SIEMENS

Data sheet

3VA5215-6ED31-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 3-pole, line protection TM210, FTFM, In=150A overload protection Ir=150A fixed short-circuit protection Ii=10 x In UL 489 SB (naval), 50° C without connection

product branch name SENTRON product designation / according to UL file HFAM design of the product System protection design of the bad switch / according to UL 489 / Heading, Ar Yes Conditioning, and Refrigeration circuit breaker (HACR Type) No Discharge circuit breaker (HINCR Type) No design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HINCR Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (HINCR (SWD Type) No design of the overcurrent release Ll number of poles operating voltage / at AC / rated value 690 V 900 V opware loss (W) / for rated value of the current / at AC / in hot 9.7 W 9.7 W operating voltage / at AC / rated value 690 V 900 V opware loss (W) / for rated value of the current / at AC / in hot 9.7 W 9.7 W operating voltage / at AC / rated value 690 V 9000 opware loss (W) / for rated value of the current / at AC / in hot 9.7 W 9.7 W operating voltage / et ac / per pole 8000 1000 1000 electrical endurance (operating	Model	
product designation / according to UL file HFAM design of the product System protection design of the load switch / according to UL 489 / High-Intensity Yes Discharge circuit breaker (HACR Type) No design of the load switch / according to UL 489 / High-Intensity No design of the load switch / according to UL 489 / Switching Duty No design of the overcurrent release TM210 protection function of the overcurrent release IL 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 9.7 W operating state / per pole 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 faularie forerating cycles / typical ground-fault monitoring version without	product brand name	SENTRON
design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigerative (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 (IND Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release Ll number of poles 3 General tochnical data 90 W operating voltage / at AC / rated value 690 V power loss [W] / maximum 30 W operating state / per pole 97 W 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 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 </td <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 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 / High-Intensity- Discharge circuit breaker (HD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the corecurrent release TU1 number of poles 3 Controlled Add 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) / typical 8 000 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 No other measurement function No other measurement function No other measurement function No other me	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- No design of the load switch / according to UL 489 / Switching Duty No circuit breaker (SWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release Ll operating voltage / at AC / rated value 690 V operating voltage / at AC / rated value 690 V power loss [W] / naximum 30 W power loss [W] / for rated value of the current / at AC / in hot 90 00 electrical endurance (operating cycles) / typical 8000 ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable No other measurement function No other measurement function No other measurement fun	design of the product	System protection
Discharge circuit breaker (HID Type) V design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release Ll number of poles 3 Ceneral 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) / tpical 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 AC0 V 8 000 electrical endurance (operating cycles) / at AC0 V 8 000 electrical endurance (operating cycles) / at AE0 V 8 000 electrical endurance (operating cycles) / at AE0 V 8 000 ground-fault monitoring version without product function No · otomunication function No · otomunication function No · other measumenent function No · other measument function 150 A		Yes
circuit breaker (SWD Type) TM210 protection function of the overcurrent release Ll 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] / maximum 30 W pender loss levrice life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 800 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / stort:cit and overload proof gground-fault monitoring version without product function No • other measurement function No • other measurement function No <tr< td=""><td>0 0 ,</td><td>No</td></tr<>	0 0 ,	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 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 AC-1 / at 600 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable // / short-circuit and overload proof without ground-fault monitoring version without product function No • other measurement function No • other measurement function No • other measurement function No • at 40 °C 150 A • at 45 °C 146 A • at 55 °C </td <td></td> <td>No</td>		No
number of poles 3 General technical data 690 V power loss [W] / maximum 30 W 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 tot operating state / per pole 9.7 W mechanical service life (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 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 • other measurement function No • at 40 °C 150 A • at 45 °C 146 A • at 50 °C 137 A • at 60 °C 132 A • at 65 °C 128 A	design of the overcurrent release	TM210
General technical data operating voltage / at AC / rated value 690 V power loss [W] / for rated value of the current / at AC / in hot 30 W 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 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 AC-1 / at 690 V 4 000 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 • other measurement function No Net Weight 2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current iat 60 °C 150 A • at 55 °C 141 A iat 55 °C • at 65 °C	protection function of the overcurrent release	U
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 AC0 V 8 000 electrical endurance (operating cycles) / at AC0 V 8 000 electrical endurance (operating cycles) / at AC0 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 Net Weight 2 kg 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 </td <td>number of poles</td> <td>3</td>	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-1 / at 690 V 4 000 electrical endurance (operating cycles) / at A60 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 • other measurement function No Net Weight 2 kg Current If 50 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	General technical data	
power loss [W] / for rated value of the current / at AC / in hot 9.7 W operating state / per pole 20 000 mechanical service life (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 690 V 4 000 electrical endurance (operating cycles) / at 400 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 • other measurement function No • other measurement function No operational current 2 kg 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	operating voltage / at AC / rated value	690 V
operating state / per pole 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 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 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 kg Current	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 AC 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 • other measurement 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 50 °C 137 A • at 60 °C 132 A • at 65 °C 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 kg Current Imarking / 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 V8 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 functionNoNet Weight2 kgCurrentItal 40 °C• at 40 °C150 A• at 40 °C146 A• at 45 °C146 A• at 55 °C137 A• at 65 °C128 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 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °C 146 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 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °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 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current 150 A • at 40 °C 146 A • at 50 °C 141 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 function No • other measurement function No • other measurement function No Net Weight 2 kg Current Current 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 137 A • at 60 °C 132 A • at 65 °C 128 A		No
· communication functionNo• other measurement functionNoNet Weight2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current• at 40 °C150 A• at 45 °C146 A• at 55 °C141 A• at 60 °C137 A• at 60 °C132 A• at 65 °C128 A	ground-fault monitoring version	without
• other measurement functionNoNet Weight2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C150 A• at 45 °C146 A• at 55 °C141 A• at 55 °C137 A• at 60 °C132 A• at 65 °C128 A	product function	
Net Weight2 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C150 A• at 45 °C146 A• at 55 °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	Net Weight	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	
• minimum	150 A
maximum adjustable response value delay time (tr) / for L-tripping / with I2t	150 A
characteristic	1.
• minimum	1s 1s
maximum adjustable response value setting current (li) / for l-tripping	15
e minimum	1 500 A
• minimum • maximum	1 500 A 1 500 A
maximum adjustable setting current (InN) / for N-tripping	
minimum	0 A
• maximum	0 A
adjustable current response value current / of the current-	150 150 A
dependent overload release	100 100 / 1
product function / grounding protection	No
lechanical Design	
product component	
 undervoltage release 	No
voltage trigger	No
trip indicator	No
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	Without connection
type of electrical connection / for main current circuit	Without
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	25 %
during operation / minimum	-25 °C 70 °C
during operation / maximum	-40 °C
during storage / minimum during storage / maximum	-40 °C
Certificates	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	

