SIEMENS

Data sheet

3VA1196-4EF42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4pole, line protection TM240, ATAM, In=16A overload protection Ir=11A...16A shortcircuit protection Ii=10...20 x In N conductor unprotected 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	TM240
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	1.219 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 (Ics)	
• 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

Adjutable parameters No product feature / for L-tripping can be switched outform No entiminum 11 A entiminum 11 A entiminum 16 A adjustable propose value delay time (tr) / for L-tripping / wth 12t Image: Comparison of Comparison and Comparison of Comparison		chapter
adjustable response value setting current (in) / of the L-trip / with // characleristic minimum 11 A inaximum 15 adjustable response value delay time (itr) / for L-tripping / with 12t characleristic ininimum 15 adjustable response value setting current (iii) / for L-tripping / with 12t characleristic ininimum 15 adjustable response value setting current (iii) / for I-tripping ininimum 160 A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A ininimum 0A ininimum 0A adjustable response value setting current (iii) / for I-tripping ininimum 0A ininimum 0A inin	Adjustable parameters	
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terminal connection / maximum		12 x 1 mm
switch (N, 1, 3, 5) Image: switch (N, 2, 4, 6) Auxiliary circuit Tin number of CO contacts / for auxiliary contacts 0 Accessories 0 product extension / optional / motor drive Yes Environmental conditions IP40 ambient temperature IP40		17 x 6,5 mm
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Accessories Yes product extension / optional / motor drive Yes Environmental conditions IP40 ambient temperature IP40	Auxiliary circuit	
product extension / optional / motor drive Yes Environmental conditions IP40 ambient temperature IP40	number of CO contacts / for auxiliary contacts	0
Environmental conditions protection class IP / on the front IP40 ambient temperature IP40	Accessories	
Environmental conditions protection class IP / on the front IP40 ambient temperature IP40	product extension / optional / motor drive	Yes
protection class IP / on the front IP40 ambient temperature IP40		
ambient temperature		IP40
	•	
		-25 °C

 during operation 	/ maximum	70 °	°C			
 during storage / r 		-40	°C			
during storage / maximum		80 °	80 °C			
Environmental footprint						
Environmental Product	Declaration(EPD)	Yes	Yes			
Global Warming Potent	ial [CO2 eq] / total	190	190 kg			
Global Warming Potent	ial [CO2 eq] / during manu	Ifacturing 4.6	4.67 kg			
Global Warming Potent	ial [CO2 eq] / during opera	ation 186	186 kg			
global warming potentia	al [CO2 eq] / after end of li	fe -0.8	-0.826 kg			
reference code / accord	ling to IEC 81346-2	Q				
Approvals / Certificates						
General Product App	roval					
	Confirmation	^	Miscellaneous	KC		
(\mathbf{m})	<u>oominia.on</u>		<u></u>		FAL	
					EUL	
CCC		VDE				
EMC	Declaration of Confor	mity	Test Certificates			
_						
A	UK	"	Miscellaneous	<u>Special Test Certific-</u> ate	<u>Type Test Certific-</u> ates/Test Report	
<u>(</u>)	ZÔ					
RCM	СН	EG-Konf.				
Marine / Shipping						
-	(UVP)			-		
1-11-1 C	ALY A	ĴÅ	Lloyds		CCS / China Classific- ation Society	
and the second second		DNV	Kegister			
ABS	BUREAU	DNV	LRS	RMRS		
	VERITAS					
other			Environment			
Miscellaneous	Confirmation	Miscellaneous	Environmental Con-			
Mischancous	Committation	Miscellancous	firmations			

Further 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 an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VA1196-4EF42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1196-4EF42-0AA0

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

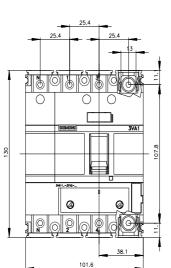
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1196-4EF42-0AA0

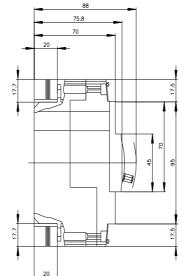
CAx-Online-Generator

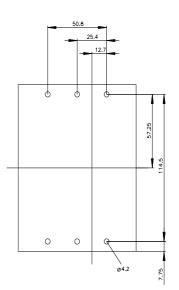
http://www.siemens.com/cax

Tender specifications

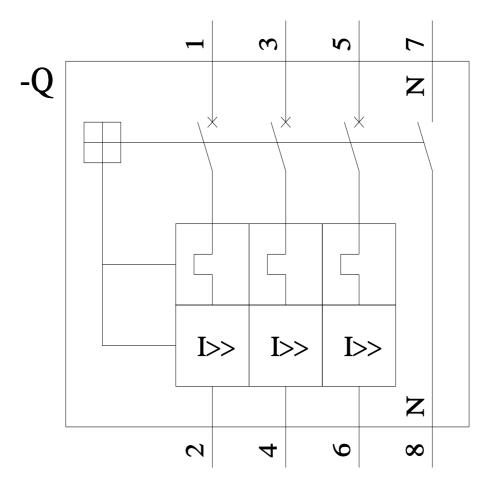
http://www.siemens.com/specifications







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