## SIEMENS

## Data sheet

## 3VA5170-4ED11-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=70A overload protection Ir=70A fixed short-circuit protection li=10 x In without connection

| Model   |                             |
|---|-----------------------------|
| product brand name  | SENTRON                     |
| product designation   | Molded-case circuit breaker |
| product designation / according to UL file  | SEAS                        |
| design of the product   | System protection           |
| design of the load switch / according to UL 489 / Heating, Air<br>Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                         |
| design of the load switch / according to UL 489 / High-Intensity-<br>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  | U                           |
| number of poles   | 1                           |
| General technical data  |                             |
| insulation voltage / rated value  | 500 V                       |
| operating voltage / at DC / rated value   | 125 V                       |
| operating voltage / at AC / rated value   | 415 V                       |
| power loss [W] / maximum  | 6.1 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole                                   | 6.1 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/retrofittable / short-circuit and overload proof                        | No                          |
| ground-fault monitoring version   | without                     |
| product function  |                             |
| <ul> <li>communication function</li> </ul>  | No                          |
| <ul> <li>other measurement function</li> </ul>  | No                          |
| Net Weight  | 0.383 kg                    |
| Current   |                             |
| marking / according to UL 489 / 100%-rated breaker  | No                          |
| operational current   |                             |
| • at 40 °C  | 70 A                        |
| ● at 45 °C  | 69 A                        |
| ● at 50 °C  | 68 A                        |
| • at 55 °C  | 67 A                        |
| • at 60 °C  | 66 A                        |
| ● at 65 °C  | 65 A                        |

| ● at 70 °C  | 64 A   |
|---|--|
| Switching capacity according to IEC 60947   |  |
| switching capacity class of the circuit breaker   | S  |
| maximum short-circuit current breaking capacity (Icu)                                     |  |
| • at 240 V  | 25 kA  |
| • at 415 V  | 5 kA   |
| operating short-circuit current breaking capacity (lcs)                                   |  |
| • at 240 V  | 25 kA  |
| • at 415 V  | 5 kA   |
| short-circuit current making capacity (Icm)   |  |
| • at 240 V  | 52.5 kA  |
| ● at 415 V  | 7.5 kA   |
| design of short-circuit protection  | For switching power values in DC networks, see the 3VA molded case circuit<br>breaker device manual; link to be found under Service & Support in the last<br>chapter |
| Switching capacity according to UL 489  |  |
| current breaking capacity   |  |
| • at 120 V  | 65 kA  |
| • at 277 V  | 25 kA  |
| • at 347 V  | 14 kA  |
| Adjustable parameters   |  |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic  |  |
| • minimum   | 70 A   |
| • maximum   | 70 A   |
| adjustable response value delay time (tr) / for L-tripping / with I2t                     |  |
| characteristic  |  |
| • minimum   | 1 s  |
| maximum   | 1 s  |
| adjustable response value setting current (li) / for I-tripping                           |  |
| • minimum   | 700 A  |
| • maximum   | 700 A  |
| adjustable setting current (InN) / for N-tripping   |  |
| • minimum   | 0 A  |
| maximum   | 0 A  |
| adjustable current response value current / of the current-<br>dependent overload release | 70 70 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   | Without connection   |
| arrangement of electrical connectors / for main current circuit                           | Without connection   |
| type of electrical connection / for main current circuit<br>Auxiliary circuit             | Without  |
| 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 operation / maximum     ouring storage / minimum                                   | -40 °C   |
| gg- · · · · · · · · · · · ·   |  |

| <ul> <li>during storage / r</li> </ul>  | naximum                | 80 °C                  |                           |  |   |  |  |
|---|------------------------|------------------------|---------------------------|--|---|--|--|
| Certificates  |                        |                        |                           |  |   |  |  |
| reference code / accord   | ling to IEC 81346-2    | Q                      |                           |  |   |  |  |
| General Product App   | -                      |                        |                           |  |   |  |  |
| hh.   |                        |                        |                           |  |   |  |  |
|   | <u>Confirmation</u>    |                        |                           | DE   | <u>Miscellaneous</u>                        |  |  |
| General Product Approval  | EMC                    | Declaration of Conform | lity                      | Test Certificates                              |   |  |  |
| EHC   | RCM                    | CE<br>EG-Konf.         | UK<br>CA                  | <u>Type Test Certific-</u><br>ates/Test Report | <u>Special Test Certific-</u><br><u>ate</u> |  |  |
| Marine / Shipping   |                        |                        |                           |  | other                                       |  |  |
| ABS   | BUREAU<br>VERITAS      |                        | Llovd's<br>Register<br>us | RMRS   | <u>Confirmation</u>                         |  |  |
| other   |                        |                        |                           |  |   |  |  |
| <u>Miscellaneous</u>  | <u>Miscellaneous</u>   |                        |                           |  |   |  |  |
| Further information   |                        |                        |                           |  |   |  |  |
| Siemens has decided to exit the Russian market (see here).  |                        |                        |                           |  |   |  |  |
| https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business<br>Siemens is working on the renewal of the current EAC certificates.<br>Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an<br>EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). |                        |                        |                           |  |   |  |  |
| Information on the packaging<br>https://support.industry.siemens.com/cs/ww/en/view/109813875  |                        |                        |                           |  |   |  |  |
|   | nloadcenter (Catalogs, |                        |                           |  |   |  |  |
| http://www.siemens.com  | n/lowvoltage/catalogs  | 2.001.00,)             |                           |  |   |  |  |
| Industry Mall (Online ordering system)  |                        |                        |                           |  |   |  |  |

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5170-4ED11-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5170-4ED11-0AA0

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

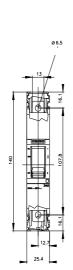
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5170-4ED11-0AA0

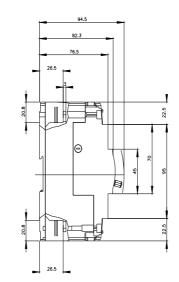
CAx-Online-Generator

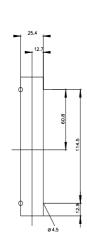
http://www.siemens.com/cax

Tender specifications

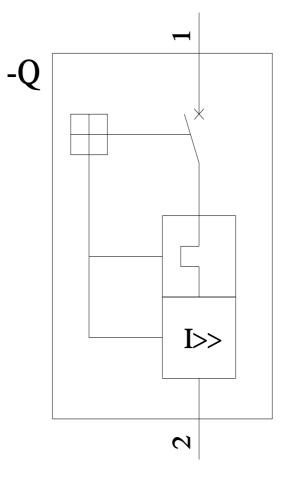
http://www.siemens.com/specifications

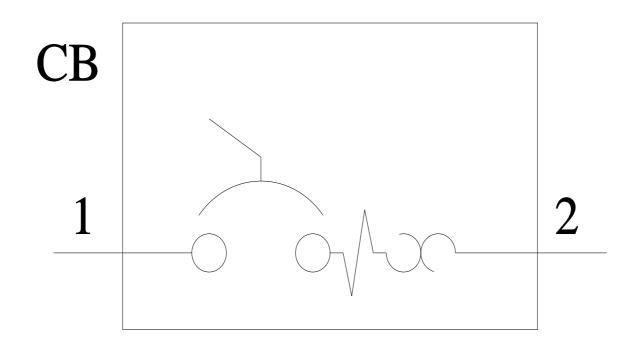












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