
















Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles, $I_n=1000\text{A}$ up to 690V AC 50/60Hz, breaking capacity $N I_{cu}=55/42\text{kA}$ at 500/690V, Trip unit ETU600 LSI upgrade ready, color display, bluetooth and USB interface, Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection, horizontal top vertical bottom, with internal voltage tap on upper stab of circuit breaker, with voltage tap module VTM680 and power supply of ETU600, able to communication, integrated metering type PMF-3 Advanced Power Monitor., Voltage, Energy, Power, Power factor, Frequency, Unbalance, Temperature, Power quality, 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, Shunt trip (ST) 100% OP 24-30 V DC, suitable for continuous duty,

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 with mechanical or electrical closing
design of the electronic trip unit	ETU600 LSI
Weight	45.509 kg
Net Weight	32.509 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	70 W
Current	
continuous current / rated value / maximum	1000 A
continuous current / rated value	1000 A
operational current	
• at 40 °C / rated value	1000 A
• at 45 °C / rated value	1000 A
• at 50 °C / rated value	1000 A
• at 55 °C / rated value	1000 A
• at 60 °C / rated value	1000 A
• at 65 °C / rated value	1000 A
• at 70 °C / rated value	1000 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	

<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 	55 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 	42 kA
	42 kA
	35 kA
	30 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 	Yes
	Yes
	Yes
	Yes
	Yes
position / for voltage tap	top
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 	Yes
	Yes
	Yes
set values setting current (I _r) / for L-tripping / with I _{2t} characteristic	0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1
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	1;2;5;8;10;14;17;21;25
reference value delay time (t _r) / for L-tripping / with I _{2t} characteristic	s
set values setting current (I _r) / for L-tripping / with I _{2t} characteristic / for eSet	0.4-1;0.001
adjustable absolute value setting current (I _r) / for L-tripping / with I _{2t} characteristic / for eSet	
<ul style="list-style-type: none"> • minimum • maximum 	400 A
	1000 A
set values delay time (t _r) / for L-tripping / with I _{2t} characteristic / for eSet	0.5-30;0.001
set values setting current (I _r) / for L-tripping / with I _{4t} characteristic / for eSet	0.4-1;0.001
set values delay time (t _r) / for L-tripping / with I _{4t} characteristic / for eSet	0.5-5;0.001
adjustable absolute value setting current (I _r) / for L-tripping / with I _{4t} characteristic / for eSet	
<ul style="list-style-type: none"> • minimum • maximum 	400 A
	1000 A
L: Overload protection N-conductor	
product feature / with neutral conductor protection / can be switched on/off	Yes
setting values setting current (I _{nN}) / for N-tripping	0.2-2;0.001
reference value setting current (I _{nN}) / for N-tripping	x I _n
adjustable setting current (I _{nN}) / for N-tripping	
<ul style="list-style-type: none"> • minimum • maximum 	200 A
	2000 A
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
	Yes
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 (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 (I _{sd}) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I _{sd})	
<ul style="list-style-type: none"> for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum 	600 A
<ul style="list-style-type: none"> at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum 	40 kA
<ul style="list-style-type: none"> at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum 	33.6 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 (I _{sd}) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I _{sd}) / for S-tripping / with I2t characteristic	x I _r
set values delay time (tsd) / for S-tripping / with I2t characteristic	0.1;0.2;0.3;0.4
set values setting current (I _{sd}) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I _{sd})	
<ul style="list-style-type: none"> for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum 	600 A
<ul style="list-style-type: none"> at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum 	40 kA
<ul style="list-style-type: none"> at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum 	33.6 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	
<ul style="list-style-type: none"> can be switched on/off 	Yes
<ul style="list-style-type: none"> decoder and infinite adjustability are selectable (with eSet) 	Yes
set values setting current (I _i) / for I-tripping	1.5;2;3;4;6;8;10;12;15
reference value setting current (I _i) / for I-tripping	x I _n
tripping factor setting current (I _{imax}) / for I-tripping	0.8
reference value setting current (I _{imax}) / for I-tripping	x I _{cs}
set values setting current (I _i) / for I-tripping / for eSet	1.5-15;0.001
adjustable absolute value setting current (I _i)	
<ul style="list-style-type: none"> for I-tripping / for eSet / minimum 	1500 A
<ul style="list-style-type: none"> at 500 V / for I-tripping / for eSet / maximum 	44 kA
<ul style="list-style-type: none"> at 690 V / for I-tripping / for eSet / maximum 	33.6 kA
G: ground fault GF	
product feature / for G-tripping	
<ul style="list-style-type: none"> selectable characteristic function 	No
Further protective functions	
protection function	
<ul style="list-style-type: none"> maintenance mode DAS+ 	Yes
<ul style="list-style-type: none"> second protection parameter set 	Yes
<ul style="list-style-type: none"> directional short-circuit protection dST 	Yes
<ul style="list-style-type: none"> reverse power protection RP 	Yes
<ul style="list-style-type: none"> expanded protection function EPF 	Yes
Measuring functions	
type of measurement function	PMF-III
measurement function	
<ul style="list-style-type: none"> type according to IEC 61557-12 	Yes
<ul style="list-style-type: none"> current measurement 	Yes
<ul style="list-style-type: none"> measurement of voltage and active energy 	Yes
<ul style="list-style-type: none"> measurement of energy, performance, power factor, frequency 	Yes
<ul style="list-style-type: none"> measurement of total harmonic distortion THD-U, THD-I 	Yes
Communication	
communication function / prepared for communication	Yes

