



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 4-poles, N-pole left, $I_n=2500\text{A}$ up to 690V AC 50/60Hz, breaking capacity $N I_{cu}=55/42\text{kA}$ at 500/690V, Trip unit ETU300 LSI optimized for standard applications, without display Protection LT, ST, INST, include N-protection, (internal N-sensor available), incl. trip alarm switch (1xCO), rear connection horizontal, 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 |
| suitability for use | circuit breaker |
| size of the circuit-breaker | I |
| number of poles | 4 |
| position / of neutral conductor | neutral left |
| 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 | ETU300 LSI |
| Weight | 52.8 kg |
| Net Weight | 39.8 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 | 360 W |
| Current | |
| continuous current / rated value / maximum | 2500 A |
| continuous current / rated value | 2500 A |
| operational current | |
| • at 40 °C / rated value | 2500 A |
| • at 45 °C / rated value | 2500 A |
| • at 50 °C / rated value | 2500 A |
| • at 55 °C / rated value | 2500 A |
| • at 60 °C / rated value | 2500 A |
| • at 65 °C / rated value | 2500 A |
| • at 70 °C / rated value | 2500 A |
| Switching capacity and short-time withstand current, according to IEC 60947-2 | |
| switching capacity class of the circuit breaker | N |
| maximum short-circuit current breaking capacity (I_{cu}) | |
| • at 500 V / rated value | 55 kA |
| • at 690 V / rated value | 42 kA |
| operating short-circuit current breaking capacity (I_{cs}) | |
| • at 500 V / rated value | 55 kA |
| • at 690 V / rated value | 42 kA |
| short-circuit current making capacity (I_{cm}) | |
| • at 500 V / rated value | 121 kA |
| • at 690 V / rated value | 88 kA |
| short-time withstand current (I_{cw}) / at 500 V AC | |
| • for 0.5 s / rated value | 55 kA |

| | |
|---|--|
| <ul style="list-style-type: none"> • for 1 s / rated value | 50 kA |
| <ul style="list-style-type: none"> • for 2 s / rated value | 45 kA |
| <ul style="list-style-type: none"> • for 3 s / rated value | 35 kA |
| short-time withstand current (I _{cw}) / at 690 V AC | |
| <ul style="list-style-type: none"> • for 0.5 s / rated value | 42 kA |
| <ul style="list-style-type: none"> • for 1 s / rated value | 42 kA |
| <ul style="list-style-type: none"> • for 2 s / rated value | 42 kA |
| <ul style="list-style-type: none"> • for 3 s / rated value | 35 kA |
| Electronic release unit | |
| product feature | |
| <ul style="list-style-type: none"> • upgradable | No |
| <ul style="list-style-type: none"> • Bluetooth and USB interface | No |
| <ul style="list-style-type: none"> • decoder for basic protection functions | Yes |
| <ul style="list-style-type: none"> • display and function keys | No |
| <ul style="list-style-type: none"> • SENTRON powerconfig configuration software | No |
| Basic protection functions | |
| product feature / for L-tripping | |
| <ul style="list-style-type: none"> • can be switched on/off | No |
| <ul style="list-style-type: none"> • selectable characteristic function | No |
| <ul style="list-style-type: none"> • decoder and infinite adjustability are selectable with eSet | 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 | Yes |
| <ul style="list-style-type: none"> • independent of direction / selectable characteristic function | Yes |
| <ul style="list-style-type: none"> • decoder and infinite adjustability are selectable with eSet | 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 | No |
| <ul style="list-style-type: none"> • decoder and infinite adjustability are selectable (with eSet) | 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 | |
| <ul style="list-style-type: none"> • can be switched on/off | No |
| <ul style="list-style-type: none"> • selectable characteristic function | No |
| Further protective functions | |
| protection function | |

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|---|---|
| • 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 | 5000 |
| • at 690 V / with support / typical | 30000 |
| Dimensions | |
| height | 437 mm |
| width | 410 mm |
| depth | 357 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 |
| Certificates | |
| reference code | |
| • according to IEC 81346-2 | Q |
| General Product Approval | EMV |



