

Siemens
EcoTech



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 1, 3-poles, $I_n=1250\text{A}$ 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	I
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	75.3 kg
Net Weight	62.3 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	205 W
Current	
continuous current / rated value / maximum	1250 A
continuous current / rated value	1250 A
operational current	
• at 40 °C / rated value	1250 A
• at 45 °C / rated value	1250 A
• at 50 °C / rated value	1250 A
• at 55 °C / rated value	1250 A
• at 60 °C / rated value	1250 A
• at 70 °C / rated value	1210 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 	<p>145 kA</p> <p>105 kA</p>
<p>short-time withstand current (I_{cw}) / at 500 V AC</p> <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 	<p>66 kA</p> <p>66 kA</p> <p>45 kA</p> <p>35 kA</p>
<p>short-time withstand current (I_{cw}) / at 690 V AC</p> <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 	<p>50 kA</p> <p>50 kA</p> <p>45 kA</p> <p>35 kA</p>

Electronic release unit

<p>product feature</p> <ul style="list-style-type: none"> • upgradable • Bluetooth and USB interface • decoder for basic protection functions • display and function keys • SENTRON powerconfig configuration software 	<p>No</p> <p>No</p> <p>Yes</p> <p>No</p> <p>No</p>
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Basic protection functions

<p>product feature / for L-tripping</p> <ul style="list-style-type: none"> • can be switched on/off • selectable characteristic function • decoder and infinite adjustability are selectable with eSet 	<p>No</p> <p>No</p> <p>No</p>
<p>set values setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>0.4;0.5;0.6;0.7;0.75;0.8;0.85;0.9;0.95;1.0</p>
<p>reference value setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>x I_n</p>
<p>set values delay time (t_r) / for L-tripping / with I_{2t} characteristic</p>	<p>0.75;1;2;5;8;10;14;17;21;25</p>
<p>reference value delay time (t_r) / for L-tripping / with I_{2t} characteristic</p>	<p>s</p>
<p>L: Overload protection N-conductor</p>	
<p>product feature / with neutral conductor protection / can be switched on/off</p>	<p>No</p>
<p>setting values setting current (I_{nN}) / for N-tripping</p>	<p>1</p>
<p>reference value setting current (I_{nN}) / for N-tripping</p>	<p>x I_n</p>
<p>S: delayed short-circuit protection ST</p>	
<p>product feature / for S-tripping</p> <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 	<p>Yes</p> <p>Yes</p> <p>No</p>
<p>S: delayed short-circuit protection ST, settings values I_{0t}</p>	
<p>set values setting current (I_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>1.5;2;2.5;3;4;5;6;8;10</p>
<p>reference value setting current (I_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>x I_r</p>
<p>set values delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>0.08;0.15;0.22;0.3;0.4</p>
<p>reference value delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic</p>	<p>s</p>
<p>S: delayed short-circuit protection ST, settings values I_{2t}</p>	
<p>set values setting current (I_{sd}) / for S-tripping / with I_{2t} characteristic</p>	<p>1.5;2;2.5;3;4;5;6;8;10</p>
<p>reference value setting current (I_{sd}) / for S-tripping / with I_{2t} characteristic</p>	<p>x I_r</p>
<p>set values delay time (t_{sd}) / for S-tripping / with I_{2t} characteristic</p>	<p>0.08;0.15;0.22;0.3;0.4</p>
<p>product feature / for I-tripping</p> <ul style="list-style-type: none"> • can be switched on/off • decoder and infinite adjustability are selectable (with eSet) 	<p>No</p> <p>No</p>
<p>set values setting current (I_i) / for I-tripping</p>	<p>1.5;2;3;4;5;6;8;10;12;15</p>
<p>reference value setting current (I_i) / for I-tripping</p>	<p>x I_n</p>
<p>G: ground fault GF</p>	
<p>product feature / for G-tripping</p>	

• 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	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	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.		
			RCM
			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=3WA1112-3AB32-3DP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1112-3AB32-3DP0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1112-3AB32-3DP0

CAX-Online-Generator

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

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

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

