3VA5220-1MH32-0AA0

Data sheet



circuit breaker 3VA5 UL frame 250 3-pole, starter protection TM120M, AM, In=200A without overload protection short-circuit protection li=6...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	CFAP
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	
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	
 communication function 	No
 phase failure detection 	No
other measurement function	No
Net Weight	2.192 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
• at 65 °C	200 A
● at 70 °C	200 A
Switching capacity according to IEC 60947	
breaking capacity maximum short-circuit current (Icu)	
● at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	10 kA
breaking capacity operating short-circuit current (Ics)	
• at 240 V	200 kA
• at 415 V	110 kA
● at 690 V	10 kA
short-circuit current making capacity (Icm)	
● at 240 V	440 kA
• at 415 V	242 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	
arrangement of electrical connectors / for main current circuit	Front connection
arrangement of electrical connectors / for main current	Front connection nut keeper kit on both ends
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.	nut keeper kit on both ends 13 x 1 mm
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 kit on both ends
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 screw, width x thickness, max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	nut keeper kit on both ends 13 x 1 mm
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Confirmation









Marine / Shipping

other



Miscellaneous

Further information

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=3VA5220-1MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-1MH32-0AA0

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

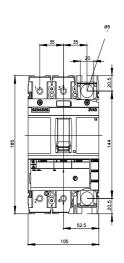
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-1MH32-0AA0

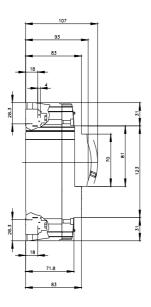
CAx-Online-Generator

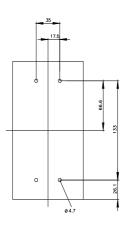
http://www.siemens.com/cax

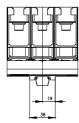
Tender specifications

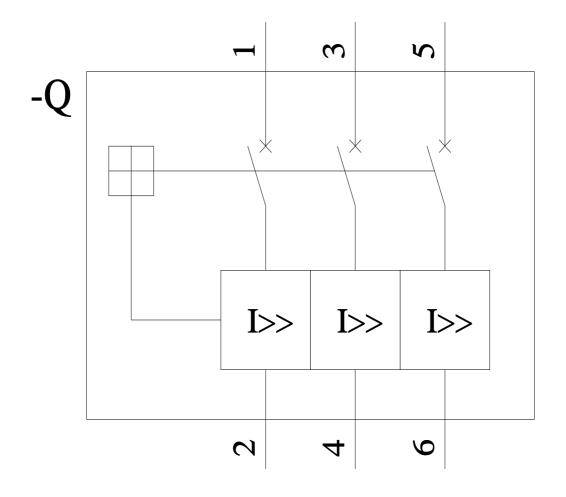
http://www.siemens.com/specifications

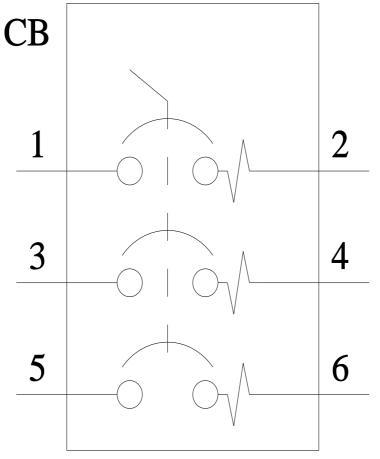












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