



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480V  
 2-pole, line protection TM210, FTFM, I<sub>n</sub>=15A overload protection I<sub>r</sub>=15A  
 fixed short-circuit protection I<sub>i</sub>=20 x I<sub>n</sub> UL 489 SB (naval), 50° C without  
 connection

| Model   |                             |
|---|-----------------------------|
| product brand name  | SETRON                      |
| product designation   | Molded-case circuit breaker |
| product designation / according to UL file  | SEAM                        |
| Product version   | System protection           |
| design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                         |
| design of the overcurrent release   | TM210                       |
| protection function of the overcurrent release  | LI                          |
| number of poles   | 2                           |
| General technical data  |                             |
| power loss [W] / maximum  | 6.5 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 3.25 W                      |
| mechanical service life (switching cycles) / typical  | 15 000                      |
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz   | 8 000                       |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz   | 4 000                       |
| electrical endurance (switching cycles) / at 480 V  | 8 000                       |
| electrical endurance (switching cycles) / at 600 V  | 4 000                       |
| Neutral conductors / upgradeable/retrofitable   | No                          |
| ground-fault monitoring version   | Without                     |
| product function  |                             |
| • communication function  | No                          |
| • other measurement function  | No                          |
| Current   |                             |
| marking / acc. to UL 489 / 100%-rated breaker   | No                          |
| Max. rated operational current of the frame size  | 125 A                       |
| Courant permanent assigné I <sub>u</sub>  | 15 A                        |
| operational current   |                             |
| • at 45 °C  | 15 A                        |
| • at 50 °C  | 15 A                        |
| • at 55 °C  | 14.4 A                      |
| • at 60 °C  | 14.2 A                      |
| • at 65 °C  | 13.9 A                      |
| • at 70 °C  | 13.7 A                      |
| Switching capacity according to IEC 60947   |                             |

|  |                    |
|--|--------------------|
| switching capacity class of the circuit breaker  | S                  |
| <b>Switching capacity according to UL 489</b>  |                    |
| breaking capacity current  |                    |
| • at 240 V   | 65 kA              |
| • at 480 V   | 25 kA              |
| • at 600 Y/347 V   | 14 kA              |
| <b>Adjustable parameters</b>   |                    |
| Adjustable response value current / I <sub>g</sub> min.                                | 15 A               |
| Adjustable response value current / I <sub>g</sub> min.                                | 15 A               |
| Adjustable response value current / I <sub>i</sub> min.                                | 300 A              |
| Adjustable response value current / I <sub>i</sub> max.                                | 300 A              |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF                | No                 |
| <b>Mechanical Design</b>   |                    |
| height [in]  | 5.5 in             |
| Height   | 140 mm             |
| width [in]   | 2 in               |
| Width  | 50.8 mm            |
| depth [in]   | 3 in               |
| depth  | 76.5 mm            |
| <b>Connections</b>   |                    |
| arrangement of electrical connectors / for main current circuit                        | Without connection |
| type of electrical connection / for main current circuit                               | Without            |
| <b>Auxiliary circuit</b>   |                    |
| number of CO contacts / for auxiliary contacts   | 0                  |
| <b>Accessories</b>   |                    |
| product extension / optional / motor drive   | Yes                |
| <b>Environmental conditions</b>  |                    |
| 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              |
| <b>Certificates</b>  |                    |
| reference code / acc. to IEC 81346-2   | Q                  |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | Yes                |
| <b>General Product Approval</b>  |                    |



[Miscellaneous](#)

|                          |     |                           |                   |                   |
|--------------------------|-----|---------------------------|-------------------|-------------------|
| General Product Approval | EMC | Declaration of Conformity | Test Certificates | Shipping Approval |
|--------------------------|-----|---------------------------|-------------------|-------------------|



[Miscellaneous](#)



other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalog>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3VA5195-4ED21-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5195-4ED21-1AA0>

