3VA5195-4ED22-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=15A overload protection Ir=15A fixed short-circuit protection Ii=20 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

product designation Molded-case circuit breaker product designation according to UL file SEAM design of the product Segam System protection 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 (HIP 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	Model	
product designation / according to UL file 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 (HDT Dype) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (RDT Dype) 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 2 Ceneral 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-1 / at 690 V electrical endurance (operating cycles) / at AC-0 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version versions of the conductors / upgradable/retrofittable / short-circuit and overload proof product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version versions of the conductors / upgradable/retrofittable / short-circuit and overload proof product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version versions of the conductors / upgradable/retrofittable / short-circuit and overload proof product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof sometime / short-circuit and overload proof product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof sometime / short-circuit /	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 (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 protectical endurance (operating cycles) / take AC / in the top operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 800/415 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function • ommunication function one other measurement function without marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C 15 A • at 50 °C 14 A	product designation	Molded-case circuit breaker
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 overcurrent release TM210 design of the overcurrent release TM210 protection function of the overcurrent release LL number of poles 2 Ceneral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.5 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 690 V electrical endurance (operating cycles) / at 480 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 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version versions • other measurement function • other measurement function • other measurement function • other measurement function • other	product designation / according to UL file	SEAM
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 LI number of poles 2 Ceneral technical dat operating voltage / at AC / rated value power loss [W] / maximum 6.5 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 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at BOU V electrical endurance (operating cycles) / at BOU V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version product function • communication function • oommunication function • other measurement function No Net Weight marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 45 °C • 15 A • at 50 °C	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		Yes
design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 2 Ceneral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.5 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 690 V 4 000 electrical endurance (operating cycles) / at A0-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 600 V 8 000 electrical endurance (operating cycles) / at 600 V 9 000 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 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 50 °C 15 A • at 50 °C		Yes
protection function of the overcurrent release number of poles 2 Ceneral technical data operating voltage / at AC / rated value power loss [W] / maximum for 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 380/415 V 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 verment function other measurement function No No Net Weight Outside ABB / 100%-rated breaker operational current at 40 °C at 40 °C at 45 °C at 45 °C 15 A at 50 °C 14 A		Yes
number of poles 2 Ceneral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.25 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 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 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current of at 40 °C 15 A of at 50 °C 15 A	design of the overcurrent release	TM210
General technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.5 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 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 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 No • other measurement function No Notweight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker Operating of Current • at 40 °C 15 A • at 45 °C 15 A • at 45 °C 15 A • at 45 °C 15 A	protection function of the overcurrent release	Ц
operating voltage / at AC / rated value 415 V power loss [W] / maximum 6.5 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 6.5 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 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 e other measurement function No Net Weight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current e at 40 °C 15 A e at 45 °C 15 A e at 50 °C 14 A	number of poles	2
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 380/415 V 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 without product function • communication function • other measurement function No Note Weight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 50 °C 15 A • at 50 °C	General technical data	
power loss [VI] / 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 600 V 4 000 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 • at 40 °C • at 45 °C • at 45 °C • at 50 °C 15 A • at 50 °C 14 A	operating voltage / at AC / rated value	415 V
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 A80 V 8 000 electrical endurance (operating cycles) / at 690 V 4 000 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 • communication function No Not Weight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 15 A • at 45 °C 15 A • at 50 °C 14 A	power loss [W] / maximum	6.5 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 product function other measurement function No Net Weight Mo One of the macking / according to UL 489 / 100%-rated breaker operational current of at 40 °C of at 45 °C of at 45 °C of at 50 °C 15 A of at 50 °C 14 A		3.25 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 ground-fault monitoring version without product function • communication function No • other measurement function No Net Weight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C • at 45 °C • at 50 °C 14 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 / short-circuit and overload proof ground-fault monitoring version without product function	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 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 50 °C 15 A at 50 °C 14 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 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 15 A • at 45 °C 15 A • at 50 °C 14 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof ground-fault monitoring version without product function	electrical endurance (operating cycles) / at 600 V	4 000
product function		No
	ground-fault monitoring version	without
● other measurement function No Net Weight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current ● at 40 °C 15 A ● at 45 °C 15 A ● at 50 °C 14 A	product function	
Net Weight 0.669 kg Current marking / according to UL 489 / 100%-rated breaker No operational current	• communication function	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 15 A • at 40 °C 15 A • at 45 °C 15 A • at 50 °C 14 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 50 °C 15 A 15 A	Net Weight	0.669 kg
operational current • at 40 °C • at 45 °C • at 50 °C 15 A 14 A	Current	
 at 40 °C at 45 °C at 50 °C 15 A 15 A 14 A 	marking / according to UL 489 / 100%-rated breaker	No
 at 45 °C at 50 °C 15 A 14 A 	operational current	
• at 50 °C 14 A	• at 40 °C	15 A
	• at 45 °C	15 A
• at 55 °C 14 A	• at 50 °C	14 A
	• at 55 °C	14 A
• at 60 °C 14 A	• at 60 °C	14 A
• at 65 °C 14 A	• at 65 °C	14 A
• at 70 °C 14 A	● at 70 °C	14 A

