SIEMENS

Data sheet

3VA5130-4ED11-1AA0

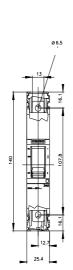


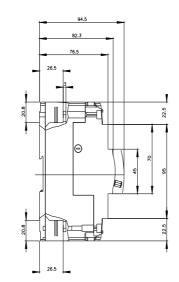
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=30A overload protection Ir=30A fixed short-circuit protection li=10 x In UL 489 SB (naval), 50° C without connection

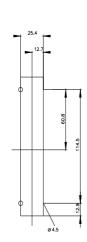
| product brand name SENTRON product designation / according to UL file SEAM design of the product System protection design of the product facording to UL 489 / Hearing, Arr Conditioning, and Refigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / Hegh-intensity- Dachage circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / Switching Duty dricuit breaker (WID Type) No design of the load switch / according to UL 489 / Switching Duty dricuit breaker (WID Type) No design of the load switch / according to UL 489 / Switching Duty dricuit breaker (WID Type) No design of the ore-current release Ll number of poles 1 power loss [W] / maximum 3.2 W power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating value / per pole 8.000 electrical endurance (operating cycles) / at AC-1 / at 890 V 4.000 electrical endurance (operating cycles) / at ACO / at 890 V 4.000 electrical endurance (operating cycles) / at ACO / at 890 V 4.000 ground-fault monitoring version without product feature / for neutral conductors / | Model | |
|---|--|-----------------------------|
| product designation / according to UL file SEAM design of the product System protection design of the load switch / according to UL 489 / Heating, Ar Yes Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity: Yes Discharge circuit breaker (HIT Type) Yes design of the load switch / according to UL 489 / Switching Duty No circuit breaker (HIT Type) No design of the overcurrent release TM210 protection function of the overcurrent release 1 Central technical data 3.2 W power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 8 000 ground-fault monitoring version without product feature / fo | product brand name | SENTRON |
| design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigerater (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID 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 / Switching Duty circuit breaker (GND Type) No design of the load switch / according to UL 489 / Network No cordination of the overcurrent release TM210 protection function of the overcurrent release Li operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot. 3.2 W operating solte / per pole 3.2 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 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 ground-fault monitoring cycles) / at AC-1 / at 680 V 4 000 < | product designation | Molded-case circuit breaker |
| design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HD Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the overcurrent release LL number of poles 1 contrait tochnical data | 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) Yes design of the load switch / according to UL 489 / Switching Duty circuit Dreaker (SWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 1 Conditioning are (SWD Type) 3.2 W power toss [W] / maximum 3.2 W power toss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.2 W electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / ta 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 ground-fault monitoring version without product flasture / for neutral conductors / upgradable/retrofittable No other measurement function No other measurement function No other measurement function No other measurement function 30 A | design of the product | System protection |
| Discharge circuit breaker (HID Type) No design of the load switch / according to UL 489 / Switching Duty No cricuit breaker (SWD Type) TM210 protection function of the overcurrent release Ll number of poles 1 Ceneral technical data | | Yes |
| circuit breaker (SWD Type) Image: Construct the overcurrent release TM210 protection function of the overcurrent release Li number of poles 1 General technical data | | Yes |
| protection function of the overcurrent release L1 number of poles 1 General technical data | | No |
| number of poles 1 General technical data 415 V operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.2 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC0 V 8 000 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 No / short-circuit and overload proof without ground-fault monitoring version without poduct function No • other measurement function No • other measurement function No • other measurement function No • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 28 A • at 60 °C 28 A • at 65 ° | design of the overcurrent release | TM210 |
| Genoral technical data operating voltage / at AC / rated value 415 V power loss [W] / for rated value of the current / at AC / in hot 3.2 W operating state / per pole 3.2 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 600 V 4 000 electrical endurance (operating cycles) / at 600 V 4 000 ground-fault monitoring version without product function No · stort-circuit and overload proof No ground-fault monitoring version without product function No · other measurement function No Net Weight 0.38 kg Current 30 A • at 40 °C 30 A • at 55 °C 28 A • at 55 °C 28 A | protection function of the overcurrent release | LI |
| operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.2 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 4 000 product feature / for neutral conductors / upgradable/retrofittable No /stort-circuit and overload proof No ground-fault monitoring version without product function No • communication function No Net Weight 0.38 kg Current at 40 °C • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 28 A • at 60 °C 28 A | number of poles | 1 |
| power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot 3.2 W operating state / per pole 20 000 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 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 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without product function No • other measurement function No Net Weight 0.38 kg Current 30 A • at 40 °C 29 A • at 40 °C 29 A • at 45 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A | General technical data | |
| power loss [W] / for rated value of the current / at AC / in hot 3.2 W operating state / per pole 20 000 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 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • other measurement function No • other measurement function No operational current 30 A • at 40 °C 30 A • at 45 °C 29 A • at 55 °C 28 A • at 66 °C 28 A | operating voltage / at AC / rated value | 415 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 460 V4 000electrical endurance (operating cycles) / at 480 V8 000electrical endurance (operating cycles) / at 480 V8 000electrical endurance (operating cycles) / at 600 V4 000product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proofNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breaker• at 40 °C30 A• at 45 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A | power loss [W] / maximum | 3.2 W |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at A80 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 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 • other measurement function No • other measurement function No • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 28 A • at 60 °C 28 A | | 3.2 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 0.38 kg Current marking / according to UL 489 / 100%-rated breaker operational current at 40 °C • at 40 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 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 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No at 40 °C at 40 °C 29 A at 45 °C 29 A at 55 °C 28 A at 60 °C 28 A at 65 °C 28 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 0.38 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current at 40 °C • at 40 °C 30 A • at 45 °C 29 A • at 55 °C 28 A • at 66 °C 28 A • at 65 °C 28 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 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No 30 A • at 40 °C 30 A • at 45 °C 29 A • at 55 °C 28 A • at 66 °C 28 A | electrical endurance (operating cycles) / at 480 V | 8 000 |
| / short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.38 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current 30 A • at 40 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A | electrical endurance (operating cycles) / at 600 V | 4 000 |
| product functionNo• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNoNooperational currentNo• at 40 °C30 A• at 45 °C29 A• at 50 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A | | No |
| • communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current30 A• at 40 °C30 A• at 45 °C29 A• at 55 °C29 A• at 60 °C28 A• at 60 °C28 A | ground-fault monitoring version | without |
| • other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C30 A• at 45 °C29 A• at 55 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A | product function | |
| Net Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C30 A• at 45 °C29 A• at 55 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A | communication function | No |
| Current No marking / according to UL 489 / 100%-rated breaker No operational current 30 A • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A | other measurement function | No |
| marking / according to UL 489 / 100%-rated breakerNooperational current | Net Weight | 0.38 kg |
| operational current30 A• at 40 °C30 A• at 45 °C29 A• at 50 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A | Current | |
| • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A | marking / according to UL 489 / 100%-rated breaker | No |
| • at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A | operational current | |
| • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A | • at 40 °C | 30 A |
| • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A | ● at 45 °C | 29 A |
| • at 60 °C 28 A • at 65 °C 28 A | ● at 50 °C | 29 A |
| • at 65 °C 28 A | ● at 55 °C | 28 A |
| | ● at 60 °C | 28 A |
| • at 70 °C 27 A | ● at 65 °C | 28 A |
| | ● at 70 °C | 27 A |