(Ready4COM)	
communication function	Yes
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	main connection on the rear, horizontal on top / vertical at the bottom
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	Yes
• 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
General Product Approval	
EMV	
     	
Radio Equipment Type Approval Certificate	
Test Certificates	
Miscellaneous	
Miscellaneous	FCC
Special Test Certificate	Miscellaneous
Maritime application	
other	
     	
other	Dangerous goods
	Environment

[Manufacturer Declaration](#)

[Confirmation](#)

[Dangerous goods information](#)

[Transport Information](#)



Environment



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=3WA1110-2NE06-0AA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1110-2NE06-0AA1>

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

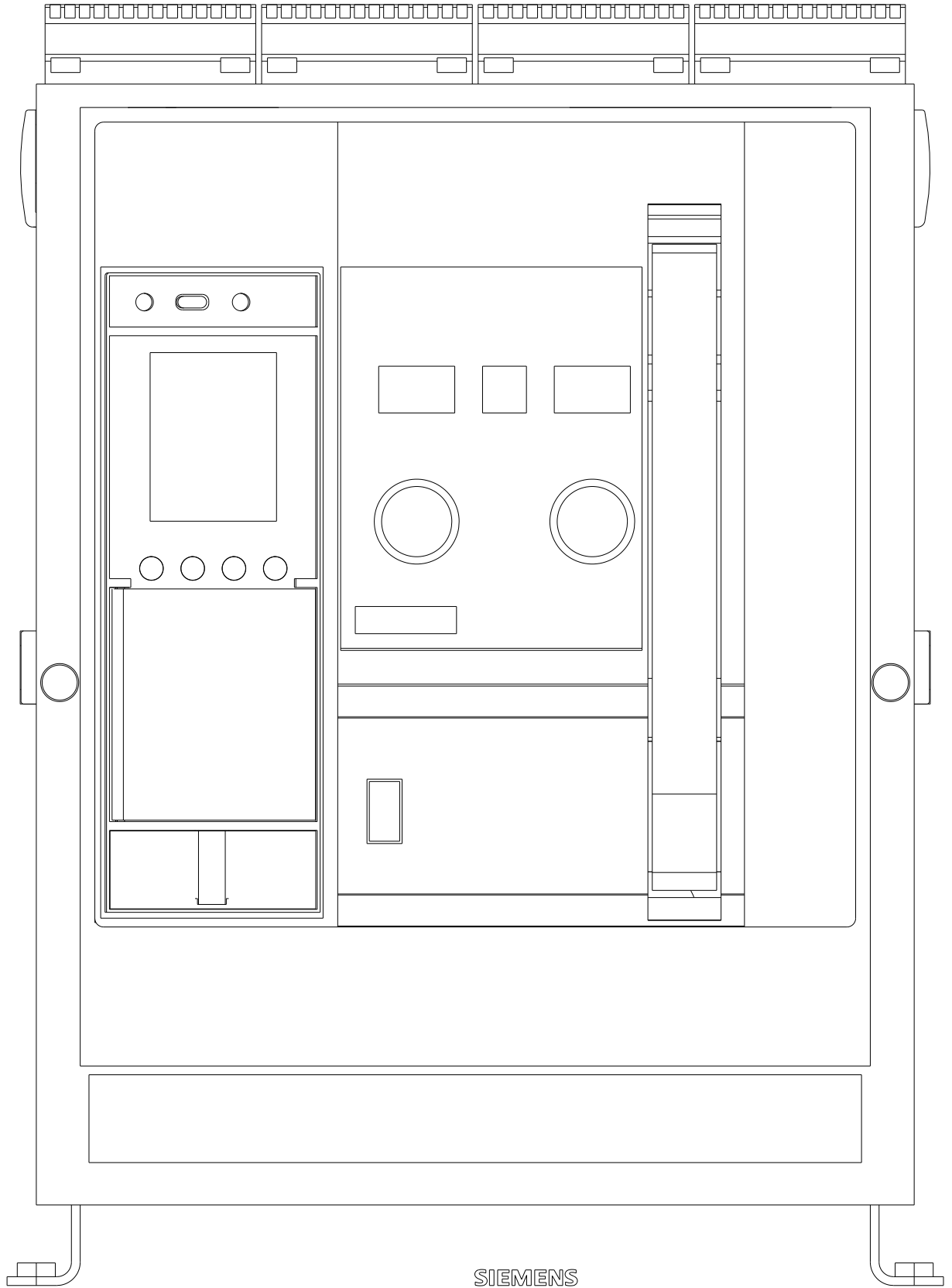
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1110-2NE06-0AA1

