

Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 1, 3-poles,  $I_n=1250\text{A}$  up to 690V AC 50/60Hz, breaking capacity M  $I_{cu}=85/66\text{kA}$  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, guide frame with shutter and position signall. switch (3xW), 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, Shunt trip (ST) 100% OP 208-240 V AC / 220-250 V DC, suitable for continuous duty, 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	withdrawable circuit breaker
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	78.605 kg
Net Weight	65.605 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	205 W
Current	
continuous current / rated value / maximum	1250 A
continuous current / rated value	1250 A
operational current	
• at 40 °C / rated value	1250 A
• at 45 °C / rated value	1250 A
• at 50 °C / rated value	1250 A
• at 55 °C / rated value	1250 A
• at 60 °C / rated value	1250 A
• at 70 °C / rated value	1210 A
Switching capacity and short-time withstand current, according to IEC 60947-2	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity ( $I_{cu}$ )	
• at 500 V / rated value	85 kA
• at 690 V / rated value	66 kA
operating short-circuit current breaking capacity ( $I_{cs}$ )	
• at 500 V / rated value	85 kA
• at 690 V / rated value	66 kA
short-circuit current making capacity ( $I_{cm}$ )	
• at 500 V / rated value	187 kA
• at 690 V / rated value	145 kA
short-time withstand current ( $I_{cw}$ ) / at 500 V AC	

<ul style="list-style-type: none"> <li>• for 0.5 s / rated value</li> </ul>	85 kA
<ul style="list-style-type: none"> <li>• for 1 s / rated value</li> </ul>	85 kA
<ul style="list-style-type: none"> <li>• for 2 s / rated value</li> </ul>	70 kA
<ul style="list-style-type: none"> <li>• for 3 s / rated value</li> </ul>	60 kA
short-time withstand current (I <sub>cw</sub> ) / at 690 V AC	
<ul style="list-style-type: none"> <li>• for 0.5 s / rated value</li> </ul>	66 kA
<ul style="list-style-type: none"> <li>• for 1 s / rated value</li> </ul>	66 kA
<ul style="list-style-type: none"> <li>• for 2 s / rated value</li> </ul>	66 kA
<ul style="list-style-type: none"> <li>• for 3 s / rated value</li> </ul>	60 kA

### Electronic release unit

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

### Basic protection functions

product feature / for L-tripping	
<ul style="list-style-type: none"> <li>• can be switched on/off</li> </ul>	No
<ul style="list-style-type: none"> <li>• selectable characteristic function</li> </ul>	No
<ul style="list-style-type: none"> <li>• decoder and infinite adjustability are selectable with eSet</li> </ul>	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

### L: Overload protection N-conductor

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>

### S: delayed short-circuit protection ST

product feature / for S-tripping	
<ul style="list-style-type: none"> <li>• independent of direction / can be switched on/off</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• independent of direction / selectable characteristic function</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• decoder and infinite adjustability are selectable with eSet</li> </ul>	No

### S: delayed short-circuit protection ST, settings values I<sub>0t</sub>

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

### S: delayed short-circuit protection ST, settings values I<sub>2t</sub>

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	
<ul style="list-style-type: none"> <li>• can be switched on/off</li> </ul>	No
<ul style="list-style-type: none"> <li>• decoder and infinite adjustability are selectable (with eSet)</li> </ul>	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>

### G: ground fault GF

product feature / for G-tripping	
<ul style="list-style-type: none"> <li>• selectable characteristic function</li> </ul>	No

### Further protective functions

protection function	
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• maintenance mode DAS+	Yes	
<b>Measuring functions</b>		
measurement function		
• current measurement	Yes	
<b>Communication</b>		
communication function	No	
<b>Service Life</b>		
mechanical service life (operating cycles)		
• without support / typical	10000	
• with support / typical	20000	
electrical endurance (operating cycles)		
• at 690 V / without support / typical	10000	
• at 690 V / with support / typical	20000	
<b>Dimensions</b>		
height	468 mm	
width	320 mm	
depth	471 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		
• undervoltage release	Yes	
• voltage trigger	Yes	
• trip indicator	Yes	
• motor drive	Yes	
<b>Environmental conditions</b>		
protection class IP / on the front	IP41	
ambient temperature / during operation		
• minimum	-40 °C	
• maximum	70 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	80 °C	
<b>General Product Approval</b>	<b>EMV</b>	<b>Radio Equipment Type Approval Certificate</b>



[Miscellaneous](#)

<b>Test Certificates</b>	<b>Maritime application</b>	<b>other</b>
<a href="#">Special Test Certificate</a>	<a href="#">Miscellaneous</a>	<a href="#">Confirmation</a>
	 ABS	 BUREAU VERITAS
		 LRS
<b>other</b>	<b>Dangerous goods</b>	<b>Environment</b>
 产品合格 QC PASS	<a href="#">Manufacturer Declaration</a>	<a href="#">Transport Information</a>
		 Siemens EcoTech

#### 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=3WA1112-4AB62-4EQ4-Z T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1112-4AB62-4EQ4-Z T40>

