## 3WA1120-3AB32-0AA0

## **Data sheet**



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 1, 3-poles, In=2000A up to 690V AC 50/60Hz, breaking capacity S Icu=66/50kA at 500/690V, Trip unit ETU300 LSI optimized for standard applica- tions, without display Protection LT, ST, INST, N-protection required an external N-sensor, 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	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 LSI	
Weight	75.8 kg	
Net Weight	62.8 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	440 W	
Current		
continuous current / rated value / maximum	2000 A	
continuous current / rated value	2000 A	
operational current		
<ul> <li>at 40 °C / rated value</li> </ul>	2000 A	
• at 45 °C / rated value	2000 A	
<ul><li>at 50 °C / rated value</li></ul>	2000 A	
• at 55 °C / rated value	2000 A	
• at 60 °C / rated value	1930 A	
• at 70 °C / rated value	1780 A	
Switching capacity and short-time withstand current, according to IEC 60947-2		
switching capacity class of the circuit breaker	S	
maximum short-circuit current breaking capacity (Icu)		
• at 500 V / rated value	66 kA	
• at 690 V / rated value	50 kA	
operating short-circuit current breaking capacity (lcs)		
at 500 V / rated value	66 kA	
• at 690 V / rated value	50 kA	
short-circuit current making capacity (Icm)		
at 500 V / rated value	145 kA	
• at 690 V / rated value	105 kA	
short-time withstand current (Icw) / at 500 V AC		
• for 0.5 s / rated value	66 kA	

- for 4 o / retod value	00 kA
• for 1 s / rated value	66 kA
• for 2 s / rated value	45 kA
• for 3 s / rated value	35 kA
short-time withstand current (Icw) / at 690 V AC	F0 I.A
• for 0.5 s / rated value	50 kA
• for 1 s / rated value	50 kA
• for 2 s / rated value	45 kA
• for 3 s / rated value	35 kA
Electronic release unit	
product feature	
upgradable     Divitable and USB interferen	No
Bluetooth and USB interface	No
decoder for basic protection functions	Yes
display and function keys	No No
SENTRON powerconfig configuration software	No
Basic protection functions	
product feature / for L-tripping	No
can be switched on/off      calcatable above to interest of the street	No No
selectable characteristic function	No 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 12t 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	
<ul> <li>independent of direction / can be switched on/off</li> </ul>	Yes
<ul> <li>independent of direction / selectable characteristic function</li> </ul>	Yes
decoder and infinite adjustability are selectable with eSet	No
S: delayed short-circuit protection ST, settings values l0t	
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 Ir
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)	
<ul><li>at 690 V / without support / typical</li></ul>	7500
<ul><li>at 690 V / with support / typical</li></ul>	30000
Dimensions	
height	468 mm
width	320 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
<ul> <li>voltage trigger</li> </ul>	No
trip indicator	Yes
<ul> <li>motor drive</li> </ul>	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





Miscellaneous

EHC

**Test Certificates** Environment other

Environmental Con-firmations Special Test Certific-Confirmation Miscellaneous <u>ate</u>

## 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=3WA1120-3AB32-0AA0

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

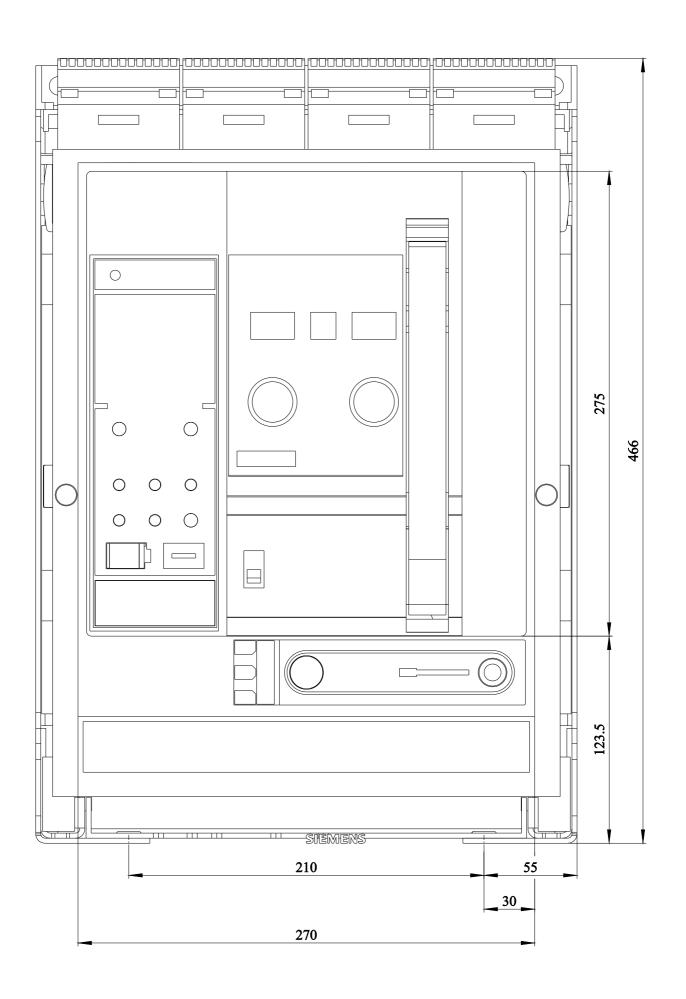
https://support.industry.siemens.com/cs/ww/en/ps/3WA1120-3AB32-0AA0

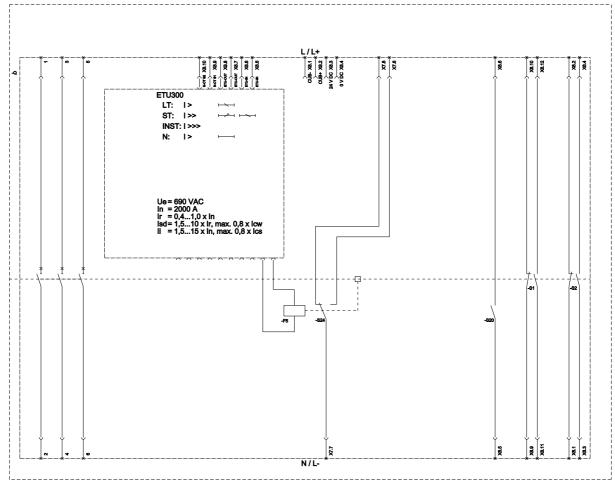
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WA1120-3AB32-0AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WA1120-3AB32-0AA0</a>

CAx-Online-Generator http://www.siemens.com/cax

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

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





LT (Long Yano Delay / Overlandstein); ST (Shot Timo Delay / Exrachlamentus, inconsiveralgent), INST (Intentations / Exrachlamentus, menulgent), IN(outsal Proteins / Noted laboration); GF (closed Peak Proteins / Section); State Ampliformised state in the sign of the sign

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