3VA5215-7ED36-1AA0

# **Data sheet**



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. cable connection on both sides

product designation / according to UL file CFAM Molded-case circuit breaker product designation / according to UL file CFAM System protection design of the product designation / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-intensity-bischarge circuit breaker (HOT Type) design of the load switch / according to UL 489 / High-intensity-bischarge circuit breaker (HOT Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (HOT Type) design of the covarcurrent release TM210 protection function of the overcurrent release LI unumber of poles 3 3 Ceneral technical data operating voltage / at AC / rated value 690 V power loss [W] / maximum 80 W power loss [W] / maximum 80 W power loss [W] / for rated value of the current / at AC / in hot operating voltage / at AC / rated value 9 / 30 W power loss [W] / for rated value of the current / at AC / in hot operating service life (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 415 V 8000 electrical endurance (operating cycles) / at AC - / at 380 4 8000 electrical endurance (operating cycles) / at AC - / at 580 V 8000 electrical endurance (operating cycles) / at AC - / at 580 V 8000 electrical endurance (operating cycles) / at AC - / at 580 V 8000 electrical endurance (operating cycles) / at AC - / at 580 V 8000 electrical endurance (operating cycles) / at 500 V 8000 electrical endurance (operating cycles) / at 500 V 8000 electrical endurance (operating cycles) / at 500 V 8000 electrical endurance (operating cycles) / at 500 V 8000 electrical	Model	
product designation / according to UL file	product brand name	SENTRON
design of the product design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (ISVID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (ISVID Type) design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 3  Ceneral technical data  Operating voltage / at AC / rated value Operating voltage / at AC / rated value Operating voltage / at AC / rated value Operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 380/4 V electrical endurance (operating cycles) / at 400 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof ground-fault monitoring version without volunt feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof ground-fault monitoring version without volunt feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof ground-fault monitoring version No Net Weight  Current  marking / according to UL 489 / 100%-rated breaker No operational current  e at 40 °C	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refigeration circult 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 load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release ILI number of poles 3  Coneral technical data operating voltage / at AC / rated value power loss [W] / maximum 30 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 680 V electrical endurance (operating cycles) / at 480 V e	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  TM210  protection function of the overcurrent release  LI number of poles  3  Coneral technical data  operating voltage / at AC / rated value  operating voltage / at AC / rated value  operating voltage / at AC / rated value  operating state / per pole  mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V  electrical endurance (operating cycles) / at 800 V electrical endurance (operating cycles) / at 80	design of the product	System protection
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 TM210 protection function of the overcurrent release number of poles 3  General technical data operating voltage / at AC / rated value power loss [W] / maximum power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-0 V electrical endurance (operating cycles) / at ABO V electrical endurance (operating cycles) / at ABO V electrical endurance (operating cycles) / at 480 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function  • other measurement function No Net Weight  Curront  marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 55 °C • at 60 °C • at		Yes
design of the overcurrent release protection function of the overcurrent release LI number of poles 3  Ceneral 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 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 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 / short-circuit and overload proof ground-fault monitoring version without product function No other measurement function No other measurement function No No Wet Weight 2.26 kg  Current marking / according to UL 489 / 100%-rated breaker No operational current el 42 0 °C 150 A 141 A el 45 °C 146 A el 45 °C 146 A el 45 °C 147 A el 60 °C 132 A el 46 °C 142 A el 60 °C 132 A el 46 °C 142 A el 60 °C 132 A el 60 °C 142 A el 60 °C 142 A el 60 °C 142 A el 60 °C		No
protection function of the overcurrent release		No
number of poles   3	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] / maximum 9.7 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 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 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  ground-fault monitoring version without  product 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  • at 50 °C  • at 55 °C  • at 55 °C  • at 60 °C	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 70 per	number of poles	3
power loss [W] / maximum   30 W	General technical data	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  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 480 V 8 000 electrical endurance (operating cycles) / at 480 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product 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 55 °C 137 A • at 60 °C 132 A • at 60 °C 132 A	operating voltage / at AC / rated value	690 V
operating state / per pole 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 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  ground-fault monitoring version without product function No  • ordner 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 55 °C 141 A • at 65 °C 132 A • at 60 °C 132 A • at 65 °C 128 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 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 ground-fault monitoring version without product function • communication function • other measurement function No Net Weight  Current  marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C 150 A • at 60 °C 137 A • at 60 °C • at 65 °C 128 A		9.7 W
electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V  product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version  vithout  product function  • communication function • other measurement function No  No  Net Weight  Current  marking / according to UL 489 / 100%-rated breaker  • at 40 °C • at 45 °C • at 45 °C  • at 45 °C  146 A • at 55 °C  137 A • at 60 °C  • at 65 °C  128 A	mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V  product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version  product function  communication function  other measurement function  No  Net Weight  Current  marking / according to UL 489 / 100%-rated breaker  operational current  at 40 °C  at 45 °C  at 45 °C  at 45 °C  146 A  at 55 °C  137 A  at 60 °C  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  product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof  ground-fault monitoring version  product function  communication function  other measurement function  No  Net Weight  Current  marking / according to UL 489 / 100%-rated breaker  operational current  at 40 °C  at 45 °C  at 45 °C  at 55 °C  at 60 °C  at 60 °C  at 65 °C  128 A	electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof 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 • at 65 °C 128 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof ground-fault monitoring version  ocommunication function other measurement function No  Net Weight  Current  marking / according to UL 489 / 100%-rated breaker operational current oat 40 °C oat 45 °C oat 55 °C oat 60 °C oat 60 °C oat 65 °C  128 A	electrical endurance (operating cycles) / at 600 V	4 000
product function		No
<ul> <li>◆ communication function</li> <li>No</li> <li>Nother measurement function</li> <li>No</li> <li>Net Weight</li> <li>2.26 kg</li> <li>Current</li> <li>marking / according to UL 489 / 100%-rated breaker</li> <li>operational current</li> <li>• at 40 °C</li> <li>• at 45 °C</li> <li>• at 50 °C</li> <li>• at 50 °C</li> <li>• at 55 °C</li> <li>• at 60 °C</li> <li>• at 60 °C</li> <li>• at 65 °C</li> <li>128 A</li> </ul>	ground-fault monitoring version	without
● other measurement function  No  Net Weight  2.26 kg  Current  marking / according to UL 489 / 100%-rated breaker  operational current  ● at 40 °C  ● at 45 °C  ● at 50 °C  141 A  ● at 55 °C  137 A  ● at 65 °C  128 A	product function	
Net Weight       2.26 kg         Current         marking / according to UL 489 / 100%-rated breaker       No         operational current <ul> <li>at 40 °C</li> <li>at 45 °C</li> <li>at 50 °C</li> <li>146 A</li> <li>at 55 °C</li> <li>137 A</li> <li>at 60 °C</li> <li>at 65 °C</li> </ul> 132 A         at 65 °C       128 A	• communication function	No
Current           marking / according to UL 489 / 100%-rated breaker         No           operational current         150 A           • at 40 °C         150 A           • at 50 °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       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	Net Weight	2.26 kg
operational current  • at 40 °C  • at 45 °C  • at 50 °C  146 A  • at 55 °C  137 A  • at 60 °C  • at 65 °C  128 A	Current	
<ul> <li>at 40 °C</li> <li>at 45 °C</li> <li>at 50 °C</li> <li>141 A</li> <li>at 55 °C</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>128 A</li> </ul>	marking / according to UL 489 / 100%-rated breaker	No
<ul> <li>at 45 °C</li> <li>at 50 °C</li> <li>141 A</li> <li>at 55 °C</li> <li>137 A</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>128 A</li> </ul>	operational current	
<ul> <li>at 50 °C</li> <li>at 55 °C</li> <li>137 A</li> <li>at 60 °C</li> <li>at 65 °C</li> <li>128 A</li> </ul>	• 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	
12t 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
<ul> <li>voltage trigger</li> </ul>	No
trip indicator	No
height [in]	7.28 in
height	185 mm
width [in]	4.13 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	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
<ul> <li>during operation / maximum</li> </ul>	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	
Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes



