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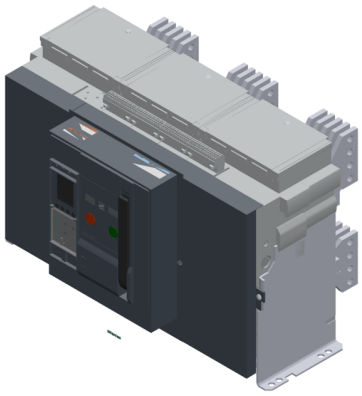
## Data sheet 3WA1340-6FE01-0AA0



Fixed-mounted circuit breaker IEC 60947-2, frame size 3, 3-poles, In=4000A up to 690V AC 50/60Hz, breaking capacity C Icu=150kA at 690V, Trip unit ETU600 LSI upgrade ready , colordisplay, bluetooth and USB interface, Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection vertical, with internal voltage tap on lower stab of circuit breaker, with voltage tap module VTM680 and power supply of ETU600, able to communication, integrated metering type PMF-2 Basic Power Monitoring, Voltage, Energy, Power, Power factor, Frequency, Unbalance, Temperature, 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 | III |
| 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 |
| design of the electronic trip unit | ETU600 LSI |
| Weight | 136.067 kg |
| Net Weight | 118.067 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 | 520 W |
| **Current** | |
| continuous current / rated value / maximum | 4000 A |
| continuous current / rated value | 4000 A |
| operational current | |
| ● at 40 °C / rated value | 4000 A |
| ● at 45 °C / rated value | 4000 A |
| ● at 50 °C / rated value | 4000 A |
| ● at 55 °C / rated value | 4000 A |
| ● at 60 °C / rated value | 4000 A |
| ● at 65 °C / rated value | 4000 A |
| ● at 70 °C / rated value | 4000 A |
| **Switching capacity and short-time withstand current, according to IEC 60947-2** | |
| switching capacity class of the circuit breaker | C |
| maximum short-circuit current breaking capacity (Icu) | |
| ● at 500 V / rated value | 150 kA |
| ● at 690 V / rated value | 150 kA |
| operating short-circuit current breaking capacity (Ics) | |
| ● at 500 V / rated value | 150 kA |
| ● at 690 V / rated value | 150 kA |
| short-circuit current making capacity (Icm) | |
| ● at 500 V / rated value | 330 kA |
| ● at 690 V / rated value | 330 kA |
| short-time withstand current (Icw) / at 500 V AC | |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| | |
|---|---|
| ● for 0.5 s / rated value | 130 kA |
| ● for 1 s / rated value | 130 kA |
| ● for 2 s / rated value | 130 kA |
| ● for 3 s / rated value | 130 kA |
| short-time withstand current (Icw) / at 690 V AC | |
| ● for 0.5 s / rated value | 130 kA |
| ● for 1 s / rated value | 130 kA |
| ● for 2 s / rated value | 130 kA |
| ● for 3 s / rated value | 130 kA |
| **Electronic release unit** | |
| product feature | |
| ● upgradable | Yes |
| ● Bluetooth and USB interface | Yes |
| ● decoder for basic protection functions | Yes |
| ● display and function keys | Yes |
| ● SENTRON powerconfig configuration software | Yes |
| position / for voltage tap | bottom |
| **Basic protection functions** | |
| product feature / for L-tripping | |
| ● can be switched on/off | Yes |
| ● selectable characteristic function | Yes |
| ● decoder and infinite adjustability are selectable with eSet | Yes |
| set values setting current (Ir) / for L-tripping / with I2t characteristic | 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1 |
| reference value setting current (Ir) / for L-tripping / with I2t characteristic | x In |
| set values delay time (tr) / for L-tripping / with I2t characteristic | 1;2;5;8;10;14;17;21;25 |
| reference value delay time (tr) / for L-tripping / with I2t characteristic | s |
| set values setting current (Ir) / for L-tripping / with I2t characteristic / for eSet | 0.4-1;0.001 |
| adjustable absolute value setting current (Ir) / for L-tripping / with I2t characteristic / for eSet | |
| ● minimum | 1600 A |
| ● maximum | 4000 A |
| set values delay time (tr) / for L-tripping / with I2t characteristic / for eSet | 0.5-30;0.001 |
| set values setting current (Ir) / for L-tripping / with I4t characteristic / for eSet | 0.4-1;0.001 |
| set values delay time (tr) / for L-tripping / with I4t characteristic / for eSet | 0.5-5;0.001 |
| adjustable absolute value setting current (Ir) / for L-tripping / with I4t characteristic / for eSet | |
| ● minimum | 1600 A |
| ● maximum | 4000 A |
| **L: Overload protection N-conductor** | |
| product feature / with neutral conductor protection / can be switched on/off | Yes |
| setting values setting current (InN) / for N-tripping | 0.2-2;0.001 |
| reference value setting current (InN) / for N-tripping | x In |
| adjustable setting current (InN) / for N-tripping | |
| ● minimum | 800 A |
| ● maximum | 8000 A |
| **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 | Yes |
| **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 |


