



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 4-poles, N-pole left, $I_n=800\text{A}$ 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, 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	I
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	53.5 kg
Net Weight	40.5 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	45 W
Current	
continuous current / rated value / maximum	800 A
continuous current / rated value	800 A
operational current	
• at 40 °C / rated value	800 A
• at 45 °C / rated value	800 A
• at 50 °C / rated value	800 A
• at 55 °C / rated value	800 A
• at 60 °C / rated value	800 A
• at 65 °C / rated value	800 A
• at 70 °C / rated value	800 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	

• for 0.5 s / rated value • for 1 s / rated value • for 2 s / rated value • for 3 s / rated value	85 kA 85 kA 70 kA 60 kA
short-time withstand current (I_{cw}) / at 690 V AC • for 0.5 s / rated value • for 1 s / rated value • for 2 s / rated value • for 3 s / rated value	66 kA 66 kA 66 kA 60 kA
Electronic release unit	
product feature • upgradable • Bluetooth and USB interface • decoder for basic protection functions • display and function keys • SENTRON powerconfig configuration software	No No Yes No No
Basic protection functions	
product feature / for L-tripping • can be switched on/off • selectable characteristic function • decoder and infinite adjustability are selectable with eSet	No No No
set values setting current (I_r) / for L-tripping / with I_{2t} 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_r) / for L-tripping / with I_{2t} characteristic	x I_n
set values delay time (t_r) / for L-tripping / with I_{2t} characteristic	0.75;1;2;5;8;10;14;17;21;25
reference value delay time (t_r) / for L-tripping / with I_{2t} characteristic	s
L: Overload protection N-conductor	
product feature / with neutral conductor protection / can be switched on/off	No
setting values setting current (I_{nN}) / for N-tripping	1
reference value setting current (I_{nN}) / for N-tripping	x I_n
S: delayed short-circuit protection ST	
product feature / for S-tripping • independent of direction / can be switched on/off • independent of direction / selectable characteristic function • decoder and infinite adjustability are selectable with eSet	Yes Yes No
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 (t_{sd}) / for S-tripping / with I_{0t} characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic	s
S: delayed short-circuit protection ST, settings values I_{2t}	
set values setting current (I_{sd}) / for S-tripping / with I_{2t} characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I_{sd}) / for S-tripping / with I_{2t} characteristic	x I_r
set values delay time (t_{sd}) / for S-tripping / with I_{2t} characteristic	0.08;0.15;0.22;0.3;0.4
product feature / for I-tripping • can be switched on/off • decoder and infinite adjustability are selectable (with eSet)	No No
set values setting current (I_i) / for I-tripping	1.5;2;3;4;5;6;8;10;12;15
reference value setting current (I_i) / for I-tripping	x I_n
G: ground fault GF	
product feature / for G-tripping • can be switched on/off • selectable characteristic function	No No
Further protective functions	

protection function			
● maintenance mode DAS+	Yes		
Measuring functions			
measurement function			
● current measurement	Yes		
Communication			
communication function	No		
Service Life			
mechanical service life (operating cycles)			
● without support / typical	10000		
● with support / typical	15000		
electrical endurance (operating cycles)			
● at 690 V / without support / typical	10000		
● at 690 V / with support / typical	15000		
Dimensions			
height	437 mm		
width	410 mm		
depth	357 mm		
Main connection			
arrangement of electrical connectors / for main current circuit	main connection on the rear, horizontal		
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	No		
● 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		
Certificates			
reference code			
● according to IEC 81346-2	Q		
General Product Approval		Radio Equipment Type Approval Certificate	Test Certificates



EG-Konf.