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

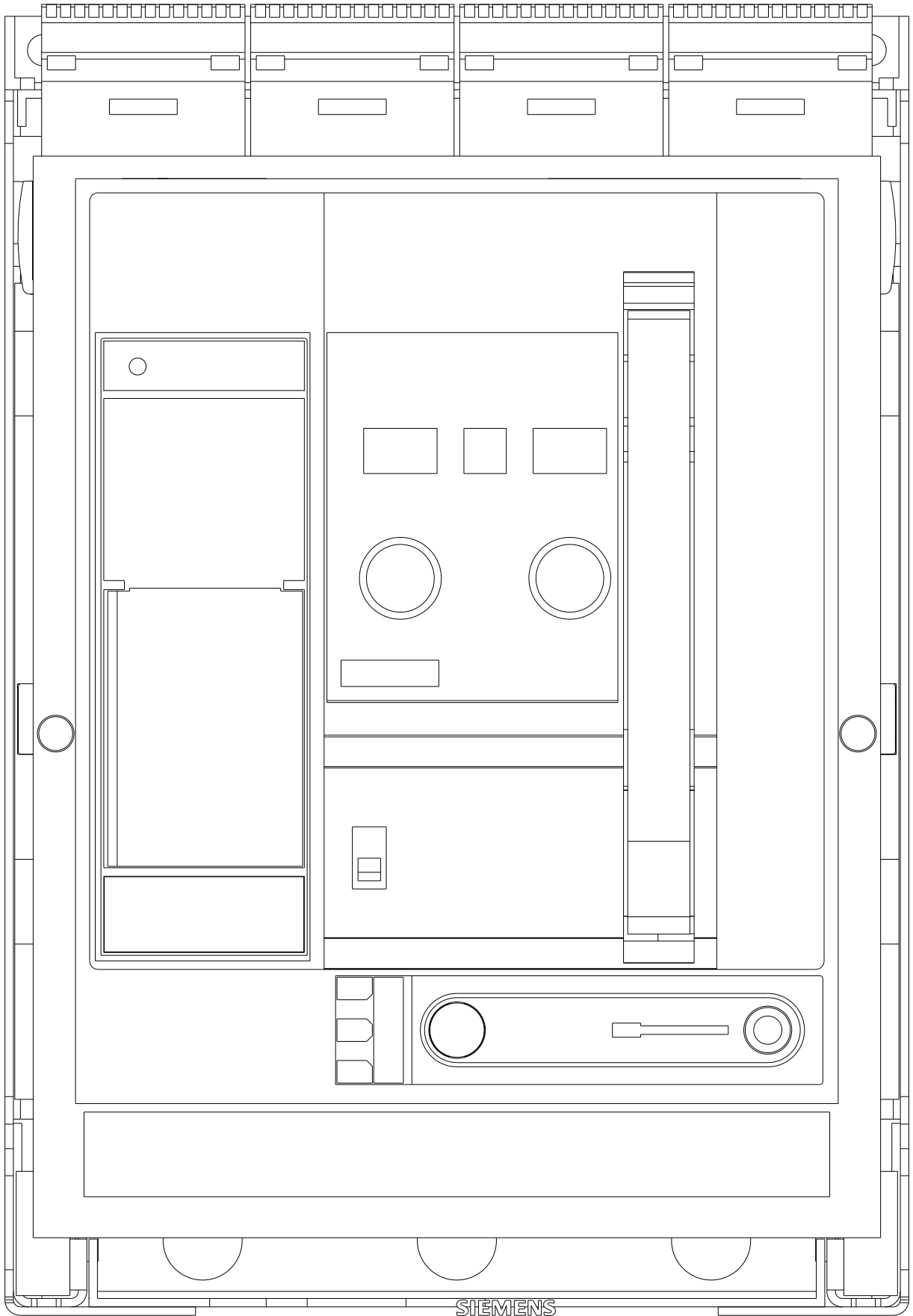
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1112-4AB62-4EQ4-Z T40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1112-4AB62-4EQ4-Z T40)

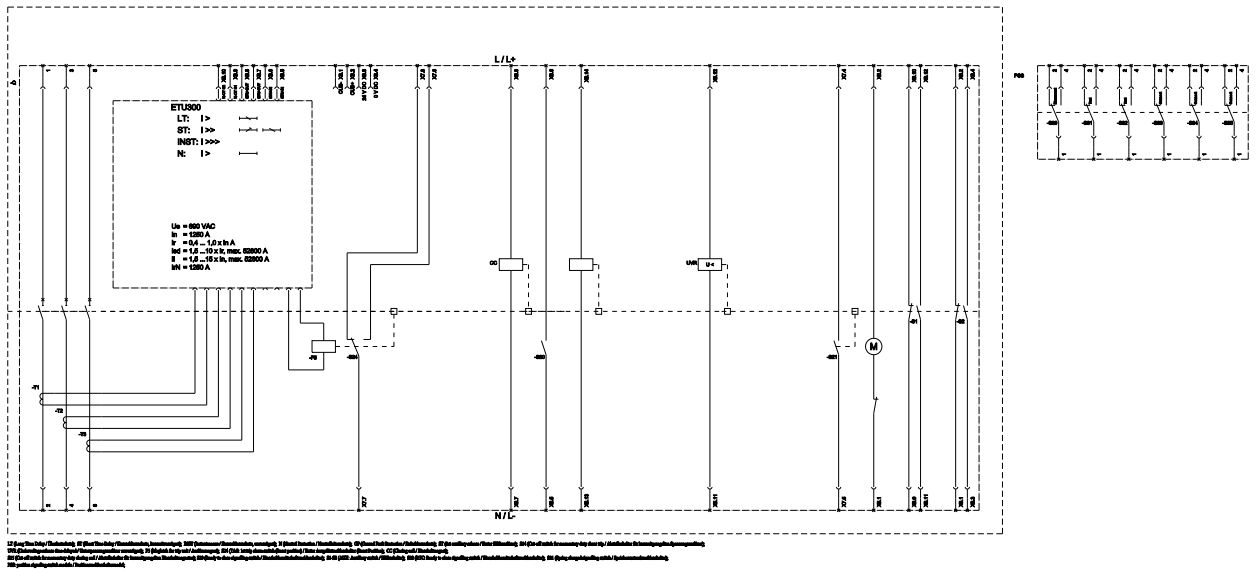
**CAX-Online-Generator**

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

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

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





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