

Customer : AREVA Sachsenwerk GmbH  
Order No. : 4500191205 v. 28.04.05 Pos. 110

Berlin, 23.06.05

## Test Certificate

6 Current transformers, Type CT 12H  
FB-No. 201017434/110  
Serial No. 05/5106901 to 05/5106906

Class of insulation T72/E  
Insulation level [kV] 12/28/75  
Rated short-time thermal current  $I_{th}$  [kA] 50 3s  
Rated frequency [Hz] 50  
Rated dynamic current  $I_{dyn}$  [kA] 120

Core	1	2	3
Rated ratio [A/A]	2500/ 1	2500/ 1	2500/ 1
Rated output [VA]	15	15	15
Accuracy class	0.2	1	10P
Instrument security factor	FS5	FS5	-
Accuracy limit factor	-	-	10

According to the rules for instrument transformers: IEC 60044-1

Terminal markings were found to be correct.

The current transformers withstood the high-voltage test.

- Power-frequency test on primary winding / busbar : passed
- Power-frequency test on secondary windings : passed
- Inter turn test : passed
- Partial discharge test : passed

The results of the accuracy test, performed after demagnetization, comply with the limits of error for the respective accuracy class.

For results of accuracy test please see page 2 - 7

Date of test: 21.06.2005

Instrument transformer test room

by order Krause

**Serial No. 05 / 5106901**

Fb.No. 201017434/110

**Core 1 1.Rated ratio 2500/ 1**

		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.05	+00.15						
1.00		-00.05	+00.25	-00.03	+01.52				
0.20		-00.08	+01.34						
0.05		-00.11	+01.88						

**Core 2 1.Rated ratio 2500/ 1**

		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.07	+00.25						
1.00		-00.07	+00.43	-00.03	+01.51				
0.20		-00.43	+21.23						
0.05		-00.84	+25.53						

**Core 3 1.Rated ratio 2500/ 1**

		15VA; PF0.8							
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.00		-00.05	+00.00						

**Serial No. 05 / 5106902**

Fb.No. 201017434/110

Core 1		1.Rated ratio 2500/ 1							
		15VA; PF0.8				3.75VA; PF1			
I / I <sub>N</sub>		F [%]	D [min]			F [%]	D [min]		
1.20		-00.16	+00.25						
1.00		-00.13	+00.17			-00.06	+01.12		
0.20		-00.16	+01.91						
0.05		-00.21	+03.28						

Core 2		1.Rated ratio 2500/ 1							
		15VA; PF0.8				3.75VA; PF1			
I / I <sub>N</sub>		F [%]	D [min]			F [%]	D [min]		
1.20		-00.19	+04.02						
1.00		-00.17	+02.07			-00.06	+02.68		
0.20		-00.95	+31.46						
0.05		-00.54	+17.04						

Core 3		1.Rated ratio 2500/ 1							
		15VA; PF0.8							
I / I <sub>N</sub>		F [%]	D [min]			F [%]	D [min]		
1.00		-00.07	+00.64						

**Serial No. 05 / 5106903**

Fb.No. 201017434/110

Core 1		1.Rated ratio 2500/ 1							
		15VA; PF0.8				3.75VA; PF1			
I / I <sub>N</sub>		F [%]	D [min]			F [%]	D [min]		
1.20		-00.05	+00.15						
1.00		-00.05	+00.35			+00.00	+00.83		
0.20		-00.08	+01.51						
0.05		-00.10	+01.92						

Core 2		1.Rated ratio 2500/ 1							
		15VA; PF0.8				3.75VA; PF1			
I / I <sub>N</sub>		F [%]	D [min]			F [%]	D [min]		
1.20		-00.05	+00.19						
1.00		-00.05	+00.34			-00.03	+01.92		
0.20		-00.20	+04.87						
0.05		-00.18	+04.15						

Core 3		1.Rated ratio 2500/ 1							
		15VA; PF0.8							
I / I <sub>N</sub>		F [%]	D [min]			F [%]	D [min]		
1.00		-00.07	+00.14						

**Serial No. 05 / 5106904**

Fb.No. 201017434/110

Core 1		1.Rated ratio 2500/ 1							
		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.05	-00.30						
1.00		-00.06	-00.15	-00.01	+00.41				
0.20		-00.20	+03.59						
0.05		-00.22	+04.64						

Core 2		1.Rated ratio 2500/ 1							
		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.12	+00.64						
1.00		-00.10	+00.45	-00.01	+00.83				
0.20		-00.12	+01.96						
0.05		-00.17	+03.27						

Core 3		1.Rated ratio 2500/ 1							
		15VA; PF0.8							
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.00		-00.06	+00.64						

**Serial No. 05 / 5106905**

Fb.No. 201017434/110

Core 1		1.Rated ratio 2500/ 1							
		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.06	-00.15						
1.00		-00.07	+00.15	-00.02	+01.03				
0.20		-00.11	+01.51						
0.05		-00.14	+02.41						

Core 2		1.Rated ratio 2500/ 1							
		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.01	-00.07						
1.00		-00.02	+00.15	+00.02	+01.71				
0.20		-00.09	+02.51						
0.05		-00.11	+03.27						

Core 3		1.Rated ratio 2500/ 1							
		15VA; PF0.8							
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.00		-00.05	+00.00						

## Serial No. 05 / 5106906

Fb.No. 201017434/110

Core 1		1.Rated ratio 2500/ 1							
		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.04	+00.00						
1.00		-00.05	+00.25	-00.07	+03.15				
0.20		-00.07	+01.03						
0.05		-00.10	+01.32						

Core 2		1.Rated ratio 2500/ 1							
		15VA; PF0.8		3.75VA; PF1					
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.20		-00.06	+00.15						
1.00		-00.06	+00.34	-00.01	+01.03				
0.20		-00.08	+01.32						
0.05		-00.11	+01.71						

Core 3		1.Rated ratio 2500/ 1							
		15VA; PF0.8							
I / I <sub>N</sub>		F [%]	D [min]	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
1.00		-00.04	+00.00						