



Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 4-poles, N-pole left,  $I_n=2500\text{A}$  up to 690V AC 50/60Hz, breaking capacity H  $I_{cu}=100/85\text{kA}$  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
product designation	Air circuit breaker
suitability for use	circuit breaker
size of the circuit-breaker	II
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	68.9 kg
Net Weight	55.9 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	270 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	H
maximum short-circuit current breaking capacity ( $I_{cu}$ )	
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
operating short-circuit current breaking capacity ( $I_{cs}$ )	
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
short-circuit current making capacity ( $I_{cm}$ )	
• at 500 V / rated value	220 kA
• at 690 V / rated value	187 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> <li>• for 1 s / rated value</li> <li>• for 2 s / rated value</li> <li>• for 3 s / rated value</li> </ul>	100 kA 85 kA 66 kA 55 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> <li>• for 1 s / rated value</li> <li>• for 2 s / rated value</li> <li>• for 3 s / rated value</li> </ul>	85 kA 85 kA 66 kA 55 kA
<b>Electronic release unit</b>	
product feature <ul style="list-style-type: none"> <li>• upgradable</li> <li>• Bluetooth and USB interface</li> <li>• decoder for basic protection functions</li> <li>• display and function keys</li> <li>• SENTRON powerconfig configuration software</li> </ul>	No No Yes No No
<b>Basic protection functions</b>	
product feature / for L-tripping <ul style="list-style-type: none"> <li>• can be switched on/off</li> <li>• selectable characteristic function</li> <li>• decoder and infinite adjustability are selectable with eSet</li> </ul>	No No 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;1.0
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 <ul style="list-style-type: none"> <li>• independent of direction / can be switched on/off</li> <li>• independent of direction / selectable characteristic function</li> <li>• decoder and infinite adjustability are selectable with eSet</li> </ul>	Yes Yes 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 <ul style="list-style-type: none"> <li>• can be switched on/off</li> <li>• decoder and infinite adjustability are selectable (with eSet)</li> </ul>	No 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 <ul style="list-style-type: none"> <li>• can be switched on/off</li> <li>• selectable characteristic function</li> </ul>	No No
<b>Further protective functions</b>	

protection function			
• 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	7500		
• at 690 V / with support / typical	20000		
<b>Dimensions</b>			
height	437 mm		
width	590 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			
• undervoltage release	No		
• voltage trigger	No		
• trip indicator	Yes		
• motor drive	No		
<b>Environmental conditions</b>			
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		
<b>Certificates</b>			
reference code			
• according to IEC 81346-2	Q		
<b>General Product Approval</b>		<b>Radio Equipment Type Approval Certificate</b>	<b>Test Certificates</b>



[Miscellaneous](#)

[Miscellaneous](#)

Test Certificates

Marine / Shipping

other

[Special Test Certificate](#)



[Confirmation](#)

[Manufacturer Declaration](#)

Dangerous goods

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=3WA1225-5AB12-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-5AB12-0AA0>

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

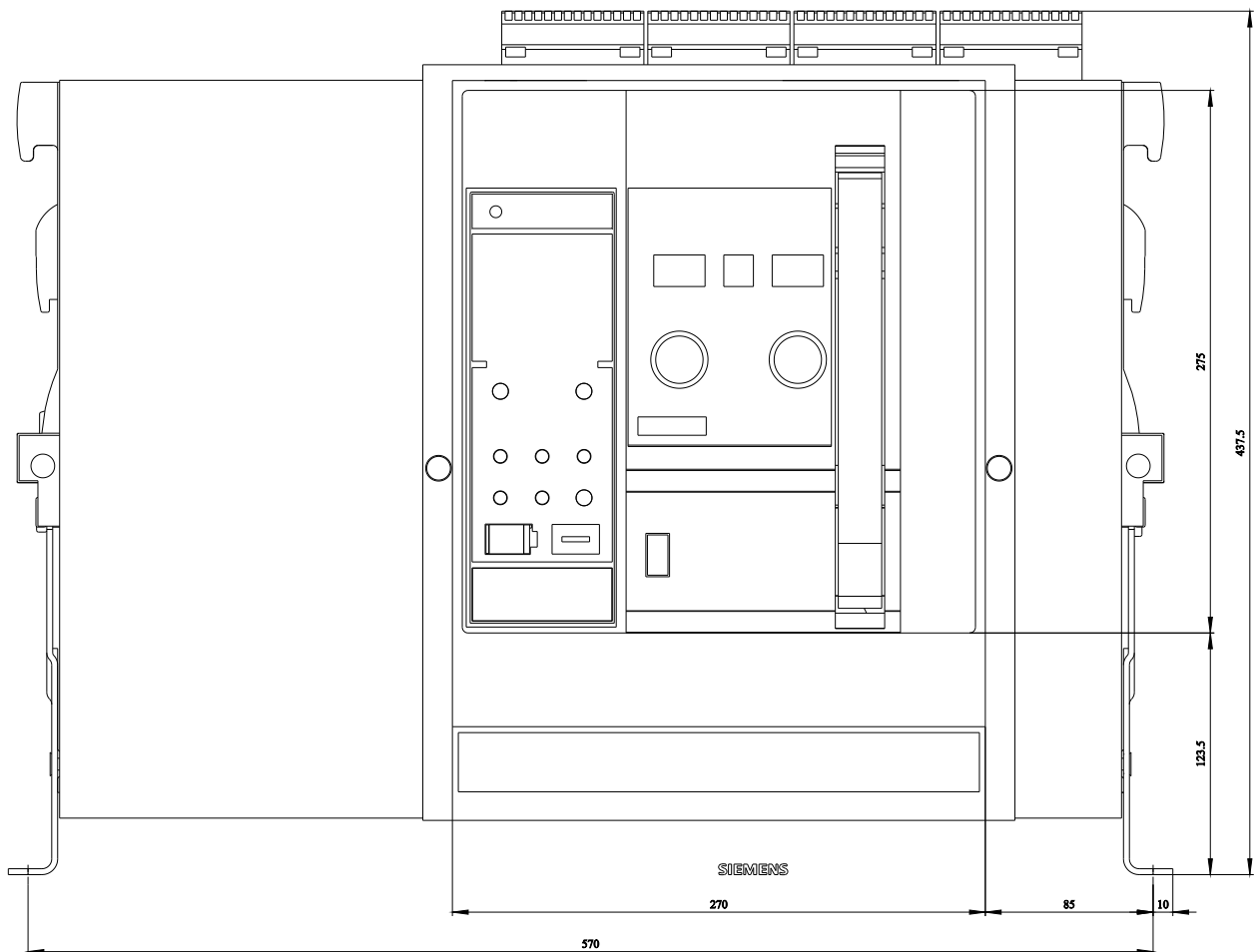
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1225-5AB12-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-5AB12-0AA0)

