

Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 3, 3-poles,  $I_n=4000\text{A}$  up to 690V AC 50/60Hz, breaking capacity  $H I_{cu}=100/85\text{kA}$  at 500/690V, Trip unit ETU300 LSIG optimized for standard applications, without display Protection LT, ST, INST, GF, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection flange, guide frame with shutter and w/o position signalling switch, 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	III
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 with mechanical or electrical closing
design of the electronic trip unit	ETU300 LSIG
Weight	164.4 kg
Net Weight	147.4 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	810 W
Current	
continuous current / rated value / maximum	4000 A
continuous current / rated value	4000 A
operational current	
• at 40 °C / rated value	4000 A
• at 45 °C / rated value	4000 A
• at 50 °C / rated value	4000 A
• at 55 °C / rated value	4000 A
• at 60 °C / rated value	4000 A
• at 65 °C / rated value	4000 A
• at 70 °C / rated value	4000 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> </ul>	100 kA
<ul style="list-style-type: none"> <li>• for 1 s / rated value</li> </ul>	100 kA
<ul style="list-style-type: none"> <li>• for 2 s / rated value</li> </ul>	100 kA
<ul style="list-style-type: none"> <li>• for 3 s / rated value</li> </ul>	100 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>	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>	85 kA
<ul style="list-style-type: none"> <li>• for 3 s / rated value</li> </ul>	85 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;1.0
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> </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
<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> </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>
<b>G: ground fault GF</b>	
product feature / for G-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
set values setting current (I <sub>g</sub> ) / for G-tripping / with I <sub>0t</sub>	0,2

characteristic	
reference value setting current (I <sub>g</sub> ) / for G-tripping / with I0t characteristic	x I <sub>n</sub>
set values delay time (t <sub>g</sub> ) / for G-tripping / with I0t characteristic	0.2
reference value delay time (t <sub>g</sub> ) / for G-tripping / with I0t characteristic	s
<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	7500
• with support / typical	15000
electrical endurance (operating cycles)	
• at 690 V / without support / typical	2000
• at 690 V / with support / typical	15000
<b>Dimensions</b>	
height	468 mm
width	704 mm
depth	471 mm
<b>Main connection</b>	
arrangement of electrical connectors / for main current circuit	main connection, connecting flange
<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>	



Miscellaneous



Test Certificates

Marine / Shipping

Miscellaneous



other

Environment

Miscellaneous

Confirmation

Environmental Con-  
firmations

Environmental Con-  
firmations

### 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=3WA1340-5AC34-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1340-5AC34-0AA0>

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

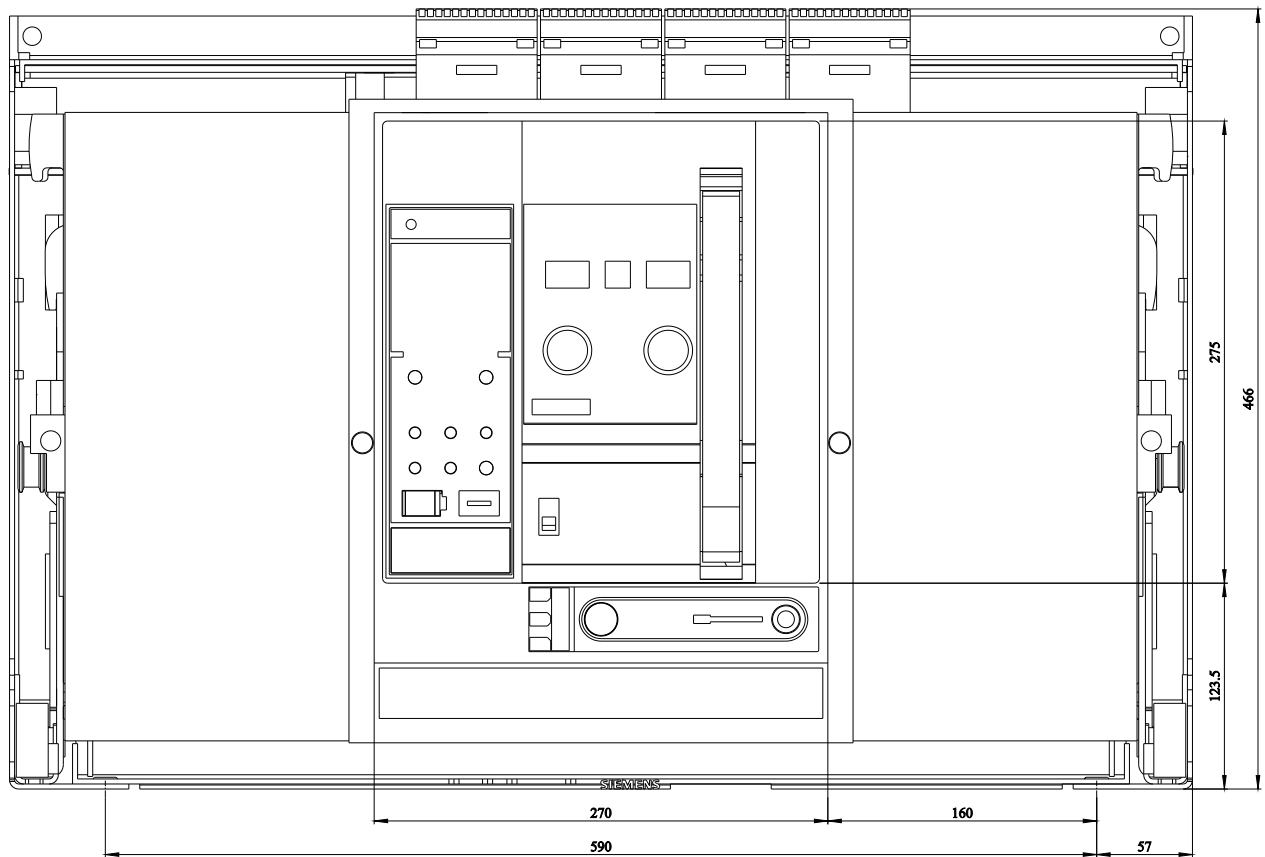
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1340-5AC34-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1340-5AC34-0AA0)

