## SIEMENS

## Data sheet

## 3VA5220-0MU32-0AA0



circuit breaker 3VA5 UL frame 250 3-pole, starter protection TM120M, AM, In=200A without overload protection short-circuit protection Ii=3...6 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	HFAP		
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	34.8 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	11.6 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	2.252 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
operational current			
• at 40 °C	200 A		
● at 45 °C	200 A		
● at 50 °C	200 A		

● at 55 °C	200 A			
• at 60 °C	200 A 200 A			
• at 65 °C				
• at 70 °C	200 A			
Switching capacity according to IEC 60947				
breaking capacity maximum short-circuit current (Icu)				
• at 240 V	100 kA			
• at 415 V	70 kA			
• at 690 V	10 kA			
breaking capacity operating short-circuit current (lcs)				
• at 240 V	100 kA			
• at 415 V	70 kA			
• at 690 V	10 kA			
short-circuit current making capacity (Icm)				
• at 240 V	220 kA			
• at 415 V	154 kA			
• 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]	7.28 in			
Height	185 mm			
width [in]	4.13 in			
Width	105 mm			
depth [in]	3.27 in			
depth	83 mm			
Connections				
Connections arrangement of electrical connectors / for main current circuit	Front conne	ction		
arrangement of electrical connectors / for main current		ction it on both ends		
arrangement of electrical connectors / for main current circuit				
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection	nut keeper k			
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection	nut keeper k 13 x 1 mm			
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**Confirmation** 







CE EG-Konf.

Marine / Shipping

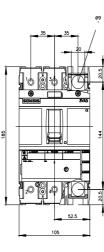


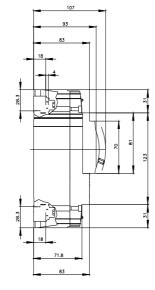
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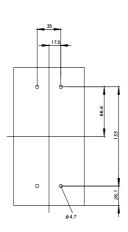
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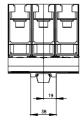
## Further information

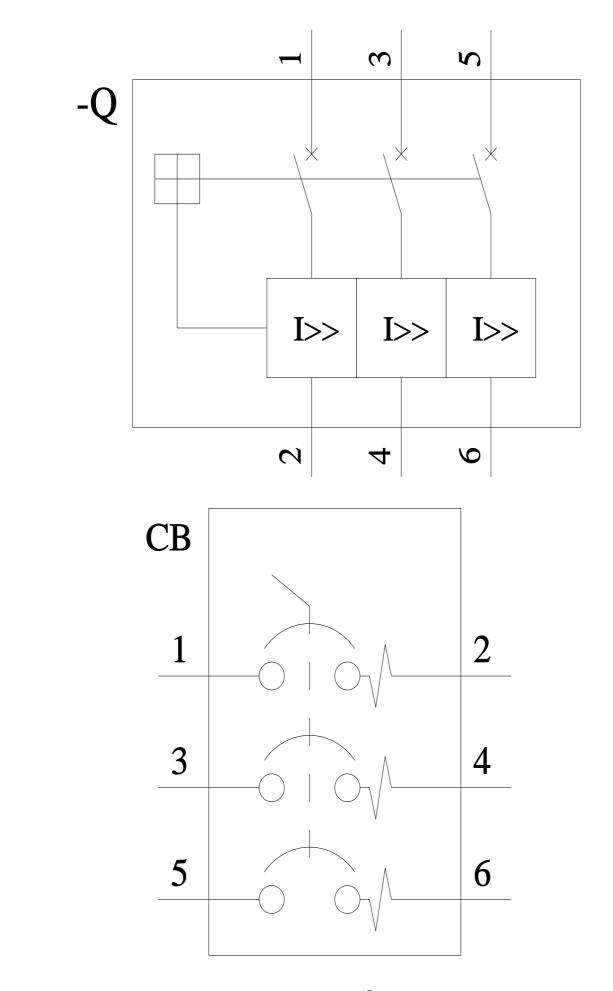
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7/15/2022 🖸

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