



circuit breaker 3VA4 UL Frame 125 breaking capacity class S 25 kA @ 480 V 3-pole, line protection TM210, FTFM,  $I_n=25$  A overload protection  $I_r=25$  A permanently set short-circuit protection  $I_i=12 \times I_n$  terminal connection

| Model                                                                                                                      |                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| product brand name                                                                                                         | SETRON                                                                     |
| product designation                                                                                                        | Molded-case circuit breaker                                                |
| product designation / according to UL file                                                                                 | SEAB                                                                       |
| design of the product                                                                                                      | System protection                                                          |
| 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 (HID Type)                      | Yes                                                                        |
| design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)                                | No                                                                         |
| design of the overcurrent release                                                                                          | TM210                                                                      |
| protection function of the overcurrent release                                                                             | LI                                                                         |
| number of poles                                                                                                            | 3                                                                          |
| General technical data                                                                                                     |                                                                            |
| operating voltage / at AC / rated value                                                                                    | 690 V                                                                      |
| power loss [W] / maximum                                                                                                   | 8.2 W                                                                      |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole                                | 2.7 W                                                                      |
| mechanical service life (operating cycles) / typical                                                                       | 15 000                                                                     |
| electrical endurance (operating cycles) / at 480 V                                                                         | 8 000                                                                      |
| electrical endurance (operating cycles) / at 600 V                                                                         | 4 000                                                                      |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof                      | No                                                                         |
| ground-fault monitoring version                                                                                            | Without                                                                    |
| product function                                                                                                           |                                                                            |
| • communication function                                                                                                   | No                                                                         |
| • other measurement function                                                                                               | No                                                                         |
| Net Weight                                                                                                                 | 0.743 kg                                                                   |
| Current                                                                                                                    |                                                                            |
| marking / according to UL 489 / 100%-rated breaker                                                                         | No                                                                         |
| operational current                                                                                                        |                                                                            |
| • at 40 °C                                                                                                                 | 25 A                                                                       |
| • at 45 °C                                                                                                                 | 24 A                                                                       |
| • at 50 °C                                                                                                                 | 24 A                                                                       |
| • at 55 °C                                                                                                                 | 23 A                                                                       |
| • at 60 °C                                                                                                                 | 23 A                                                                       |
| • at 65 °C                                                                                                                 | 22 A                                                                       |
| • at 70 °C                                                                                                                 | 21 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 240 V                | 65 kA |
| • at 480 Y/277 V          | 25 kA |
| • at 480 V                | 25 kA |
| • at 600 Y/347 V          | 14 kA |

#### Adjustable parameters

|                                                                                      |     |
|--------------------------------------------------------------------------------------|-----|
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic |     |
| • minimum                                                                            | 1 s |
| • maximum                                                                            | 1 s |

|                                         |    |
|-----------------------------------------|----|
| product function / grounding protection | No |
|-----------------------------------------|----|

#### Mechanical Design

|                                                                                           |                      |
|-------------------------------------------------------------------------------------------|----------------------|
| product component                                                                         |                      |
| • undervoltage release                                                                    | No                   |
| • voltage trigger                                                                         | No                   |
| • trip indicator                                                                          | No                   |
| height [in]                                                                               | 5.09 in              |
| height                                                                                    | 129.4 mm             |
| width [in]                                                                                | 3 in                 |
| type of connectable conductor cross-sections / of the round conductor terminal / stranded | 1 x (14 AWG - 8 AWG) |
| width                                                                                     | 76.2 mm              |
| depth [in]                                                                                | 2.96 in              |
| depth                                                                                     | 75.1 mm              |

#### Connections

|                                                                                       |                                            |
|---------------------------------------------------------------------------------------|--------------------------------------------|
| arrangement of electrical connectors / for main current circuit                       | output side: circular conductor connection |
| type of electrical connection / for main current circuit                              | Infeed side: Low tab                       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | Tin                                        |

#### 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  |

#### Approvals / Certificates

##### General Product Approval

EMV

other



[Miscellaneous](#)



[Miscellaneous](#)

other

Environment

[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

#### Further information

##### 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=3VA4125-4ED34-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4125-4ED34-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA4125-4ED34-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4125-4ED34-0AA0)

CAX-Online-Generator

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

Tender specifications

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





