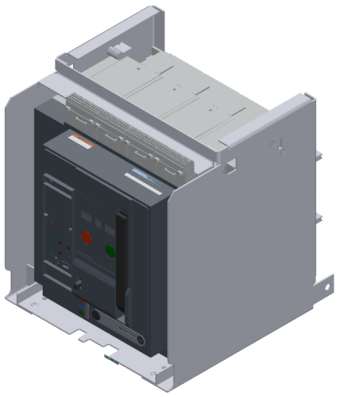
SIEMENS

## Data sheet 3WA1108-3AC42-0AA0



Siemens EcoTech

Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 1, 4-poles, N-pole left, In=800A up to 690V AC 50/60Hz, breaking capacity S Icu=66/50kA at 500/690V, Trip unit ETU300 LSIG optimized for standard applica- tions, without display Protection LT, ST, INST, GF, include N-protection, (internal N-sensor available), incl. trip alarm switch (1xCO), rear connection horizontal, guide frame with shutter and w/o position signalling switch, without Com & metering function Manual operating mechanism with mechanical closing, without Spring charging motor, Ready-to-close signal. switch, Auxiliary switches 2NO+2NC, without Closing coil (CC), manual operating mechanism with mechanical closing, without Remote trip alarm reset coil (RR), without 2nd shunt trip, without 1st Shunt trip

| | |
|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | Air circuit breaker |
| suitability for use | circuit breaker |
| size of the circuit-breaker | I |
| number of poles | 4 |
| position / of neutral conductor | neutral left |
| fastening method | withdrawable circuit breaker |
| design of the product | AC application |
| type of the driving mechanism | manual operating mechanism with mechanical or electrical closing |
| design of the electronic trip unit | ETU300 LSIG |
| Weight | 86.1 kg |
| Net Weight | 73.1 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 | 85 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 | S |
| maximum short-circuit current breaking capacity (Icu) | |
| ● at 500 V / rated value | 66 kA |
| ● at 690 V / rated value | 50 kA |
| operating short-circuit current breaking capacity (Ics) | |
| ● at 500 V / rated value | 66 kA |
| ● at 690 V / rated value | 50 kA |
| short-circuit current making capacity (Icm) | |

| | |
|---|---|
| ● at 500 V / rated value | 145 kA |
| ● at 690 V / rated value | 105 kA |
| short-time withstand current (Icw) / at 500 V AC | |
| ● for 0.5 s / rated value | 66 kA |
| ● for 1 s / rated value | 66 kA |
| ● for 2 s / rated value | 45 kA |
| ● for 3 s / rated value | 35 kA |
| short-time withstand current (Icw) / at 690 V AC | |
| ● for 0.5 s / rated value | 50 kA |
| ● for 1 s / rated value | 50 kA |
| ● for 2 s / rated value | 45 kA |
| ● for 3 s / rated value | 35 kA |
| **Electronic release unit** | |
| product feature | |
| ● upgradable | No |
| ● Bluetooth and USB interface | No |
| ● decoder for basic protection functions | Yes |
| ● display and function keys | No |
| ● SENTRON powerconfig configuration software | No |
| **Basic protection functions** | |
| product feature / for L-tripping | |
| ● can be switched on/off | No |
| ● selectable characteristic function | No |
| ● decoder and infinite adjustability are selectable with eSet | No |
| set values setting current (Ir) / for L-tripping / with I2t characteristic | 0.4;0.5;0.6;0.7;0.75;0.8;0.85;0.9;0.95;1.0 |
| reference value setting current (Ir) / for L-tripping / with I2t characteristic | x In |
| set values delay time (tr) / for L-tripping / with I2t characteristic | 0.75;1;2;5;8;10;14;17;21;25 |
| reference value delay time (tr) / for L-tripping / with I2t characteristic | s |
| **L: Overload protection N-conductor** | |
| product feature / with neutral conductor protection / can be switched on/off | No |
| setting values setting current (InN) / for N-tripping | 1 |
| reference value setting current (InN) / for N-tripping | x In |
| **S: delayed short-circuit protection ST** | |
| product feature / for S-tripping | |
| ● independent of direction / can be switched on/off | Yes |
| ● independent of direction / selectable characteristic function | Yes |
| ● decoder and infinite adjustability are selectable with eSet | No |
| **S: delayed short-circuit protection ST, settings values I0t** | |
| set values setting current (Isd) / for S-tripping / with I0t characteristic | 1.5;2;2.5;3;4;5;6;8;10 |
| reference value setting current (Isd) / for S-tripping / with I0t characteristic | x Ir |
| set values delay time (tsd) / for S-tripping / with I0t characteristic | 0.08;0.15;0.22;0.3;0.4 |
| reference value delay time (tsd) / for S-tripping / with I0t characteristic | s |
| **S: delayed short-circuit protection ST, settings values I2t** | |
| set values setting current (Isd) / for S-tripping / with I2t characteristic | 1.5;2;2.5;3;4;5;6;8;10 |
| reference value setting current (Isd) / for S-tripping / with I2t characteristic | x Ir |
| set values delay time (tsd) / for S-tripping / with I2t characteristic | 0.08;0.15;0.22;0.3;0.4 |
| product feature / for I-tripping | |
| ● can be switched on/off | No |
| ● decoder and infinite adjustability are selectable (with eSet) | No |
| set values setting current (Ii) / for I-tripping | 1.5;2;3;4;5;6;8;10;12;15 |
| reference value setting current (Ii) / for I-tripping | x In |
| **G: ground fault GF** | |
| product feature / for G-tripping | |

