3VA1163-5GF42-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 4-pole, line protection TM240, ATAM, In=63A overload protection Ir=44A...63A short-circuit protection Ii=5...10 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	TM240
protection function of the overcurrent release	U
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	17.3 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	5.77 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	1.206 kg
Current	
operational current	
● at 40 °C	63 A
● at 45 °C	63 A
● at 50 °C	63 A
• at 55 °C	62 A
• at 60 °C	61 A
• at 65 °C	60 A
• at 70 °C	58 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (lcu)	
• 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

4 of 45 V 55 kA 5		
* at 400 V		
### 1500 V 5 kA short-recult current making capacity (form) ### 240 V 187 kA ### 440 V 75.6 kNA ### 450 V 17 kA ### 450 V 17		
a - 1690 V		
short-found current making capacity (fcm) a 24 20 V a 14 15 V a 14 15 V a 14 14 0 V 75 6 kA a 14 15 V a 14 15 0 V 4 16 800 V 77 kA a 16 800 V 5 75 6 kA 5 75 6 kA 4 16 800 V 5 75 6 kA 5 800 V 5 800 V 5 800 V 6 800 V 7 7 kA Adjustable parameters product feature / for L-fripping / can be switched onlorf 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
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e at 440 V e at 500 V		
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adjustable response value setting current (ir) / of the L-trip / with L2t characterists	Adjustable parameters	
Additional Comments	product feature / for L-tripping / can be switched on/off	No
maximum 1s		
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic	• minimum	44 A
characteristic minimum minim	• maximum	63 A
maximum adjustable response value setting current (iii) / for I-tripping eminimum emaximum adjustable setting current (inN) / for N-tripping eminimum eminimum emaximum adjustable setting current (inN) / for N-tripping eminimum emaximum ada A emaximum adesign of the N-conductor protection nov morbust component eunderolage release voltage trigger voltage trigger inplicator height [in] beight [in] beight [in] aline depth [in] arrangement of electrical connections / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts O Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature		
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minimum maximum maxim	maximum	1s
maximum adjustable setting current (inN) / for N-tripping minimum	adjustable response value setting current (li) / for I-tripping	
adjustable setting current (InN) / for N-tripping	• minimum	315 A
• minimum 63 A • maximum 63 A design of the N-conductor protection product function / grounding protection No Mochanical Design product component • undervoltage release • voltage trigger • trip indicator height [in] height 130 mm width [in] 4 in width 101.6 mm depth [in] depth [in] 2.76 in depth 70 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connector / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum type of connectable conductor cross-sections / for flat-bar terminal connection / minimum the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts 0 Accessorios product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front ambient temperature		630 A
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switch (N, 2, 4, 6) 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		Silver
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature		Tin
Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front IP40 ambient temperature	Auxiliary circuit	
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature Yes IP40	number of CO contacts / for auxiliary contacts	0
Environmental conditions protection class IP / on the front IP40 ambient temperature	Accessories	
protection class IP / on the front IP40 ambient temperature	product extension / optional / motor drive	Yes
ambient temperature	Environmental conditions	
	protection class IP / on the front	IP40
◆ during operation / minimum	·	
	during operation / minimum	-25 °C

• during operation / maximum

• during storage / minimum

• during storage / maximum

70 °C

-40 °C 80 °C

Certificates

reference code / according to IEC 81346-2

Q

General Product Approval

Confirmation





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

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=3VA1163-5GF42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-5GF42-0AA0

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

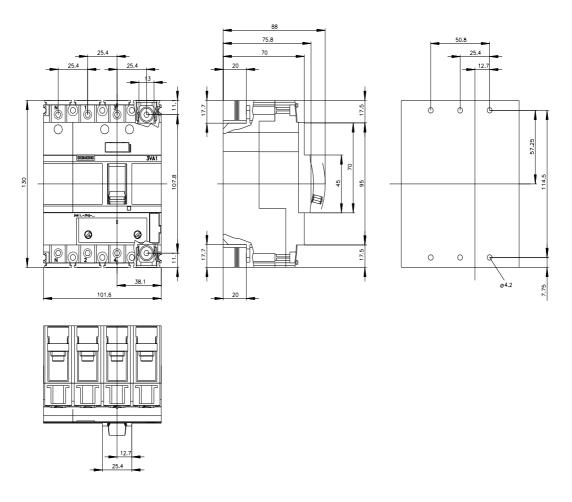
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1163-5GF42-0AA0

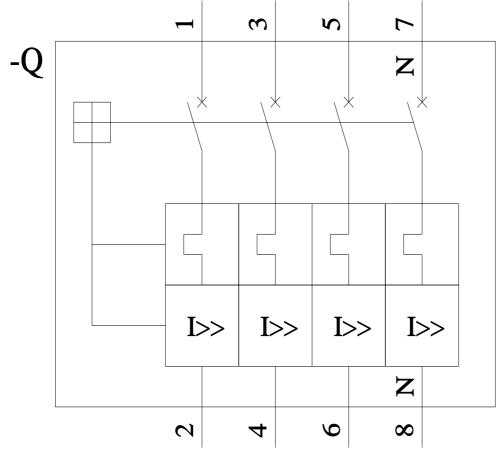
CAx-Online-Generator

http://www.siemens.com/cax

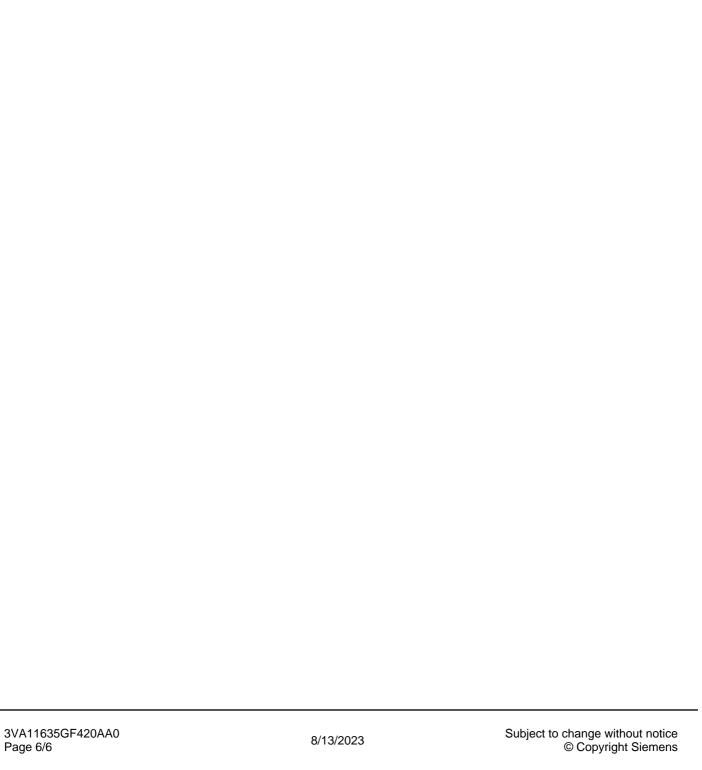
Tender specifications

http://www.siemens.com/specifications





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Authorized Distributor

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Siemens:

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