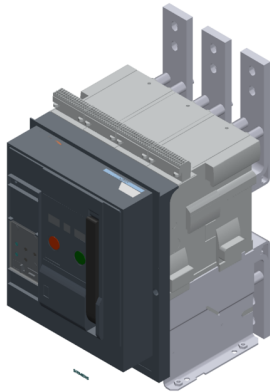


Siemens
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Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles, $I_n=1600A$ up to 690V AC 50/60Hz, breaking capacity S $I_{cu}=66/50kA$ at 500/690V, Trip unit ETU300 LSI optimized for standard applications, without display Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), front connection double hole, without Com & metering function with manual and motorized operating mechanism (M) 208-240 V AC / 220-250 V DC, Storage status and ready-to-close signaling switches, Auxiliary switches 2NO+2NC, Closing coil (CC) 5% OP 24-30 V DC, for momentary duty, without Remote trip alarm reset coil (RR), without 2nd shunt trip, without 1st Shunt trip Option C01 = Operations counter for circuit breaker

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Air circuit breaker |
| suitability for use | circuit breaker |
| size of the circuit-breaker | I |
| 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/spring charging motor with spring charge signaling switch |
| design of the electronic trip unit | ETU300 LSI |
| Weight | 57.239 kg |
| Net Weight | 44.239 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 | 135 W |
| Current | |
| continuous current / rated value / maximum | 1600 A |
| continuous current / rated value | 1600 A |
| operational current | |
| • at 40 °C / rated value | 1600 A |
| • at 45 °C / rated value | 1600 A |
| • at 50 °C / rated value | 1600 A |
| • at 55 °C / rated value | 1600 A |
| • at 60 °C / rated value | 1600 A |
| • at 65 °C / rated value | 1600 A |
| • at 70 °C / rated value | 1600 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 (I_{cu}) | |
| • at 500 V / rated value | 66 kA |
| • at 690 V / rated value | 50 kA |
| operating short-circuit current breaking capacity (I_{cs}) | |
| • at 500 V / rated value | 66 kA |
| • at 690 V / rated value | 50 kA |






| | |
|--|----------------------------------|
| short-circuit current making capacity (I _{cm}) | |
| <ul style="list-style-type: none"> at 500 V / rated value at 690 V / rated value | 145 kA 105 kA |
| short-time withstand current (I _{cw}) / at 500 V AC | |
| <ul style="list-style-type: none"> for 0.5 s / rated value for 1 s / rated value for 2 s / rated value for 3 s / rated value | 66 kA 66 kA 45 kA 35 kA |
| short-time withstand current (I _{cw}) / at 690 V AC | |
| <ul style="list-style-type: none"> for 0.5 s / rated value for 1 s / rated value for 2 s / rated value for 3 s / rated value | 50 kA 50 kA 45 kA 35 kA |

Electronic release unit

| | |
|--|-----------------------------|
| product feature | |
| <ul style="list-style-type: none"> upgradable Bluetooth and USB interface decoder for basic protection functions display and function keys SENTRON powerconfig configuration software | No No Yes No No |

Basic protection functions

| | |
|---|--|
| product feature / for L-tripping | |
| <ul style="list-style-type: none"> can be switched on/off selectable characteristic function decoder and infinite adjustability are selectable with eSet | No No No |
| set values setting current (I _r) / for L-tripping / with I _{2t} 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 (I _r) / for L-tripping / with I _{2t} characteristic | x I _n |
| set values delay time (t _r) / for L-tripping / with I _{2t} characteristic | 0.75;1;2;5;8;10;14;17;21;25 |
| reference value delay time (t _r) / for L-tripping / with I _{2t} characteristic | s |
| L: Overload protection N-conductor | |
| product feature / with neutral conductor protection / can be switched on/off | No |
| setting values setting current (I _{nN}) / for N-tripping | 1 |
| reference value setting current (I _{nN}) / for N-tripping | x I _n |
| S: delayed short-circuit protection ST | |
| product feature / for S-tripping | |
| <ul style="list-style-type: none"> independent of direction / can be switched on/off independent of direction / selectable characteristic function decoder and infinite adjustability are selectable with eSet | Yes Yes No |
| S: delayed short-circuit protection ST, settings values I_{0t} | |
| set values setting current (I _{sd}) / for S-tripping / with I _{0t} characteristic | 1.5;2;2.5;3;4;5;6;8;10 |
| reference value setting current (I _{sd}) / for S-tripping / with I _{0t} characteristic | x I _r |
| set values delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic | 0.08;0.15;0.22;0.3;0.4 |
| reference value delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic | s |
| S: delayed short-circuit protection ST, settings values I_{2t} | |
| set values setting current (I _{sd}) / for S-tripping / with I _{2t} characteristic | 1.5;2;2.5;3;4;5;6;8;10 |
| reference value setting current (I _{sd}) / for S-tripping / with I _{2t} characteristic | x I _r |
| set values delay time (t _{sd}) / for S-tripping / with I _{2t} characteristic | 0.08;0.15;0.22;0.3;0.4 |
| product feature / for I-tripping | |
| <ul style="list-style-type: none"> can be switched on/off decoder and infinite adjustability are selectable (with eSet) | No No |
| set values setting current (I _i) / for I-tripping | 1.5;2;3;4;5;6;8;10;12;15 |
| reference value setting current (I _i) / for I-tripping | x I _n |
| G: ground fault GF | |

