SIEMENS

Data sheet

3VA5222-5EC36-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=225A overload protection Ir=225A 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	LI			
number of poles	3			
General technical data				
operating voltage / at AC / rated value	690 V			
power loss [W] / maximum	51 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	17.07 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	2.248 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
● at 40 °C	225 A			
● at 45 °C	220 A			
● at 50 °C	216 A			
● at 55 °C	211 A			
● at 60 °C	206 A			

● at 65 °C	201 A	4			
• at 70 °C	197 A				
Switching capacity according to IEC 60947	1017				
switching capacity class of the circuit breaker	M				
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	85 kA				
• at 480 V	35 kA				
● at 600 V	18 kA				
Adjustable parameters					
Adjustable response value current / lg min.	225 A				
Adjustable response value current / lg min.	225 A	225 A			
Ground fault protection / tripping switchable / I2t=ON/OFF	No				
Mechanical Design					
height [in]	7.28 in				
Height	185 r	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				
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)				
Auxiliary circuit					
product component					
undervoltage release	No				
 voltage trigger 	No				
trip indicator	No				
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					
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes				
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=3VA5222-5EC36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-5EC36-1AA0

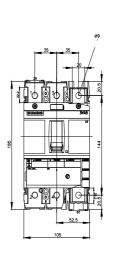
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5222-5EC36-1AA0

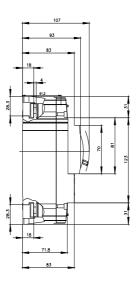
CAx-Online-Generator

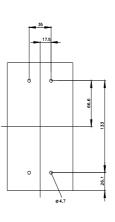
http://www.siemens.com/cax

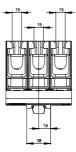
Tender specifications

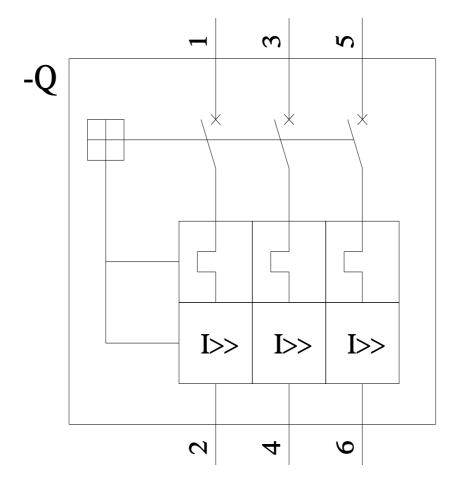
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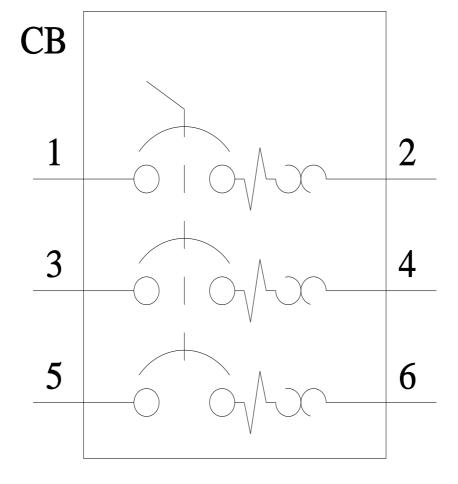












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