SIEMENS

Data sheet

3VA5111-1MH32-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=110A without overload protection short-circuit protection Ii=5...12 x In nut keeper kit on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
Product version	Starter protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High- Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM120M
protection function of the overcurrent release	1
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	23.2 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.73 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	without
product function	
 communication function 	No
 phase failure detection 	No
 other measurement function 	No
Net Weight	1.034 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	110 A
● at 45 °C	107 A
● at 50 °C	105 A

• at 55 °C	103	3 A	
● at 60 °C	100) A	
• at 65 °C	98 /	A	
• at 70 °C	96 /	A	
Switching capacity according to IEC 60947			
breaking capacity maximum short-circuit current	t (Icu)		
• at 240 V	150) kA	
• at 415 V	70	kA	
• at 690 V	10	kA	
breaking capacity operating short-circuit current			
• at 240 V	150) kA	
• at 415 V	70	kA	
• at 690 V	5 k/		
short-circuit current making capacity (lcm)			
• at 240 V	330) kA	
• at 415 V	154		
• at 690 V	17		
design of short-circuit protection	circ	switching power values in DC networks, see the 3VA molded case wit breaker device manual; link to be found under Service & Support	
Adjustable parameters		he last chapter	
Adjustable parameters	ON/OFF No		
Ground fault protection / tripping switchable / 12			
Mechanical Design			
height [in]	5.5		
Height) mm	
width [in]	3 in		
Width		2 mm	
depth [in]	3.01		
depth	76.8	5 mm	
Connections			
arrangement of electrical connectors / for main circuit	current From	nt connection	
type of electrical connection / for main current c	ircuit nut	nut keeper kit on both ends	
Type of connectable conductor cross-section, construction, width x thickness, min.	onnection 12 >	x 1 mm	
Type of connectable conductor cross-section, conscrew, width x thickness , max.	onnection 17 >	17 x 6.5 mm	
Auxiliary circuit			
product component			
undervoltage release	No		
voltage trigger	No		
trip indicator	No		
number of CO contacts / for auxiliary contacts	0		
Accessories	0		
product extension / optional / motor drive	Yes		
Environmental conditions	165		
protection class IP / on the front	IP4	0	
ambient temperature	124	U C	
 during operation / minimum 	-25	°C	
during operation / minimumduring operation / maximum	-25 70 °	°C °C	
 during operation / minimum during operation / maximum during storage / minimum 	-25 70 ° -40	℃ ℃ ℃	
 during operation / minimum during operation / maximum during storage / minimum during storage / maximum 	-25 70 °	℃ ℃ ℃	
during operation / minimum during operation / maximum during storage / minimum during storage / maximum Certificates	-25 70 ° -40 80 °	℃ ℃ ℃	
during operation / minimum during operation / maximum during storage / minimum during storage / maximum Certificates reference code / according to IEC 81346-2	-25 70 ° -40 80 °	°C °C °C °C	
during operation / minimum during operation / maximum during storage / minimum during storage / maximum Certificates reference code / according to IEC 81346-2 certificate of suitability / as approval for NAVAL combat vessels) / supplement SB	-25 70 ° -40 80 °	°C °C °C °C	







Miscellaneous

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=3VA5111-1MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5111-1MH32-0AA0

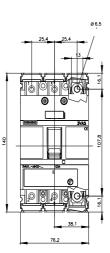
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5111-1MH32-0AA0

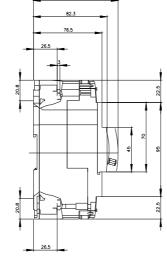
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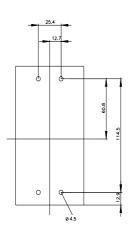
http://www.siemens.com/cax

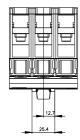
Tender specifications

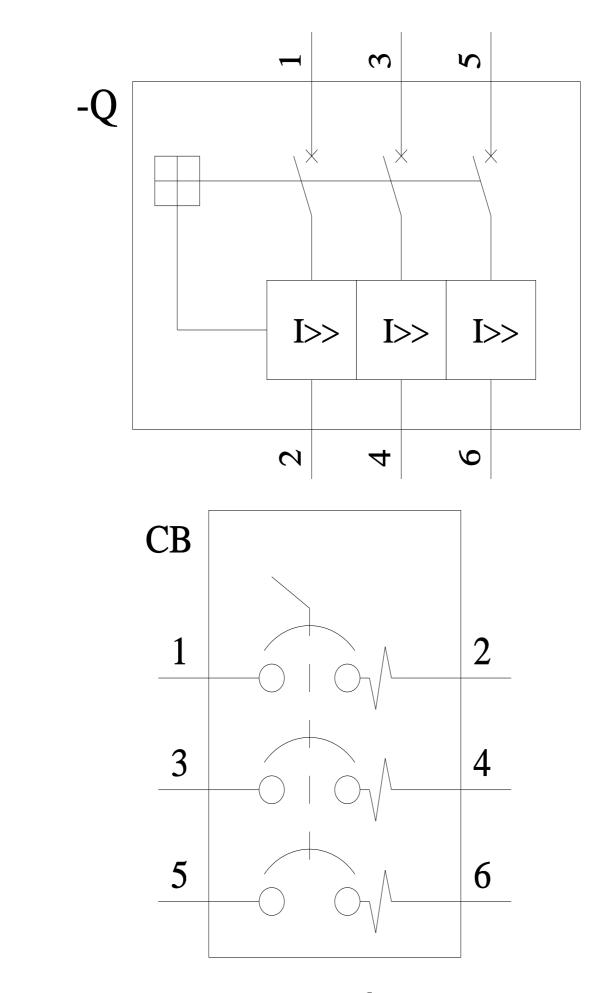
http://www.siemens.com/specifications











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