SIEMENS

Data sheet

3VA1163-4EE42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=63A overload protection Ir=44A...63A short-circuit protection Ii=10 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	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	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	1.211 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	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

No
44 A
63 A
1 s
1 s
630 A
630 A
0 A
0 A
without
No
No
No
No
5.12 in
130 mm
4 in
101.6 mm
2.76 in
70 mm
Front terminal
nut keeper kit on both ends
12 x 1 mm
17 x 6,5 mm
Silver
Tin
0
Yes
IP40
-25 °C

during operation / maximum		70 °			
 during storage / minimum 			-40 °C		
during storage / maximum		80 °	°C		
Environmental footprin		_			
Environmental Product		Yes	Yes		
Global Warming Potential [CO2 eq] / total			190 kg		
Global Warming Potential [CO2 eq] / during manufacturing			4.67 kg		
Global Warming Potential [CO2 eq] / during operation			186 kg		
	al [CO2 eq] / after end of lit		26 kg		
reference code / accord		Q			
Approvals / Certificates	;				
General Product App	roval				
<u>Confirmation</u>			<u>Miscellaneous</u>	KC	EAC
EMC	Declaration of Confor		Test Certificates		
RCM	CE EG-Konf.	UK CA	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					
ABS	B U REAU VERITAS		Llovds Register urs	KARS RARS	<u>CCS / China Classific-</u> ation Society
other			Environment		
<u>Confirmation</u>	Miscellaneous	<u>Miscellaneous</u>	Environmental Con- 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=3VA1163-4EE42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-4EE42-0AA0

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

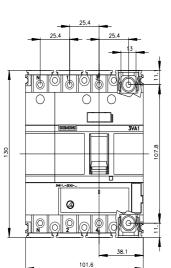
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1163-4EE42-0AA0

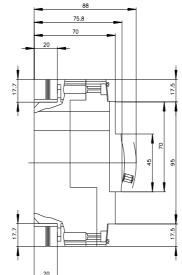
CAx-Online-Generator

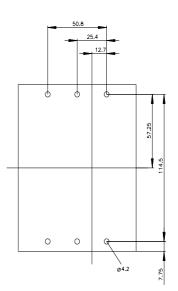
http://www.siemens.com/cax

Tender specifications

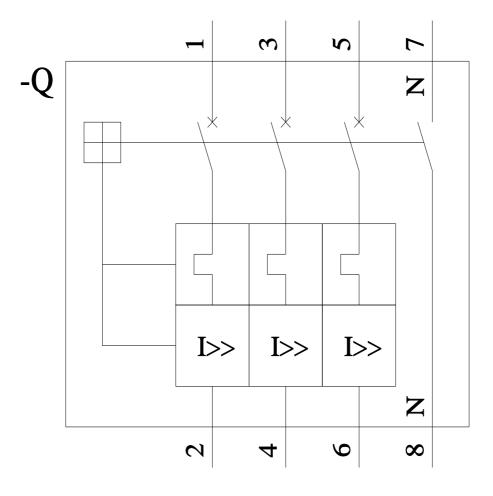
http://www.siemens.com/specifications







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