## SIEMENS

## Data sheet

## 3VA5102-1MH32-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=2A 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	4 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.43 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			
<ul> <li>communication function</li> </ul>	No		
<ul> <li>phase failure detection</li> </ul>	No		
<ul> <li>other measurement function</li> </ul>	No		
Net Weight	0.811 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
operational current			
• at 40 °C	2 A		
● at 45 °C	2 A		
● at 50 °C	2 A		

● at 55 °C		2 A			
● at 60 °C		2 A			
● at 65 °C		2 A			
• at 70 °C		2 A			
Switching capacity according to IEC 60947					
breaking capacity maximum short-circuit curr	ent (Icu)				
• at 240 V		150 k	A		
• at 415 V		70 kA			
● at 690 V		10 kA			
breaking capacity operating short-circuit curr	ent (Ics)				
• at 240 V		150 kA			
• at 415 V		70 kA			
• at 690 V		5 kA			
short-circuit current making capacity (Icm)					
• at 240 V		330 k	A		
● at 415 V		154 k	A		
● at 690 V		17 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					
Ground fault protection / tripping switchable /	I2t=ON/OFF	No			
Mechanical Design					
height [in]		5.51 in			
Height		140 mm			
width [in]		3 in			
Width		76.2 mm			
depth [in]		3.01 in			
depth		76.5 mm			
Connections					
arrangement of electrical connectors / for ma circuit	in current	Front connection			
type of electrical connection / for main current	t circuit	nut keeper kit on both ends			
Type of connectable conductor cross-section screw, width x thickness , min.		12 x 1 mm			
Type of connectable conductor cross-section screw, width x thickness , max.	, connection	17 x 6.5 mm			
Auxiliary circuit					
product component					
undervoltage release		No			
voltage trigger		No			
trip indicator		No			
number of CO contacts / for auxiliary contact	s	0			
Accessories					
product extension / optional / motor drive		Yes			
Environmental conditions					
		IP40			
ambient temperature					
<ul> <li>during operation / minimum</li> </ul>		-25 °C			
during operation / maximum		70 °C			
<ul> <li>during storage / minimum</li> </ul>		-40 °C			
<ul> <li>during storage / maximum</li> </ul>		80 °C			
Certificates					
reference code / according to IEC 81346-2		Q			
certificate of suitability / as approval for NAV/ combat vessels) / supplement SB	AL (no	Yes			
General Product Approval	EMC		Marine / Shipping	other	
			11 3		







**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=3VA5102-1MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5102-1MH32-0AA0

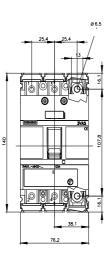
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5102-1MH32-0AA0

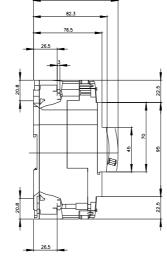
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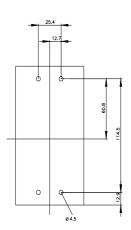
http://www.siemens.com/cax

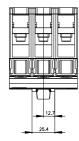
**Tender specifications** 

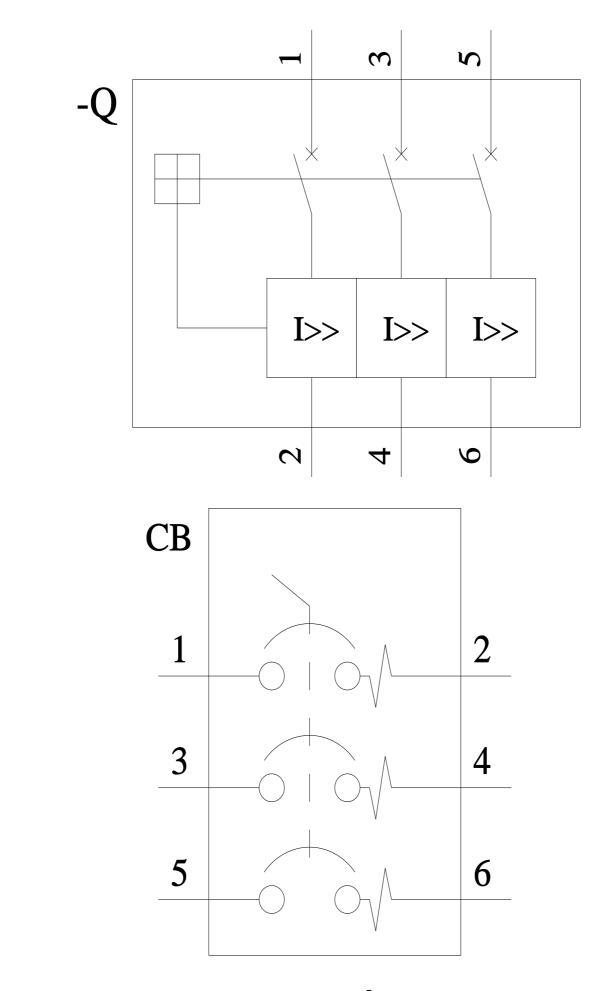
http://www.siemens.com/specifications











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