



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles,  $I_n=1000A$  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), rear connection horizontal, 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) 100% OP 208-240 V AC / 220-250 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), Undervoltage release (UVR) instantaneous (0,08 s) and short-delay (0,2 s), 208-240 V AC / 220-250 V DC, without 1st Shunt trip Option F40 = Sealing cover for ETU Option T40 = Door sealing frame IP41

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	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	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 ( $I_{cm}$ )	
• at 500 V / rated value	145 kA
• at 690 V / rated value	105 kA

short-time withstand current (I <sub>cw</sub> ) / 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 (I <sub>cw</sub> ) / 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
<b>Electronic release unit</b>	
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
<b>Basic protection functions</b>	
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 (I <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	0.4;0.5;0.6;0.7;0.75;0.8;0.85;0.9;0.95;1
reference value setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	x I <sub>n</sub>
set values delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	0.75;1;2;5;8;10;14;17;21;25
reference value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	s
<b>L: Overload protection N-conductor</b>	
product feature / with neutral conductor protection / can be switched on/off	No
setting values setting current (I <sub>nN</sub> ) / for N-tripping	1
reference value setting current (I <sub>nN</sub> ) / for N-tripping	x I <sub>n</sub>
<b>S: delayed short-circuit protection ST</b>	
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
<b>S: delayed short-circuit protection ST, settings values I<sub>0t</sub></b>	
set values setting current (I <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic	x I <sub>r</sub>
set values delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub> characteristic	s
<b>S: delayed short-circuit protection ST, settings values I<sub>2t</sub></b>	
set values setting current (I <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic	x I <sub>r</sub>
set values delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> 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 (I <sub>i</sub> ) / for I-tripping	1.5;2;3;4;5;6;8;10;12;15
reference value setting current (I <sub>i</sub> ) / for I-tripping	x I <sub>n</sub>
<b>G: ground fault GF</b>	
product feature / for G-tripping	
• selectable characteristic function	No

**Further protective functions**

protection function	Yes		
<ul style="list-style-type: none"> <li>● maintenance mode DAS+</li> </ul>			
<b>Measuring functions</b>			
measurement function	Yes		
<ul style="list-style-type: none"> <li>● current measurement</li> </ul>			
<b>Communication</b>			
communication function	No		
<b>Service Life</b>			
mechanical service life (operating cycles)			
<ul style="list-style-type: none"> <li>● without support / typical</li> </ul>	15000		
<ul style="list-style-type: none"> <li>● with support / typical</li> </ul>	30000		
electrical endurance (operating cycles)			
<ul style="list-style-type: none"> <li>● at 690 V / without support / typical</li> </ul>	10000		
<ul style="list-style-type: none"> <li>● at 690 V / with support / typical</li> </ul>	30000		
<b>Dimensions</b>			
height	437 mm		
width	320 mm		
depth	357 mm		
<b>Main connection</b>			
arrangement of electrical connectors / for main current circuit	main connection on the rear, horizontal		
<b>Auxiliary circuit</b>			
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		
<b>Internal accessories</b>			
product component			
<ul style="list-style-type: none"> <li>● undervoltage release</li> </ul>	Yes		
<ul style="list-style-type: none"> <li>● voltage trigger</li> </ul>	No		
<ul style="list-style-type: none"> <li>● trip indicator</li> </ul>	Yes		
<ul style="list-style-type: none"> <li>● motor drive</li> </ul>	Yes		
<b>Environmental conditions</b>			
protection class IP / on the front	IP41		
ambient temperature / during operation			
<ul style="list-style-type: none"> <li>● minimum</li> </ul>	-40 °C		
<ul style="list-style-type: none"> <li>● maximum</li> </ul>	70 °C		
ambient temperature / during storage			
<ul style="list-style-type: none"> <li>● minimum</li> </ul>	-40 °C		
<ul style="list-style-type: none"> <li>● maximum</li> </ul>	80 °C		
<b>General Product Approval</b>		EMV	Radio Equipment Type Approval Certificate



[Miscellaneous](#)

<b>Test Certificates</b>	<b>Maritime application</b>		<b>other</b>
<a href="#">Miscellaneous</a>	<a href="#">Special Test Certificate</a>	 ABS	 BUREAU VERITAS
		 LRS	<a href="#">Confirmation</a>
<b>other</b>	<b>Dangerous goods</b>	<b>Environment</b>	



[Manufacturer Declaration](#)   [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=3WA1110-3AB02-4EQ0-Z F40+T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1110-3AB02-4EQ0-Z F40+T40>

