



circuit breaker 3VA5 UL frame 250 3-pole, starter protection TM120M, AM,  $I_n=200A$  without overload protection short-circuit protection  $I_i=3...6 \times I_n$  cable connection on both sides

| Model  |                             |
|--|-----------------------------|
| product brand name   | SENTRON                     |
| product designation  | Molded-case circuit breaker |
| product designation / according to UL file   | CFAP                        |
| Product version  | Starter 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  | TM120M                      |
| protection function of the overcurrent release   | I                           |
| number of poles  | 3                           |
| General technical data   |                             |
| rated insulation voltage $U_i$   | 800 V                       |
| operating voltage / at AC / rated value  | 690 V                       |
| power loss [W] / maximum   | 58 W                        |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                             | 19.33 W                     |
| mechanical service life (switching cycles) / typical   | 20 000                      |
| 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                          |
| • phase failure detection  | No                          |
| • other measurement function   | No                          |
| Net Weight   | 2.308 kg                    |
| Current  |                             |
| marking / according to UL 489 / 100%-rated breaker   | No                          |
| Switching capacity according to IEC 60947  |                             |
| breaking capacity maximum short-circuit current ( $I_{cu}$ )   |                             |
| • at 240 V   | 200 kA                      |
| • at 415 V   | 110 kA                      |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>at 690 V</li> </ul>   | 10 kA  |
| breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"> <li>at 240 V</li> <li>at 415 V</li> <li>at 690 V</li> </ul> | 200 kA<br>110 kA<br>10 kA  |
| short-circuit current making capacity (Icm) <ul style="list-style-type: none"> <li>at 240 V</li> <li>at 415 V</li> <li>at 690 V</li> </ul>             | 440 kA<br>242 kA<br>17 kA  |
| 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

|  |    |
|--|----|
| Ground fault protection / tripping switchable / I2t=ON/OFF | No |
|--|----|

#### Mechanical Design

|             |         |
|-------------|---------|
| height [in] | 7.28 in |
| Height      | 185 mm  |
| width [in]  | 4.13 in |
| Width       | 105 mm  |
| depth [in]  | 3.27 in |
| depth       | 83 mm   |

#### Connections

|   |   |
|---|---|
| arrangement of electrical connectors / for main current circuit                 | Front connection                          |
| type of electrical connection / for main current circuit                        | circular conductor terminal on both sides |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6 AWG - 350 kcmil)                   |

#### Auxiliary circuit

|   |                |
|---|----------------|
| product component   |                |
| <ul style="list-style-type: none"> <li>undervoltage release</li> <li>voltage trigger</li> <li>trip indicator</li> </ul> | No<br>No<br>No |
| 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  |                                    |
| <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 / according to IEC 81346-2  | Q   |
| certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB | Yes |

#### General Product Approval

EMC

Declaration of Conformity


[Confirmation](#)


#### Marine / Shipping

other


[Miscellaneous](#)

## 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?mfb=3VA5225-1MU36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5225-1MU36-0AA0>

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

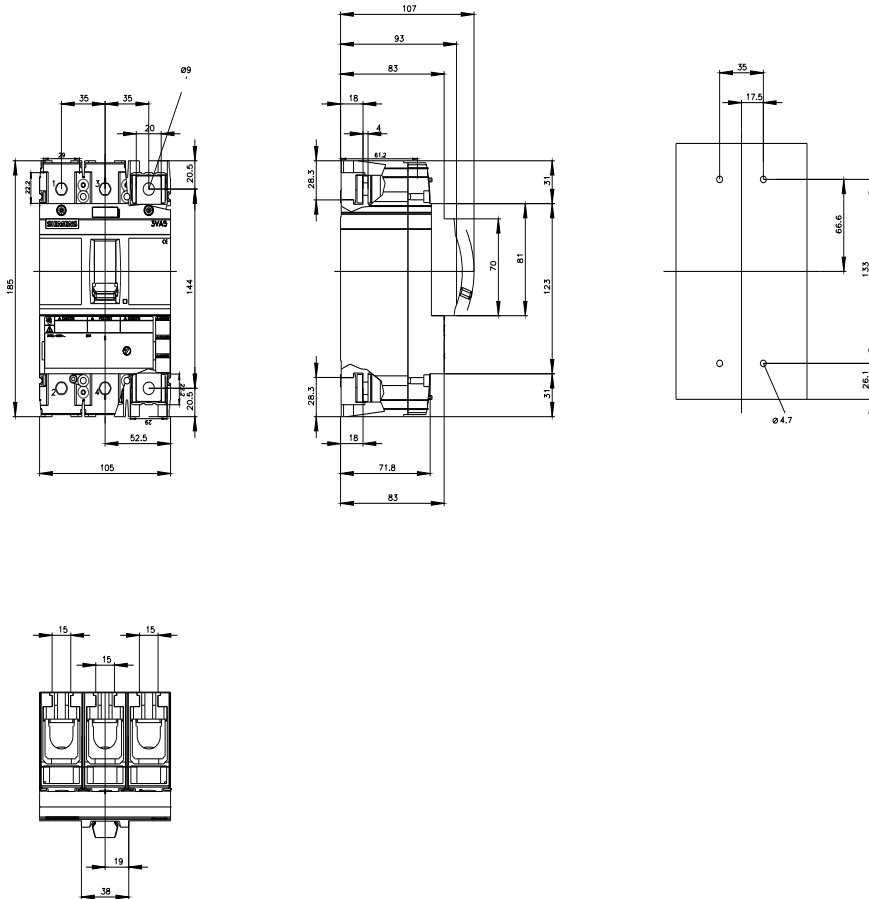
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA5225-1MU36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA5225-1MU36-0AA0)

CAX-Online-Generator

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

Tender specifications

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





last modified:

7/15/2022

