SIEMENS

Data sheet

3VA5215-6EC36-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 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

product brand name SENTRON product designation Molded-case circuit breaker product designation / according to UL file HFAM design of the load switch / according to UL 489 / Heating, Art Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HACR 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 L1 number of poles 3 Genaral tochnical data 690 V operating voltage / at AC / rated value 690 V opwer loss [W] / for rated value of the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380 V4 f V 8000 electrical endurance (operating cycles) / at AO V 8000 electrical endurance (operating cycles) / at AO V 8000 electrical endurance (operating cycles) / at AO V 8000 electrical endurance (operating cycles) / at 60 V 8000 <t< th=""><th>Model</th><th></th></t<>	Model	
product designation / according to UL file HFAM design of the product System protection design of the load switch / according to UL 489 / Heating, Air 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 (HID Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (HID Type) No design of the overcurrent release Ll number of poles 3 Central technical data 690 V power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 90 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofitable No • other measurement function No • other me	product brand name	SENTRON
design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigerater (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HIACR Type) No design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HIACR Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (HIAC Type) No design of the overcurrent release TM230 protection function of the overcurrent release Li number of poles 3 General technical data 690 V operating voltage / at AC / rated value 690 V power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 groud-fault monitoring version without <td>product designation</td> <td>Molded-case circuit breaker</td>	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Reingeration 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 / High-Intensity- Discharge circuit breaker (SWD Type) No design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No operating voltage / at AC / rated value 690 V operating voltage / at AC / rated value 690 V operating voltage / at AC / rated value 690 V operating state / per pole 97 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AO-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AO V 8 000 electrical endurance (operating cycles) / at AO V 8 000 electrical endurance (operating cycles) / at AO V 8 000 ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable No / shor	product designation / according to UL file	HFAM
Conditioning, and Refrigeration circuit breaker (HACR Type) No 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 General technical data operating voltage / at AC / rated value 690 V power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 97 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / ta 480 V 8 000 electrical endurance (operating cycles) / ta 480 V 8 000 electrical endurance (operating cycles) / ta 480 V 8 000 ground-fault monitoring version without product faulty / for rated breaker No oditault monitoring version No ether measurement function No victure / for outurat conductors / upgradable/retrofittable No	design of the product	System protection
Discharge circuit breaker (HID Type) No design of the load switch / according to UL 489 / Switching Duty No circuit breaker (SWD Type) TM230 protection function of the overcurrent release Ll number of poles 3 General technical data 690 V power loss [W] / for rated value 690 V power loss [W] / for rated value of the current / at AC / in hot 9.7 W operating soltae / act value of the current / at AC / in hot 9.7 W electrical endurance (operating cycles) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at A00 V 8 000 electrical endurance (operating cycles) / at A00 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without product feature / do 'C 150 A • other measurement function No • other measurement function		Yes
circuit breaker (SWD Type) TM20 design of the overcurrent release Ll number of poles 3 Central tochnical data 690 V operating voltage / at AC / rated value 690 V power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot 9.7 W operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / ta KC-1 / at 690 V electrical endurance (operating cycles) / ta KO V 8 000 electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V 4 000 product fault monitoring version ground-fault monitoring version without product fault monitoring version optration function No No • other measurement function No • other measurement function No • at 45 °C		No
protection function of the overcurrent release L1 number of poles 3 General technical data 690 V operating voltage / at AC / rated value 690 V power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot 9.7 W operating solate / per pole 90000 mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function 0 • other measurement function No • other measurement function No • other measurement function No • at 40 °C 150 A • at 45 °C 146 A • at 50 °C 137 A • at 50 °C 132 A • at 60 °C 132 A • at 65 °C 128 A		No
number of poles 3 General technical data 690 V power loss (W) / maximum 30 W power loss (W) / for rated value of the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / at AC-1 / at 80/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof No ground-fault monitoring version without product function No • other measurement function No • other measurement function No • at 40 °C 150 A • at 40 °C 146 A • at 45 °C 146 A • at 50 °C 137 A • at 60 °C 132 A • at 60 °C 132 A	design of the overcurrent release	TM230
