



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480V 2-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 | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HEAM |
| 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 | 19.4 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 | H |
| 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 | 150 kA |
| • at 480 V | 65 kA |
| • at 600 Y/347 V | 25 kA |
| Adjustable parameters | |
| Adjustable response value current / I _g min. | 125 A |
| Adjustable response value current / I _g min. | 125 A |
| Adjustable response value current / I _i min. | 1 250 A |
| Adjustable response value current / I _i max. | 1 250 A |
| Ground fault protection / tripping switchable / I _{2t} =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=3VA5112-6ED21-1AA0>

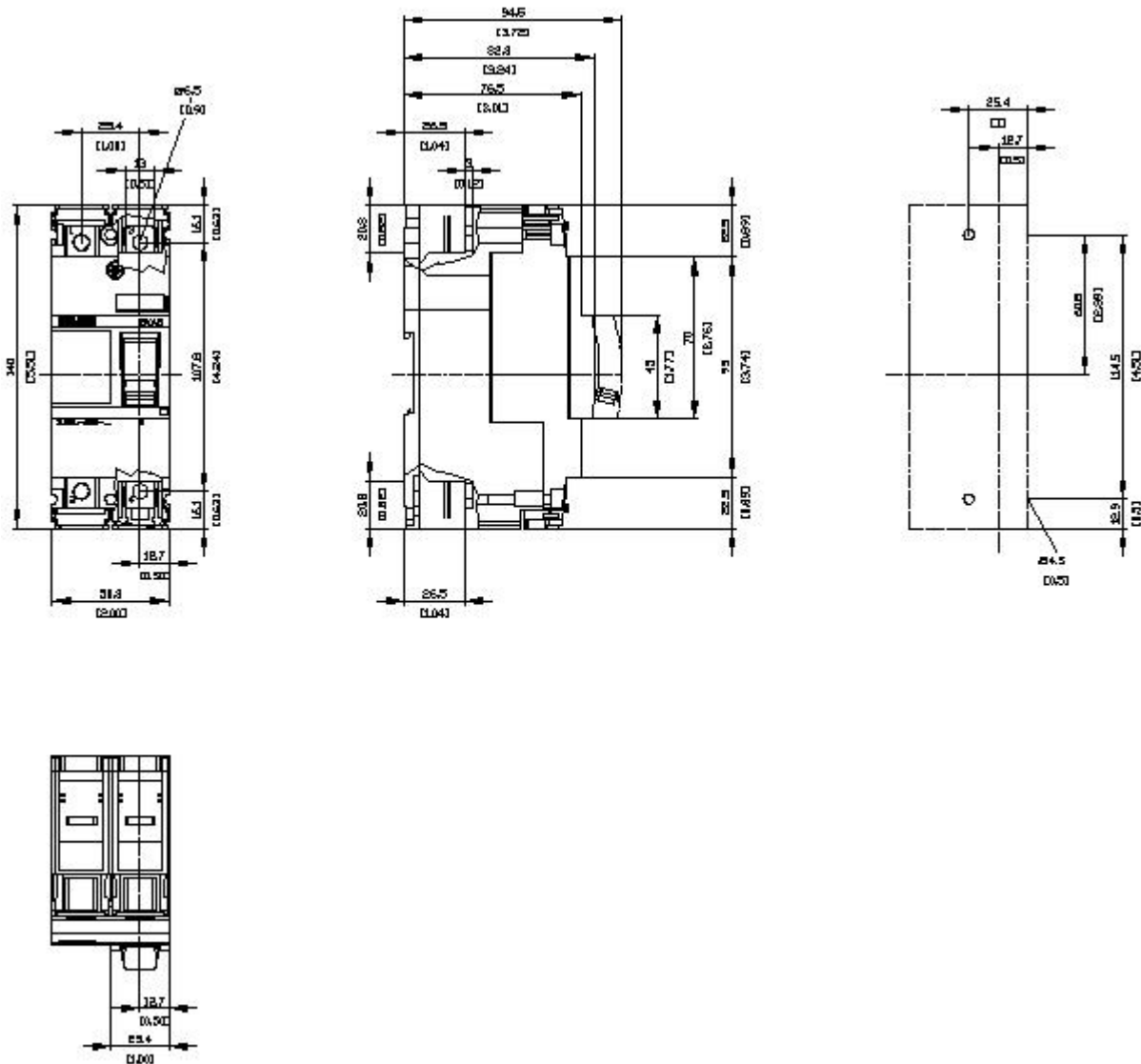
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5112-6ED21-1AA0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5112-6ED21-1AA0

Tender specifications

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


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