## SIEMENS

## Data sheet

## 3VA1196-5GD42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 4-pole, line protection TM210, FTFM, In=16A overload protection Ir=16A fixed short-circuit protection Ii=20 x In N conductor protection 100% nut keeper kit

Model			
product brand name	SENTRON		
product designation	Molded case circuit breaker		
design of the product	Line protection		
design of the overcurrent release	TM210		
protection function of the overcurrent release	LI		
number of poles	4		
General technical data			
insulation voltage / rated value	800 V		
operating voltage / at DC / rated value	600 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	10.6 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.53 W		
mechanical service life (operating cycles) / typical	20 000		
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	9 000		
electrical endurance (operating cycles) / at AC-1 / at 690 V	6 300		
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No		
ground-fault monitoring version	Without		
product function			
<ul> <li>communication function</li> </ul>	No		
<ul> <li>other measurement function</li> </ul>	No		
Net Weight	1.224 kg		
Current			
operational current			
• at 40 °C	16 A		
● at 45 °C	16 A		
● at 50 °C	16 A		
● at 55 °C	16 A		
• at 60 °C	15 A		
● at 65 °C	15 A		
• at 70 °C	15 A		
Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	Μ		
maximum short-circuit current breaking capacity (Icu)			
• at 240 V	85 kA		
• at 415 V	55 kA		
• at 440 V	36 kA		
● at 500 V	10 kA		
• at 690 V	10 kA		

operating short-circuit current breaking capacity (lcs)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	75.6 kA
• at 500 V	17 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit

breaker device manual; link to be found under Service & Support in the last chapter

	chapter
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	16 A
• maximum	16 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	320 A
• maximum	320 A
adjustable setting current (InN) / for N-tripping	
• minimum	16 A
• maximum	16 A
design of the N-conductor protection	100%
product function / grounding protection	No
Mechanical Design	
product component	
<ul> <li>undervoltage release</li> </ul>	No
voltage trigger	No
trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	4 in
width	101.6 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6,5 mm
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) $$	Silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) $% \left( 1, 2, 2, 3, 6 \right)$	Tin
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C

<ul> <li>during operation</li> <li>during storage / 1</li> <li>during storage / 1</li> </ul>	minimum	70 °C -40 °( 80 °C	C		
ertificates					
eference code / accord	ding to IEC 81346-2	Q			
General Product App	roval				
<u>Confirmation</u>			<u>Miscellaneous</u>	KC	EAC
EMC	Declaration of Confo	rmity	Test Certificates		
RCM	C E EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>
larine / Shipping					other
ABS	BUREAU VERITAS		RMRS RMRS	CCS / China Classific- ation Society	<u>Confirmation</u>
other		Environment			
<u>Miscellaneous</u>	Miscellaneous	Environmental Con- firmations			
rther information			_		
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business					
lease contact your loc				nd to import or offer to suppl	y these products to a

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1196-5GD42-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA1196-5GD42-0AAC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

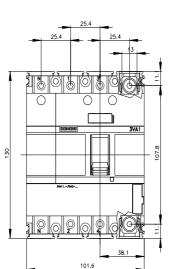
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1196-5GD42-0AA0

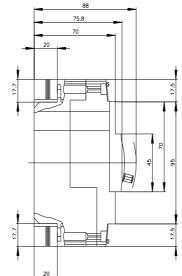
CAx-Online-Generator

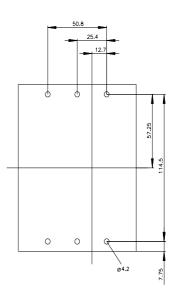
http://www.siemens.com/cax

Tender specifications

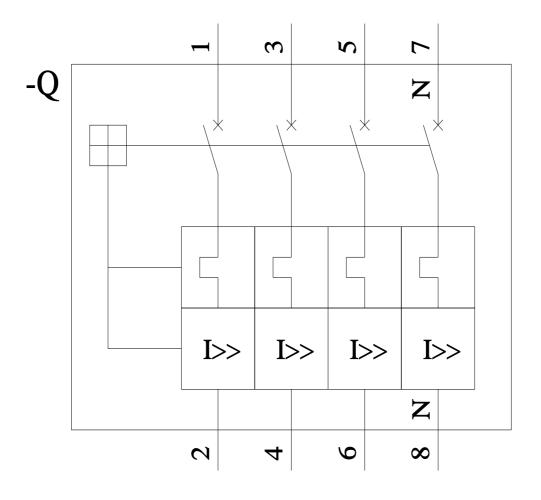
http://www.siemens.com/specifications







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