SIEMENS

Data sheet

3VA1196-5GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=16A OVERLOAD PROTECTION IR=16A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% 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		

Protection class IP Protection class IP / on the front	_	IP40
		IP40
Protective function of the overcurrent release	_	LI
Switching capacity	_	
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss		
• maximum	W	10.6
Electricity		
Continuous current / Rated value / maximum	A	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 value 	A	10
value		
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	A	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
		system protection
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	A	10
 for N-conductor protection / initial value 	А	100
• for N-conductor protection / Full-scale value	А	100
Adjustable response value current / of the current- dependent overload release / initial value	A	1
Product details		
Product component		

• This is director		No
• Trip indicator		
• 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		3VA1196-5GD42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• 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	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	11.9
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		

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			
ype of electrical connection / for main current circ	cuit	Lug termina	l		
echanical Design					
leight	mm	130			
Vidth	mm	101.6			
Depth	mm	70	70		
Nounting 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					
Equipment marking					
• acc. to DIN EN 61346-2		Q			
• acc. to DIN EN 81346-2		Q			
General Product Approval EMC		Declaration of Conformity	Shipping App	proval	
	other	CE	ĴÅ	GL	
		EG-Konf.	DNV DNV	GL	
other					
other					

Further information

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/3VA11965GD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11965GD420AA0/all

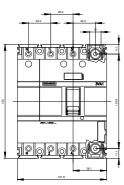
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11965GD420AA0

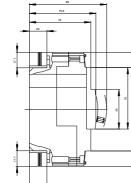
CAx-Online-Generator

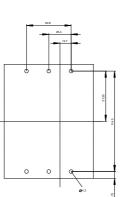
http://www.siemens.com/cax

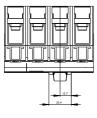
Tender specifications

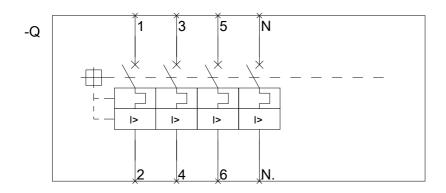
http://ausschreibungstexte.siemens.com/tiplv











last modified:

11.03.2015