



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 2-pole, line protection TM210, FTFM, In=25A overload protection Ir=25A fixed short-circuit protection li=12 x In nut keeper kit on both sides

| Model                                                                                                                      |                             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                                         | SENTRON                     |
| product designation                                                                                                        | Molded-case circuit breaker |
| product designation / according to UL file                                                                                 | HEAS                        |
| Product version                                                                                                            | 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                                                                                                            | 2                           |
| General technical data                                                                                                     |                             |
| rated insulation voltage Ui                                                                                                | 600 V                       |
| Max. rated operational voltage Ue with DC                                                                                  | 250 V                       |
| operating voltage / at AC / rated value                                                                                    | 415 V                       |
| power loss [W] / maximum                                                                                                   | 6 W                         |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                             | 2.8 W                       |
| mechanical service life (switching cycles) / typical                                                                       | 20 000                      |
| 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                          |
| Net Weight                                                                                                                 | 0.669 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                        |

|                                                                                                                                                                                                             |                                                                                                                                                                |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <ul style="list-style-type: none"><li>• at 55 °C</li><li>• at 60 °C</li><li>• at 65 °C</li><li>• at 70 °C</li></ul>                                                                                         | 23 A<br>23 A<br>23 A<br>22 A                                                                                                                                   |                   |
| Switching capacity according to IEC 60947                                                                                                                                                                   |                                                                                                                                                                |                   |
| switching capacity class of the circuit breaker                                                                                                                                                             | H                                                                                                                                                              |                   |
| breaking capacity maximum short-circuit current (Icu) <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 415 V</li></ul>                                                                         | 150 kA<br>70 kA                                                                                                                                                |                   |
| breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 415 V</li></ul>                                                                       | 150 kA<br>70 kA                                                                                                                                                |                   |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 415 V</li></ul>                                                                                   | 330 kA<br>154 kA                                                                                                                                               |                   |
| 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 <ul style="list-style-type: none"><li>• at 240 V</li><li>• at 480 V</li><li>• at 600 Y/347 V</li></ul>                                                                            | 150 kA<br>65 kA<br>25 kA                                                                                                                                       |                   |
| Adjustable parameters                                                                                                                                                                                       |                                                                                                                                                                |                   |
| Adjustable response value current / I <sub>g</sub> min.                                                                                                                                                     | 25 A                                                                                                                                                           |                   |
| Adjustable response value current / I <sub>g</sub> min.                                                                                                                                                     | 25 A                                                                                                                                                           |                   |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF                                                                                                                                     | No                                                                                                                                                             |                   |
| Mechanical Design                                                                                                                                                                                           |                                                                                                                                                                |                   |
| height [in]                                                                                                                                                                                                 | 5.51 in                                                                                                                                                        |                   |
| Height                                                                                                                                                                                                      | 140 mm                                                                                                                                                         |                   |
| width [in]                                                                                                                                                                                                  | 2 in                                                                                                                                                           |                   |
| Width                                                                                                                                                                                                       | 50.8 mm                                                                                                                                                        |                   |
| depth [in]                                                                                                                                                                                                  | 3.01 in                                                                                                                                                        |                   |
| depth                                                                                                                                                                                                       | 76.5 mm                                                                                                                                                        |                   |
| Connections                                                                                                                                                                                                 |                                                                                                                                                                |                   |
| arrangement of electrical connectors / for main current circuit                                                                                                                                             | Front connection                                                                                                                                               |                   |
| type of electrical connection / for main current circuit                                                                                                                                                    | nut keeper kit on both ends                                                                                                                                    |                   |
| Type of connectable conductor cross-section, connection screw, width x thickness , min.                                                                                                                     | 12 x 1 mm                                                                                                                                                      |                   |
| Type of connectable conductor cross-section, connection screw, width x thickness , max.                                                                                                                     | 17 x 6.5 mm                                                                                                                                                    |                   |
| Auxiliary circuit                                                                                                                                                                                           |                                                                                                                                                                |                   |
| 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                                                                                                                                                 |                   |
| 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                                                                                                                             |                   |
| Certificates                                                                                                                                                                                                |                                                                                                                                                                |                   |
| reference code / according to IEC 81346-2                                                                                                                                                                   | Q                                                                                                                                                              |                   |
| General Product Approval                                                                                                                                                                                    | EMC                                                                                                                                                            | Marine / Shipping |



