



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM,  $I_n=125A$  overload protection  $I_r=125A$  fixed short-circuit protection  $I_i=10 \times I_n$  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   | 1                           |
| General technical data  |                             |
| power loss [W] / maximum  | 9.7 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 9.7 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 lu  | 125 A                       |
| operational current   |                             |
| • at 40 °C  | 125 A                       |
| • at 45 °C  | 125 A                       |
| • at 50 °C  | 125 A                       |
| • at 55 °C  | 121.2 A                     |
| • at 60 °C  | 118.8 A                     |
| • at 65 °C  | 116.5 A                     |
| • at 70 °C  | 114.2 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   |  |
| breaking capacity current  |  |
| • at 120 V   | 65 kA  |
| • at 277 V   | 25 kA  |
| • at 347 V   | 14 kA  |
| Adjustable parameters  |  |
| Adjustable response value current / I <sub>g</sub> min.                                | 125 A  |
| Adjustable response value current / I <sub>g</sub> min.                                | 125 A  |
| Adjustable response value current / I <sub>i</sub> min.                                | 1 250 A  |
| Adjustable response value current / I <sub>i</sub> max.                                | 1 250 A  |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF                | No   |
| Mechanical Design  |  |
| height [in]  | 5.5 in   |
| Height   | 140 mm   |
| width [in]   | 1 in   |
| Width  | 25.4 mm  |
| depth [in]   | 3 in   |
| depth  | 76.5 mm  |
| Connections  |  |
| arrangement of electrical connectors / for main current circuit                        | Without connection   |
| type of electrical connection / for main current circuit                               | 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 storage / minimum   | -40 °C   |
| • during storage / maximum   | 80 °C  |
| Certificates   |  |
| reference code / acc. to IEC 81346-2   | Q  |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | Yes  |

#### General Product Approval



[Miscellaneous](#)

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



[Miscellaneous](#)





Miscellaneous

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?mlfb=3VA5112-4ED11-1AA0>

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

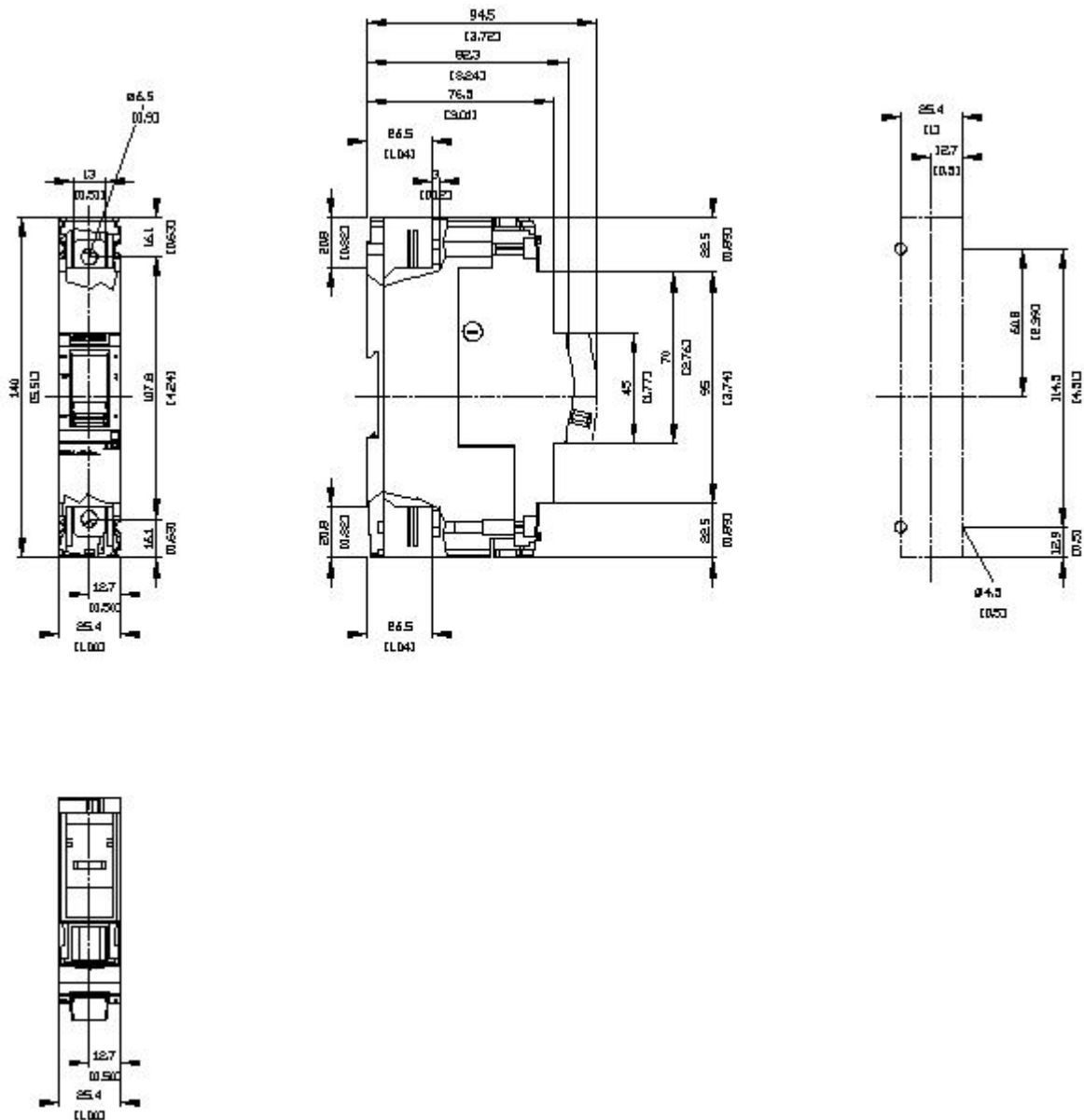
<https://support.industry.siemens.com/cs/ww/en/ps/3VA5112-4ED11-1AA0>

