## **SIEMENS**

## **Data sheet**



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 1, 4-poles, N-pole left, In=800A up to 690V AC 50/60Hz, breaking capacity M Icu=85/66kA at 500/690V, Trip unit ETU300 LSI optimized for standard applica- tions, without display Protection LT, ST, INST, include N-protection, (internal N-sensor available), incl. trip alarm switch (1xCO), rear connection horizontal, 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	1	
number of poles	4	
position / of neutral conductor	neutral left	
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 LSI	
Weight	89.5 kg	
Net Weight	76.5 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	85 W	
Current		
continuous current / rated value / maximum	800 A	
continuous current / rated value	800 A	
operational current		
<ul> <li>at 40 °C / rated value</li> </ul>	800 A	
<ul> <li>at 45 °C / rated value</li> </ul>	800 A	
<ul> <li>at 50 °C / rated value</li> </ul>	800 A	
• at 55 °C / rated value	800 A	
<ul> <li>at 60 °C / rated value</li> </ul>	800 A	
• at 65 °C / rated value	800 A	
<ul> <li>at 70 °C / rated value</li> </ul>	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 (Icu)		
at 500 V / rated value	85 kA	
• at 690 V / rated value	66 kA	
operating short-circuit current breaking capacity (lcs)		
<ul><li>at 500 V / rated value</li></ul>	85 kA	
• at 690 V / rated value	66 kA	
short-circuit current making capacity (Icm)		
at 500 V / rated value	187 kA	
• at 690 V / rated value	145 kA	
short-time withstand current (Icw) / at 500 V AC		

6.05.7.1.1	0514
• for 0.5 s / rated value	85 kA
• for 1 s / rated value	85 kA
• for 2 s / rated value	70 kA
• for 3 s / rated value	60 kA
short-time withstand current (Icw) / at 690 V AC	
• for 0.5 s / rated value	66 kA
<ul><li>for 1 s / rated value</li></ul>	66 kA
<ul><li>for 2 s / rated value</li></ul>	66 kA
• for 3 s / rated value	60 kA
Electronic release unit	
product feature	
<ul><li>upgradable</li></ul>	No
<ul> <li>Bluetooth and USB interface</li> </ul>	No
<ul> <li>decoder for basic protection functions</li> </ul>	Yes
<ul> <li>display and function keys</li> </ul>	No
SENTRON powerconfig configuration software	No
Basic protection functions	
product feature / for L-tripping	
• can be switched on/off	No
<ul> <li>selectable characteristic function</li> </ul>	No
decoder and infinite adjustability are selectable with eSet	No
set values setting current (Ir) / for L-tripping / with I2t 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 (Ir) / for L-tripping / with I2t characteristic	x In
set values delay time (tr) / for L-tripping / with I2t characteristic	0.75;1;2;5;8;10;14;17;21;25
reference value delay time (tr) / for L-tripping / with I2t characteristic	S
L: Overload protection N-conductor	
product feature / with neutral conductor protection / can be switched on/off	No
setting values setting current (InN) / for N-tripping	1
reference value setting current (InN) / for N-tripping	x In
S: delayed short-circuit protection ST	
product feature / for S-tripping	
• independent of direction / can be switched on/off	Yes
<ul> <li>independent of direction / selectable characteristic function</li> </ul>	Yes
<ul> <li>decoder and infinite adjustability are selectable with eSet</li> </ul>	No
S: delayed short-circuit protection ST, settings values I0t	
set values setting current (Isd) / for S-tripping / with I0t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (Isd) / for S-tripping / with I0t characteristic	x lr
set values delay time (tsd) / for S-tripping / with I0t characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (tsd) / for S-tripping / with I0t characteristic	S
S: delayed short-circuit protection ST, settings values I2t	
set values setting current (Isd) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (Isd) / for S-tripping / with I2t characteristic	x lr
set values delay time (tsd) / for S-tripping / with I2t characteristic	0.08;0.15;0.22;0.3;0.4
product feature / for I-tripping	
• can be switched on/off	No
<ul> <li>decoder and infinite adjustability are selectable (with eSet)</li> </ul>	No
set values setting current (li) / for I-tripping	1.5;2;3;4;5;6;8;10;12;15
reference value setting current (Ii) / for I-tripping	x In
G: ground fault GF	
product feature / for G-tripping	
• can be switched on/off	No
<ul> <li>selectable characteristic function</li> </ul>	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)	
<ul> <li>without support / typical</li> </ul>	10000
with support / typical	15000
electrical endurance (operating cycles)	
<ul> <li>at 690 V / without support / typical</li> </ul>	10000
<ul> <li>at 690 V / with support / typical</li> </ul>	15000
Dimensions	
height	468 mm
width	410 mm
depth	471 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	