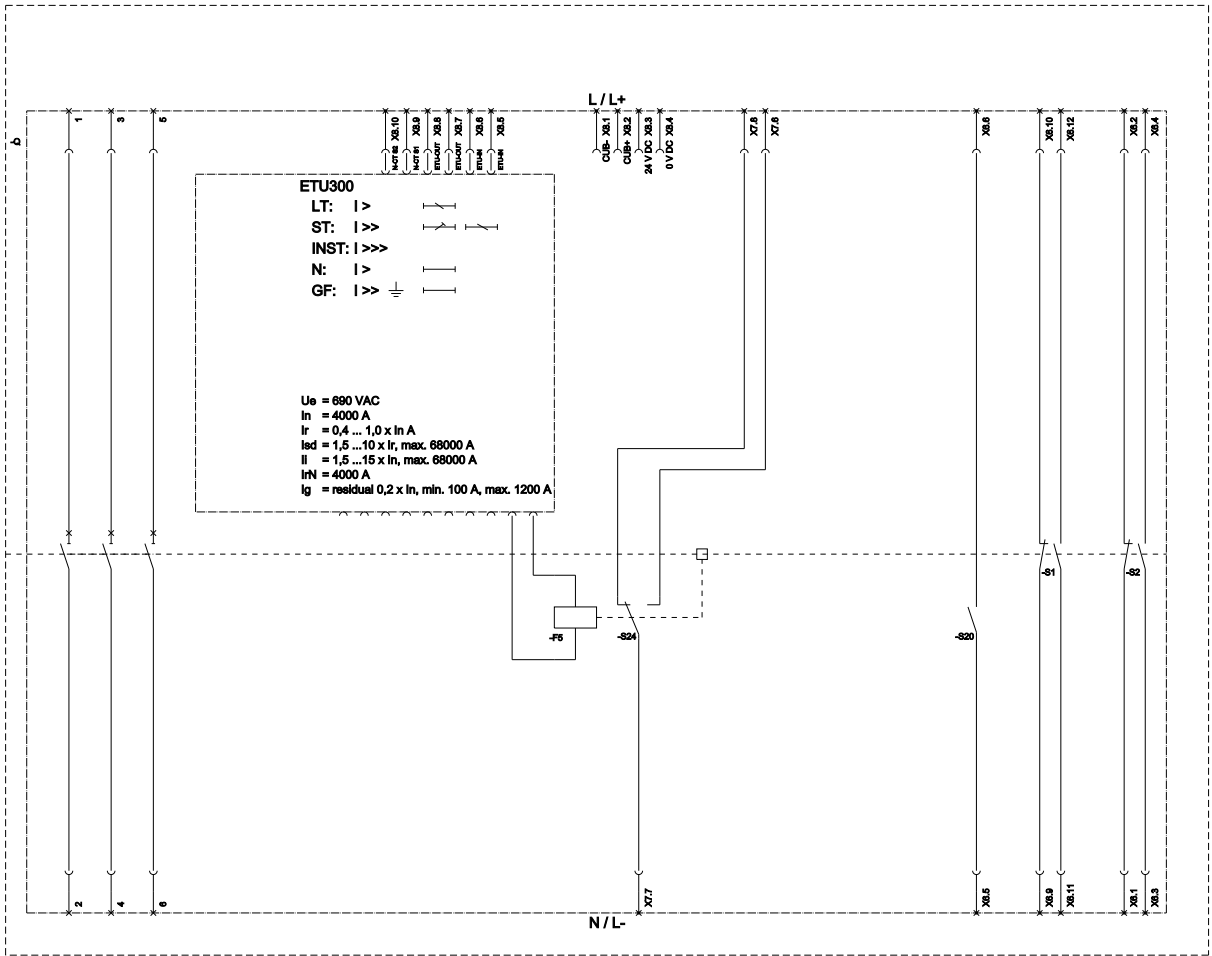
CAX-Online-Generator

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

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

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





O (Normal Fault Protection / Fehlererkennung); LT (Long Time Delay / Dichtzeit); ST (Short Time Delay / Kurzzeitzeit); INST (Instantaneous / Kurzzeitzeit); N (Normal Protection / Normalüberwachung); GF (Ground Fault Protection / Fehlererkennung); PS (Plug-in for trip unit / Auslöseorgan); S24 (TAS: last trip alarm switch (Reset Position) / Letzte Anzeigekontaktüberhaber (Reset Position)); S1-S8 (AUX: Auxiliary switch / Hilfskontakt); S20 (RTIC: Ready to close signaling switch / Abschaltkontakt); TSS: position signaling switch module / Positionsmeldemodul.

last modified:

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