

Siemens
EcoTech



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles, $I_n=800A$ up to 690V AC 50/60Hz, breaking capacity $N I_{cu}=55/42kA$ 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), front connection double hole, without Com & metering function with manual and motorized operating mechanism (M) 24-30 V DC, Storage status and ready-to-close signaling switches, Auxiliary switches 2NO+2NC, Closing coil (CC) 100% OP 24-30 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), 380-415 V AC, Shunt trip (ST) 100% OP 24-30 V DC, suitable for continuous duty,

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	fixed-mounted circuit breakers
design of the product	AC application
type of the driving mechanism	manual operating mechanism/spring charging motor with spring charge signaling switch
design of the electronic trip unit	ETU300 LSI
Weight	51.79 kg
Net Weight	38.79 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	45 W
Current	
continuous current / rated value / maximum	800 A
continuous current / rated value	800 A
operational current	
• at 40 °C / rated value	800 A
• at 45 °C / rated value	800 A
• at 50 °C / rated value	800 A
• at 55 °C / rated value	800 A
• at 60 °C / rated value	800 A
• at 65 °C / rated value	800 A
• at 70 °C / rated value	800 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 (I_{cu})	
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
short-circuit current making capacity (I_{cm})	
• at 500 V / rated value	121 kA
• at 690 V / rated value	88 kA
short-time withstand current (I_{cw}) / at 500 V AC	
• 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 (I _{cw}) / 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 (I _r) / 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
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reference value setting current (I _r) / for L-tripping / with I2t characteristic	x I _n
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set values delay time (t _r) / for L-tripping / with I2t characteristic	0.75;1;2;5;8;10;14;17;21;25
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reference value delay time (t _r) / for L-tripping / with I2t characteristic	s
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L: Overload protection N-conductor

product feature / with neutral conductor protection / can be switched on/off	No
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setting values setting current (I _{nN}) / for N-tripping	1
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reference value setting current (I _{nN}) / for N-tripping	x I _n
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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 (I _{sd}) / for S-tripping / with I0t characteristic	1.5;2;2.5;3;4;5;6;8;10
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reference value setting current (I _{sd}) / for S-tripping / with I0t characteristic	x I _r
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set values delay time (t _{sd}) / for S-tripping / with I0t characteristic	0.08;0.15;0.22;0.3;0.4
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reference value delay time (t _{sd}) / for S-tripping / with I0t characteristic	s
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S: delayed short-circuit protection ST, settings values I2t

set values setting current (I _{sd}) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
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reference value setting current (I _{sd}) / for S-tripping / with I2t characteristic	x I _r
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set values delay time (t _{sd}) / for S-tripping / with I2t characteristic	0.08;0.15;0.22;0.3;0.4
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product feature / for I-tripping	
• can be switched on/off	No
• decoder and infinite adjustability are selectable (with eSet)	No

set values setting current (I _i) / for I-tripping	1.5;2;3;4;5;6;8;10;12;15
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reference value setting current (I _i) / for I-tripping	x I _n
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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	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	437 mm			
width	320 mm			
depth	357 mm			
Main connection				
arrangement of electrical connectors / for main current circuit	front main circuit connection, double hole			
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	Yes			
• 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	Marine / Shipping	other		
Miscellaneous	Special Test Certificate	 ABS	 BUREAU VERITAS	
		 Lloyd's Register	Confirmation	
		LRS		
other	Dangerous goods	Environment		



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=3WA1108-2AB03-2BR1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1108-2AB03-2BR1>

