SIEMENS

Data sheet

3VA1580-5MH32-0AA0



circuit breaker 3VA1 IEC Frame 1000 breaking capacity class M Icu=55 kA @ 415 V 3-pole, starter protection TM120M, AM, In=800 A 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	1			
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				
 communication function 	No			
 other measurement function 	No			
Net Weight	13.343 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	Μ			
maximum short-circuit current breaking capacity (Icu)				
• at 240 V	85 kA			
● at 415 V	55 kA			
• at 440 V	55 kA			
• at 500 V	36 kA			
• at 690 V	25 kA			
operating short-circuit current breaking capacity (lcs)				

• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	19 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	121 kA
• at 500 V	75.6 kA
• at 690 V	52.5 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	
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	
 undervoltage release 	No
 voltage trigger 	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	80 °C
reference code / according to IEC 81346-2	Q
Approvals / Certificates	
General Product Approval	

CE EG-Konf.	UK CA	<u>Confirmation</u>			<u>Miscellaneous</u>
General Product Ap- proval	EMV	Test Certificates			Marine / Shipping
EAC	RCM	<u>Miscellaneous</u>	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping		other			Environment
	Llovd's Register uis	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Miscellaneous</u>	Environmental Con- firmations
Environment					
Environmental Con-					

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) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1580-5MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1580-5MH32-0AA0

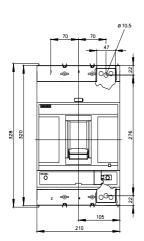
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

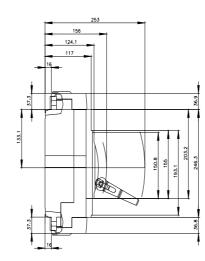
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1580-5MH32-0AA0

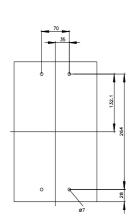
CAx-Online-Generator

http://www.siemens.com/cax

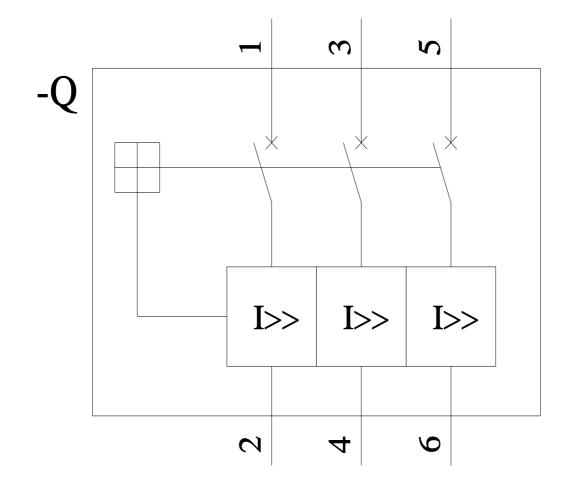
Tender specifications http://www.siemens.com/specifications







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