SIEMENS

Data sheet

3VA5220-5EC36-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=200A overload protection Ir=200A fixed short-circuit protection Ii=5...10 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	MFAM		
Product version	System 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	TM230		
protection function of the overcurrent release	Ц		
number of poles	3		
General technical data			
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	43 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14.17 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		
other measurement function	No		
Net Weight	2.2 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
operational current			
● at 40 °C	200 A		
● at 45 °C	194 A		
• at 50 °C	189 A		
• at 55 °C	183 A		
• at 60 °C	178 A		

* at 70 °C Switching capacity according to IEC 60947 switching capacity class of the circuit breaker 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 Switching capacity according to UL 489 breaking capacity current • at 240 V • at 480 V • at 600 V Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ig min. Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design Height Height 185 mm width [in] 7.28 in Height 185 mm Width depth [in] 3.27 in	● at 65 °C	172 /	4			
Switching capacity according to IEC 60947 switching capacity class of the circuit breaker 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 Switching capacity according to UL 489 breaking capacity current • at 240 V • at 480 V • at 600 V Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ig min. Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design height [in] 7.28 in Height width [in] 4.13 in Width 105 mm depth [in] 3.27 in						
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	Switching capacity according to UL 489					
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Mechanical Design height [in] 7.28 in Height 185 mm width [in] 4.13 in Width 105 mm depth [in] 3.27 in	Adjustable response value current / lg min.	200 /	A			
height [in] 7.28 in Height 185 mm width [in] 4.13 in Width 105 mm depth [in] 3.27 in	Ground fault protection / tripping switchable / I2t=ON/OFF	No				
Height 185 mm width [in] 4.13 in Width 105 mm depth [in] 3.27 in	Mechanical Design					
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Width 105 mm depth [in] 3.27 in	Height	185 mm				
depth [in] 3.27 in	width [in]	4.13 in				
	Width	105 mm				
don'th 92 mm	depth [in]	3.27 in				
deptil 65 min	depth	83 mm				
Connections	Connections					
arrangement of electrical connectors / for main current circuit Front connection		Front connection				
type of electrical connection / for main current circuit circular conductor terminal on both sides	type of electrical connection / for main current circuit	circular conductor terminal on both sides				
Type of connectable conductor cross-section, round conductor terminal, stranded 1 x (6 AWG - 350 kcmil)		1 x (6 AWG - 350 kcmil)				
Auxiliary circuit	Auxiliary circuit					
product component	product component					
• undervoltage release No	 undervoltage release 	No	No			
• voltage trigger No	 voltage trigger 	No	No			
• trip indicator No	trip indicator	No	No			
number of CO contacts / for auxiliary contacts 0	number of CO contacts / for auxiliary contacts	0				
Accessories	Accessories					
product extension / optional / motor drive Yes	product extension / optional / motor drive	Yes				
Environmental conditions	Environmental conditions					
protection class IP / on the front IP40	protection class IP / on the front	IP40	IP40			
ambient temperature	ambient temperature					
• during operation / minimum -25 °C	during operation / minimum	-25 °	-25 °C			
• during operation / maximum 70 °C	during operation / maximum	70 °C	70 °C			
• during storage / minimum -40 °C	 during storage / minimum 	-40 °	-40 °C			
during storage / maximum 80 °C	 during storage / maximum 	80 °C				
Certificates	Certificates					
certificate of suitability / as approval for NAVAL (no Yes combat vessels) / supplement SB		Yes				
General Product Approval EMC Declaration of Conformity	General Product Approval		EMC	Declaration of Conformity		



Confirmation









Marine / Shipping

other

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=3VA5220-5EC36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-5EC36-1AA0

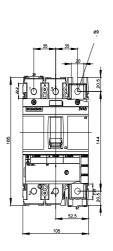
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-5EC36-1AA0

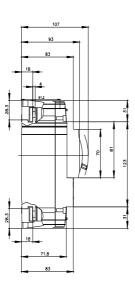
CAx-Online-Generator

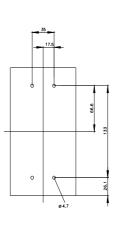
http://www.siemens.com/cax

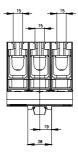
Tender specifications

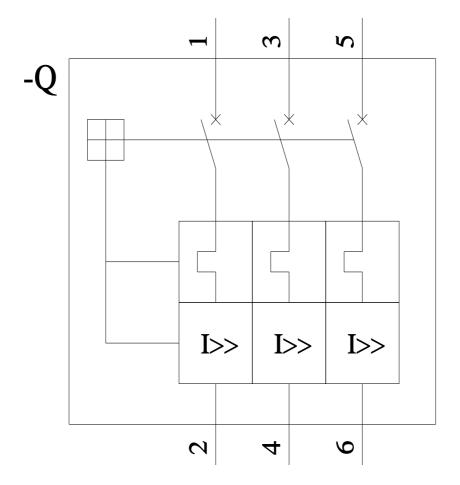
http://www.siemens.com/specifications

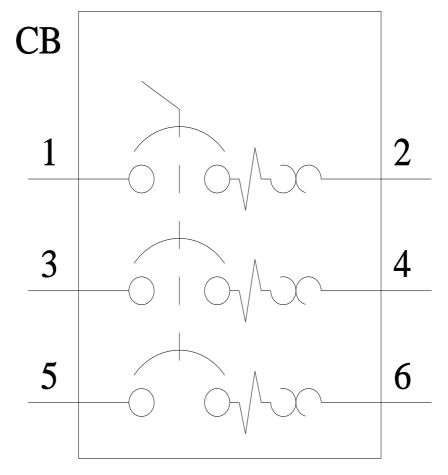












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