



circuit breaker 3VA5 UL Frame 125 breaking capacity class H 50 kA @ 277 V 1-pole, line protection TM210, FTFM,  $I_n=110$  A overload protection  $I_r=110$  A permanently set 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   | H5EAM                       |
| 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)                      | No                          |
| 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  | 1                           |
| General technical data   |                             |
| operating voltage / at AC / rated value  | 415 V                       |
| power loss [W] / maximum   | 8.6 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole                                | 8.6 W                       |
| mechanical service life (operating cycles) / typical   | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V   | 8 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V   | 4 000                       |
| 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                          |
| product function   |                             |
| • communication function   | No                          |
| • other measurement function   | No                          |
| Net Weight   | 0.38 kg                     |
| Current  |                             |
| marking / according to UL 489 / 100%-rated breaker   | No                          |
| operational current  |                             |
| • at 40 °C   | 110 A                       |
| • at 45 °C   | 107 A                       |
| • at 50 °C   | 105 A                       |
| • at 55 °C   | 103 A                       |
| • at 60 °C   | 100 A                       |
| • at 65 °C   | 98 A                        |
| • at 70 °C   | 96 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  |  |
| current breaking capacity   |  |
| • at 120 V  | 100 kA   |
| • at 277 V  | 50 kA  |
| • at 347 V  | 18 kA  |
| Adjustable parameters   |  |
| adjustable response value setting current ( $I_r$ ) / of the L-trip / with I2t characteristic |  |
| • minimum   | 110 A  |
| • maximum   | 110 A  |
| adjustable response value delay time ( $t_r$ ) / for L-tripping / with I2t characteristic     |  |
| • minimum   | 1 s  |
| • maximum   | 1 s  |
| adjustable response value setting current ( $I_l$ ) / for I-tripping                          |  |
| • minimum   | 1 100 A  |
| • maximum   | 1 100 A  |
| adjustable setting current ( $I_{nN}$ ) / for N-tripping                                      |  |
| • minimum   | 0 A  |
| • maximum   | 0 A  |
| product function / grounding protection   | No   |
| Mechanical Design   |  |
| product component   |  |
| • undervoltage release  | No   |
| • voltage trigger   | No   |
| • trip indicator  | No   |
| height [in]   | 5.51 in  |
| height  | 140 mm   |
| width [in]  | 1 in   |
| width   | 25.4 mm  |
| depth [in]  | 3.01 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  | 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  |
| reference code / according to IEC 81346-2   | Q  |
| Approvals / Certificates  |  |
| General Product Approval  |  |



|                          |     |                   |
|--------------------------|-----|-------------------|
| General Product Approval | EMV | Test Certificates |
|--------------------------|-----|-------------------|



[Miscellaneous](#)



[Type Test Certificates/Test Report](#)

|                      |       |
|----------------------|-------|
| Maritime application | other |
|----------------------|-------|



[Confirmation](#)

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

[Miscellaneous](#)

[Environmental Confirmations](#)

|                     |
|---------------------|
| 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=3VA5111-6ED11-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5111-6ED11-1AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA5111-6ED11-1AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5111-6ED11-1AA0)

**CAX-Online-Generator**

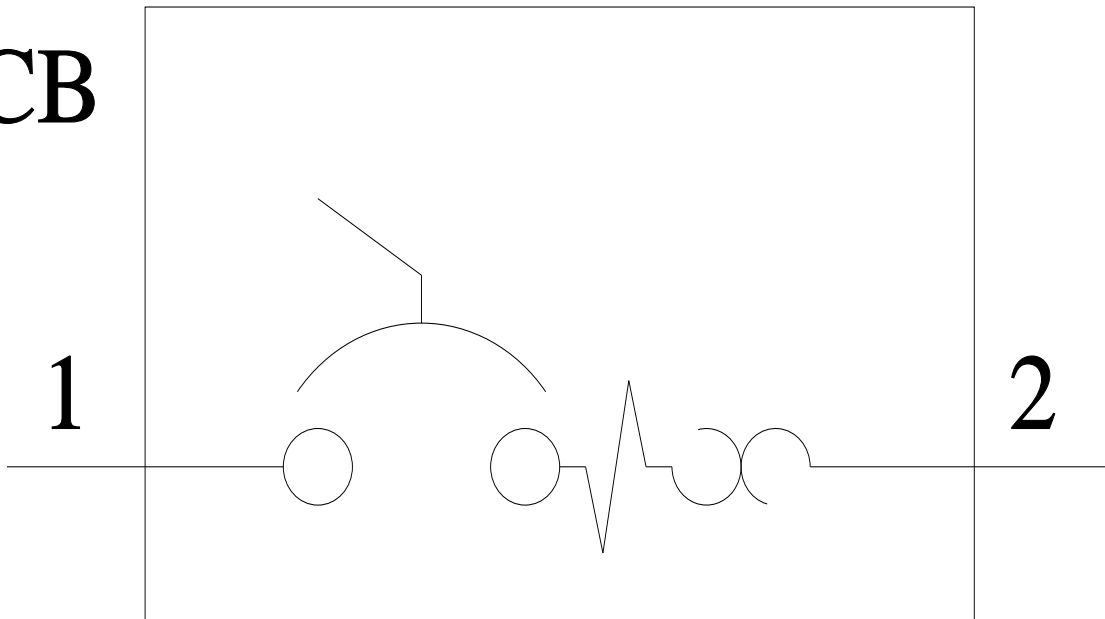
<https://www.siemens.com/cax>

**Tender specifications**

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



**CB**



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