General technical data operating voltage / at AC / rated value 690 V power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 80 V 8 000 electrical endurance (operating cycles) / at 80 V 8 000 electrical endurance (operating cycles) / at 80 V 8 000 electrical endurance (operating cycles) / at 80 V 8 000 electrical endurance (operating cycles) / at 80 V 8 000 ground-fault monitoring version without product function No • communication function No • other measurement function No NetWeight 2.2 kg Current Ita A • at 40 °C 150 A • at 45 °C 146 A • at 55 °C 132 A • at 65	protection function of the overcurrent release	LI
operating voltage / at AC / rated value 690 V power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at ABO V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof No ground-fault monitoring version without product function No • other measurement function No Nottright 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 150 A 146 A • at 40 °C 137 A 137 A • at 60 °C 13	number of poles	3
power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 9.7 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC 0 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof No ground-fault monitoring version without product function No • other measurement function No Nother measurement function No operational current 150 A • at 40 °C 146 A • at 50 °C 137 A • at 50 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	General technical data	
power loss [W] / for rated value of the current / at AC / in hot 9.7 W operating state / per pole 9.0 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC 0 / at 690 V 4 000 electrical endurance (operating cycles) / at AC V 8 000 electrical endurance (operating cycles) / at AC 0 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • other measurement function No • other measurement function No operational current 150 A • at 40 °C 150 A • at 45 °C 146 A • at 45 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	operating voltage / at AC / rated value	690 V
operating state / per polemechanical service life (operating cycles) / typical20 000electrical endurance (operating cycles) / at AC-1 / at 800 V8 000electrical endurance (operating cycles) / at 480 V8 000electrical endurance (operating cycles) / at 600 V4 000electrical endurance (operating cycles) / at 600 V4 000product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proofNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNo• other measurement functionNoother at 40 °C150 A• at 40 °C150 A• at 45 °C144 A• at 55 °C137 A• at 60 °C132 A• at 60 °C128 A	power loss [W] / maximum	30 W
electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • 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 150 A • at 40 °C 150 A 146 A • at 50 °C 141 A 141 A • at 55 °C 137 A 132 A • at 65 °C 128 A 128 A		9.7 W
electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof No ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °C 146 A • at 50 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof No ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 2.2 kg Current Intervention marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °C 146 A • at 50 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 2.2 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °C 150 A • at 45 °C 146 A • at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No No operational current 150 A • at 40 °C 150 A • at 45 °C 146 A • at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No No operational current 150 A • at 40 °C 150 A • at 45 °C 146 A • at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	electrical endurance (operating cycles) / at 600 V	4 000
product functionNo• communication functionNo• other measurement functionNoNet Weight2.2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNoNooperational current150 A• at 40 °C150 A• at 45 °C146 A• at 55 °C141 A• at 55 °C137 A• at 60 °C132 A• at 65 °C128 A		No
• communication functionNo• other measurement functionNoNet Weight2.2 kgCurrentmarking / according to UL 489 / 100%-rated breakerMarking / according to UL 489 / 100%-rated breakerNooperational current150 A• at 40 °C150 A• at 45 °C146 A• at 55 °C141 A• at 60 °C132 A• at 65 °C128 A	ground-fault monitoring version	without
• other measurement functionNoNet Weight2.2 kgCurrentmarking / according to UL 489 / 100%-rated breakeroperational currentNo• at 40 °C150 A• at 40 °C146 A• at 50 °C141 A• at 55 °C137 A• at 60 °C132 A• at 65 °C128 A	product function	
Net Weight2.2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C150 A• at 45 °C146 A• at 50 °C141 A• at 55 °C137 A• at 60 °C132 A• at 65 °C128 A	 communication function 	No
Current No marking / according to UL 489 / 100%-rated breaker No operational current 150 A • 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 • at 65 °C 128 A	 other measurement function 	No
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 60 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	Net Weight	2.2 kg
operational current 150 A • 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 • at 65 °C 128 A	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 • at 65 °C 128 A	marking / according to UL 489 / 100%-rated breaker	No
• at 45 °C 146 A • at 50 °C 141 A • at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	operational current	
• at 50 °C 141 A • at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	● at 40 °C	150 A
• at 55 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	● at 45 °C	146 A
• at 60 °C 132 A • at 65 °C 128 A	● at 50 °C	141 A
• at 65 °C 128 A	● at 55 °C	137 A
	● at 60 °C	132 A
• at 70 °C 123 A	● at 65 °C	128 A
	● at 70 °C	123 A

Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	Н		
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			
current breaking capacity			
• at 240 V	100 kA		
• at 480 V	65 kA		
• at 600 V	25 kA		
Adjustable parameters			
adjustable response value setting current (Ir) / of the L-trip / with			
I2t characteristic	450 A		
• minimum	150 A 150 A		
maximum adjustable response value delay time (tr) (for L_tripping (with 12t)	150 A		
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic			
• minimum	1 s		
• maximum	1 s		
adjustable response value setting current (li) / for I-tripping			
• minimum	750 A		
• maximum	1 500 A		
adjustable setting current (InN) / for N-tripping			
• minimum	0 A		
• maximum	0 A		
adjustable current response value current / of the current- dependent overload release	150 150 A		
product function / grounding protection	No		
Mechanical Design			
product component			
undervoltage release	No		
voltage trigger	No		
• trip indicator	No		
height [in]	7.28 in		
height	185 mm		
width [in] type of connectable conductor cross-sections / of the round conductor terminal / stranded	4.13 in 1 x (6 AWG - 350 kcmil)		
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		
Auxiliary circuit			
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			









Miscellaneous

EMC	Declaration of Conform	ity	Marine / Shipping	other	
	UK CA	CE EG-Konf.	ABS	<u>Miscellaneous</u>	<u>Confirmation</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3VA5215-6EC36-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-6EC36-1AA0

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

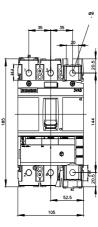
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-6EC36-1AA0

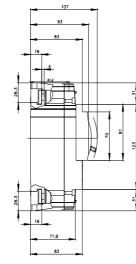
CAx-Online-Generator

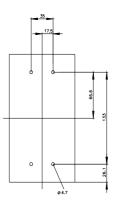
http://www.siemens.com/cax

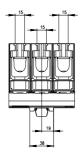
Tender specifications

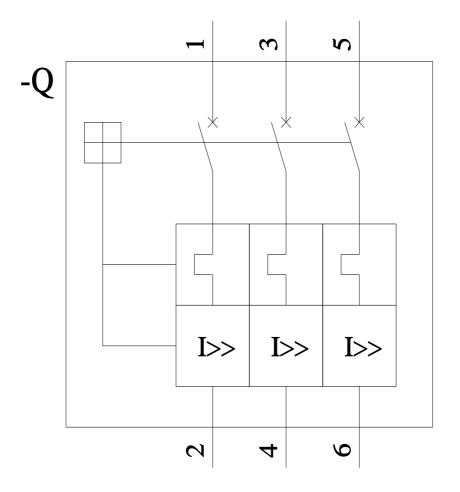
http://www.siemens.com/specifications

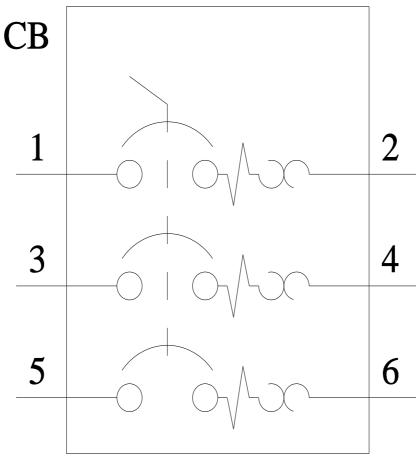












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