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| | |
|---|---|
| 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 |
| set values setting current (Isd) / for S-tripping / with I0t characteristic / for eSet / independent of direction | 0.6-10;0.001 |
| adjustable absolute value setting current (Isd) | |
| ● for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum | 2400 A |
| ● at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum | 104 kA |
| ● at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum | 104 kA |
| set values delay time (tsd) / for S-tripping / with I0t characteristic / for eSet / independent of direction | 0.02-0.4;0.001 |
| **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 | 0.1;0.2;0.3;0.4 |
| set values setting current (Isd) / for S-tripping / with I2t characteristic / for eSet / independent of direction | 0.6-10;0.001 |
| adjustable absolute value setting current (Isd) | |
| ● for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum | 2400 A |
| ● at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum | 104 kA |
| ● at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum | 104 kA |
| set values delay time (tsd) / for S-tripping / with I2t characteristic / for eSet / independent of direction | 0.02-0.4; 0.001 |
| product feature / for I-tripping | |
| ● can be switched on/off | Yes |
| ● decoder and infinite adjustability are selectable (with eSet) | Yes |
| set values setting current (Ii) / for I-tripping | 1.5;2;3;4;6;8;10;12;15 |
| reference value setting current (Ii) / for I-tripping | x In |
| tripping factor setting current (Iimax) / for I-tripping | 0.8 |
| reference value setting current (Iimax) / for I-tripping | x Ics |
| set values setting current (Ii) / for I-tripping / for eSet | 1.5-15;0.001 |
| adjustable absolute value setting current (Ii) | |
| ● for I-tripping / for eSet / minimum | 6000 A |
| ● at 500 V / for I-tripping / for eSet / maximum | 120 kA |
| ● at 690 V / for I-tripping / for eSet / maximum | 120 kA |
| **G: ground fault GF** | |
| product feature / for G-tripping | |
| ● selectable characteristic function | No |
| **Further protective functions** | |
| protection function | |
| ● maintenance mode DAS+ | Yes |
| ● second protection parameter set | Yes |
| ● directional short-circuit protection dST | Yes |
| ● reverse power protection RP | Yes |
| ● expanded protection function EPF | Yes |
| **Measuring functions** | |
| type of measurement function | PMF-II |
| measurement function | |
| ● type according to IEC 61557-12 | Yes |
| ● current measurement | Yes |
| ● measurement of voltage and active energy | Yes |
| ● measurement of energy, performance, power factor, frequency | Yes |
| **Communication** | |
| communication function / prepared for communication (Ready4COM) | Yes |


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| | |
|---|---|
| communication function | Yes |
| **Service Life** | |
| mechanical service life (operating cycles) | |
| ● without support / typical | 5000 |
| ● with support / typical | 10000 |
| electrical endurance (operating cycles) | |
| ● at 690 V / without support / typical | 1000 |
| ● at 690 V / with support / typical | 10000 |
| **Dimensions** | |
| height | 462 mm |
| width | 704 mm |
| depth | 357 mm |
| **Main connection** | |
| arrangement of electrical connectors / for main current circuit | main connection on the rear, vertical |
| **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 |
| **Certificates** | |
| reference code | |
| ● according to IEC 81346-2 | Q |

**Approvals / Certificates**

**General Product Approval** | **EMV**

CCC | UKCA | CE EG-Konf. | VDE | EAC | RCM

**Radio Equipment Type Approval Certificate** | **Test Certificates**

Miscellaneous | UL | Miscellaneous | FCC | Miscellaneous | Special Test Certificate

