



circuit breaker 3VA4 UL Frame 125 breaking capacity class M 35 kA @ 480 V 3-pole, line protection TM210, FTFM,  $I_n=25$  A overload protection  $I_r=25$  A permanently set short-circuit protection  $I_i=12 \times I_n$  UL 489 SB (naval), 50 °C, terminal connection

| Model  |                             |
|--|-----------------------------|
| product brand name   | SENTRON                     |
| product designation  | Molded-case circuit breaker |
| product designation / according to UL file   | MEAM                        |
| 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  | 600 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   | 25 A                        |
| • at 50 °C   | 25 A                        |
| • at 55 °C   | 24 A                        |
| • at 60 °C   | 24 A                        |
| • at 65 °C   | 23 A                        |
| • at 70 °C   | 23 A                        |
| Switching capacity according to IEC 60947  |                             |

|   |  |
|---|--|
| switching capacity class of the circuit breaker | M  |
| 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  |                                  |
| <ul style="list-style-type: none"> <li>at 240 V</li> <li>at 480 Y/277 V</li> <li>at 480 V</li> <li>at 600 Y/347 V</li> </ul> | 85 kA<br>35 kA<br>35 kA<br>18 kA |

### Adjustable parameters

|  |            |
|--|------------|
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic |            |
| <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>           | 1 s<br>1 s |
| product function / grounding protection  | No         |

### Mechanical Design

|   |                      |
|---|----------------------|
| product component   |                      |
| <ul style="list-style-type: none"> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul> | No<br>No<br>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   | 75.09 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  |                                    |
| <ul style="list-style-type: none"> <li>during operation / minimum</li> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul> | -25 °C<br>70 °C<br>-40 °C<br>80 °C |

### Approvals / Certificates

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|

[Miscellaneous](#)



[Miscellaneous](#)



[Confirmation](#)



|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|

[Miscellaneous](#)

[Confirmation](#)

[Environmental Con-  
firmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4125-5ED34-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4125-5ED34-1AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA4125-5ED34-1AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4125-5ED34-1AA0)

CAX-Online-Generator

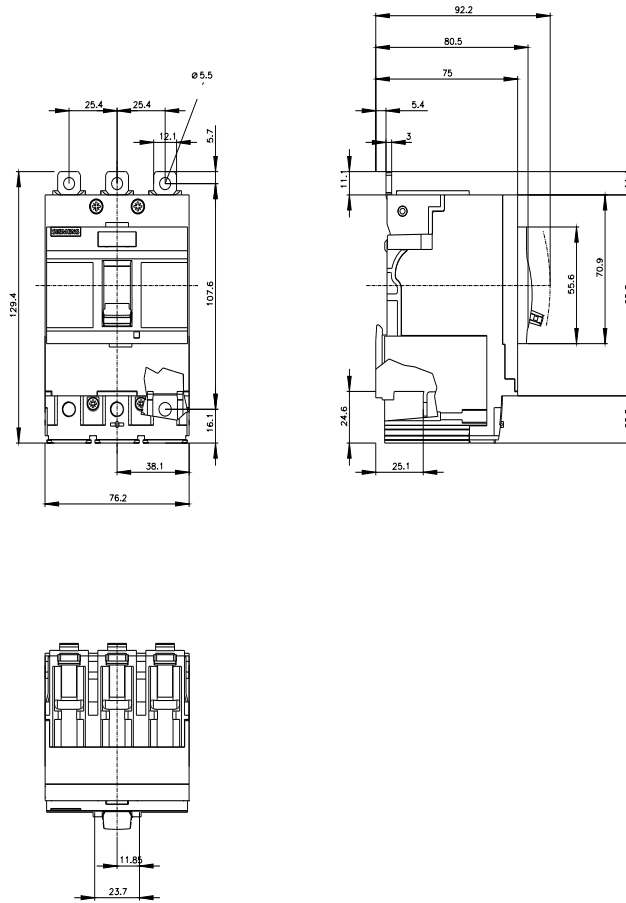
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



last modified:

4/23/2026

