

Customer : AREVA Sachsenwerk GmbH
Order No. : 4500191205 v. 28.04.05 Pos. 140

Berlin, 23.06.05

Test Certificate

9 Voltage transformers, Type EYE10b
FB-No. 201017434/140
Serial No. 05/5106701 to 05/5106709

Primary winding

Class of insulation T52/E
Insulation level [kV] 12/28/75
Rated primary voltage [V] $6300 \cdot \sqrt{3}$
Rated voltage factor $1.9 \times U_N$ (8h)
Rated frequency [Hz] 50

Secondary winding

	1	Auxiliary
Rated secondary voltage [V]	$100 \cdot \sqrt{3}$	100:3
Rated output [VA]	30	100
Accuracy class	0.2	3P
Secondary thermal limiting current [A]	8	-
Rated long time current of residual voltage winding [A]	-	6

According to the rules for instrument transformers: IEC 60044-2

The voltage transformers withstood the high-voltage test :

- Power frequency voltage withstand test on primary winding
3kV, 50Hz, 1 min.
- Power frequency voltage withstand test on secondary windings and between sections
3kV, 50Hz, 1 min.
- Induced voltage withstand test (inter-turn test by exciting the secondary winding)
250Hz, 24 sec. (acc. IEC 60044-2 clause 9.2.1)
- Partial discharge measurement (combined with induced voltage withstand test according to 'procedure A', IEC 60044-2 clause 9.2.4.2)
30 sec. background noise < 2pC

Terminal markings were found to be correct.

The voltage transformers comply with the limits of error for the respective accuracy class.

For results of accuracy test please see page 2 - 10.

Date of test: 14.06.2005

Instrument transformer test room

by order Krause

Serial No. 05 / 5106701

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.12	+00.07	-00.14	+01.65		
1.0	+00.12	+00.70	-00.15	+02.39	+00.07	+02.28
1.2	+00.10	+01.72	-00.18	+03.56		

Serial No. 05 / 5106702

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.13	-00.02	-00.12	+01.04		
1.0	+00.12	+00.42	-00.13	+01.64	+00.07	+02.02
1.2	+00.11	+01.29	-00.14	+02.51		

Serial No. 05 / 5106703

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.13	-00.22	-00.12	+00.71		
1.0	+00.12	+00.38	-00.12	+01.37	+00.07	+02.12
1.2	+00.10	+01.37	-00.14	+02.30		

Serial No. 05 / 5106704

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.12	+00.16	-00.14	+01.80		
1.0	+00.12	+00.79	-00.14	+02.38	+00.07	+02.13
1.2	+00.11	+01.60	-00.16	+03.15		

Serial No. 05 / 5106705

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.14	-00.14	-00.10	+00.56		
1.0	+00.13	+00.42	-00.10	+01.17	+00.08	+01.94
1.2	+00.12	+01.19	-00.12	+02.01		

Serial No. 05 / 5106706

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U_N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.13	-00.04	-00.11	+00.90		
1.0	+00.12	+00.57	-00.12	+01.54	+00.07	+02.09
1.2	+00.11	+01.32	-00.14	+02.52		

Serial No. 05 / 5106707

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.13	-00.17	-00.10	+00.69		
1.0	+00.13	+00.47	-00.11	+01.28	+00.07	+02.04
1.2	+00.11	+01.33	-00.13	+02.35		

Serial No. 05 / 5106708

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.13	+00.04	-00.13	+01.09		
1.0	+00.12	+00.62	-00.13	+01.64	+00.07	+02.29
1.2	+00.11	+01.57	-00.14	+02.52		

Serial No. 05 / 5106709

Fb.No.201017434/140

Sec. winding	1				Auxiliary	
Rated ratio	6300:√3/100:√3V				6300:√3/100:3V	
	7.5VA ; PF 0.8		30VA ; PF 0.8		0 VA ; PF 1	
U / U _N	F [%]	D [min]	F [%]	D [min]	F [%]	D [min]
0.8	+00.12	-00.06	-00.12	+00.80		
1.0	+00.12	+00.49	-00.13	+01.42	+00.06	+02.55
1.2	+00.10	+01.37	-00.15	+02.40		