Confirmation



Radio Equipment
Type Approval Certificates
Test Certificates
Marine / Shipping



**Miscellaneous** 

**Miscellaneous** 

Special Test Certificate





Marine / Shipping other Dangerous goods Environment



Manufacturer Declaration

**Transport Information** 





## Environment



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=3WA1108-4AB42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1108-4AB42-0AA0

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

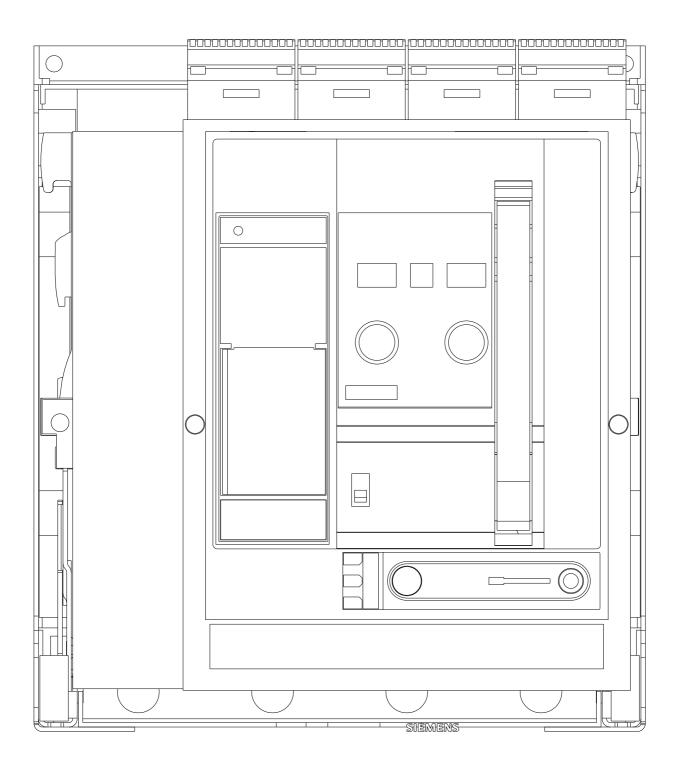
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WA1108-4AB42-0AA0

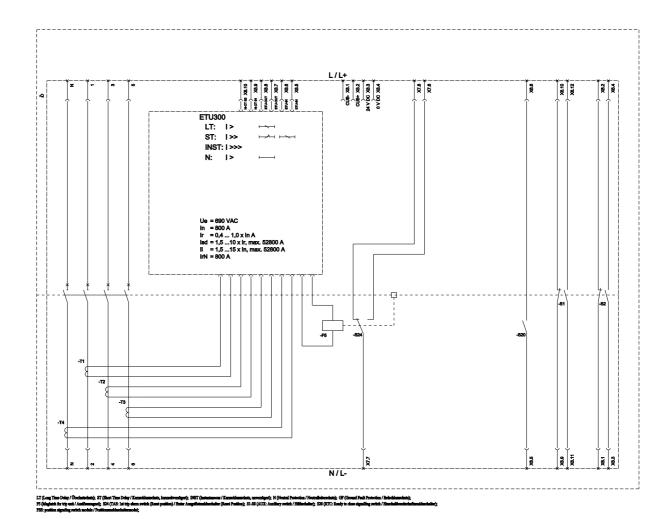
CAx-Online-Generator

http://www.siemens.com/cax

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

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





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