










Non-automatic circuit breaker Fixed-mounted version, IEC 60947-2, frame size 1, 3-poles,  $I_n=800A$  up to 690V AC 50/60Hz, breaking capacity  $N I_{cc}=55/42kA$  at 500/690V, without electr. trip unit ETU, rear connection, vertical top horizontal bottom, without Com & metering function Manual operating mechanism with mechanical closing, without Spring charging motor, Ready-to-close signal. switch, Auxiliary switches 4NO+4NC, without Closing coil (CC), manual operating mechanism with mechanical closing, without Remote trip alarm reset coil (RR), without 2nd shunt trip, Shunt trip (ST) 100% OP 110-127 V AC / 110-125 V DC, suitable for continuous duty, Option S01 = Locking provision against unauthorized closing Secured Open; for with CES lock Option S55 = Mutual mechanical interlocking with 2 m bowden cable for circuit breakers in fixed- mounted design necessary once for each circuit breaker.

| Model                                                                                   |                                                                  |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| product brand name                                                                      | SENTRON                                                          |
| product designation                                                                     | Non-automatic circuit breaker                                    |
| suitability for use                                                                     | AC non-automatic circuit breaker                                 |
| size of the circuit-breaker                                                             | 1                                                                |
| number of poles                                                                         | 3                                                                |
| position / of neutral conductor                                                         | no internal N-conductor                                          |
| fastening method                                                                        | fixed-mounted circuit breakers                                   |
| design of the product                                                                   | AC application                                                   |
| type of the driving mechanism                                                           | manual operating mechanism with mechanical or electrical closing |
| Weight                                                                                  | 43.274 kg                                                        |
| Net Weight                                                                              | 30.274 kg                                                        |
| General technical data                                                                  |                                                                  |
| insulation voltage / rated value                                                        | 1000 V                                                           |
| operating voltage / at AC / at 50/60 Hz / rated value                                   | 690 V                                                            |
| power loss [W] / maximum                                                                | 45 W                                                             |
| Current                                                                                 |                                                                  |
| continuous current / rated value / maximum                                              | 800 A                                                            |
| continuous current / rated value                                                        | 800 A                                                            |
| operational current                                                                     |                                                                  |
| • at 40 °C / rated value                                                                | 800 A                                                            |
| • at 45 °C / rated value                                                                | 800 A                                                            |
| • at 50 °C / rated value                                                                | 800 A                                                            |
| • at 55 °C / rated value                                                                | 800 A                                                            |
| • at 60 °C / rated value                                                                | 800 A                                                            |
| • at 65 °C / rated value                                                                | 800 A                                                            |
| • at 70 °C / rated value                                                                | 800 A                                                            |
| Switching capacity and short-time withstand current, according to IEC 60947-2           |                                                                  |
| switching capacity class of the circuit breaker                                         | N                                                                |
| conditional short-circuit current ( $I_{cc}$ ) / for non-automatic air circuit breakers |                                                                  |
| • at AC / at 500 V / rated value                                                        | 55 kA                                                            |
| • at AC / at 690 V / rated value                                                        | 42 kA                                                            |
| Basic protection functions                                                              |                                                                  |
| <b>L: Overload protection N-conductor</b>                                               |                                                                  |
| <b>S: delayed short-circuit protection ST</b>                                           |                                                                  |

