3VA1140-4GF46-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM240, ATAM, In=40A overload protection Ir=28A...40A short-circuit protection Ii=5...10 x In N conductor protection 100% clamp connection

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	10.8 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	1.308 kg	
urrent		
operational current		
• at 40 °C	40 A	
• at 45 °C	40 A	
• at 50 °C	40 A	
• at 55 °C	39 A	
• at 60 °C	39 A	
• at 65 °C	38 A	
• at 70 °C	37 A	
witching capacity according to IEC 60947		
switching capacity class of the circuit breaker	S	
maximum short-circuit current breaking capacity (lcu)		
• 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	

** a1240 V		
and 440 V and 500 V bit And 5	● at 240 V	55 kA
e at 500 V 5 kA attentional current making capacity (ton) 4 to 240 V 5 kKA 4 to 441 V 5 75 kKA 4 to 440 V 5 25 kKA 4 to 440 V 5 25 kKA 4 to 450 V 119 kKA 4 to 500 V 119 kKA 4 to 500 V 119 kKA 5 to 500 V 119 kKA 5 to 500 V 119 kKA 6 to 500 V	● at 415 V	36 kA
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e at 240 V e at 415 V e at 440 V e at 500 V	● at 690 V	5 kA
e at 415 V 52.5 k/A	short-circuit current making capacity (lcm)	
e at 440 V	• at 240 V	121 kA
e at 500 V eat 690 V design of short-circuit protection For switching power-values in DC networks, see the 3VA modded case circuit breather device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device manual; link to be found under Service & Support in the lest clother device	● at 415 V	75.6 kA
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design of short-circuit protection For switching power values in DC networks, see the 3VA modeled case circuit breaker device manual; link to be found under Service & Support in the last characteristic Support characteris	● at 500 V	11.9 kA
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• minimum • maximum design of the N-conductor protection product function / grounding protection No Mechanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height 130 mm width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded width 101.6 mm depth [in] 2.76 in depth [in] type of celetrical connectors / for main current circuit type of electrical connection / for main current circuit byse of one surface / of the connections / on the top of the switch (N, 2, 4, 6) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) **Accessories** product extension / optional / motor drive Yes **Environmental conditions** protection class IP / on the front IP40 ambient emperature • during operation / minimum	• maximum	400 A
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Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during operation / maximum 70 °C	design of the surface / of the connections / on the bottom of the	Tin
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protection class IP / on the front ambient temperature • during operation / minimum -25 °C • during operation / maximum 70 °C	· · · · · · · · · · · · · · · · · · ·	
ambient temperature • during operation / minimum -25 °C • during operation / maximum 70 °C		IP40
 during operation / minimum during operation / maximum C 	·	II 70
• during operation / maximum 70 °C	·	-25 °C
	- 1	
uuring storage / minimum -40 C		
	• during storage / millimum	~40 C

during storage / maximum

Certificates

reference code / according to IEC 81346-2

General Product Approval

Confirmation





80 °C

Q

Miscellaneous

<u>KC</u>



EMC

Declaration of Conformity

Test Certificates







Special Test Certificate Type Test Certificates/Test Report

Miscellaneous

Marine / Shipping









CCS / China Classification Society **Miscellaneous**

other

other

Environment

Confirmation

Miscellaneous

Environmental Confirmations

urther 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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1140-4GF46-0AA0

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

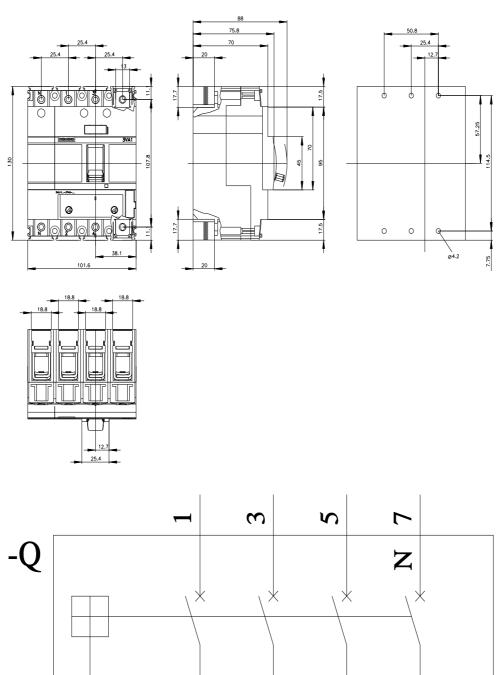
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1140-4GF46-0AA0

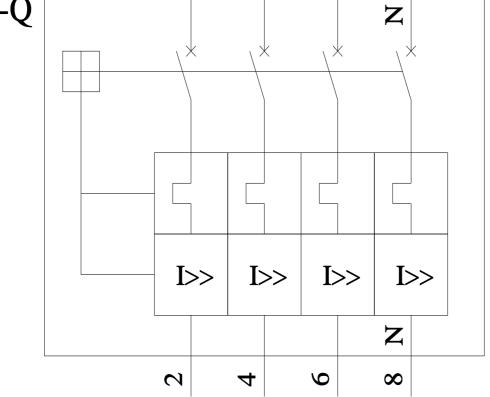
CAx-Online-Generator

http://www.siemens.com/cax

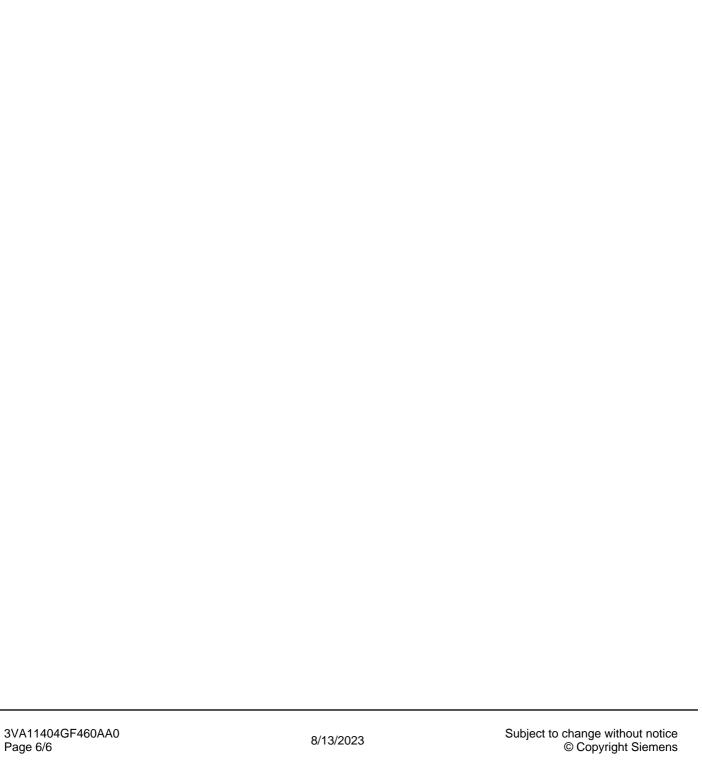
Tender specifications

http://www.siemens.com/specifications





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Siemens:

3VA11404GF460AA0