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Miscellaneous

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=3VA5215-6ED31-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-6ED31-1AA0

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

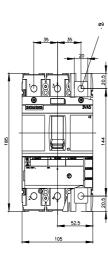
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-6ED31-1AA0

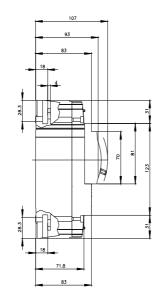
CAx-Online-Generator

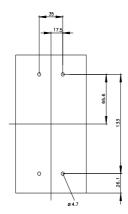
http://www.siemens.com/cax

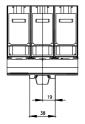
Tender specifications

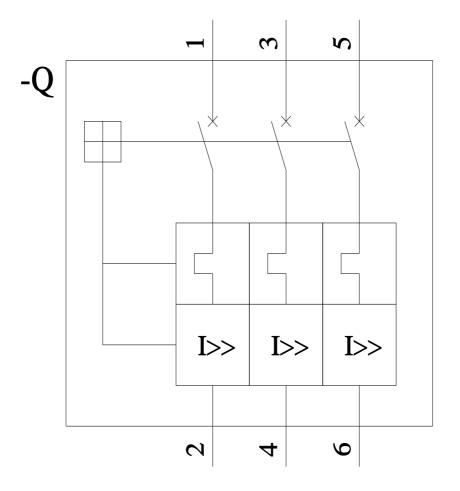
http://www.siemens.com/specifications

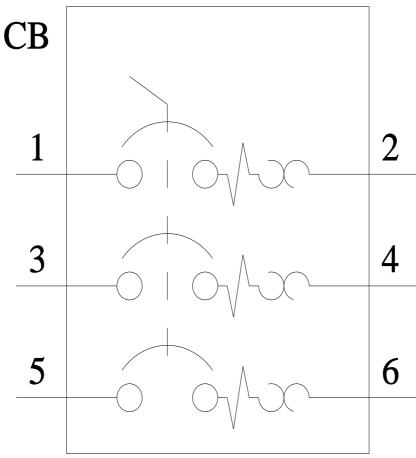












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