## 3VA1580-7MH32-0AA0

**Data sheet** 



circuit breaker 3VA1 IEC frame 1000 breaking capacity class C Icu=110kA @ 415V 3-pole, starter protection TM120M, AM, In=800A without overload protection short-circuit protection Ii=6...12 x In nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Starter protection
design of the overcurrent release	TM120M
protection function of the overcurrent release	T.
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	210 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	70 W
mechanical service life (operating cycles) / typical	10 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 600
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 200
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	13.895 kg
Current	
operational current	
• at 40 °C	800 A
• at 45 °C	800 A
● at 50 °C	800 A
● at 55 °C	780 A
• at 60 °C	761 A
• at 65 °C	741 A
● at 70 °C	722 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	200 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	70 kA
• at 690 V	35 kA
operating short-circuit current breaking capacity (Ics)	

● at 240 V	150 kA	
● at 415 V	85 kA	
● at 440 V	70 kA	
● at 500 V	65 kA	
● at 690 V	19 kA	
short-circuit current making capacity (Icm)		
● at 240 V	440 kA	
● at 415 V	242 kA	
● at 440 V	242 kA	
● at 500 V	154 kA	
● at 690 V	73.5 kA	
design of short-circuit protection	For switching power values in DC networks, see the 3VA breaker device manual; link to be found under Service & chapter	
Adjustable parameters		
adjustable response value setting current (li) / for I-tripping		
• minimum	4 800 A	
• maximum	9 600 A	
adjustable setting current (InN) / for N-tripping		
• minimum	800 A	
maximum	800 A	
product function / grounding protection	No	
Mechanical Design		
product component		
<ul> <li>undervoltage release</li> </ul>	No	
<ul> <li>voltage trigger</li> </ul>	No	
trip indicator	No	
height [in]	12.6 in	
height	320 mm	
width [in]	8.27 in	
width	210 mm	
depth [in]	4.72 in	
depth	120 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	20 x 4 mm	
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	50 x 28 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)	Silver	
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	No	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
during operation / minimum	-25 °C	
during operation / maximum	70 °C	
during storage / minimum	-40 °C	
during storage / maximum	0°C	
Certificates		
reference code / according to IEC 81346-2	Q	F110
General Product Approval		EMC



Confirmation



**Miscellaneous** 





**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





**Miscellaneous** 

Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping

other

Environment





Confirmation

**Miscellaneous** 

**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=3VA1580-7MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1580-7MH32-0AA0

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

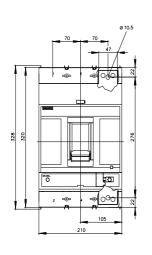
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1580-7MH32-0AA0

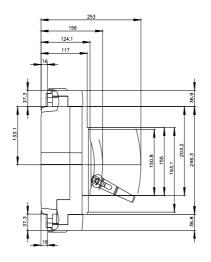
**CAx-Online-Generator** 

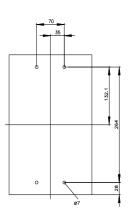
http://www.siemens.com/cax

Tender specifications

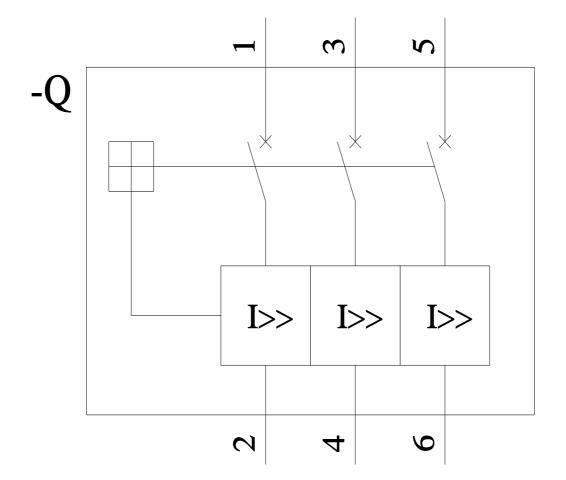
http://www.siemens.com/specifications











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