[Confirmation](#)



Test Certificates

other

Environment

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Confirmation](#)

Siemens EcoTech



[Environmental Confirmations](#)

Further information

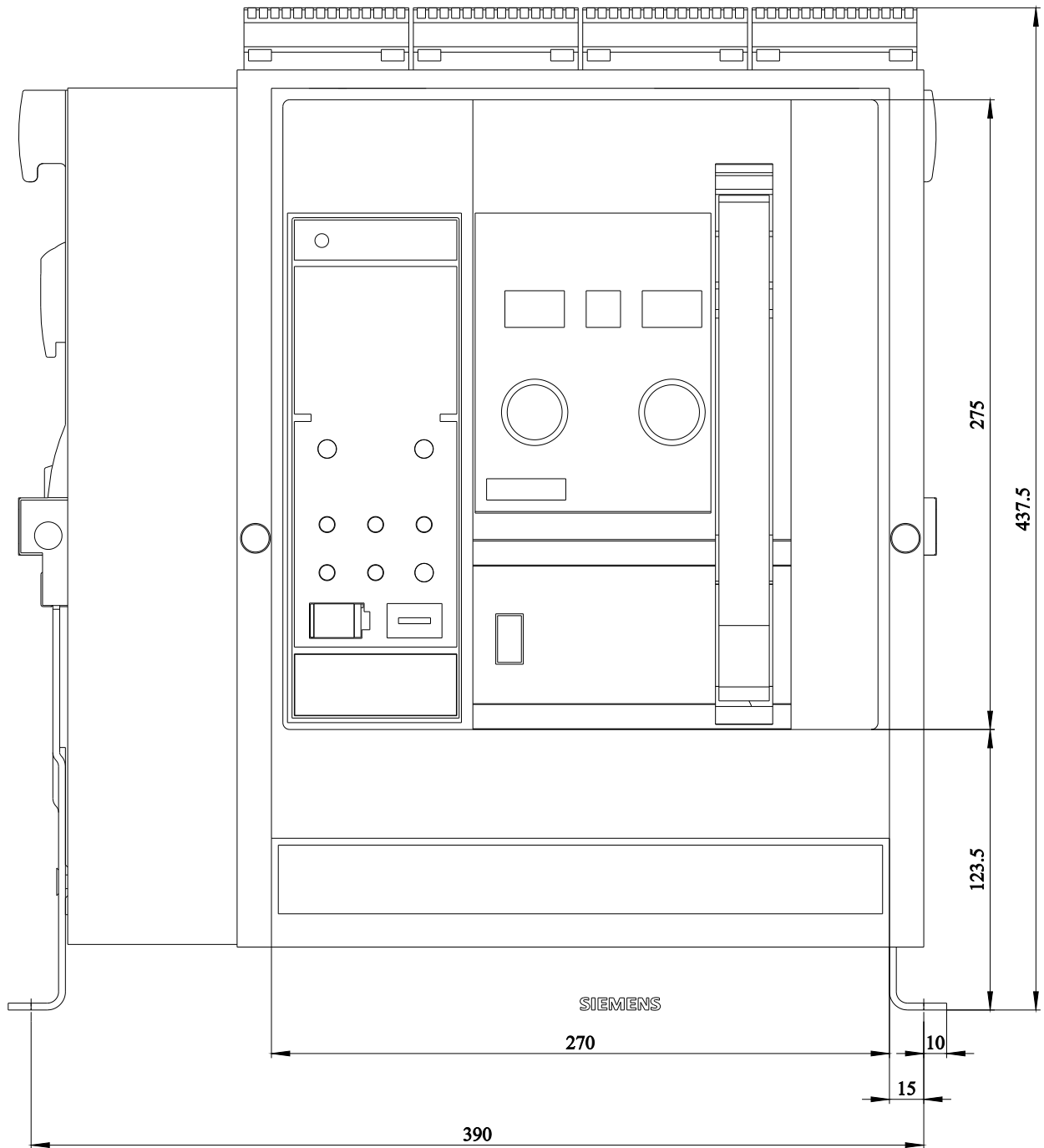