[Miscellaneous](#)

[Special Test Certificate](#)

Test Certificates

Marine / Shipping

other

[Miscellaneous](#)



ABS



BUREAU
VERITAS



LRS

[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=3WA1108-4AB12-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1108-4AB12-0AA0>

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

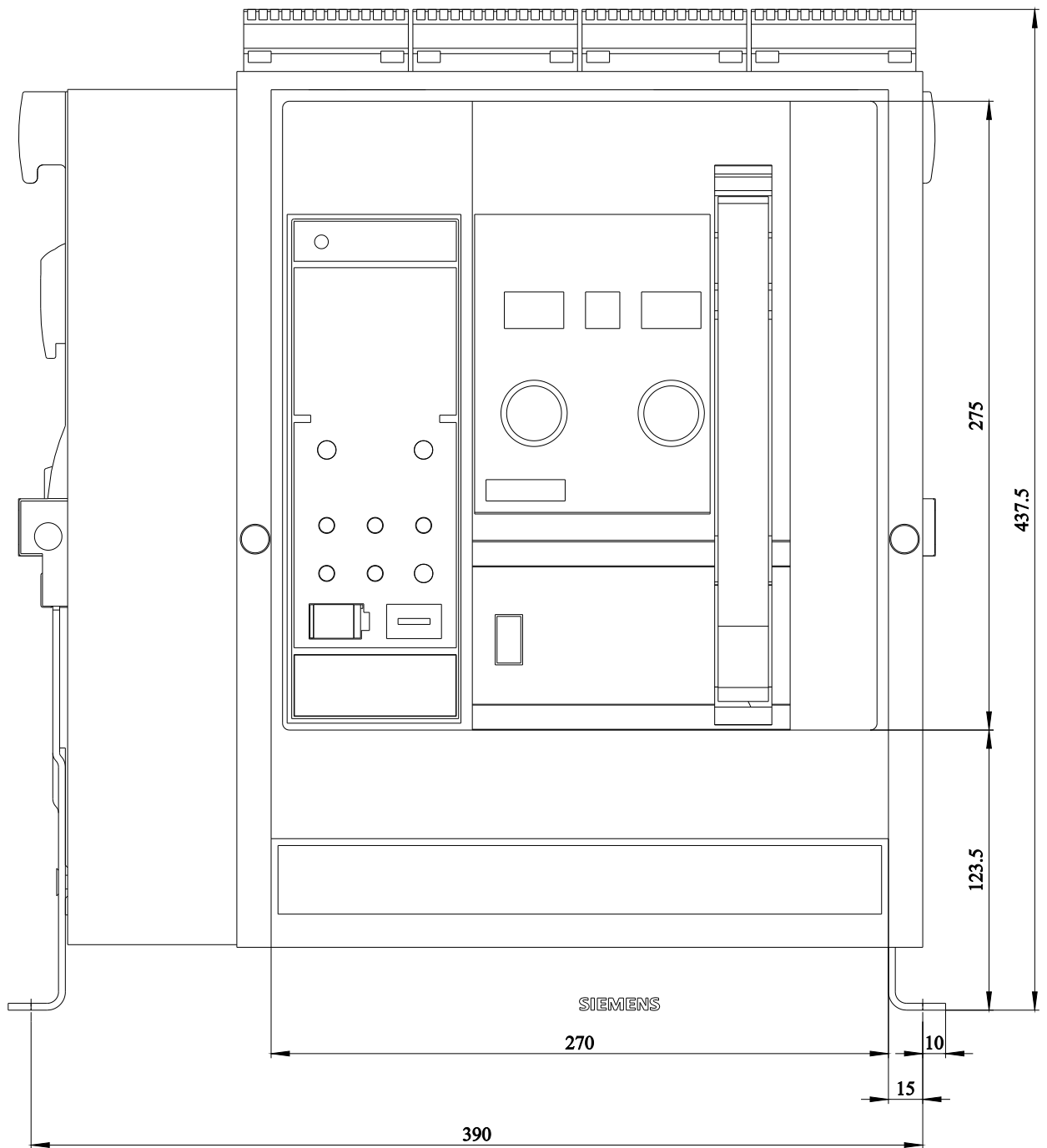
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1108-4AB12-0AA0