| | | | |
|---|---|---|---|
| product feature / for G-tripping | | | |
| • selectable characteristic function | No | | |
| 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 | 437 mm | | |
| width | 320 mm | | |
| depth | 357 mm | | |
| Main connection | | | |
| arrangement of electrical connectors / for main current circuit | front main circuit connection, double hole | | |
| 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 | Yes | | |
| 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 | |

[Miscellaneous](#)

[Special Test Certificate](#)



[Confirmation](#)

other

Dangerous goods

Environment



[Manufacturer Declaration](#)

[Transport Information](#)



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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=3WA1116-3AB03-4KA0-Z C01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1116-3AB03-4KA0-Z C01>

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

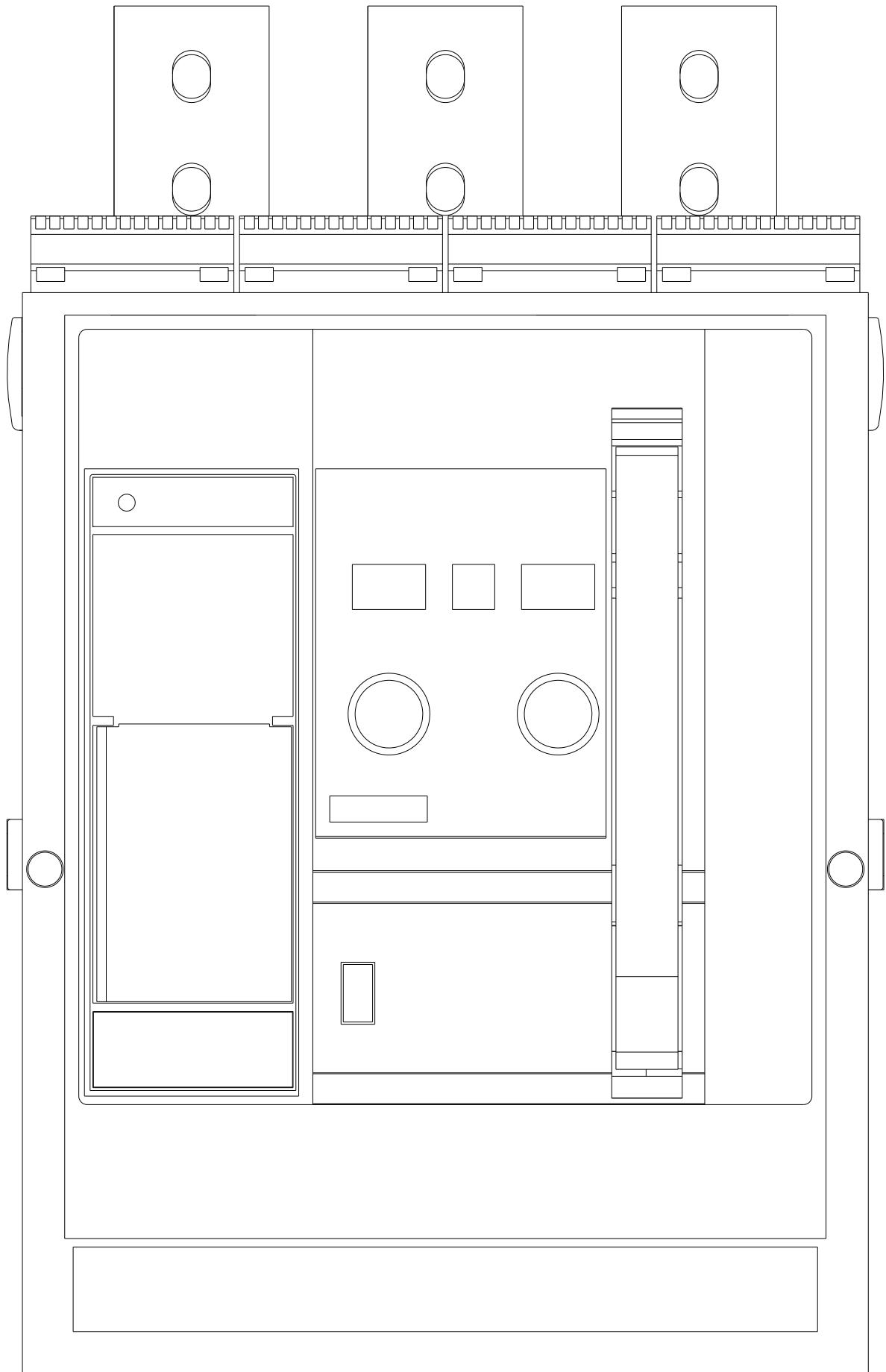
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1116-3AB03-4KA0-Z C01

