3VA1120-5MH32-0AA0

Data sheet



circuit breaker 3VA1 IEC Frame 160 breaking capacity class M Icu=55 kA @ 415 V 3-pole, starter protection TM120M, AM, In=20 A without overload protection short-circuit protection Ii=7...16 x In nut keeper kit

SENTRON		
Molded case circuit breaker		
Starter protection		
TM120M		
T. Control of the Con		
3		
General technical data		
800 V		
690 V		
12 W		
20 000		
9 000		
6 300		
No		
Without		
No		
No		
935 g		
Current		
20 A		
19 A		
19 A		
19 A		
Switching capacity according to IEC 60947		
M		
85 kA		
55 kA		
36 kA		
50 KA		
5 kA		
5 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	7.5 kA
● at 690 V	7.5 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	Опарка
adjustable response value setting current (li) / for l-tripping	
minimum	140 A
maximum	320 A
	320 A
adjustable setting current (InN) / for N-tripping	0.0
• minimum	0.4
maximum product function / grounding protection	0 A
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]	3 in
width	76.2 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	Tin
switch (N, 2, 4, 6)	
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
during operation / maximum during storage / minimum	-40 °C
during storage / maximum during storage / maximum	80 °C
Environmental footprint	
	Voc
Environmental Product Declaration(EPD)	Yes 100 kg
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
Global Warming Potential [CO2 eq] / after end of life	-0.826 kg
reference code / according to IEC 81346-2	Q
Approvals / Certificates	

General Product Approval







Confirmation



Miscellaneous

General Product Approval

EMV

Test Certificates

KC





Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping

other





CCS (China Classification Society)

Confirmation

Miscellaneous

Miscellaneous

Environment





Environmental Confirmations

Environmental Confirmations

Further information

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1120-5MH32-0AA0}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1120-5MH32-0AA0

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

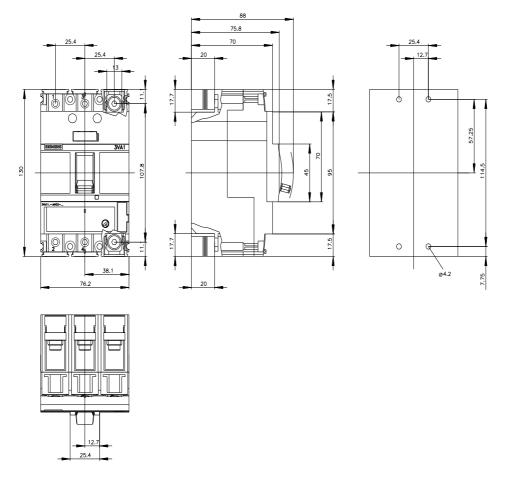
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1120-5MH32-0AA0

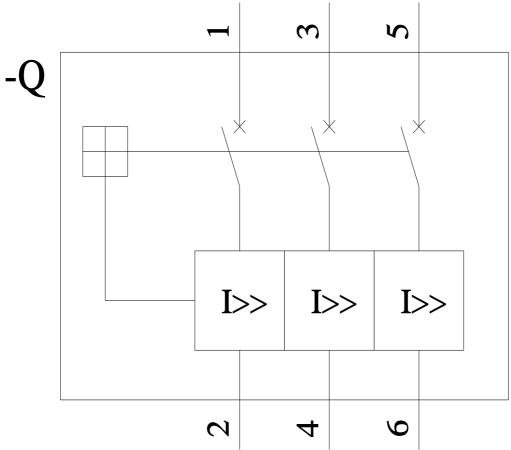
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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