CAX-Online-Generator

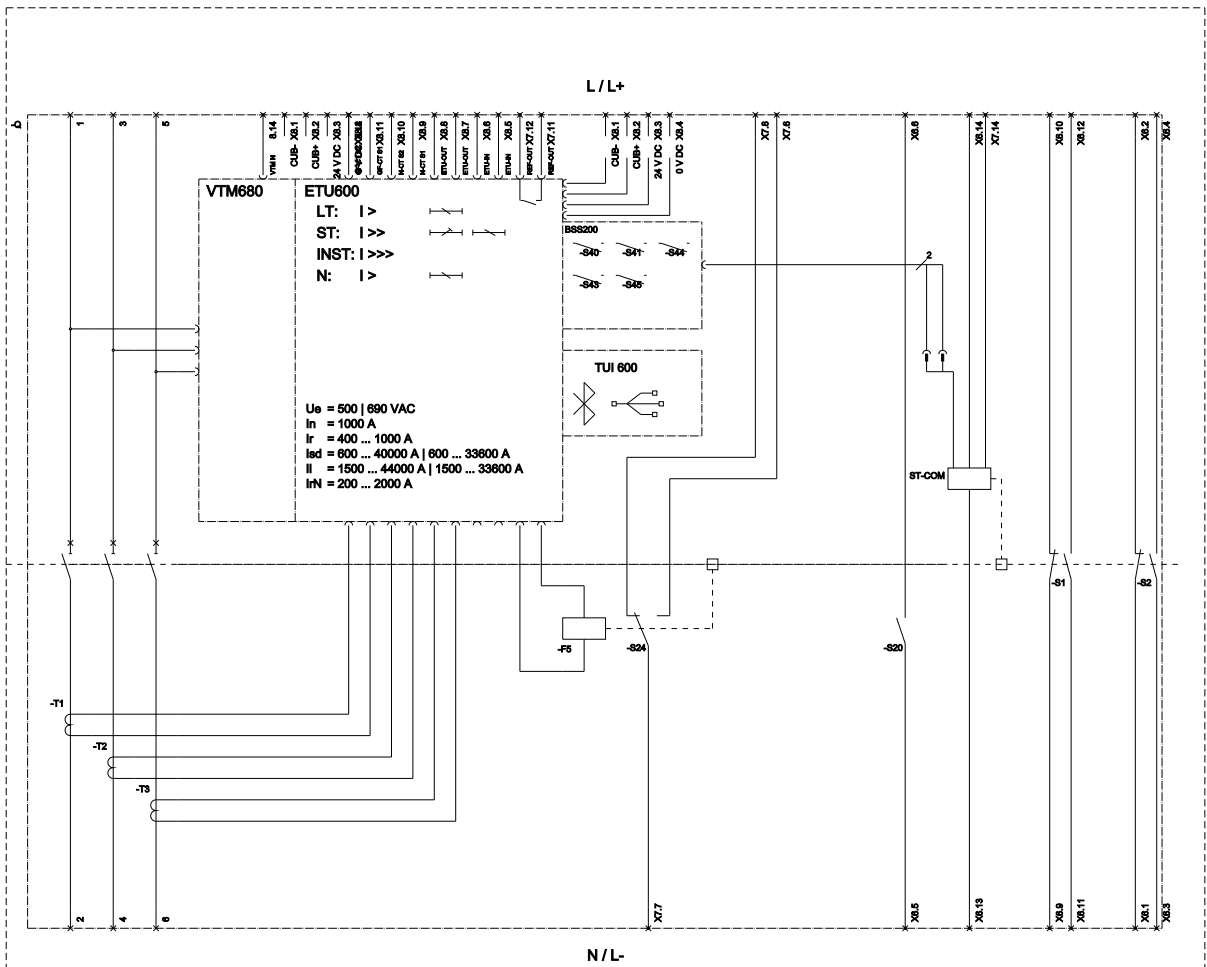
<http://www.siemens.com/cax>

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

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



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LT (Long Time Delay / Überlastschutz), ST (Short Time Delay / Kurzschlusschutz, kurzzeitverriegelt), INST (Instantaneous / Kurzschlusschutz, unverriegelt), N (Neutral Protection / Neutralisierenschutz), GP (Ground Fault Protection / Erdleitschutz),
 ST (1st auxiliary release / Erste Hilfsfunktion), S14 (Cut-off switch for necessary duty about trip / Abschaltvorrichtung für Inanspruchnahme Spannungsmaßnahme), P5 (Abglock für Trip unit / Anstößmagnet),
 S14 (2nd auxiliary release / Zweite Hilfsfunktion), S1-S8 (AUX: Auxiliary switch / Hilfsfunktion), S20 (ETC: Ready to close signaling switch / Einbaufunktionsschaltfunktion),
 Information to BSC600 / Information zur BSC600, S40: Ready-to-close signal / Abschaltfunktion, S41: Spring closing signal / Sperrfunktion, S42: Second auxiliary release / Zweite Hilfsfunktion, S44: (On-Off / Ein-Aus), S45: Trip alarm switch / Anstößfunktionsschalter

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