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

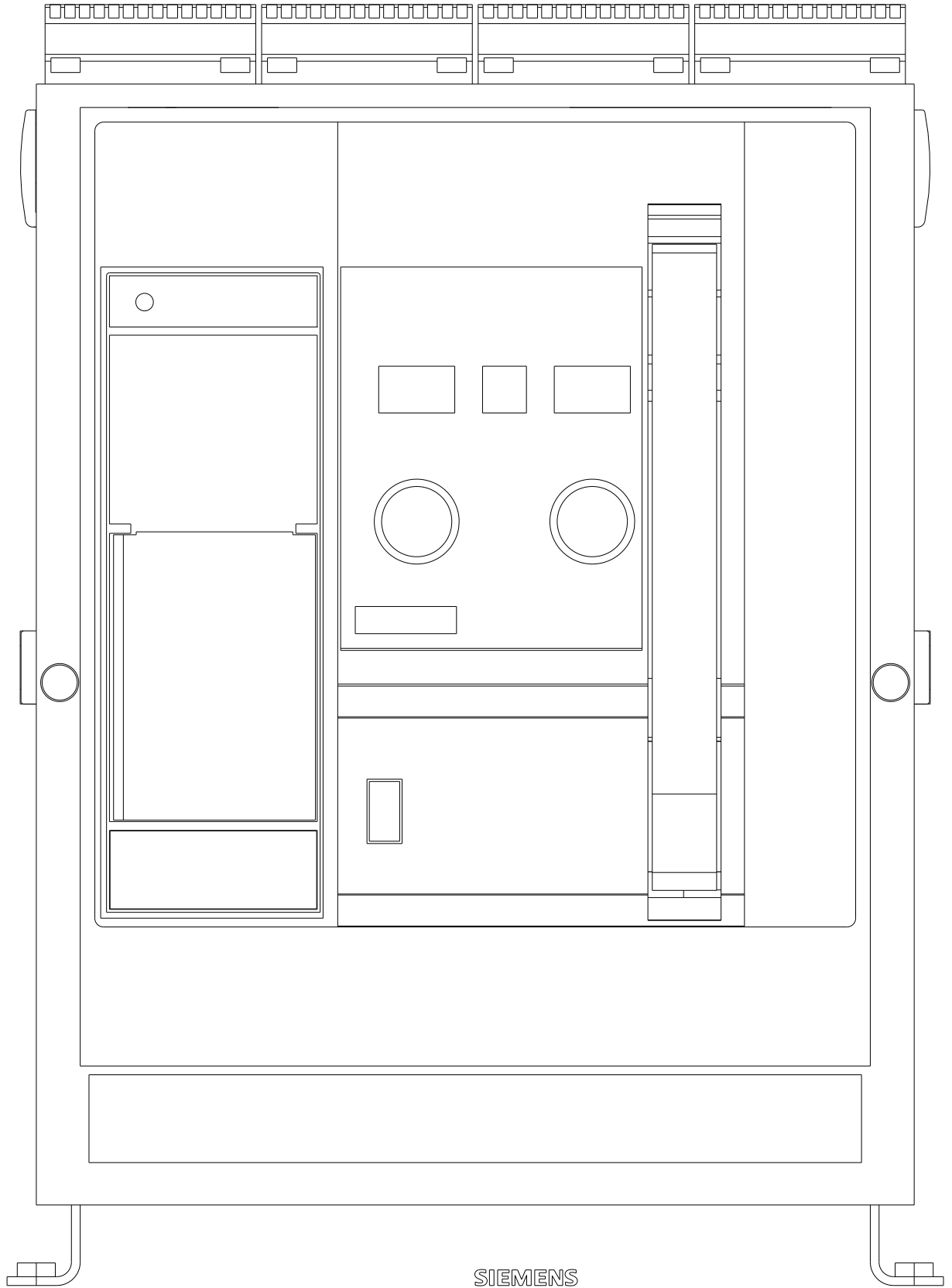
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1110-3AB02-4EQ0-Z F40+T40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1110-3AB02-4EQ0-Z F40+T40)

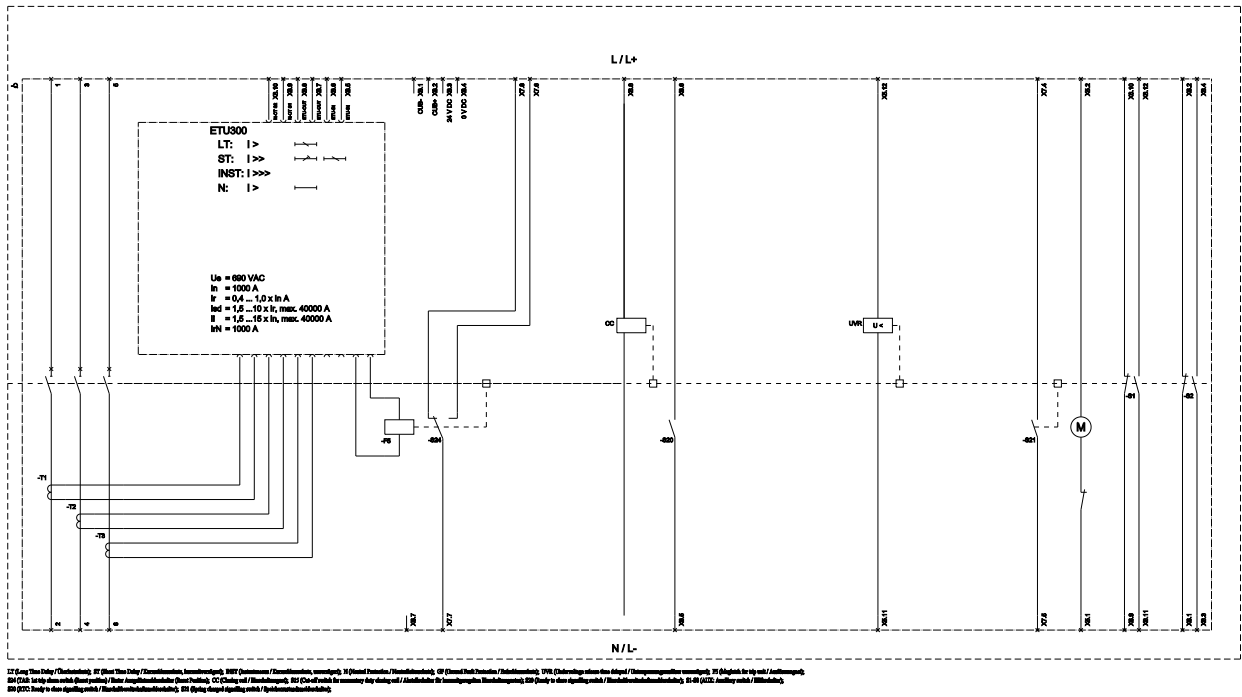
**CAX-Online-Generator**

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

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

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





last modified:

9/8/2025

