



circuit breaker 3VA4 UL frame 125 breaking capacity class H 65kA @ 277 V 1-pole, line protection TM210, FTFM, In=110A overload protection Ir=110A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. clamp connection

| Model   |  |
|---|--|
| product brand name  | SENTRON  |
| product designation   | Molded-case circuit breaker  |
| 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   | 1  |
| General technical data  |  |
| power loss [W] / maximum  | 8.5 W  |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                        | 8.5 W  |
| mechanical service life (switching cycles) / typical  | 15 000   |
| 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 Iu  | 110 A  |
| operational current   |  |
| • at 40 °C  | 110 A  |
| • at 45 °C  | 110 A  |
| • at 50 °C  | 110 A  |
| • at 55 °C  | 108 A  |
| • at 60 °C  | 106 A  |
| • at 65 °C  | 103 A  |
| • at 70 °C  | 101 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  |  |              |
| <ul style="list-style-type: none"> <li>• at 120 V</li> <li>• at 277 V</li> <li>• at 347 V</li> </ul>   | 150 kA<br>65 kA<br>25 kA               |              |
| Adjustable parameters  |  |              |
| Adjustable response value current / li min.  | 1 100 A                                |              |
| Adjustable response value current / li max.  | 1 100 A                                |              |
| Ground fault protection / tripping switchable / I2t=ON/OFF   | No                                     |              |
| Mechanical Design  |  |              |
| height [in]  | 5.1 in                                 |              |
| Height   | 129.4 mm                               |              |
| width [in]   | 1 in                                   |              |
| Width  | 25.4 mm                                |              |
| depth [in]   | 3 in                                   |              |
| depth  | 75.1 mm                                |              |
| Connections  |  |              |
| arrangement of electrical connectors / for main current circuit  | Load side: Circular conductor terminal |              |
| type of electrical connection / for main current circuit   | Infeed side: Low tab                   |              |
| Type of connectable conductor cross-section, round conductor terminal, stranded  | 1 x (8 AWG - 3/0)                      |              |
| 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     |              |
| Certificates   |  |              |
| reference code / acc. to IEC 81346-2   | Q                                      |              |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB   | Yes                                    |              |
| <b>General Product Approval</b>  | <b>EMC</b>                             | <b>other</b> |



[Miscellaneous](#)



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#### 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=3VA4111-6ED14-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA4111-6ED14-1AA0>

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

[http://www.automation.siemens.com/blddb/cax\\_en.aspx?mlfb=3VA4111-6ED14-1AA0](http://www.automation.siemens.com/blddb/cax_en.aspx?mlfb=3VA4111-6ED14-1AA0)

CAX-Online-Generator

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

Tender specifications

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

