## SIEMENS

## Data sheet

## 3WA1220-5AB32-0AA0



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 3-poles, In=2000A up to 690V AC 50/60Hz, breaking capacity H Icu=100/85kA 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-toclose signal. switch, Auxiliary switches 2NO+2NC, without Closing coil (CC), manual operating mechanism with mechanical closing, without spring charging motor trip alarm reset coil (RR), without 2nd shunt trip, without 1st Shunt trip

Model					
product brand name	SENTRON				
suitability for use	circuit breaker				
size of the circuit-breaker	П				
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	92.9 kg				
Net Weight	79.9 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	320 W				
Current					
continuous current / rated value / maximum	2000 A				
continuous current / rated value	2000 A				
operational current					
• at 40 °C / rated value	2000 A				
• at 45 °C / rated value	2000 A				
• at 50 °C / rated value	2000 A				
• at 55 °C / rated value	2000 A				
• at 60 °C / rated value	2000 A				
• at 65 °C / rated value	2000 A				
• at 70 °C / rated value	2000 A				
Switching capacity and short-time withstand current, according	Switching capacity and short-time withstand current, according to IEC 60947-2				
switching capacity class of the circuit breaker	Н				
maximum short-circuit current breaking capacity (Icu)					
• at 500 V / rated value	100 kA				
• at 690 V / rated value	85 kA				
operating short-circuit current breaking capacity (lcs)					
• at 500 V / rated value	100 kA				
• at 690 V / rated value	85 kA				
short-circuit current making capacity (Icm)					
• at 500 V / rated value	220 kA				
• at 690 V / rated value	187 kA				
short-time withstand current (Icw) / at 500 V AC					
• for 0.5 s / rated value	100 kA				

• for 1 s / rated value	85 kA
• for 2 s / rated value	66 kA
• for 3 s / rated value	55 kA
short-time withstand current (Icw) / at 690 V AC	
for 0.5 s / rated value	85 kA
for 1 s / rated value	85 kA
for 2 s / rated value	66 kA
• for 3 s / rated value	55 kA
Electronic release unit	
product feature	
upgradable	No
Bluetooth and USB interface	No
decoder for basic protection functions	Yes
decoder for basic protection functions     display and function keys	No
SENTRON powerconfig configuration software	No
Basic protection functions	NU
product feature / for L-tripping • can be switched on/off	No
<ul> <li>selectable characteristic function</li> <li>decoder and infinite adjustability are selectable with eSet</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	No
switched on/off	
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	Vee
<ul> <li>independent of direction / can be switched on/off</li> <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 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 l0t 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 (li) / 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	res					
measurement function	_					
	Yes					
current measurement Communication	Tes					
	Ne					
communication function	No					
Service Life	_	_	_			
mechanical service life (operating cycles)						
without support / typical	1000					
with support / typical	2000	00				
electrical endurance (operating cycles)						
<ul> <li>at 690 V / without support / typical</li> </ul>		7500				
at 690 V / with support / typical	2000	20000				
Dimensions						
height	468	mm				
width	460	460 mm				
depth	471	471 mm				
Main connection						
arrangement of electrical connectors / for main current ci	rcuit main	connection on the rear, h	orizontal			
Auxiliary circuit						
design of the auxiliary switch	2 NC	) + 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						
<ul> <li>undervoltage release</li> </ul>	No					
<ul> <li>voltage trigger</li> </ul>	No					
trip indicator	Yes					
motor drive	No					
Environmental conditions						
protection class IP / on the front	IP20					
ambient temperature / during operation						
• minimum	-40 °	С				
• maximum	70 °(					
ambient temperature / during storage						
• minimum	-40 °	С				
• maximum	80 °C					
Certificates		-				
reference code	_					
according to IEC 81346-2	Q					
General Product Approval	ŭ		Radio Equipment Type Approval Certi-	Test Certificates		
TP			ficate			
	UK	гпг	<b>Miscellaneous</b>	<u>Special Test Certific-</u> <u>ate</u>		
CCC EG-Konf.	UK CA	EAC		—		
Test Certificates Marine / Shipping			other			
Miscellaneous		Llovd's Register	Confirmation	Manufacturer Declara- tion		
ABS		LIKS				
	VERITAS					
Dangerous goods Environment						

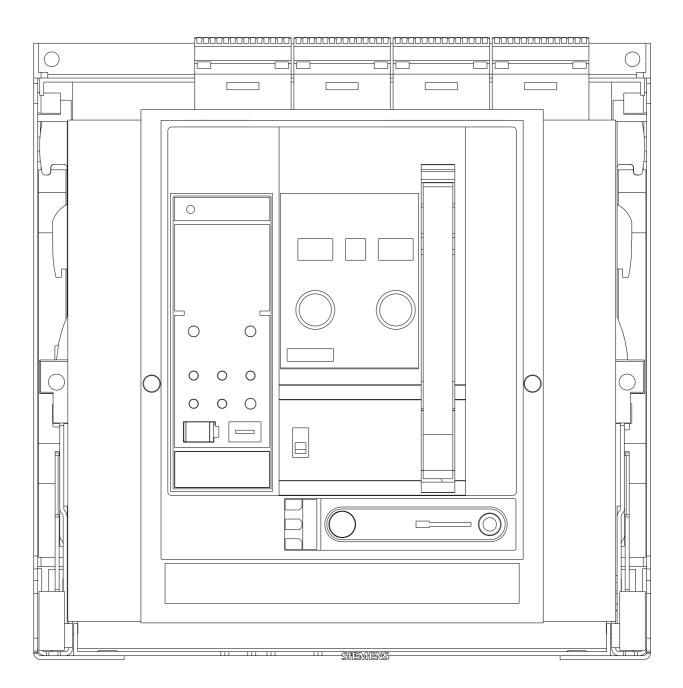


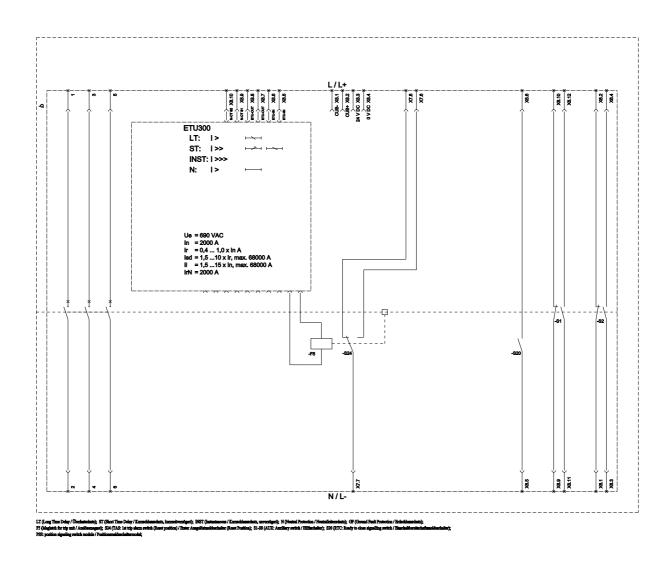




- Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875
- Industry Mall (Online ordering system)
- https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1220-5AB32-0AA0
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
- https://support.industry.siemens.com/cs/ww/en/ps/3WA1220-5AB32-0AA0
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WA1220-5AB32-0AA0
- CAx-Online-Generator
- http://www.siemens.com/cax

Information- and Downloadcenter (catalogues, leaflets,...) http://www.siemens.com/energy-automation





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