SIEMENS

Data sheet

3WA1110-2AB42-0AA0



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 1, 4-poles, N-pole left, In=1000A up to 690V AC 50/60Hz, breaking capacity N Icu=55/42kA 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	T	
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	83.9 kg	
Net Weight	70.9 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	130 W	
Current		
continuous current / rated value / maximum	1000 A	
continuous current / rated value	1000 A	
operational current		
 at 40 °C / rated value 	1000 A	
• at 45 °C / rated value	1000 A	
• at 50 °C / rated value	1000 A	
 at 55 °C / rated value 	1000 A	
• at 60 °C / rated value	1000 A	
• at 65 °C / rated value	1000 A	
• at 70 °C / rated value	1000 A	
Switching capacity and short-time withstand current, according to IEC 60947-2		
switching capacity class of the circuit breaker	N	
maximum short-circuit current breaking capacity (Icu)		
at 500 V / rated value	55 kA	
at 690 V / rated value	42 kA	
operating short-circuit current breaking capacity (lcs)		
• at 500 V / rated value	55 kA	
• at 690 V / rated value	42 kA	
short-circuit current making capacity (Icm)		
at 500 V / rated value	121 kA	
at 690 V / rated value	88 kA	
short-time withstand current (Icw) / at 500 V AC		

6.05.7.1.1	5514
• for 0.5 s / rated value	55 kA
• for 1 s / rated value	50 kA
• for 2 s / rated value	35 kA
• for 3 s / rated value	30 kA
short-time withstand current (Icw) / at 690 V AC	
• for 0.5 s / rated value	42 kA
• for 1 s / rated value	42 kA
• for 2 s / rated value	35 kA
• for 3 s / rated value	30 kA
Electronic release unit	
product feature	
• upgradable	No
 Bluetooth and USB interface 	No
 decoder for basic protection functions 	Yes
 display and function keys 	No
SENTRON powerconfig configuration software	No
Basic protection functions	
product feature / for L-tripping	
• can be switched on/off	No
 selectable characteristic function 	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 ln
S: delayed short-circuit protection ST	
product feature / for S-tripping	
 independent of direction / can be switched on/off 	Yes
 independent of direction / selectable characteristic function 	Yes
decoder and infinite adjustability are selectable with eSet	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
 decoder and infinite adjustability are selectable (with eSet) 	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
selectable characteristic function	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	15000
with support / typical	30000
electrical endurance (operating cycles)	
 at 690 V / without support / typical 	10000
at 690 V / with support / typical	30000
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
ficate

Radio Equipment
Test Certificates
Marine / Shipping



Miscellaneous

Miscellaneous

Special Test Certificate





Marine / Shipping other Dangerous goods Environment





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=3WA1110-2AB42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1110-2AB42-0AA0

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

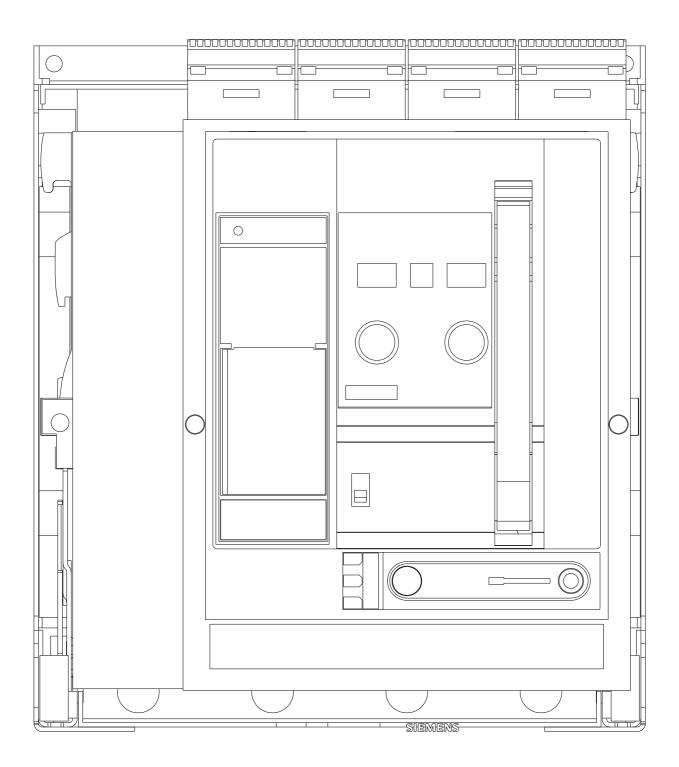
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1110-2AB42-0AA0

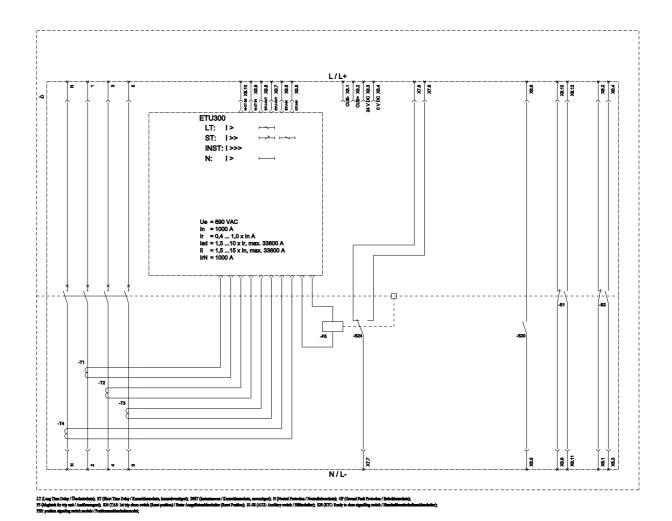
CAx-Online-Generator

http://www.siemens.com/cax

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

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





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