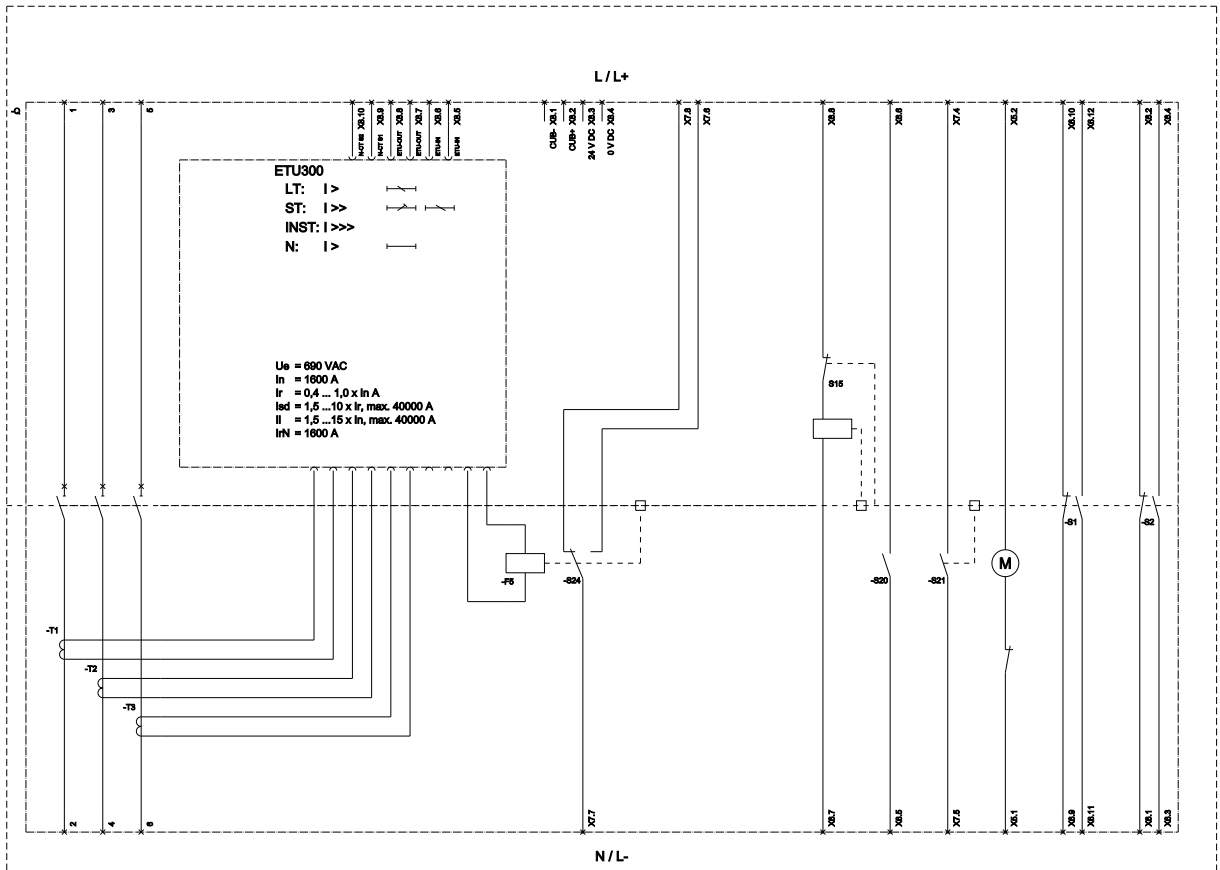
CAX-Online-Generator

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

Information- and Downloadcenter (catalogues, leaflets,...)

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





LT (Long Time Delay / Durchlaufzeit), ST (Short Time Delay / Kurzschlusszeit, Inanzenverzögerung), INST (Instantaneous / Kurzschlusszeit, unverzögert), N (Normal Protection / Normalüberwachung), GF (Ground Fault Protection / Schutzüberwachung), F5 (Relay for trip unit / Auslösegerät), S24 (RAB: 1st trip class relay (Reset position) / Erste Auslöseklasse (Reset Position), CC (Choking coil / Blinderingel), S15 (On-off switch for emergency stop signaling relay / Ein-/Aus-Schalter für Notstop-Signalling-Relay), S20 (Ready to start signaling relay / Bereitschaft-zu-starten-Schaltrelais), S1-S8 (ALIC: Auxiliary relays / Hilfsrelais), S25 (RTC: Ready to start signaling relay / Bereitschaft-zu-starten-Schaltrelais), S21 (Spring charged signaling relay / Federbelastetes Schaltrelais).

last modified:

8/1/2025

