3VA5215-6ED36-1AA0

Data sheet



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

Droduct designation Product designation According to UL file HFAM HFAM	Model	
product designation / according to UL file design of the product 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 (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 overcurrent release protection function of the overcurrent release ILI number of poles 3 Central technical data operating voltage / at AC / rated value 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 800 V electrical endurance (operating cycles) / at AC 80 V electrical endurance (operating cycles) / at AC 80 V electrical endurance (operating cycles) / at AC 80 V electrical endurance (operating cycles) / at AC 00 electrical endurance (operating cycles) / at AC	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 (ID 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 voercurrent release protection function of the overcurrent release protection function of the overcurrent release ILI number of poles 3 Ceneral technical data operating voltage / at AC / rated value power loss [W] / maximum 30 wV power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / the AC-1 / at 380/415 vV electrical endurance (operating cycles) / at AC-1 / at 690 vV electrical endurance (operating cycles) / at AC-1 / at 690 vV electrical endurance (operating cycles) / at AC-1 / at 690 vV electrical endurance (operating cycles) / at 480 vV 8 000 electrical endurance (operating cycles) / at 480 vV 8 000 electrical endurance (operating cycles) / at 600 vV product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without volument function e communication function No Not Weight 2.2 kg Curront at 40 °C 150 A at 45 °C 146 A at 45 °C 146 A at 55 °C 137 A at 65 °C 128 A	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refigeration 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 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 Ceneral technical odta operating voltage / at AC / rated value 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 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 680 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 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 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 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 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 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 480 V 8 000 electrical endurance (operat	product designation / according to UL file	HFAM
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- bischarge circuit breaker (HIDT 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 LL number of poles General technical data operating voltage / at AC / rated value opower loss [W] / maximum opower loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / ta 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 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 600 V electrical endurance (operating cycle	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 protection function of the overcurrent release LLI number of poles 3 General technical data operating voltage / at AC / rated value 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 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product fruction • communication function • other measurement function No No No No No No No No No		Yes
design of the overcurrent release protection function of the overcurrent release LI number of poles 3 General technical data operating voltage / at AC / rated value 690 V power loss [W] / 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 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 electrical endurance (operating cycles) / at AC-1 / at 690 V 5 000 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 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 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 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 /		No
protection function of the overcurrent release		No
Number of poles 3	design of the overcurrent release	TM210
Operating voltage / at AC / rated value 690 V	protection function of the overcurrent release	LI
Operating voltage / at AC / rated value	number of poles	3
Dower 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	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 690 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 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C • at 60 °C • at 60 °C • 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 146 A • at 50 °C 137 A • at 60 °C • 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 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 60 °C • 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 50 °C 141 A • at 50 °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 ocommunication function ocommunication function No No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current ocoperational c	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 2.2 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 480 V	8 000
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 55 °C at 65 °C 132 A at 65 °C 128 A	electrical endurance (operating cycles) / at 600 V	4 000
product function		No
 ● communication function No Net Weight 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current ● at 40 °C ● at 45 °C ● at 50 °C ● at 55 °C ● at 60 °C ● at 60 °C ● at 65 °C 128 A 	ground-fault monitoring version	without
● other measurement function No Net Weight 2.2 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 60 °C ● at 65 °C 128 A	product function	
Net Weight 2.2 kg Current marking / according to UL 489 / 100%-rated breaker No operational current at 40 °C at 45 °C at 46 A at 50 °C 141 A at 55 °C at 60 °C at 60 °C at 65 °C 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 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 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	2.2 kg
operational current • at 40 °C • at 45 °C • at 50 °C 141 A • at 55 °C 137 A • at 60 °C • at 65 °C 128 A	Current	
 at 40 °C at 45 °C at 50 °C 141 A at 55 °C at 60 °C at 65 °C 128 A 	marking / according to UL 489 / 100%-rated breaker	No
 at 45 °C at 50 °C 141 A at 55 °C 137 A at 60 °C at 65 °C 128 A 	operational current	
 at 50 °C at 55 °C 137 A at 60 °C at 65 °C 128 A 	• at 40 °C	150 A
 at 55 °C at 60 °C at 65 °C 137 A 132 A 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	● at 65 °C	128 A
	● at 70 °C	123 A

switching capacity class of the circuit breaker design of short-circuit protection Switching capacity according to UL 489 current breaking capacity • at 240 V • at 480 V • at 600 V Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic • minimum	H 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 100 kA 65 kA 25 kA
Switching capacity according to UL 489 current breaking capacity • at 240 V • at 480 V • at 600 V Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	breaker device manual; link to be found under Service & Support in the last chapter 100 kA 65 kA
current breaking capacity • at 240 V • at 480 V • at 600 V Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	65 kA
at 240 V at 480 V at 600 V Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	65 kA
at 480 V at 600 V Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with 12t characteristic	65 kA
at 600 V Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
Adjustable parameters adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	25 kA
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	
• Annimoun	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
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	100
	IP40
protection class IP / on the front	II → U
ambient temperature	25 °C
during operation / minimum	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
during storage / maximum	0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
Certificates	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB General Product Approval	Yes



Confirmation





Miscellaneous



EMC Declaration of Conformity

Marine / Shipping

other









Confirmation

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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5215-6ED36-1AA0

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

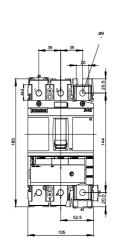
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5215-6ED36-1AA0

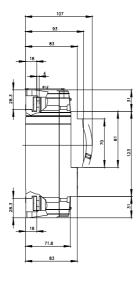
CAx-Online-Generator

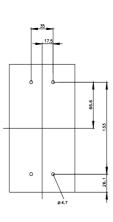
http://www.siemens.com/cax

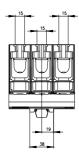
Tender specifications

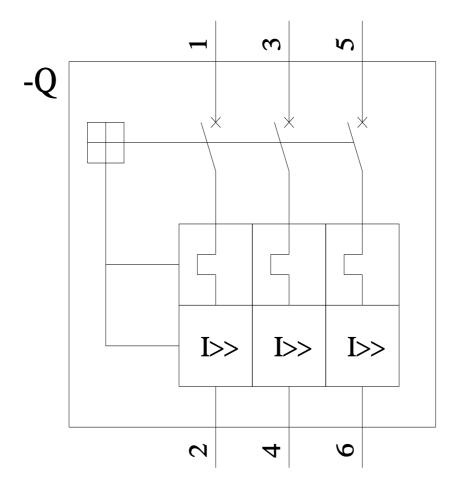
http://www.siemens.com/specifications

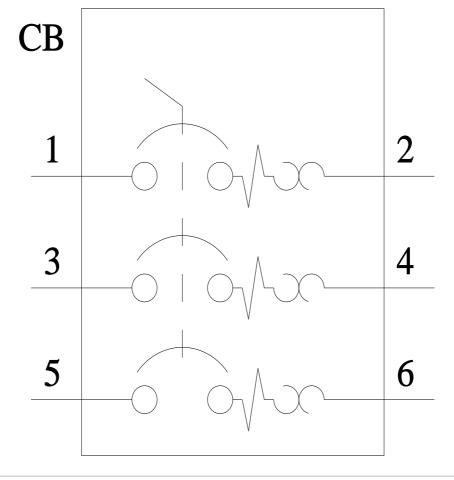












last modified: 7/15/2022 🖸

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3VA52156ED361AA0