**Maritime application** | **other**

ABS | BUREAU VERITAS | DNV | LRS | PRS | 产品合格 QC PASS

**other** | **Dangerous goods** | **Environment**


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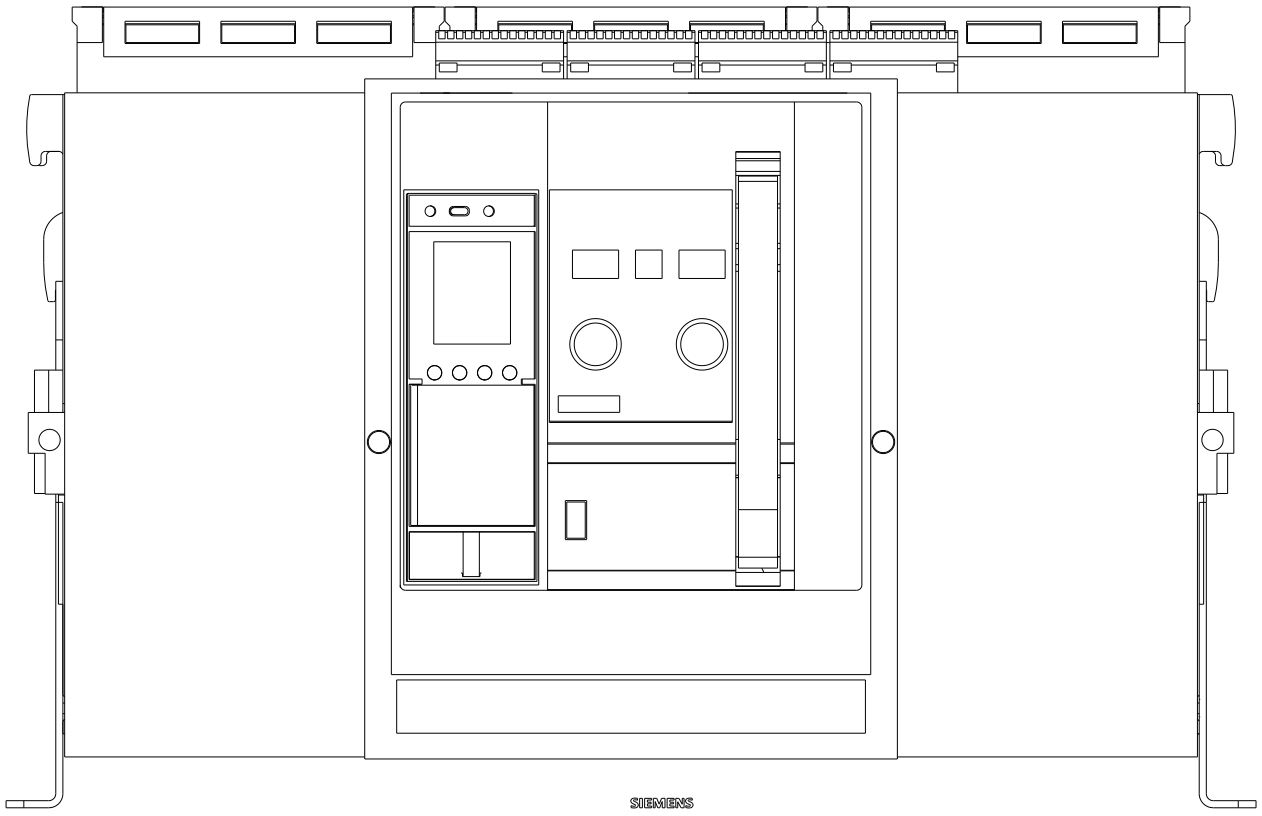
## Environment

## 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
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1340-6FE01-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3WA1340-6FE01-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1340-6FE01-0AA0
**CAx-Online-Generator**
http://www.siemens.com/cax
**Information- and Downloadcenter (catalogues, leaflets,...)**
http://www.siemens.com/energy-automation