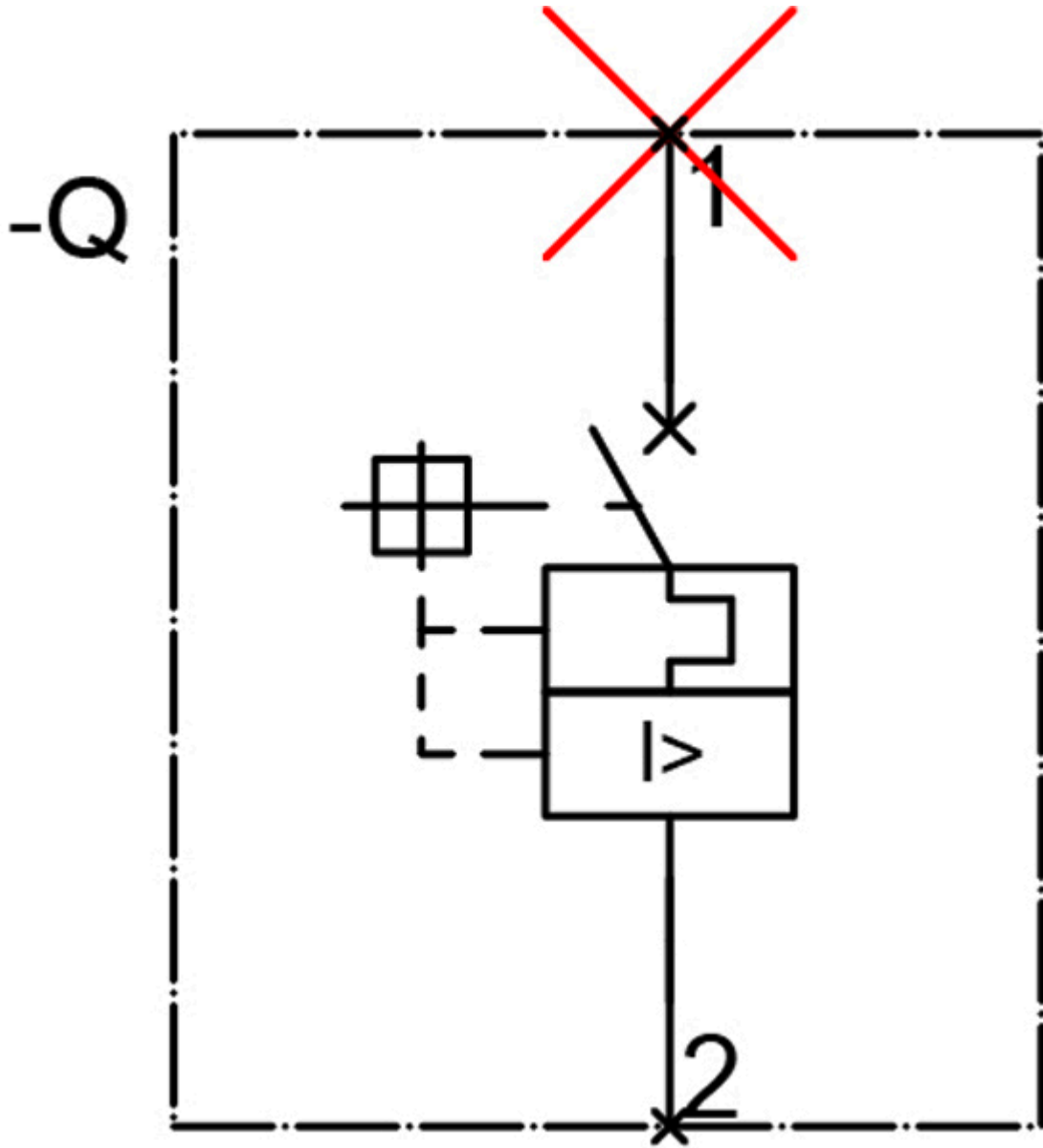
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