|                                                                                                                                                                         |                                                                                                                                                                         |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>S: delayed short-circuit protection ST, settings values I0t</b>                                                                                                      |                                                                                                                                                                         |                                                                    |
| <b>S: delayed short-circuit protection ST, settings values I2t</b>                                                                                                      |                                                                                                                                                                         |                                                                    |
| <b>G: ground fault GF</b>                                                                                                                                               |                                                                                                                                                                         |                                                                    |
| <b>Measuring functions</b>                                                                                                                                              |                                                                                                                                                                         |                                                                    |
| measurement function                                                                                                                                                    |                                                                                                                                                                         |                                                                    |
| • current measurement                                                                                                                                                   | Yes                                                                                                                                                                     |                                                                    |
| <b>Communication</b>                                                                                                                                                    |                                                                                                                                                                         |                                                                    |
| communication function                                                                                                                                                  | No                                                                                                                                                                      |                                                                    |
| <b>Service Life</b>                                                                                                                                                     |                                                                                                                                                                         |                                                                    |
| mechanical service life (operating cycles)                                                                                                                              |                                                                                                                                                                         |                                                                    |
| • without support / typical                                                                                                                                             | 15000                                                                                                                                                                   |                                                                    |
| • with support / typical                                                                                                                                                | 30000                                                                                                                                                                   |                                                                    |
| electrical endurance (operating cycles)                                                                                                                                 |                                                                                                                                                                         |                                                                    |
| • at 690 V / without support / typical                                                                                                                                  | 10000                                                                                                                                                                   |                                                                    |
| • at 690 V / with support / typical                                                                                                                                     | 30000                                                                                                                                                                   |                                                                    |
| <b>Dimensions</b>                                                                                                                                                       |                                                                                                                                                                         |                                                                    |
| height                                                                                                                                                                  | 437 mm                                                                                                                                                                  |                                                                    |
| width                                                                                                                                                                   | 320 mm                                                                                                                                                                  |                                                                    |
| depth                                                                                                                                                                   | 357 mm                                                                                                                                                                  |                                                                    |
| <b>Main connection</b>                                                                                                                                                  |                                                                                                                                                                         |                                                                    |
| arrangement of electrical connectors / for main current circuit                                                                                                         | main connection on the rear, vertical on top / horizontal at the bottom                                                                                                 |                                                                    |
| <b>Auxiliary circuit</b>                                                                                                                                                |                                                                                                                                                                         |                                                                    |
| design of the auxiliary switch                                                                                                                                          | 4 NO + 4 NC                                                                                                                                                             |                                                                    |
| number of NC contacts / for auxiliary contacts                                                                                                                          | 4                                                                                                                                                                       |                                                                    |
| number of NO contacts / for auxiliary contacts                                                                                                                          | 4                                                                                                                                                                       |                                                                    |
| number of CO contacts / for auxiliary contacts                                                                                                                          | 0                                                                                                                                                                       |                                                                    |
| <b>Internal accessories</b>                                                                                                                                             |                                                                                                                                                                         |                                                                    |
| product component                                                                                                                                                       |                                                                                                                                                                         |                                                                    |
| • undervoltage release                                                                                                                                                  | No                                                                                                                                                                      |                                                                    |
| • voltage trigger                                                                                                                                                       | Yes                                                                                                                                                                     |                                                                    |
| • trip indicator                                                                                                                                                        | No                                                                                                                                                                      |                                                                    |
| • motor drive                                                                                                                                                           | No                                                                                                                                                                      |                                                                    |
| <b>Environmental conditions</b>                                                                                                                                         |                                                                                                                                                                         |                                                                    |
| protection class IP / on the front                                                                                                                                      | IP20                                                                                                                                                                    |                                                                    |
| ambient temperature / during operation                                                                                                                                  |                                                                                                                                                                         |                                                                    |
| • minimum                                                                                                                                                               | -40 °C                                                                                                                                                                  |                                                                    |
| • maximum                                                                                                                                                               | 70 °C                                                                                                                                                                   |                                                                    |
| ambient temperature / during storage                                                                                                                                    |                                                                                                                                                                         |                                                                    |
| • minimum                                                                                                                                                               | -40 °C                                                                                                                                                                  |                                                                    |
| • maximum                                                                                                                                                               | 80 °C                                                                                                                                                                   |                                                                    |
| <b>Certificates</b>                                                                                                                                                     |                                                                                                                                                                         |                                                                    |
| reference code / according to IEC 81346-2                                                                                                                               | Q                                                                                                                                                                       |                                                                    |
| <b>Approvals / Certificates</b>                                                                                                                                         |                                                                                                                                                                         |                                                                    |
| <b>Environment</b>                                                                                                                                                      | <b>General Product Approval</b>                                                                                                                                         |                                                                    |
|   |   |                                                                    |
|                                                                                                                                                                         | <a href="#">Confirmation</a>                                                       |                                                                    |
| <b>General Product Approval</b>                                                                                                                                         | <b>EMV</b>                                                                                                                                                              | <b>Radio Equipment Type Approval Certificate</b>                   |
|   |   | <a href="#">Miscellaneous</a> <a href="#">Industry Canada (IC)</a> |
| <b>Radio Equipment Type Approval Certificate</b>                                                                                                                        | <b>Test Certificates</b>                                                                                                                                                | <b>Maritime application</b>                                        |

[Miscellaneous](#)

[FCC](#)

[Miscellaneous](#)

[Special Test Certificate](#)



#### Maritime application

#### other



[Manufacturer Declaration](#)

[Confirmation](#)

#### Dangerous goods

[Transport Information](#)

