

Siemens
EcoTech



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 3-poles, $I_n=2000\text{A}$ up to 690V AC 50/60Hz, breaking capacity S $I_{cu}=66/50\text{kA}$ at 500/690V, Trip unit ETU300 LSI optimized for standard applications, 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 with manual and motorized operating mechanism (M) 110-127 V AC / 110-125 V DC, Storage status and ready-to-close signalling switches, Auxiliary switches 2NO+2NC, Closing coil (CC) 100% OP 110-127 V AC / 110-125 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), Undervoltage release (UVR) instantaneous (0,08 s) and short-delay (0,2 s), 110-127 V AC / 110-125 V DC, without 1st Shunt trip

Model	
product brand name	SENTRON
product designation	Air circuit breaker
suitability for use	circuit breaker
size of the circuit-breaker	II
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/spring charging motor with spring charge signalling switch
design of the electronic trip unit	ETU300 LSI
Weight	92.7 kg
Net Weight	79.7 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 to IEC 60947-2	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity (I_{cu})	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA






short-circuit current making capacity (I _{cm})	
<ul style="list-style-type: none"> at 500 V / rated value at 690 V / rated value 	145 kA 105 kA
short-time withstand current (I _{cw}) / at 500 V AC	
<ul style="list-style-type: none"> 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 55 kA
short-time withstand current (I _{cw}) / at 690 V AC	
<ul style="list-style-type: none"> for 0.5 s / rated value for 1 s / rated value for 2 s / rated value for 3 s / rated value 	50 kA 50 kA 50 kA 50 kA

Electronic release unit

product feature	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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			
• 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	10000		
• with support / typical	20000		
electrical endurance (operating cycles)			
• at 690 V / without support / typical	7500		
• at 690 V / with support / typical	20000		
Dimensions			
height	468 mm		
width	460 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	Yes		
• voltage trigger	No		
• trip indicator	Yes		
• motor drive	Yes		
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		
Environmental footprint			
Siemens Eco Profile (SEP)	Siemens EcoTech		
Certificates			
reference code			
• according to IEC 81346-2	Q		
General Product Approval		EMV	Radio Equipment Type Approval Certificate
			
CCC		EG-Konf.	
			Miscellaneous
Test Certificates	Maritime application	other	

[Miscellaneous](#)

[Special Test Certificate](#)



[Confirmation](#)

other

Dangerous goods

Environment



[Manufacturer Declaration](#)

[Transport Information](#)



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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=3WA1220-3AB32-3DP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1220-3AB32-3DP0>

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

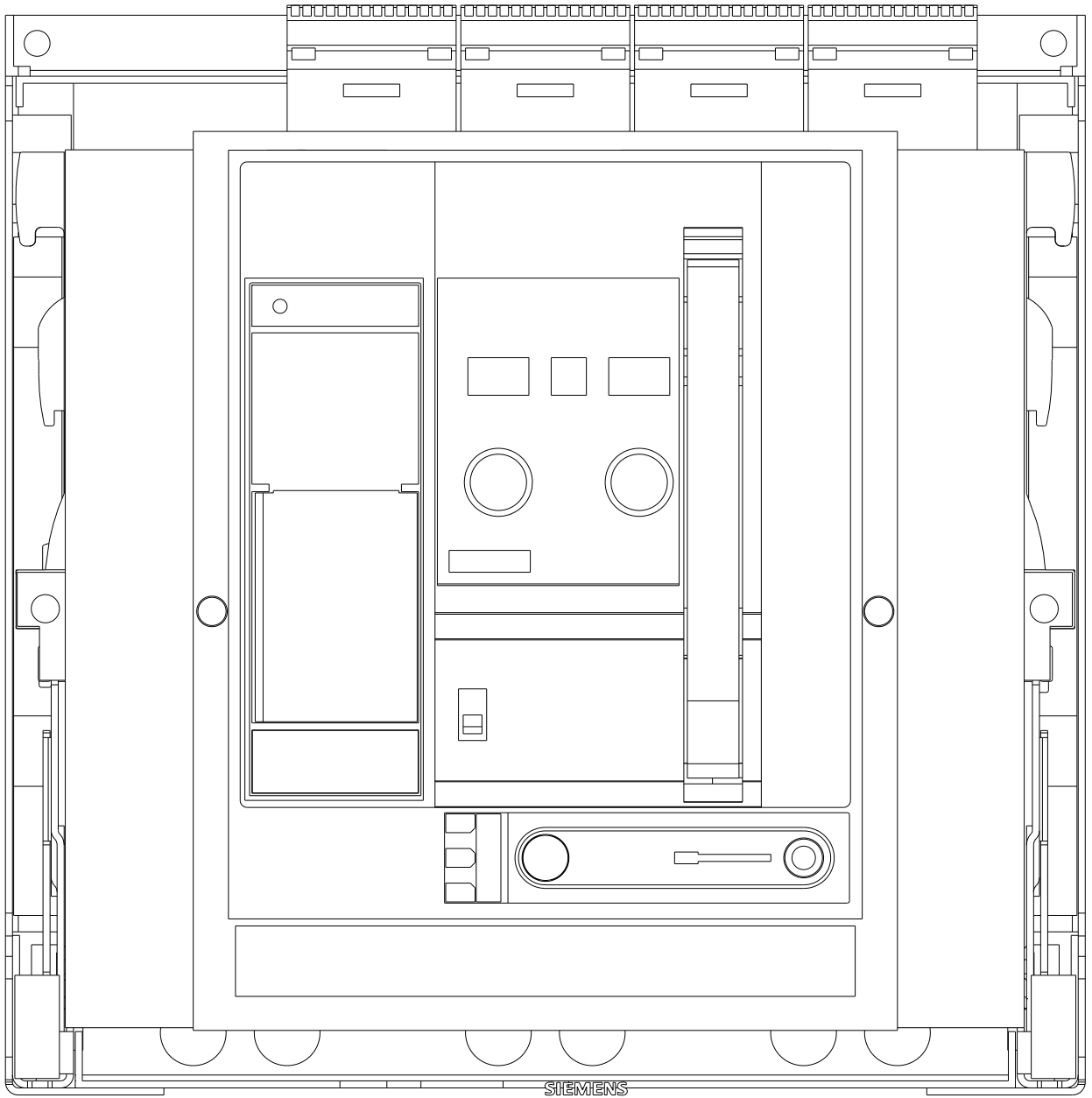
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1220-3AB32-3DP0

CAX-Online-Generator

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

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

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



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