SIEMENS

Data sheet

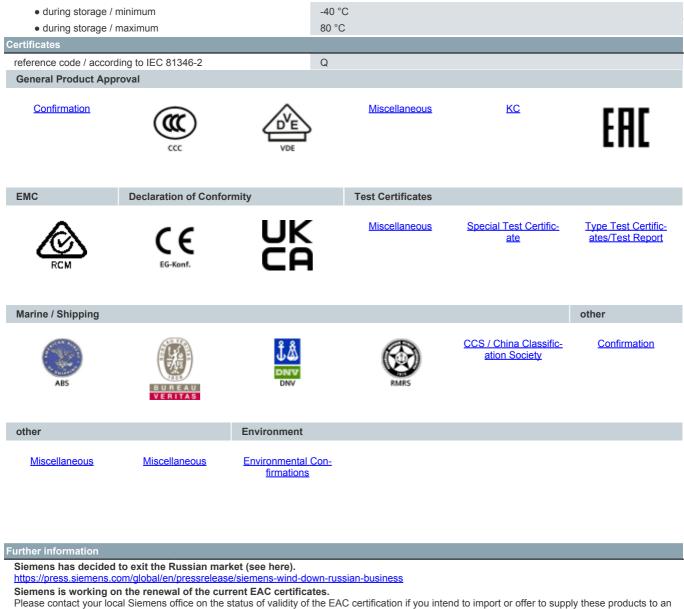
3VA1120-5GD42-0AA0



circuit breaker 3VA1 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 4-pole, line protection TM210, FTFM, In=20A overload protection Ir=20A fixed short-circuit protection Ii=16 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	TM210	
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	12 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	1.2 kg	
Current		
operational current		
• at 40 °C	20 A	
• at 45 °C	20 A	
• at 50 °C	20 A	
• at 55 °C	20 A	
• at 60 °C	19 A	
• at 65 °C	19 A	
• at 70 °C	19 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	Μ	
maximum short-circuit current breaking capacity (Icu)		
• 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	
operating short-circuit current breaking capacity (lcs)		

• at 240 V	85 kA		
● at 415 V	55 kA		
● at 440 V	36 kA		
• at 500 V	5 kA		
• at 690 V	5 kA		
short-circuit current making capacity (Icm)			
• at 240 V	187 kA		
• at 415 V	121 kA		
• at 440 V	75.6 kA		
● at 500 V	17 kA		
• at 690 V	17 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	20 A		
• maximum	20 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	320 A		
maximum	320 A		
adjustable setting current (InN) / for N-tripping			
• minimum	20 A		
• maximum	20 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 / optional / motor drive	Yes		
Environmental conditions			
protection class IP / on the front	IP40		
ambient temperature			
during operation / minimum	-25 °C		
÷ ·			
 during operation / maximum 	70 °C		



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=3VA1120-5GD42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1120-5GD42-0AA0

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

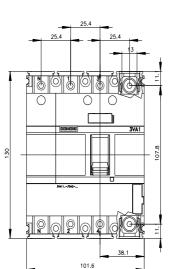
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1120-5GD42-0AA0

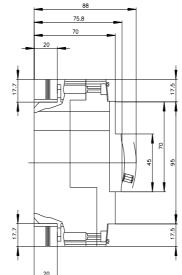
CAx-Online-Generator

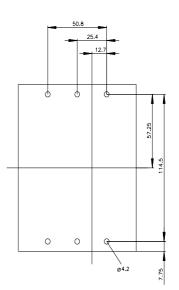
http://www.siemens.com/cax

Tender specifications

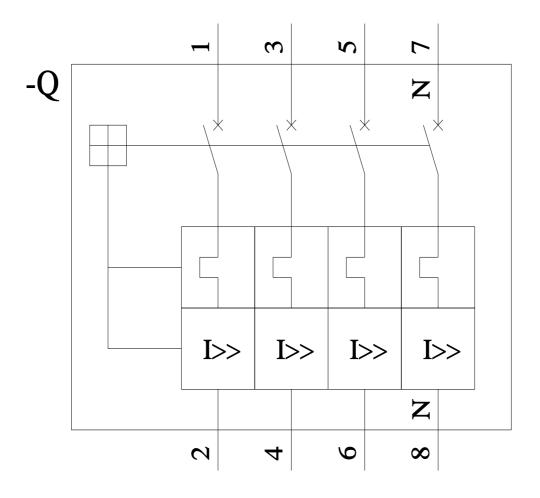
http://www.siemens.com/specifications







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