Confirmation









EMC Declaration of Conformity

Marine / Shipping

other









**Miscellaneous** 

Confirmation

#### 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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-7ED36-1AA0

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

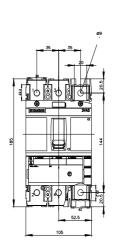
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5215-7ED36-1AA0

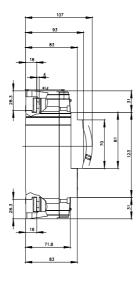
CAx-Online-Generator

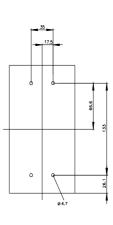
http://www.siemens.com/cax

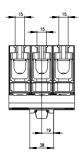
**Tender specifications** 

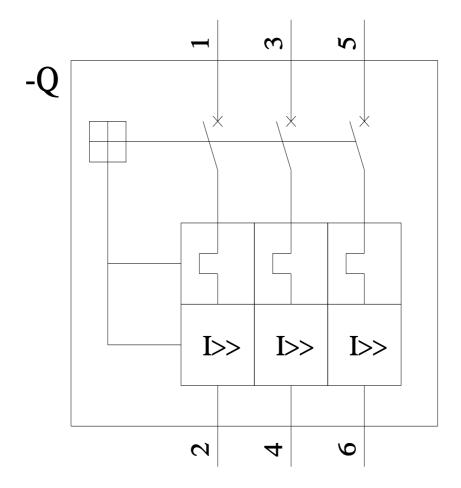
http://www.siemens.com/specifications

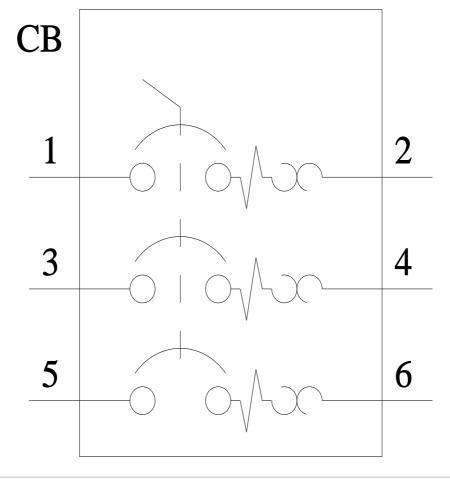












last modified: 7/15/2022 🖸

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3VA52157ED361AA0