SIEMENS

Data sheet

3VA1163-3GF42-0AA0

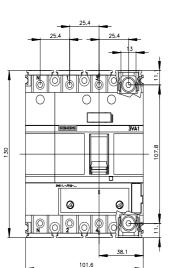


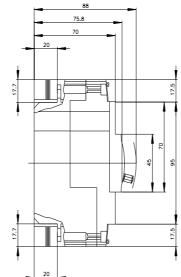
circuit breaker 3VA1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 4-pole, line protection TM240, ATAM, In=63A overload protection Ir=44A...63A short-circuit protection Ii=5...10 x In N conductor protection 100% nut keeper kit

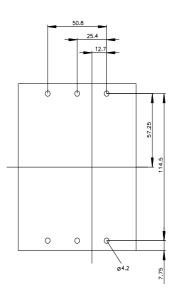
Model						
product brand name	SENTRON					
product designation	Molded case circuit breaker					
design of the product	Line protection					
design of the overcurrent release	TM240					
protection function of the overcurrent release	LI					
number of poles	4					
General technical data						
insulation 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 product function	Without					
communication function	No					
 other measurement function 	No					
Net Weight	1.234 kg					
Current	5					
continuous current / rated value / maximum	160 A					
continuous current / rated value	63 A					
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	Ν					
maximum short-circuit current breaking capacity (Icu)						
• at 240 V	36 kA					
• at 415 V	25 kA					
• at 440 V	16 kA					

• at 500 V	7 kA
• at 690 V	7 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
• at 500 V	5 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	75.6 kA
• at 415 V	52.5 kA
• at 440 V	32 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 chapter
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip	
/ with I2t characteristic	
• minimum	44 A
• maximum	63 A
adjustable response value delay time (tr) / for L-tripping /	
with I2t characteristic	
● minimum	1s
• maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	315 A
• maximum	630 A
adjustable absolute value setting current (InN) / for N- tripping	
• minimum	63 A
• maximum	63 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	315 A
• maximum	630 A
design of the N-conductor protection	100%
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	5.12 in
height	130 mm
width [in]	4 in
width	101.6 mm
depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6,5 mm
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver
design of the surface / of the connections / on the bottom of the switch $(N, 2, 4, 6)$	Tin
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0

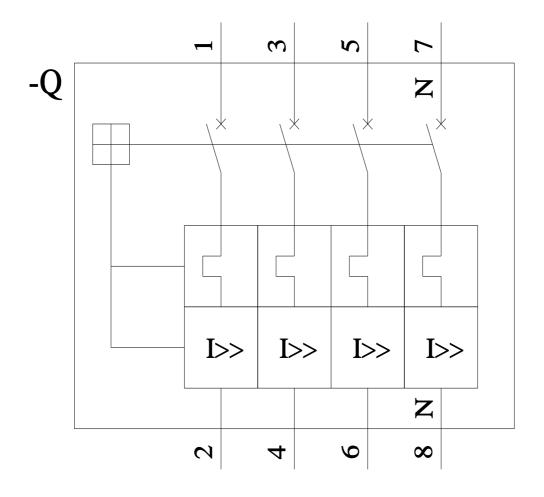
Accessories							
product extension / o	ptional / motor drive	Ye	S				
Environmental condi							
protection class IP / c		IP4	40				
ambient temperature							
 during operatio 		-2!	5 °C				
 during operatio 			°C				
 during storage 			D°C				
 during storage 			°C				
Certificates							
	ording to IEC 81346-2	Q					
General Product A		Q			EMC		
General Product A	ppiovai						
<u>Confirmation</u>	CCC		<u>Miscellaneous</u>	EHC	RCM		
Declaration of Con	formity	Test Certificates			Marine / Shipping		
	•						
CE EG-Konf.	UK CA	<u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS		
Marine / Shipping				other			
BUREAU VERITAS	Ĵ Å	RMRS	<u>CCS / China Classi-</u> fication Society	<u>Confirmation</u>	<u>Miscellaneous</u>		
other	Environment						
<u>Miscellaneous</u>	Environmental Con- firmations						
Further information							
	ed to exit the Russian i	narket (see here).					
https://press.siemens	s.com/global/en/pressrel	ease/siemens-wind-o					
	on the renewal of the				c i i i i		
			of the EAC certification if		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 (Onlin				、 、			
Service&Support (N	lanuals, Certificates, C	haracteristics, FAC		2			
	https://support.industry.siemens.com/cs/ww/en/ps/3VA1163-3GF42-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,)						
http://www.automatio	n.siemens.com/bilddb/c						
CAx-Online-Generator							
http://www.siemens.com/cax							
Tender specifications http://www.siemens.com/specifications							







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