[Confirmation](#)



other

[Miscellaneous](#)

#### Further information

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=3VA5125-6ED22-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5125-6ED22-0AA0>

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

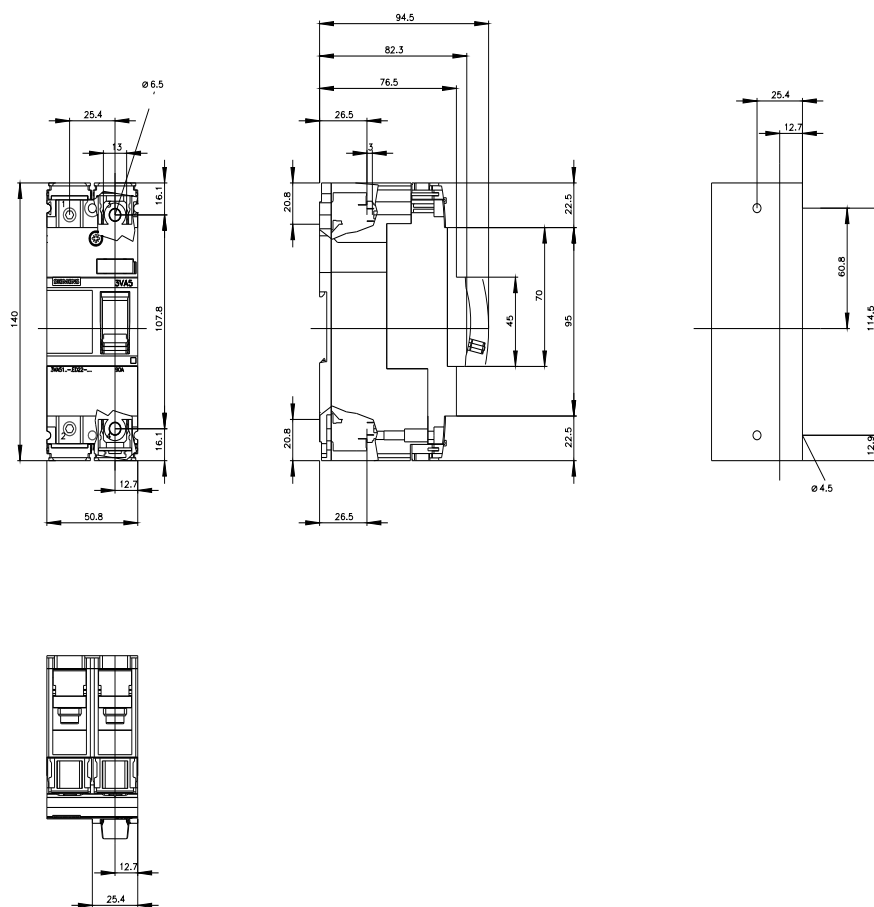
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5125-6ED22-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5125-6ED22-0AA0)