| Switching capacity according to IEC 60947 | |
|---|--|
| 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 |
| Switching capacity according to UL 489 | |
| current breaking capacity | |
| • at 120 V | 65 kA |
| • at 277 V | 25 kA |
| • at 347 V | 14 kA |
| Adjustable parameters | |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic | |
| • minimum | 30 A |
| maximum | 30 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 | 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 | 30 30 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] | 1 in |
| width | 25.4 mm 3.01 in |
| _ depth [in] depth | 76.5 mm |
| Connections | 70.5 mm |
| | Without connection |
| arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit | Without connection Without |
| 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 operation / maximum during storage / minimum | -40 °C |
| during storage / maximum | 80 °C |
| Certificates | |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | Yes |
| General Product Approval | |
| | |

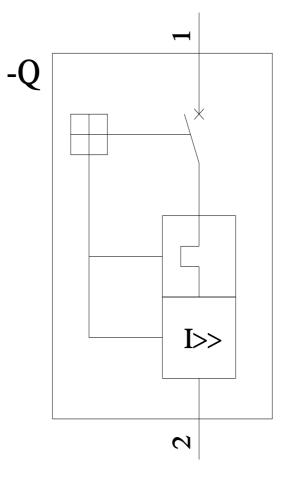
| General Product Ap- proval | EMC | Declaration of Conformity | | Test Certificates | Marine / Shipping | | |
|---|-----|---------------------------|----------------|---|---------------------|--|--|
| EHC | RCM | UK CA | CE EG-Konf. | Type Test Certific- ates/Test Report | ABS | | |
| Marine / Shipping | | | | other | | | |
| BUREAU VERITAS | | Lloyd's Register us | KMRS | <u>Miscellaneous</u> | <u>Confirmation</u> | | |
| other | | | | | | | |
| 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=3VA5130-4ED11-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA5130-4ED11-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5130-4ED11-1AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications | | | | | | | |
| | | | | | | | |

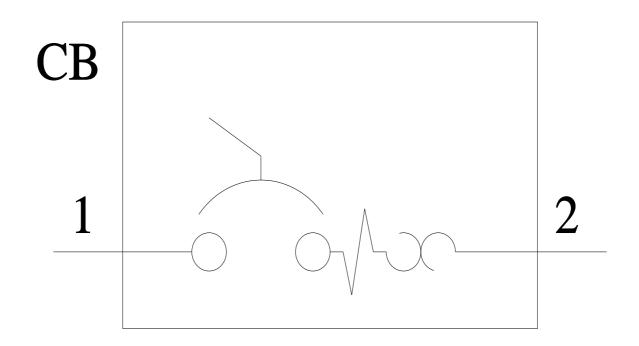












last modified:

7/14/2022 🖸

Mouser Electronics

Authorized Distributor

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

Siemens: 3VA51304ED111AA0