



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480V  
2-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

| Model                                                                                                                 |                             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                                    | SENTRON                     |
| 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                                                                                              | 6.2 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 3.1 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                                                                                          | 30 A                        |
| operational current                                                                                                   |                             |
| • at 40 °C                                                                                                            | 30 A                        |
| • at 45 °C                                                                                                            | 30 A                        |
| • at 50 °C                                                                                                            | 30 A                        |
| • at 55 °C                                                                                                            | 29.1 A                      |
| • at 60 °C                                                                                                            | 28.5 A                      |
| • at 65 °C                                                                                                            | 28 A                        |
| • at 70 °C                                                                                                            | 27.5 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 240 V                                                                             | 65 kA                                                                                                                                                          |
| • at 480 V                                                                             | 25 kA                                                                                                                                                          |
| • at 600 Y/347 V                                                                       | 14 kA                                                                                                                                                          |
| Adjustable parameters                                                                  |                                                                                                                                                                |
| Adjustable response value current / I <sub>g</sub> min.                                | 30 A                                                                                                                                                           |
| Adjustable response value current / I <sub>g</sub> min.                                | 30 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                                                                                                                                                             |
| Mechanical Design                                                                      |                                                                                                                                                                |
| height [in]                                                                            | 5.5 in                                                                                                                                                         |
| Height                                                                                 | 140 mm                                                                                                                                                         |
| width [in]                                                                             | 2 in                                                                                                                                                           |
| Width                                                                                  | 50.8 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                                             | Yes                                                                                                                                                            |
| 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](#)





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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=3VA5130-4ED21-1AA0>

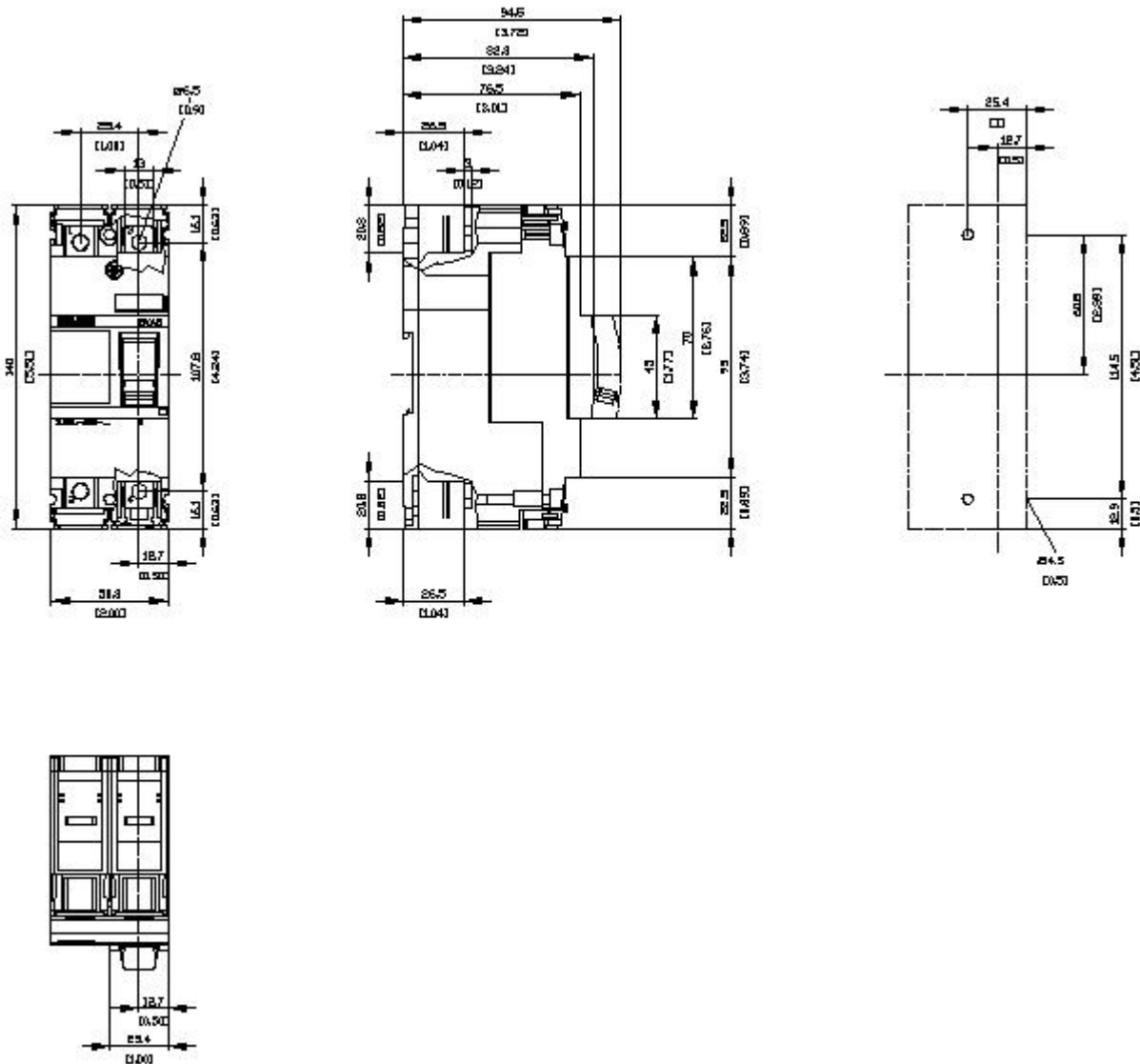
Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5130-4ED21-1AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5130-4ED21-1AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5130-4ED21-1AA0)

Tender specifications

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


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