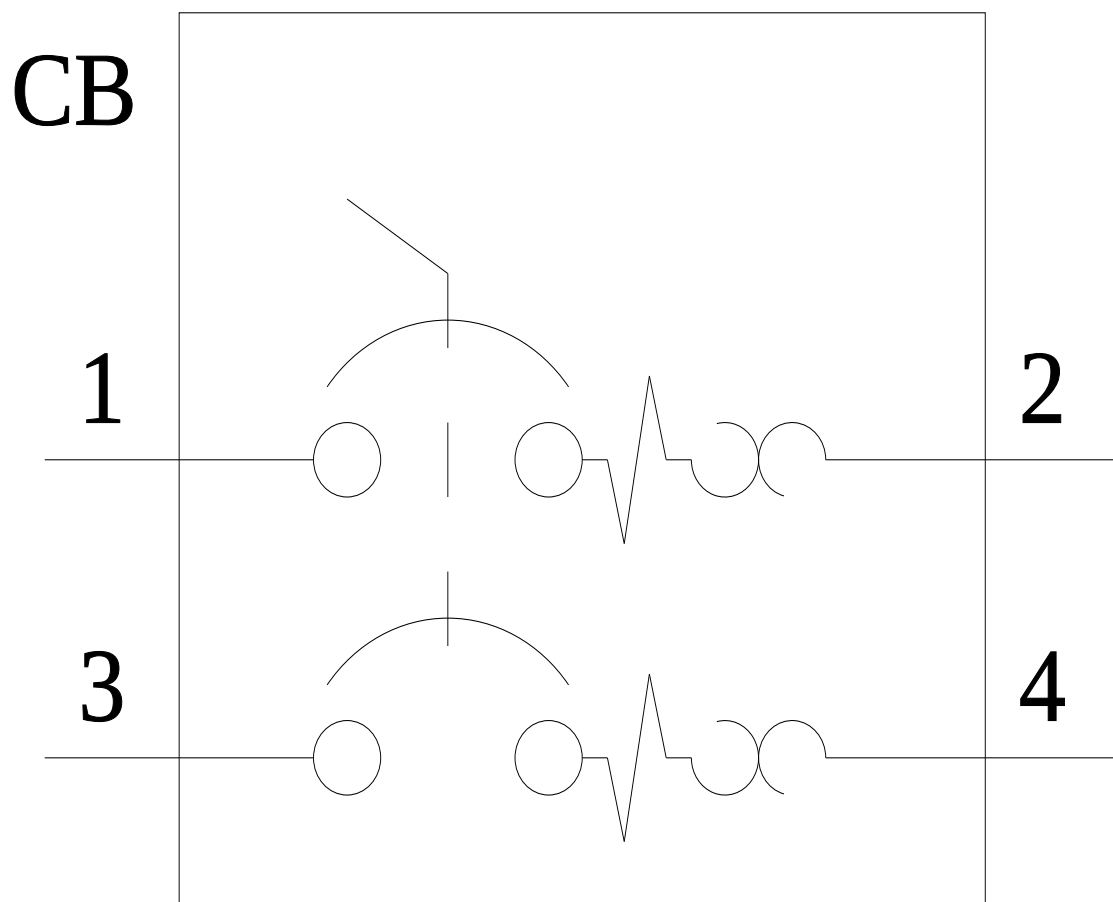
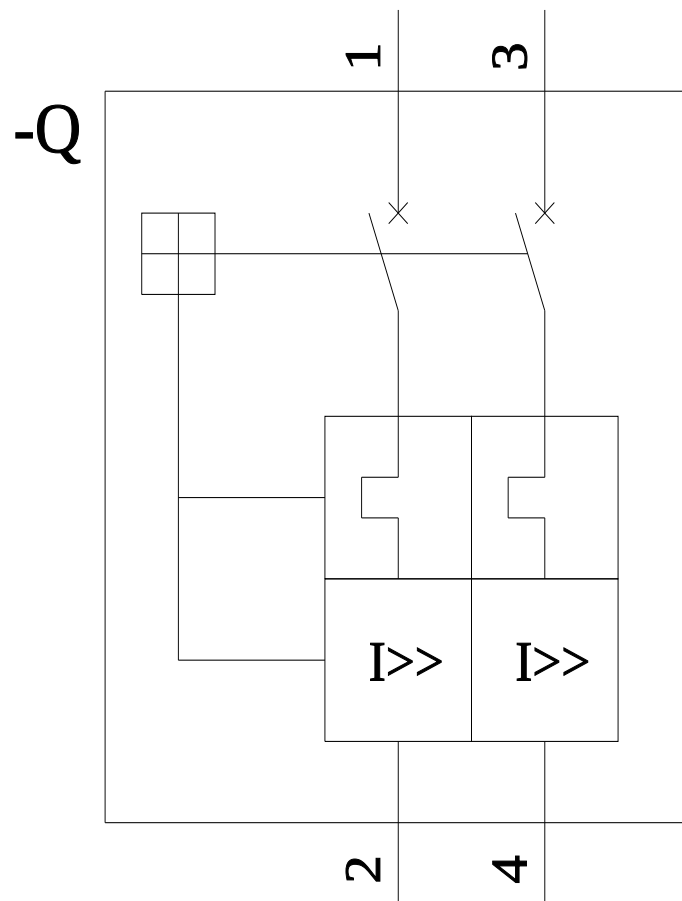
CAX-Online-Generator

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

Tender specifications

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





last modified:

7/14/2022 [🔗](#)

