



molded case switch 3VA4 UL frame 125 max. sh-circ breaking capacity 65kA @ 480 V 3-pole, line protection MCS110, In=100A without overload protection self-protection li=16 x In clamp connection

| Model | |
|--|-----------------------------|
| product brand name | SENTRON |
| product designation | Molded-case circuit breaker |
| product designation / according to UL file | HEAB |
| design of the product | molded case switch |
| 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 | MCS110 |
| protection function of the overcurrent release | I |
| number of poles | 3 |
| General technical data | |
| operating voltage / at AC / rated value | 600 V |
| power loss [W] / maximum | 18.5 W |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 6.2 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/retrofittable / 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 | 100 A |
| • at 45 °C | 100 A |
| • at 50 °C | 100 A |
| • at 55 °C | 100 A |
| • at 60 °C | 100 A |
| • at 65 °C | 97 A |
| • at 70 °C | 94 A |
| Switching capacity according to IEC 60947 | |

| | | | |
|---|---|---|---|
| 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 | | |
| Adjustable parameters | | | |
| product function / grounding protection | No | | |
| Mechanical Design | | | |
| product component | | | |
| • undervoltage release | No | | |
| • voltage trigger | No | | |
| • trip indicator | 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 (8 AWG - 3/0) | | |
| width | 76.2 mm | | |
| depth [in] | 2.96 in | | |
| depth | 75.1 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 | | | |
| • during operation / minimum | -25 °C | | |
| • during operation / maximum | 70 °C | | |
| • during storage / minimum | -40 °C | | |
| • during storage / maximum | 80 °C | | |
| Approvals / Certificates | | | |
| General Product Approval | EMV | | |
| Confirmation |  | Miscellaneous |  |
|  | | | |
| other | Environment | | |
| Confirmation | 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=3VA4110-1BB34-0AA0 | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...) | https://support.industry.siemens.com/cs/ww/en/ps/3VA4110-1BB34-0AA0 | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) | https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4110-1BB34-0AA0 | | |
| 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=)