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

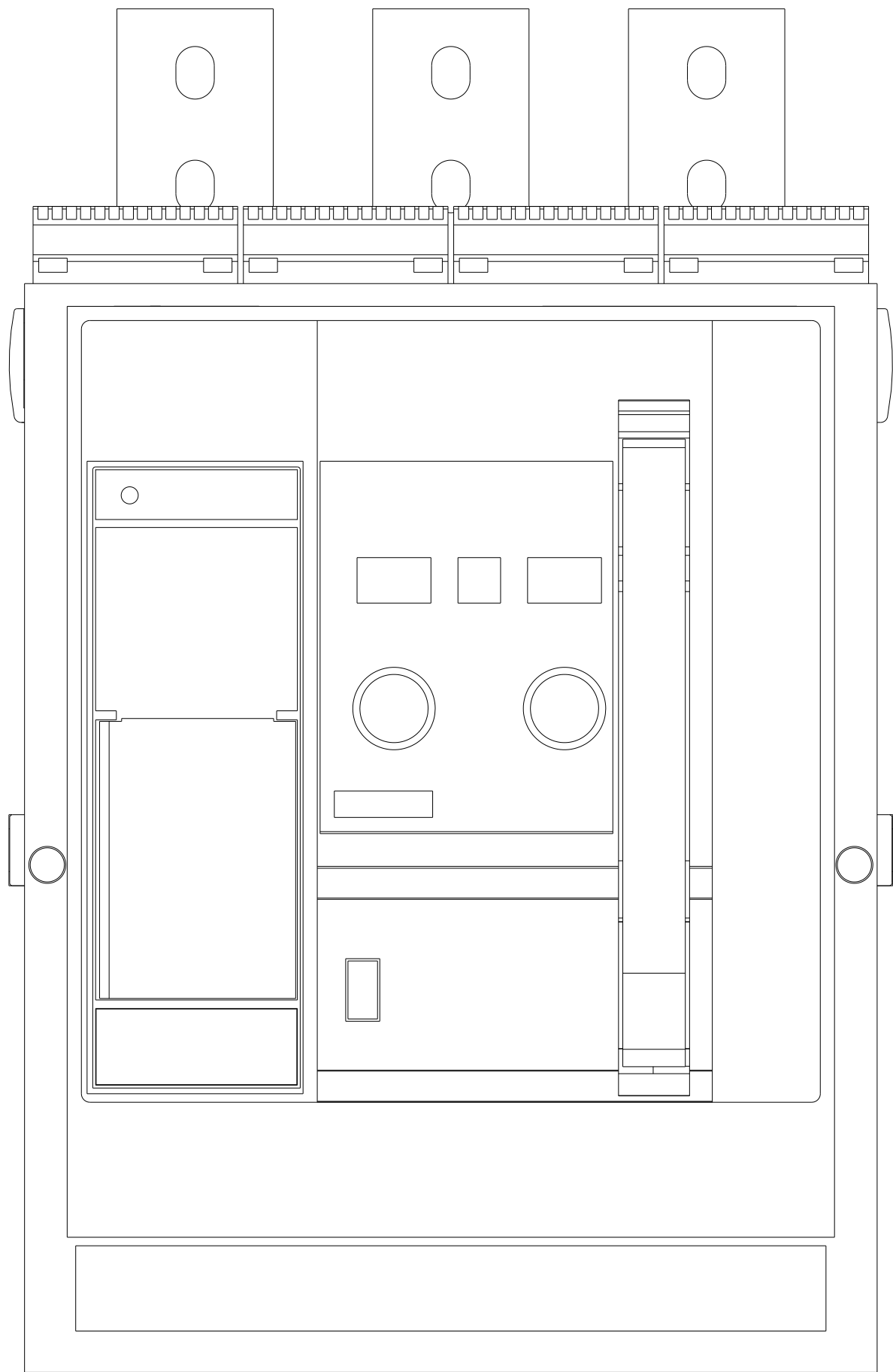
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1108-2AB03-2BR1

CAX-Online-Generator

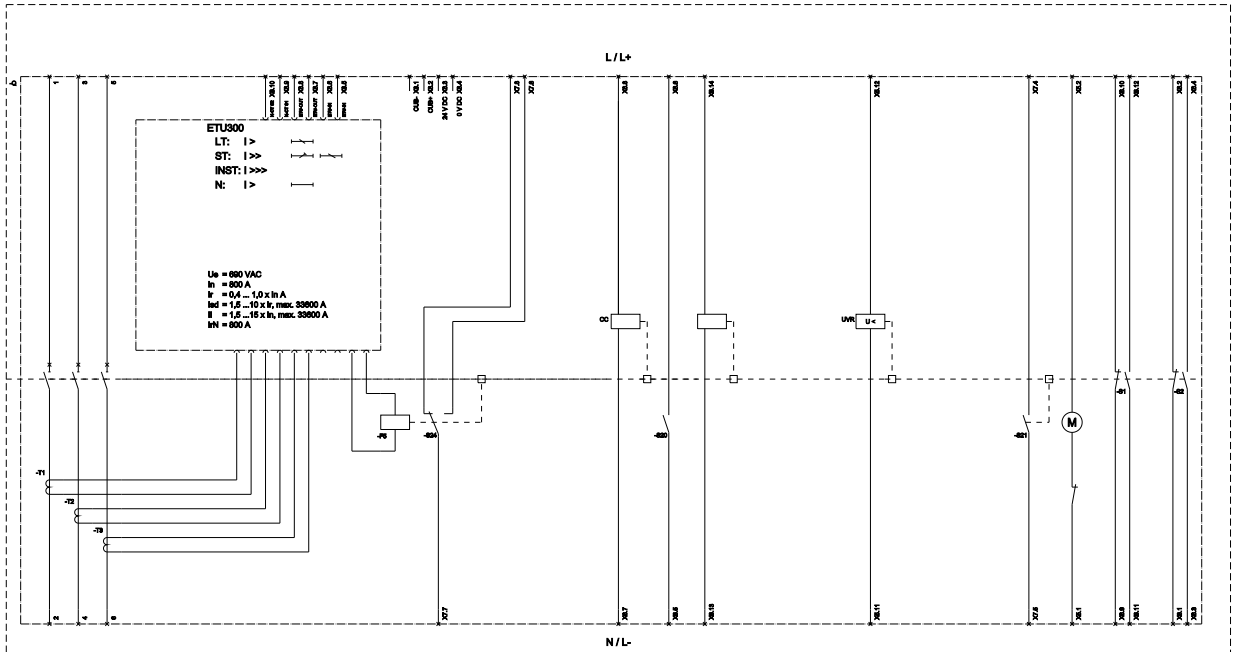
<http://www.siemens.com/cax>

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

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



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