| | |
|---|---|
| ● can be switched on/off | No |
| ● selectable characteristic function | No |
| set values setting current (Ig) / for G-tripping / with I0t characteristic | 0,2 |
| reference value setting current (Ig) / for G-tripping / with I0t characteristic | x In |
| set values delay time (tg) / for G-tripping / with I0t characteristic | 0.2 |
| reference value delay time (tg) / for G-tripping / with I0t characteristic | s |
| **Further protective functions** | |
| protection function | |
| ● maintenance mode DAS+ | Yes |
| **Measuring functions** | |
| measurement function | |
| ● current measurement | Yes |
| **Communication** | |
| communication function | No |
| **Service Life** | |
| 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 |
| **Dimensions** | |
| height | 468 mm |
| width | 410 mm |
| depth | 471 mm |
| **Main connection** | |
| arrangement of electrical connectors / for main current circuit | main connection on the rear, horizontal |
| **Auxiliary circuit** | |
| design of the auxiliary switch | 2 NO + 2 NC |
| number of NC contacts / for auxiliary contacts | 2 |
| number of NO contacts / for auxiliary contacts | 2 |
| number of CO contacts / for auxiliary contacts | 0 |
| **Internal accessories** | |
| product component | |
| ● undervoltage release | No |
| ● voltage trigger | No |
| ● trip indicator | Yes |
| ● motor drive | No |
| **Environmental conditions** | |
| 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 |
| **Environmental footprint** | |
| Siemens Eco Profile (SEP) | Siemens EcoTech |
| **Certificates** | |
| reference code | |
| ● according to IEC 81346-2 | Q |

| General Product Approval | EMV | Radio Equipment Type Approval Certificate |
|---|---|---|