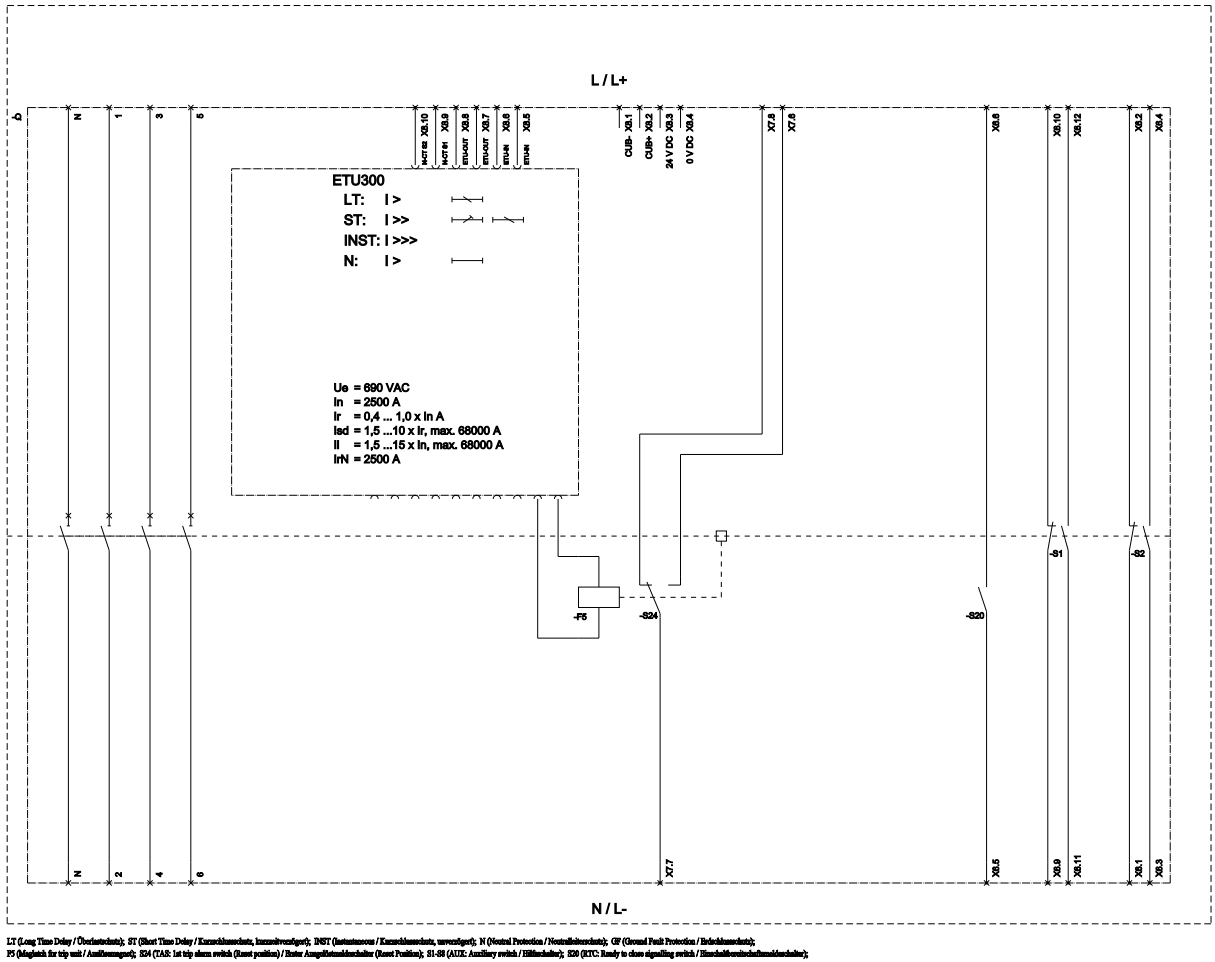
CAX-Online-Generator

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

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

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





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