# SIEMENS

#### Data sheet

### 3VA5215-7ED32-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM210, FTFM, In=150A overload protection Ir=150A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

product brand name         SENTRON           product designation / according to UL file         CFAM           design of the product         System protection           design of the load switch / according to UL 489 / Heating Air         Yes           Conditioning, and Refingeration circuit breaker (HACR Type)         No           design of the load switch / according to UL 489 / High-Intensity-         No           Discharge circuit breaker (HACR Type)         No           design of the load switch / according to UL 489 / High-Intensity-         No           Discharge circuit breaker (HACR Type)         No           design of the load switch / according to UL 489 / High-Intensity-         No           Discharge circuit breaker (HOT type)         No           design of the load switch / according to UL 489 / High-Intensity-         No           protection function of the overcurrent release         TM210           protection function of the overcurrent release         UL           operating voltage / at AC / rated value         690 V           opower loss (W) / for rated value of the current / at AC / in hot         9.7 W           electrical endurance (operating cycles) / ta AC-1 / at 380/415 V         8000           electrical endurance (operating cycles) / ta AC-1 / at 380/415 V         8000           electrical endurance (operating cycles) / ta AC0 V <t< th=""><th>Model</th><th></th></t<>	Model	
product designation / according to UL file design of the product System protection (design of the load switch / according to UL 489 / Heating, Atr Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (INT Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (INT Type) design of the overcurrent release TM210 protection function of the overcurrent release unumber of poles 3 Concral technical data operating voltage / at AC / rated value power loss [W] / for rated value of the current / at AC / in hot operating voltage / at AC / rated value electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / typical ground-fault monitoring version product feature / for neutral conductors / upgradable/refronthable product feature / for neutral conductors / upgradable/refronthable No No No No No No No No No No	product brand name	SENTRON
design of the product       System protection         design of the load switch / according to UL 489 / Heating, Air       Yes         Conditioning, and Refrigerative (HACR Type)       Yes         design of the load switch / according to UL 489 / High-Intensity-       No         Discharge circuit breaker (HOT 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 circuit breaker (GVD Type)       No         design of the overcurrent release       TM210         protection function of the overcurrent release       Ll         number of poles       3         Concert technical data       90 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 values / ta 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       9.7 W         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 380/415 V       8 000         electrical endurance (operating cycles) / at	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 overcurrent release     TM210       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] / for rated value of the current / at AC / in hot operating state / per pole     9.7 W       electrical endurance (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 680 V     4 000       product feature / for neutral conductors / upgradable/retrofitable     No       / short-circuit and overload proof     without       product function     No       • other measurement function     No       • other measurement function     No       • other measurement function     No       • o	product designation / according to UL file	CFAM
Conditioning, and Refrigeration circuit breaker (HACR Type)         design of the load switch / according to UL 489 / High-Intensity-         Discharge circuit breaker (HID Type)         design of the load switch / according to UL 489 / Switching Duty         circuit breaker (SWD Type)         design of the overcurrent release         protection function of the overcurrent release         L1         number of poles         General technical data         operating voltage / at AC / rated value	design of the product	System protection
Discharge circuit breaker (HID Type)       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       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       9.7 W         operating state / per pole       20 000         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) / at AC-1 / at 380/415 V       8 000         electrical endurance (operating cycles) / at 480 V       8 000         electrical endurance (operating cycles) / at 400 V       4 000         ground-fault monitoring version       without         product feature / for neutral conductors / upgradable/retrofittable       No         / stort function       No         • other measurement function       No         • other measurement function       No		Yes
circuit breaker (SWD Type)       TM210         design 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] / maximum       30 W         power loss [W] / maximum       30 W         perating voltage / at AC / 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) / 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 V       8 000         electrical endurance (operating cycles) / at AC V       8 000       electrical endurance (operating cycles) / at 800 V       4 000         product fault monitoring cycles) / at 480 V       8 000       electrical endurance (operating cycles) / at 600 V       4 000         product fault monitoring version       without       more fault monitoring version       No         other measurement function       No       No       other measurement function       No         other measurement function       No       150 A		No
protection function of the overcurrent release       L1         number of poles       3         General technical data		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) / tpical     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 690 V     4 000       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       • 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	design of the overcurrent release	TM210
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       2.252 kg         Current       Ita A         • at 40 °C       150 A         • at 45 °C       146 A         • at 55 °C       137 A         • at 6	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         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         No           e communication function         No           • other measurement function         No           Not Weight         2.252 kg           Current         Imarking / according to UL 489 / 100%-rated breaker         No           operational current         150 A         146 A      <	number of poles	3
jower loss [W] / maximum       30 W         jower 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 AC0 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         Net Weight       2.252 kg         Current       for A         marking / according to UL 489 / 100%-rated breaker       No         operational current       150 A         • at 40 °C       137 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       920000         mechanical service life (operating cycles) / typical       20000         electrical endurance (operating cycles) / at AC-1 / at 380/415 V       8000         electrical endurance (operating cycles) / at ABO V       8000         electrical endurance (operating cycles) / at ABO V       8000         electrical endurance (operating cycles) / at ABO V       8000         electrical endurance (operating cycles) / at ABO V       4000         product feature / for neutral conductors / upgradable/retrofittable       No         / short-circuit and overload proof       without         product function       without         order measurement function       No         other measurement function       No         other measurement       150 A         other du °C       150 A         other du °C       144 A         other du °C       146 A         ot 450 °C       137 A         ot 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 380/415 V8 000electrical endurance (operating cycles) / at 690 V4 000electrical endurance (operating cycles) / at 690 V8 000electrical endurance (operating cycles) / at 600 V4 000product feature / for neutral conductors / upgradable/retrofittableNo/ short-circuit and overload proofwithoutground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight2.252 kgCurrentmarking / according to UL 489 / 100%-rated breaker• at 40 °C150 A• at 45 °C146 A• at 55 °C137 A• at 60 °C132 A• at 65 °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-1 / at 690 V       8 000         electrical endurance (operating cycles) / at AC-1 / at 690 V       8 000         electrical endurance (operating cycles) / at AO 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       2.252 kg         Current       marking / according to UL 489 / 100%-rated breaker       No         operational current       at 40 °C       150 A         • at 40 °C       146 A       141 A         • at 50 °C       137 A       132 A         • at 60 °C       132 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       2.252 kg         Current       marking / according to UL 489 / 100%-rated breaker         operational current       150 A         • at 40 °C       150 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       without         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2.252 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       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       2.252 kg         Current       No         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 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       2.252 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         ground-fault monitoring version       without         product function       No         • communication function       No         • other measurement function       No         Net Weight       2.252 kg         Current       marking / according to UL 489 / 100%-rated breaker         narking / 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 600 V	4 000
product functionNo• communication functionNo• other measurement functionNoNet Weight2.252 kgCurrentmarking / according to UL 489 / 100%-rated breakerNoNooperational 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		No
• communication functionNo• other measurement functionNoNet Weight2.252 kgCurrentmarking / according to UL 489 / 100%-rated breakeroperational currentNo• 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 Weight2.252 kgCurrentMarking / according to UL 489 / 100%-rated breakermarking / according to UL 489 / 100%-rated breakerNooperational currentISO A• at 40 °C150 A• at 45 °C146 A• at 55 °C141 A• at 65 °C137 A• at 60 °C132 A• at 65 °C128 A	product function	
Net Weight2.252 kgCurrentNomarking / according to UL 489 / 100%-rated breakerNooperational current150 A• at 40 °C150 A• at 45 °C146 A• at 50 °C141 A• at 55 °C137 A• at 60 °C132 A• at 65 °C128 A	<ul> <li>communication function</li> </ul>	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	<ul> <li>other measurement function</li> </ul>	No
marking / according to UL 489 / 100%-rated breaker         No           operational current	Net Weight	2.252 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	С
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	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	150 A
● maximum	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	1 500 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]	4.13 in
width	105 mm
depth [in]	3.27 in
depth	83 mm
Connections	
	Front connection
arrangement of electrical connectors / for main current circuit	
type of electrical connection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	nut keeper kit on both ends 13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8 mm
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver
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 operation / maximum     during storage / minimum	-40 °C
during storage / maximum     during storage / maximum	-40 °C
Certificates	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	



