SIEMENS

Data sheet

3VA5215-7EC36-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM230, FTAM, In=150A overload protection Ir=150A 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	CFAM		
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	30 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	9.7 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	2.26 kg		
Current			
marking / according to UL 489 / 100%-rated breaker	No		
operational current			
● at 40 °C	150 A		
● at 45 °C	146 A		
● at 50 °C	141 A		
● at 55 °C	137 A		
● at 60 °C	132 A		

e at 70 °C Switching capacity according to IEC 60847 Switching capacity class of the circuit breaker C design of short-circuit protection circuit breaker device manual; link to be found under Service & Support in the last chapter Switching capacity current e at 240 V 200 kA 21 480 V 35 kA Adjustable parameters Adjustable response value current / Ig min. Fromouf fault protection / tripping switchable / I2t=0N/OFF No Mechanical Design Height 185 mm width [in] 4.13 in Width 105 mm depth [in] 3.27 in depth [in] 3.27 in depth [in] 3.27 in depth [in] 3.27 in depth [in] 4.13 in Vividen 105 mm Connections arrangement of electrical connectors / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxillary circuit product component • undervoltage release • voltage trigger • voltage release • voltage trigger • voltage release • voltage trigger • voltage release • voltage trigger • voltage trigger • voltage release • voltage trigger • voltage release • voltage trigger • voltage release • volt	● at 65 °C	128 A	1				
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 according to UL 489 capacity according to UL 489 breaking capacity according to UL 489 breaking capacity according to UL 489 capacity according to UL 489 breaking capacity according to UL 489 capacity according to UL 489 breaking capacity according to UL 489 capacity according to U							
switching capacity class of the circuit breaker design of short-circuit protection design of short-circuit protection Switching capacity according to UL 483 breaking capacity current at 240 V at 480 V at 480 V at 500 V Adjustable parameters Adjustable parameters Adjustable response value current / ig min. Adjustable response value current / ig min. Height [in] Height [in] Height [in] Adjustable response value current / ig min. 150 A Switching capacity current at 500 V Switching capacity current Adjustable response value current / ig min. Adjustable response value current / ig min. 150 A Switching capacity current Adjustable response value current / ig min. 150 A Adjustable response value current / ig min. 150 A Corount fault protection / tripping switchable / I2t=ON/OFF Mochanical Design Neight [in] 7.28 in Height 185 mm width [in] 4.13 in Width 105 mm depth 6.3 22 in depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit Product component • undervoltage release • voltage trigger • trip indicator No number of CO contacts / for auxiliary contacts Accessories product exponent on front front • during operation / maximum • during operation / minimum • during operation / minimum • during storage / mi		1207					
Switching capacity according to UL 489		С					
breaking capacity current at 240 V at 480 V at 480 V 35 kA Adjustable parameters Adjustable response value current / Ig min. Brown facult protection / tripping switchable / Izt=ON/OFF No Mechanical Design Height [In] 7.28 in Height 185 mm Width 195 mm depth 19, 3.27 in depth 3.3.27 in depth 3.3.27 in depth 3.3.27 in depth 3.3.27 in depth 19, 3.27 in depth 105 mm Adjustable response value current circuit Type of electrical connectors / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component Undervoltage release Voltage trigger Voltage		For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support					
at 240 V at 480 V at 480 V at 600 V 35 kA 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 185 mm width [in] 4.13 in Width 105 mm depth [in] 3.27 in depth (in) 3.27 in depth (in) 3.27 in depth (in) 150 mm depth (i	Switching capacity according to UL 489						
at 480 V 38 kA Adjustable parameters Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. 150 A Mechanical Design height [In] 7.28 in Height 185 mm width [In] 4.13 in Width 105 mm depth [In] 3.27 in depth 8.3 mm Connections arrangement of electrical connectors / for main current circuit Type of connectable conductor ross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release No • voltage trigger No • voltage trigger No Aucossories Product extension / optional / motor drive Yes Environmental conditions product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum 70 °C • during operation / maximum 70 °C • during storage / maximum 80 °C Certificates certificate of sultability / as approval for NAVAL (no combat vessels) / supplement SS	breaking capacity current						
Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Is min. Adjustable response value / Is min. Adjustable response value / Is min. Adjustable response value / Is no. Adjustable response valu	• at 240 V	200 k	rA				
Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ig min. Acround fault protection / tripping switchable / I2t=ON/OFF Mechanical Design height [in] At 35 m Width 185 mm Width 105 mm depth [in] 3.27 in depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front eduring operation / minimum • during operation / minimum • during storage / maximum • during storage / minimum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / minimum • during storage / maximum • during storage / maximum • during storage / minimum • during storage / maximum • during storage / minimum • during storage / maximum	● at 480 V	100 k	rA A				
Adjustable response value current / Ig min. Adjustable response value current / Ig min. 150 A Adjustable response value current / Ig min. Front onnection / tripping switchable / I2t=ON/OFF No Mechanical Design height [in] 17.28 in Height 188 mm width [in] 4.13 in Width 105 mm depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • virp indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front eduring operation / maximum • during operation / maximum • during storage / minimum • during storage / maximum Certificates certificates certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	● at 600 V	35 k/	A				
Adjustable response value current / Ig min. Ground fault protection / tripping switchable / I2t=ON/OFF Mochanical Design height [in]	Adjustable parameters						
Ground fault protection / tripping switchable / I2t=ON/OFF 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 type of electrical connection / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release No • voltage trigger No • trip indicator No number of CO contacts / for auxiliary contacts product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front IP40 ambient temperature • during operation / maximum -25 °C • during storage / maximum -40 °C • during operation / maximum -40 °C • during storage / maximum -80 °C Certificates	Adjustable response value current / lg min.	150 A	4				
Mechanical Design height [in] 7.28 in 185 mm 18	Adjustable response value current / lg min.	150 A	150 A				
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 type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component undervoltage release voltage trigger No trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front during operation / minimum during operation / minimum during operation / maximum during storage / minimum during storage / maximum evertificates certificates	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 depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit tounductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum 70 °C • during storage / minimum 40 °C • during storage / minimum 40 °C • during storage / minimum 80 °C Certificates certificates of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Mechanical Design						
width [in] Width	height [in]	7.28 in					
Width 105 mm 3.27 in depth [in] 3.27 in depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component	Height	185 mm					
depth [in] 3.27 in depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during storage / minimum • during storage / maximum * during storage / maximum * during storage / maximum * approval for NAVAL (no combat vessels) / supplement SB * Tront connection Front connection 1 x (6 AWG - 350 kcmil) 1 x (6 AWG - 350 kcmil) * 2 x (6 AWG	width [in]	4.13 in					
depth 83 mm Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit circular conductor terminal on both sides Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • duri	Width	105 mm					
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum • Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	depth [in]	3.27 in					
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • virip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / maximum • during storage / maximum certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	depth	83 mm					
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / minimum • during storage / minimum • during storage / minimum • during storage / maximum Certificates certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Connections						
Type of connectable conductor cross-section, round conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum -40 °C • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB		Front connection					
Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum -40 °C • during storage / maximum output Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	type of electrical connection / for main current circuit	circular conductor terminal on both sides					
product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum -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		1 x (6 AWG - 350 kcmil)					
 undervoltage release voltage trigger trip indicator No number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front ambient temperature during operation / minimum -25 °C during operation / maximum during storage / minimum during storage / maximum during storage / maximum certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB 	Auxiliary circuit						
 voltage trigger trip indicator No number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front ambient temperature during operation / minimum -25 °C during operation / maximum 40 °C during storage / minimum 40 °C during storage / maximum certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB 	product component						
 trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front ambient temperature during operation / minimum -25 °C during operation / maximum 40 °C during storage / minimum during storage / maximum during storage / maximum Yes Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	 undervoltage release 	No	No				
number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front 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	 voltage trigger 	No	No				
product extension / optional / motor drive Environmental conditions protection class IP / on the front 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	trip indicator	No	No				
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum 70 °C • during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	number of CO contacts / for auxiliary contacts	0					
Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum 70 °C • during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Accessories						
protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	product extension / optional / motor drive	Yes	Yes				
ambient temperature • during operation / minimum • during operation / maximum 70 °C • during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Environmental conditions						
 during operation / minimum during operation / maximum C during storage / minimum during storage / maximum during storage / maximum C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	protection class IP / on the front	IP40	IP40				
during operation / maximum during storage / minimum during storage / maximum during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB To °C -40 °C -80 °C Yes	ambient temperature						
• during storage / minimum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB -40 °C Yes	during operation / minimum	-25 °	-25 °C				
during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Yes	during operation / maximum	70 °C	70 °C				
Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	during storage / minimum	-40 °C					
certificate of suitability / as approval for NAVAL (no Yes combat vessels) / supplement SB	 during storage / maximum 	80 °C					
combat vessels) / supplement SB	Certificates						
General Product Approval EMC Declaration of Conformity		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=3VA5215-7EC36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-7EC36-1AA0