#### 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 (catalogues, leaflets,...)

<https://www.siemens.com/energy-automation>

##### Industry Mall (Online ordering system)

[https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1108-2AA05-1AA3-Z\\_S01+S55](https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1108-2AA05-1AA3-Z_S01+S55)

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

[https://support.industry.siemens.com/cs/ww/en/ps/3WA1108-2AA05-1AA3-Z\\_S01+S55](https://support.industry.siemens.com/cs/ww/en/ps/3WA1108-2AA05-1AA3-Z_S01+S55)

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

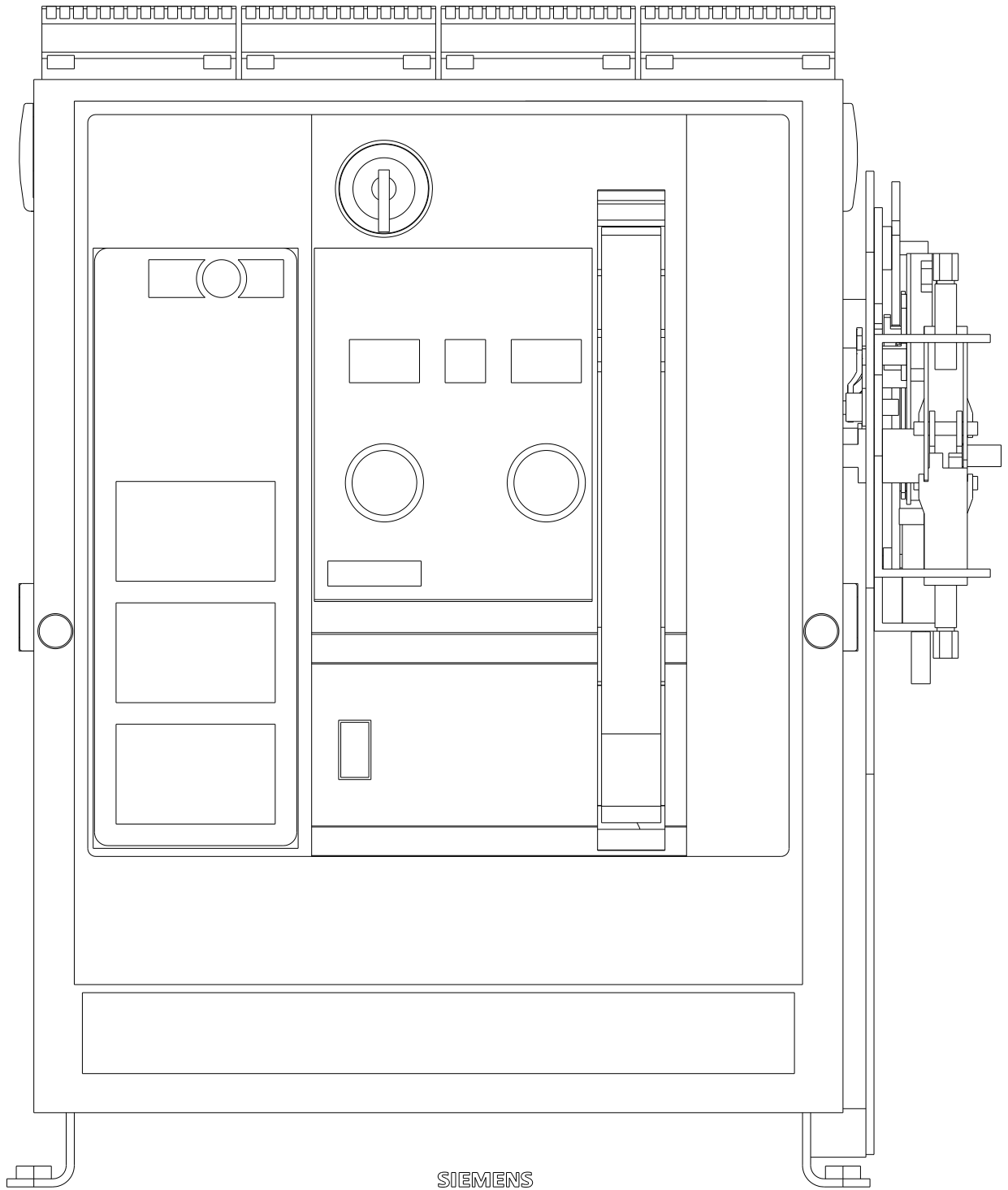
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1108-2AA05-1AA3-Z\\_S01+S55](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1108-2AA05-1AA3-Z_S01+S55)

##### CAX-Online-Generator

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

##### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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