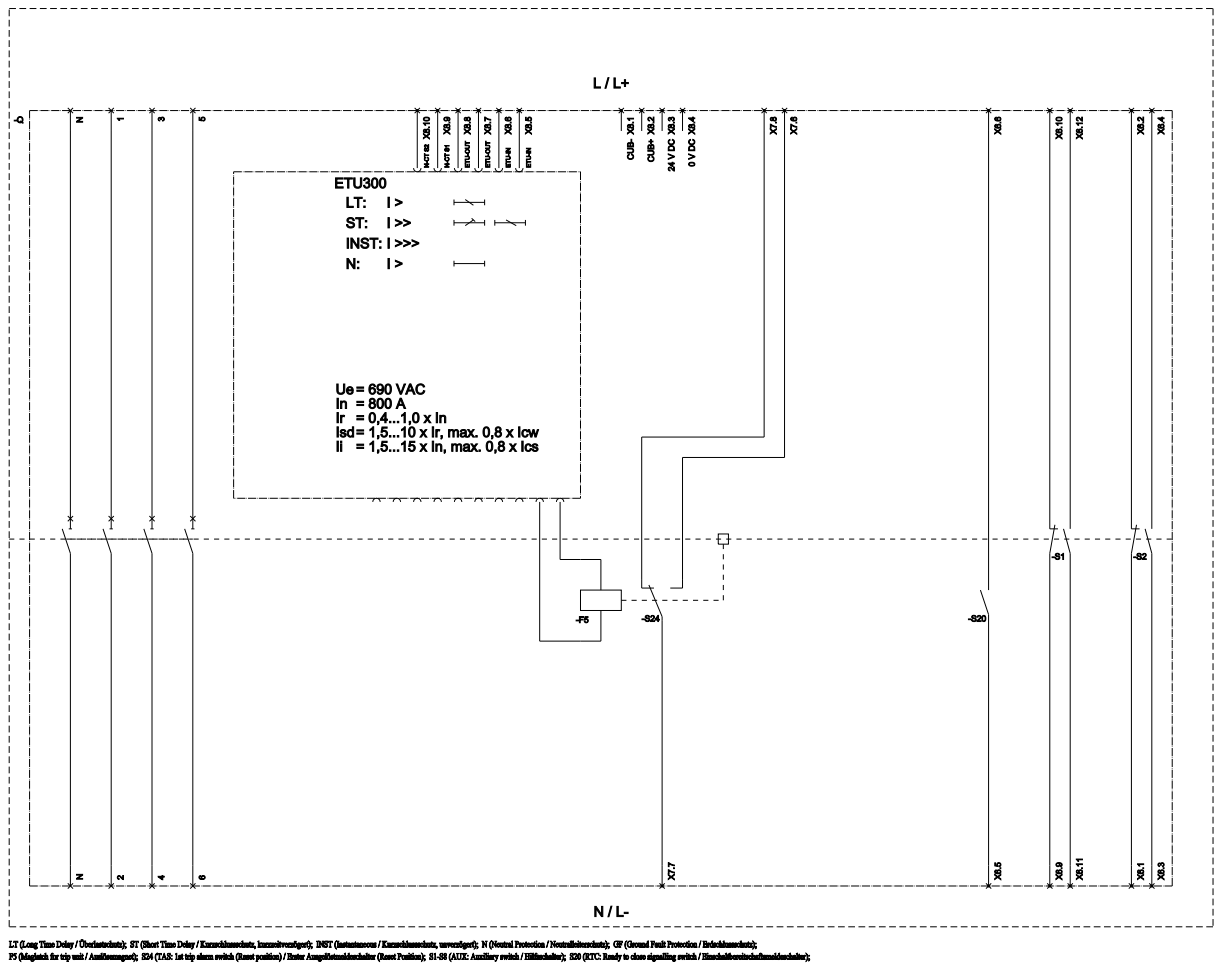
CAX-Online-Generator

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

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

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





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