Data sheet

circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=7A without overload protection short-circuit protection li=5...12 x In without connection



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 / acc. to UL 489 / Heating,	Yes	
Air Conditioning, and Refrigeration circuit breaker		
(HACR Type)		
Design of the overcurrent release	TM110M	
Protective function of the overcurrent release	1	
Number of poles	3	

General technical data		
Rated insulation voltage Ui	800 V	
Max. rated operational voltage Ue with AC 50/60Hz	690 V	
Power loss [W] / maximum	3 W	
Active power loss / for rated value of the current / at	1 W	
AC / in hot operating state / per pole		
Latching - endurance	15 000	

Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at	4 000
690 V 50/60 Hz	
Electrical endurance (switching cycles) / at 480 V / at	8 000
50/60 Hz	
Electrical endurance (switching cycles) / at 600 V / at	4 000
50/60 Hz	
Neutral conductors / upgradeable/retrofittable	No
Ground fault monitoring version	Without
Product function	
 communication function 	No
other measurement function	No
Electricity	
Marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational voltage of the size of the circuit-breaker	125 A
Rated continuous current lu	7 A
Operating current	
● at 40 °C	7 A
● at 45 °C	7 A
● at 50 °C	7 A
● at 55 °C	7 A
• at 60 °C	7 A
● at 65 °C	7 A
● at 70 °C	7 A
Adjustable parameters	
Ground fault protection / tripping switchable /	No
I2t=ON/OFF	
Mechanical Design	
Height [in]	5.5 in
Height	140 mm
Width [in]	3 in
Width	76.2 mm
Depth [in]	3 in
Depth	76.5 mm
Connections	
Arrangement of electrical connectors / for main current circuit	Without connection
Type of electrical connection / for main current circuit	Without
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 storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	

Reference code / acc. to DIN EN 81346-2 Q Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB

Yes

General Product	EMC	Shipping Approval	other
Approval			







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=3VA5107-1MH31-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5107-1MH31-0AA0

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

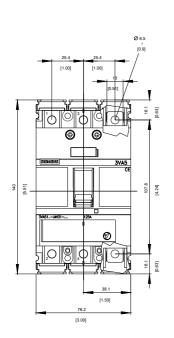
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5107-1MH31-0AA0

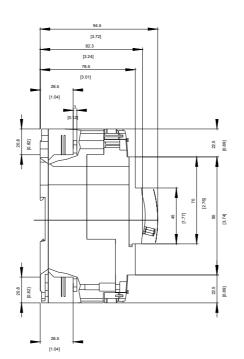
CAx-Online-Generator

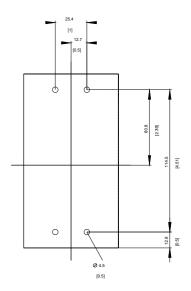
http://www.siemens.com/cax

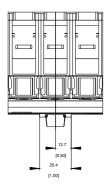
Tender specifications

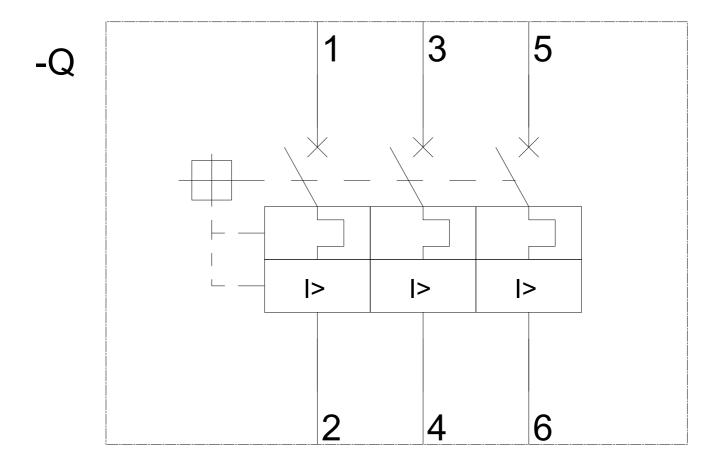
http://www.siemens.com/specifications

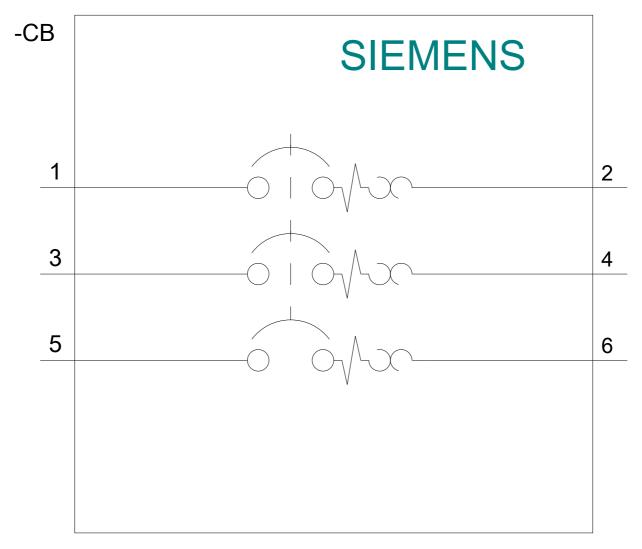












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