SIEMENS

Data sheet

3VA1196-4GE42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=16A overload protection Ir=11A...16A 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	TM220
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 $\left[W\right]$ / 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	
communication function	No
 other measurement function 	No
Net Weight	1.251 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	S
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	55 kA
● at 415 V	36 kA
• at 440 V	25 kA
● at 500 V	7 kA
• at 690 V	7 kA

operating short-circuit current breaking capacity (lcs)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	52.5 kA
• at 500 V	11.9 kA
• at 690 V	11.9 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

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

product feature / for L-tripping / can be switched oxolf No adjustable response value setting current (ifr) / of the L-trip / with 12t characteriste 11 A • minimum 18 A adjustable response value delay time (tr) / for L-tripping / with 12t characteriste 1 s • maximum 1 s adjustable response value delay time (tr) / for L-tripping / with 12t characteriste 1 s • maximum 320 A adjustable response value setting current (ii) / for L-tripping 1 s • maximum 320 A adjustable response value setting current (in) / for N-tripping 1 s • minimum 1 s • maximum 320 A adjustable setting current (inN) / for N-tripping 1 s • maximum 18 A design of the N-conductor protection 100% product component 100% • underovaluge reliase No • voltage trigger		chapter
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Environmental conditions protection class IP / on the front IP40	product extension / optional / motor drive	Yes
	protection class IP / on the front	IP40
	ambient temperature	
• during operation / minimum -25 °C		-25 °C

Initiation Image: Confirmation	 during operation during storage / during storage / 	minimum	70 °C -40 ° 80 °C	C		
General Product Approval Confirmation Image: Confirmation <td>ertificates</td> <td>maximum</td> <td>00 0</td> <td>,</td> <td></td> <td></td>	ertificates	maximum	00 0	,		
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Wiscellaneous Environmental Con- firmations rther information	Marine / Shipping					other
Miscellaneous Environmental Con- firmations Inther information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	ABS	BUREAU VERITAS		RMRS	<u>CCS / China Classific-</u> ation Society	<u>Confirmation</u>
Inther information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	other		Environment			
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Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	ttps://press.siemens.c	com/global/en/pressreleas	se/siemens-wind-down-rus	sian-business		
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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=3VA1196-4GE42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1196-4GE42-0AAC

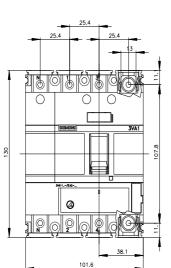
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

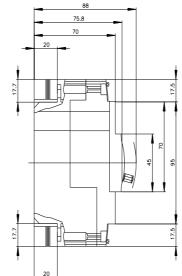
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1196-4GE42-0AA0

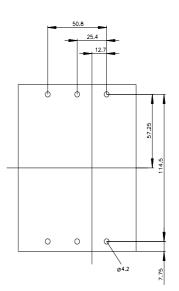
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

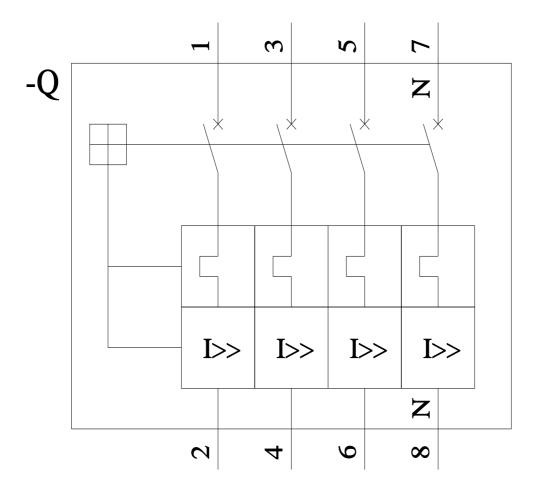
http://www.siemens.com/specifications







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