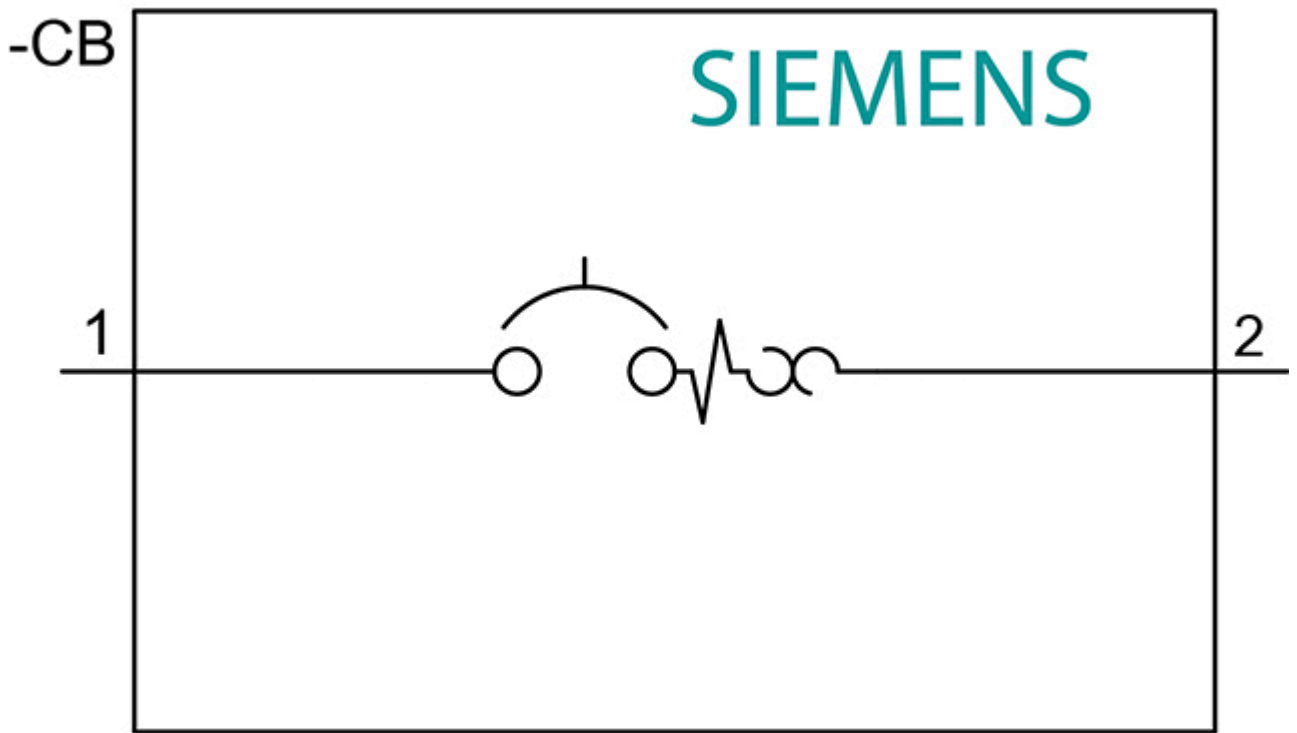
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5112-4ED11-1AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5112-4ED11-1AA0)

Tender specifications

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







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