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

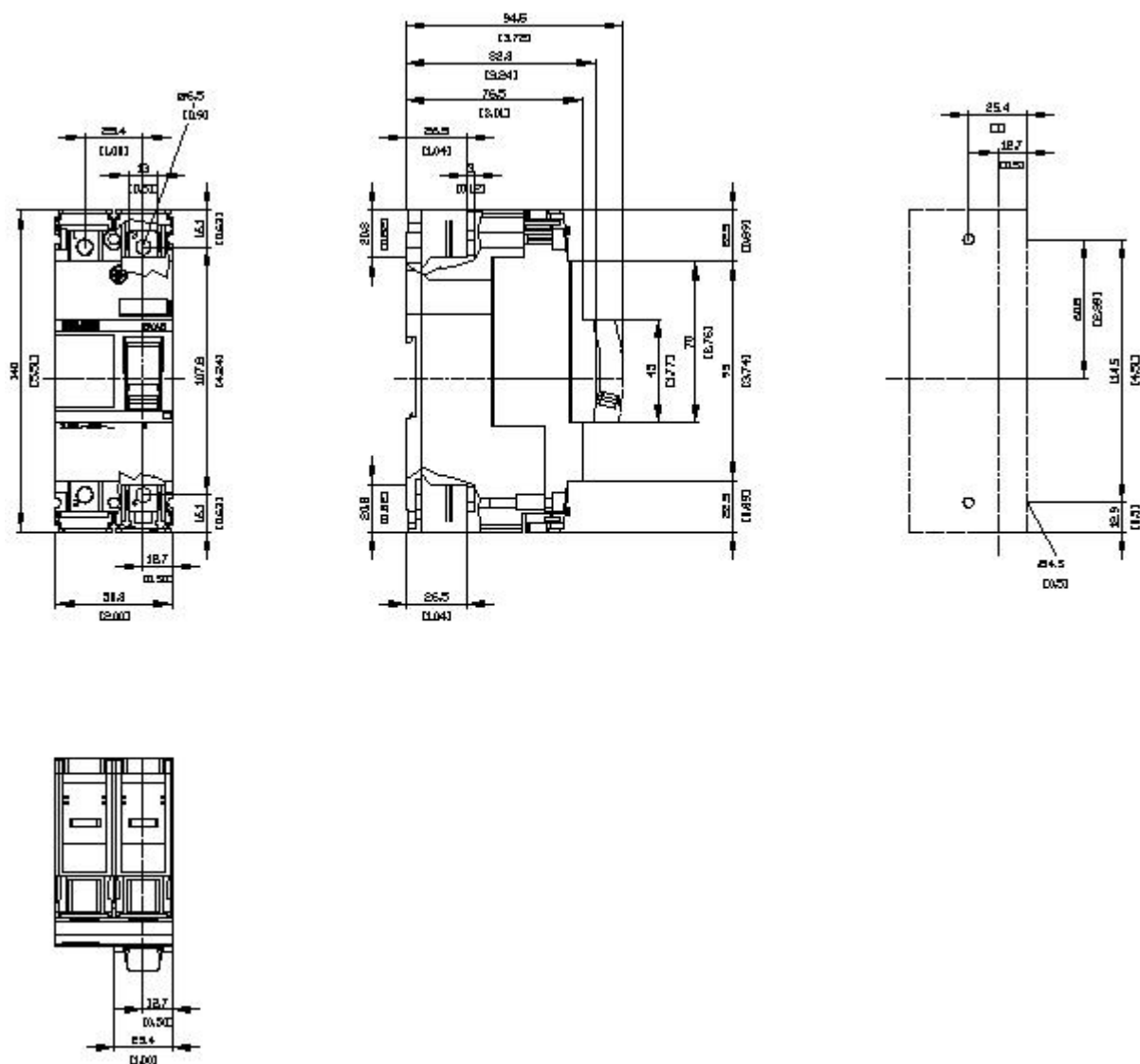
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA5195-4ED21-1AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA5195-4ED21-1AA0)

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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