



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480 V 3-pole, line protection TM240, ATAM, In=175A overload protection Ir=140A ...175A short-circuit protection li=5...10 x In cable connection on both sides

| Model                                                                                                                      |                             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                                                         | SENTRON                     |
| product designation                                                                                                        | Molded-case circuit breaker |
| product designation / according to UL file                                                                                 | HFAS                        |
| Product version                                                                                                            | 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                                                                                          | TM240                       |
| protection function of the overcurrent release                                                                             | LI                          |
| number of poles                                                                                                            | 3                           |
| General technical data                                                                                                     |                             |
| rated insulation voltage Ui                                                                                                | 800 V                       |
| Max. rated operational voltage Ue with DC                                                                                  | 750 V                       |
| operating voltage / at AC / rated value                                                                                    | 690 V                       |
| power loss [W] / maximum                                                                                                   | 35 W                        |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                             | 11.7 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                          |
| • other measurement function                                                                                               | No                          |
| Net Weight                                                                                                                 | 2.308 kg                    |
| Current                                                                                                                    |                             |
| marking / according to UL 489 / 100%-rated breaker                                                                         | No                          |
| operational current                                                                                                        |                             |
| • at 40 °C                                                                                                                 | 175 A                       |
| • at 45 °C                                                                                                                 | 171 A                       |
| • at 50 °C                                                                                                                 | 166 A                       |

|            |       |
|------------|-------|
| • at 55 °C | 162 A |
| • at 60 °C | 158 A |
| • at 65 °C | 153 A |
| • at 70 °C | 149 A |

#### Switching capacity according to IEC 60947

|                                                         |                                                                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| switching capacity class of the circuit breaker         | H                                                                                                                                                              |
| breaking capacity maximum short-circuit current (Icu)   |                                                                                                                                                                |
| • at 240 V                                              | 100 kA                                                                                                                                                         |
| • at 415 V                                              | 70 kA                                                                                                                                                          |
| • at 690 V                                              | 10 kA                                                                                                                                                          |
| breaking capacity operating short-circuit current (Ics) |                                                                                                                                                                |
| • at 240 V                                              | 100 kA                                                                                                                                                         |
| • at 415 V                                              | 70 kA                                                                                                                                                          |
| • at 690 V                                              | 10 kA                                                                                                                                                          |
| short-circuit current making capacity (Icm)             |                                                                                                                                                                |
| • at 240 V                                              | 220 kA                                                                                                                                                         |
| • at 415 V                                              | 154 kA                                                                                                                                                         |
| • at 690 V                                              | 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 |

#### Switching capacity according to UL 489

|                           |        |
|---------------------------|--------|
| breaking capacity current |        |
| • at 240 V                | 100 kA |
| • at 480 V                | 65 kA  |
| • at 600 V                | 25 kA  |

#### Adjustable parameters

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Adjustable response value current / I <sub>g</sub> min.                 | 123 A |
| Adjustable response value current / I <sub>g</sub> min.                 | 175 A |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =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                              |    |
| • undervoltage release                         | No |
| • voltage trigger                              | No |
| • trip indicator                               | 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                |        |
| • during operation / minimum       | -25 °C |
| • during operation / maximum       | 70 °C  |
| • during storage / minimum         | -40 °C |
| • during storage / maximum         | 80 °C  |

#### Certificates

|                                           |   |
|-------------------------------------------|---|
| reference code / according to IEC 81346-2 | Q |
|-------------------------------------------|---|



[Confirmation](#)



Declaration of Conformity

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=3VA5217-6EF36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA5217-6EF36-0AA0>

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

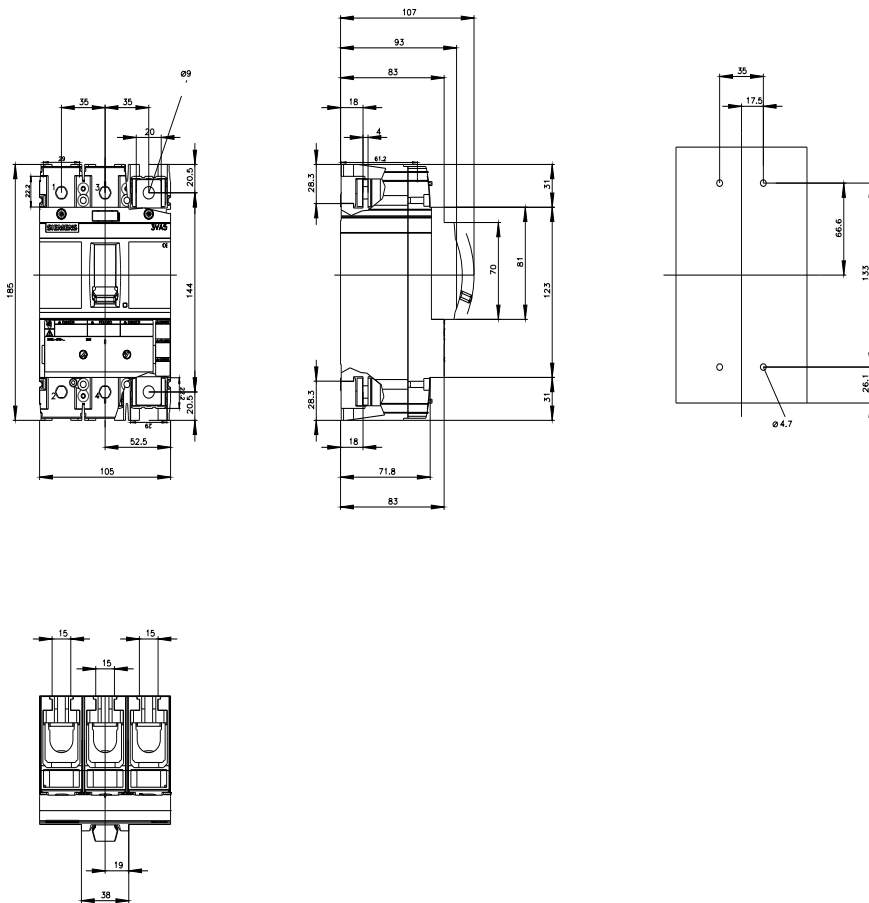
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA5217-6EF36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA5217-6EF36-0AA0)

CAX-Online-Generator

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

Tender specifications

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





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