Information on the packaging

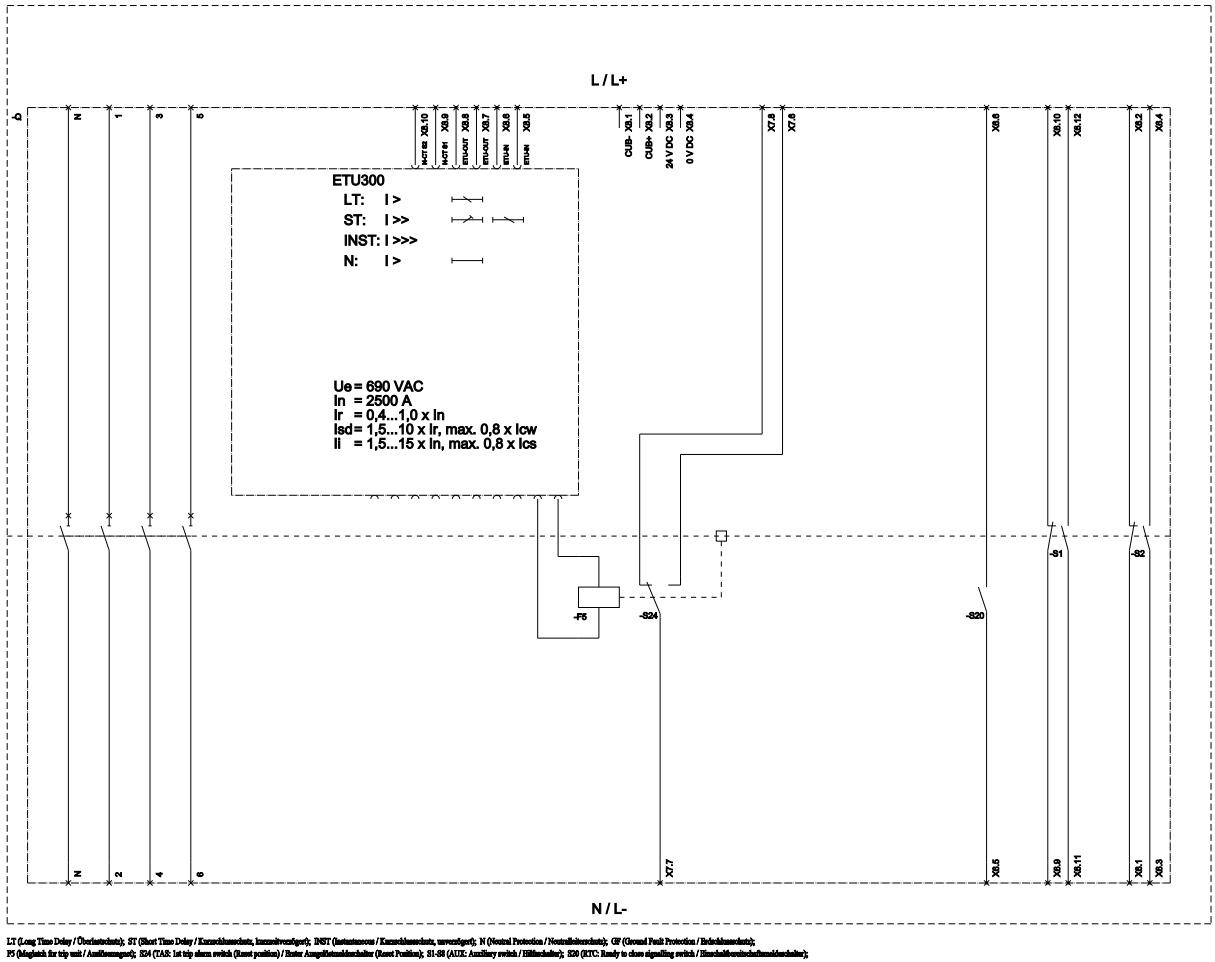
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mifb=3WA1125-2AB12-0AA0>

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





last modified:

7/7/2023