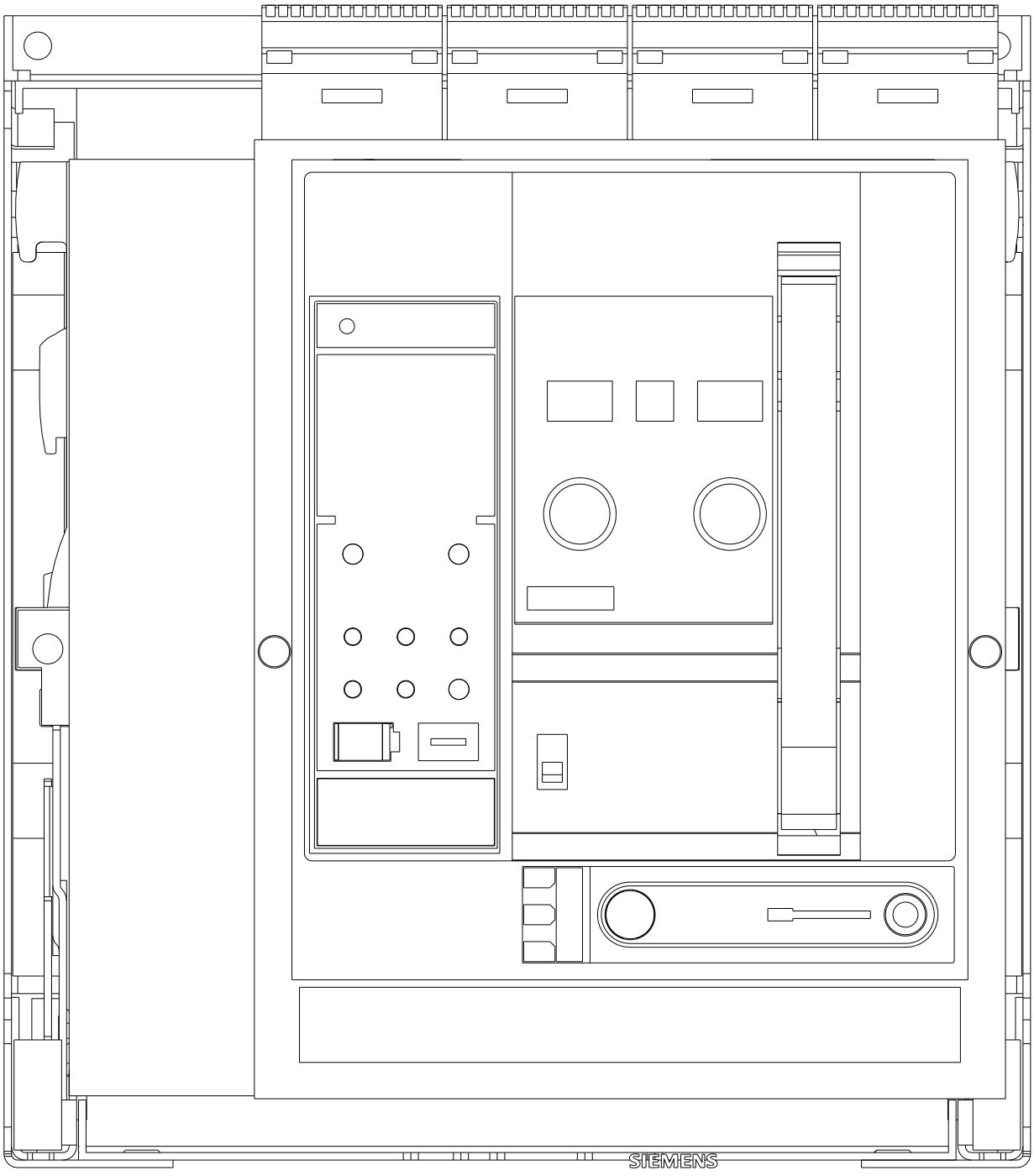
Miscellaneous

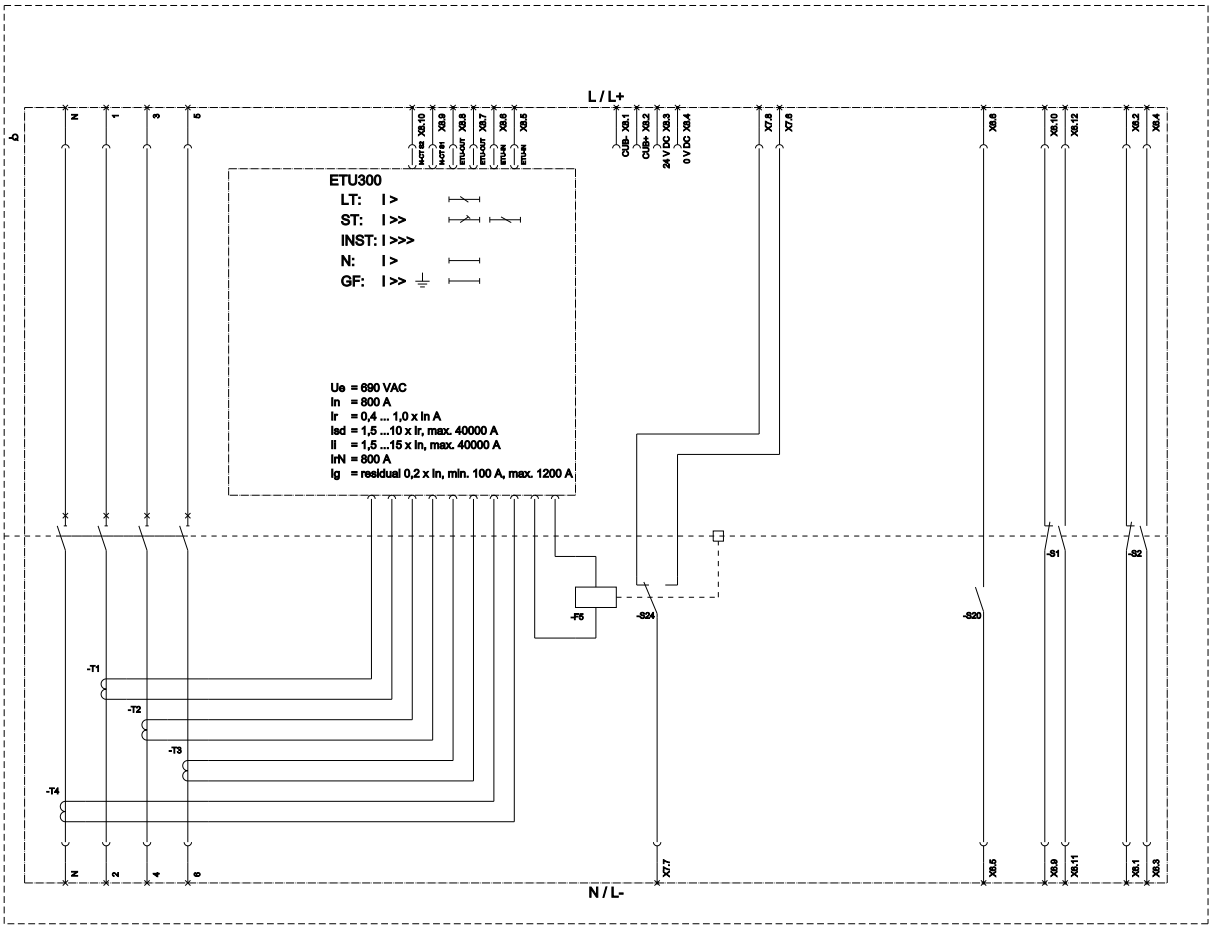
| Test Certificates | | Maritime application | | | other |
|---|---|---|---|---|---|
| Special Test Certific-ate | Miscellaneous | | | | Confirmation |

| other | | Dangerous goods | Environment | | |
|---|---|---|---|---|---|
| | Manufacturer Declara-tion | Transport Information | | | |

## Further information

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1108-3AC42-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3WA1108-3AC42-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1108-3AC42-0AA0
**CAx-Online-Generator**
http://www.siemens.com/cax
**Information- and Downloadcenter (catalogues, leaflets,...)**
http://www.siemens.com/energy-automation






G (Ground Fault Protection / Erdschlussschutz); LT (Long Time Delay / Überlastschutz); ST (Short Time Delay / Kurzschlussschutz, kurzzeitverzögert); INST (Instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutralleiterschutz); GF (Ground Fault Protection / Erdschlussschutz); F5 (Maglatch for trip unit / Auslösemagnet); S24 (TAS: 1st trip alarm switch (Reset position) / Erster Ausgelöstmeldeschalter (Reset Position); S1-S8 (AUX: Auxiliary switch / Hilfsschalter); S20 (RTC: Ready to close signalling switch / Einschaltbereitschaftsmeldeschalter); PSS: position signalling switch module / Positionsmeldeschaltermodul;

**last modified:** 2/29/2024