#### 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=3VA5215-7ED32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-7ED32-1AA0

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

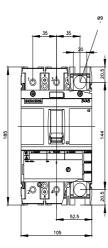
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5215-7ED32-1AA0

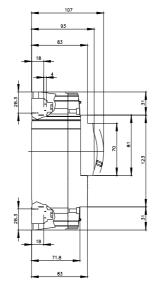
CAx-Online-Generator

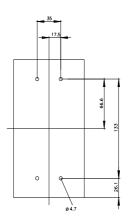
http://www.siemens.com/cax

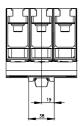
**Tender specifications** 

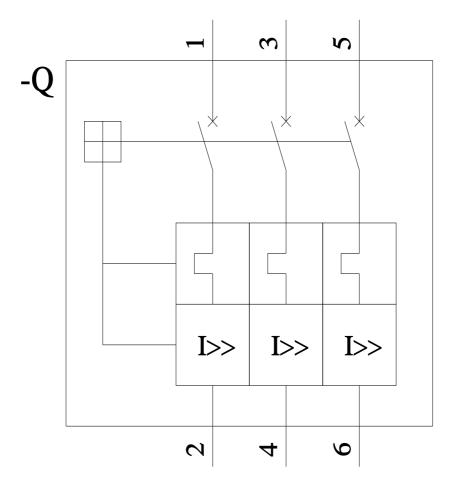
http://www.siemens.com/specifications

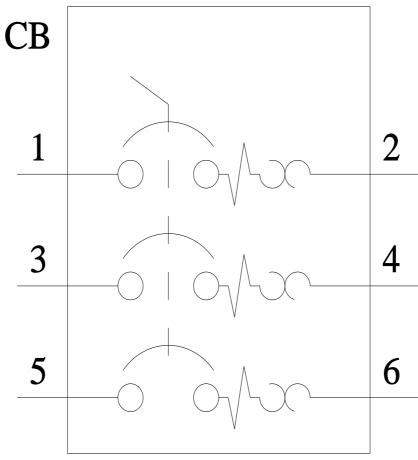












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