switching capacity class of the circuit breaker	S
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
witching capacity according to UL 489	
current breaking capacity	
• at 240 V	65 kA
● at 480 V	25 kA
• at 600 Y/347 V	14 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with l2t characteristic	
• minimum	15 A
maximum	15 A
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic	
• minimum	1 s
maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	300 A
maximum	300 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	15 15 A
product function / grounding protection	No
Mechanical Design	
product component	
 undervoltage release 	No
 voltage trigger 	No
trip indicator	No
height [in]	5.51 in
height	140 mm
width [in]	2 in
width	50.8 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6.5 mm
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C
during operation / maximum	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Certificates	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes



Confirmation





Miscellaneous



EMC

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report



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/3VA5195-4ED22-1AA0

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

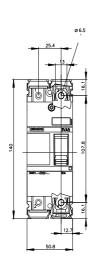
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5195-4ED22-1AA0

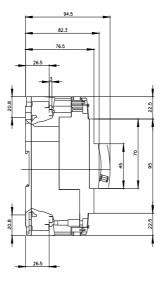
CAx-Online-Generator

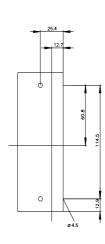
http://www.siemens.com/cax

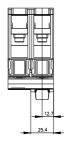
Tender specifications

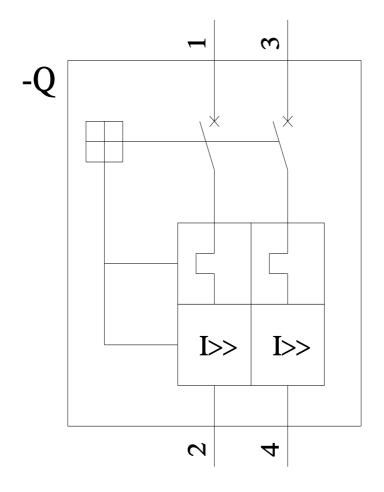
http://www.siemens.com/specifications

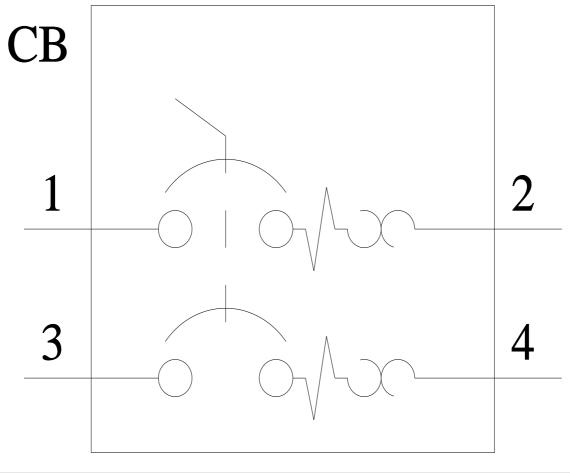












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Mouser Electronics

Authorized Distributor

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

Siemens:

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