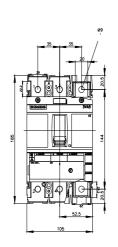
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-7EC36-1AA0

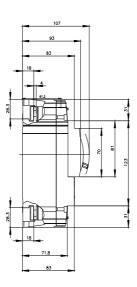
CAx-Online-Generator

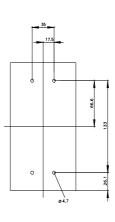
http://www.siemens.com/cax

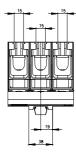
Tender specifications

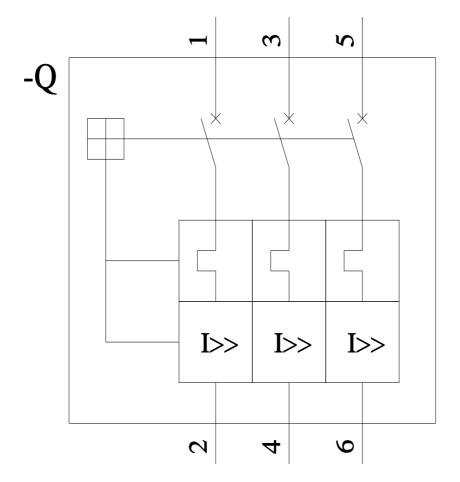
http://www.siemens.com/specifications

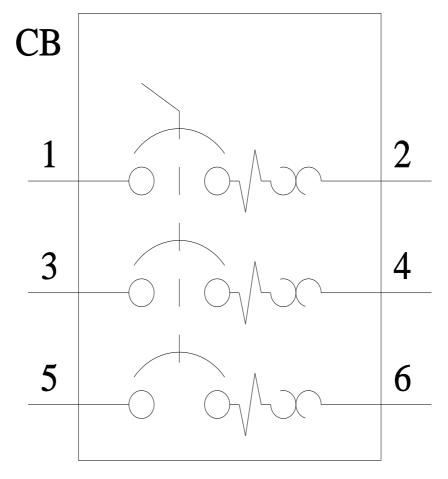












last modified: 7/15/2022 🖸