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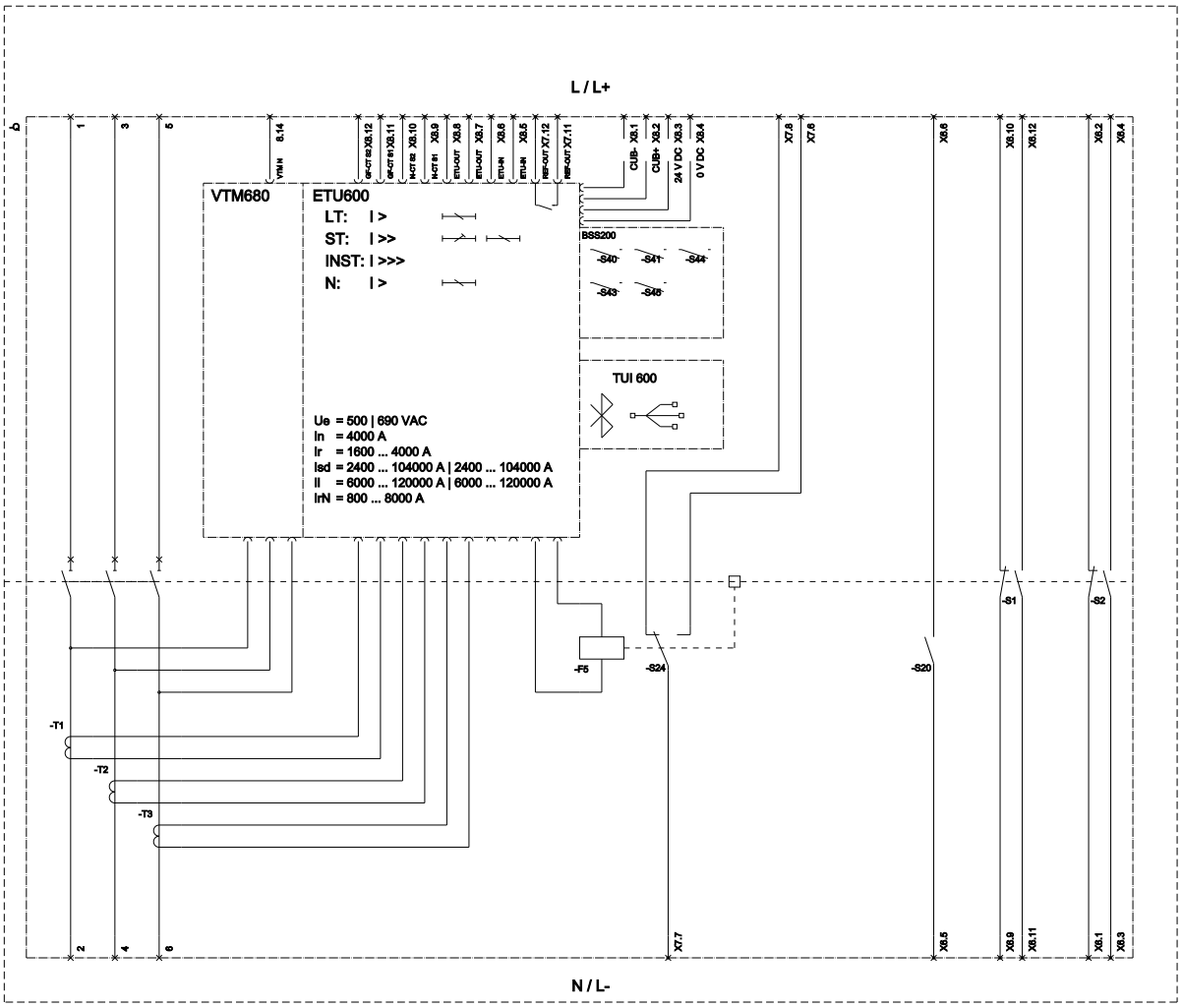


LT (Long Time Delay / Überlastschutz); ST (Short Time Delay / Kurzschlussschutz, kurzzeitverzögert); INST (Instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutralleiterschutz); GF (Ground Fault Protection / Erdschlussschutz);
F5 (Maglatch for trip unit / Auslösemagnet); S24 (TAS: 1st trip alarm switch (Reset position) / Erster Ausgelöstmeldeschalter (Reset Position); S1-S8 (AUX: Auxiliary switch / Hilfsschalter);
S20 (RTC: Ready to close signalling switch / Einschaltbereitschaftsmeldeschalter);
Information to BSS200 / Informationen zur BSS200; S40: Ready-to-close status / Einschaltbereitschaft; S41: Spring charge status / Speicherzustand; S43: Second auxiliary release / Zweiter Hilfsauslöser; S44: (On-Off / Ein-Aus);
S45: Trip alarm switch / Ausgelöstmeldeschalter;

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