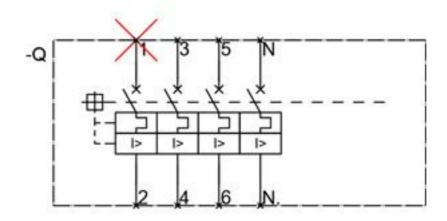


Figure similar

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