

APPROUVÉ

18 OCT. 1994

AQ

GEC ALSTHOM

T&D

OFFICIEL

Essai d'échauffement - Temperature rise test - Erwärmungsprüfung

Type : CTH 550

N° : 94/56488/04

Client - Customer - Kunde : CXA / PAKISTAN / LAHORE

The tests were witnessed by
Mr GHULAM NABI of NESPAK

E. DEBOUGNOUX

Norme - Standard - Vorschriften : IEC 185

12/10/94

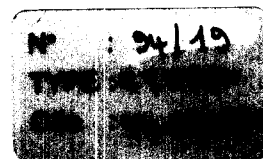
Enroulements Windings Wicklungen	1S ₁ -1S ₅	2S ₁ -2S ₅	3S ₁ -3S ₅	4S ₁ -4S ₅	5S ₁ -5S ₅	
Section Section (mm ²) Querschnitt	2,54	2,54	2,54	2,54	2,54	
Résistance Resistance (Ω) Widerstand	5,583	5,580	3,617	4,507	4,501	

Essai - Test - Prüfung : $I_p = 3150 \text{ A} / 50 \text{ Hz} / Z_n$

$$\Delta t (^{\circ}\text{K}) = \frac{R_2}{R_1} (234.5 + T_1) - 234.5 - T_1.$$

où R₂ = Résistance à chaud - Hot resistance - Widerstand bei Erwärmung.where R₁ = Résistance au début de l'essai - Initial resistance - Anfangswiderstand.wo T₁ = Température de l'appareil au début de l'essai - Initial temperature -
Anfangstemperatur des Wandlers.

Résultats/- Result- Resultat : Temperature rise on secondary $\leq 40,2^{\circ}\text{C}$
 Temperature of the primary connections (P₁-P₂) $\leq 41^{\circ}\text{C}$



Essai	:	
Test	:	
Prüfung	:	

$I_p = 3150 \text{ A} / 50 \text{ Hz} / Z_n$

N° : 94/56488/04
Nr :
Nr :

Essai d'échauffement sur	:	
Temperature rise test on	:	CTH 550
Erwärmungsprüfung an	:	

[illegible]

Temperature rise test on CTH550 n° 94/56488/04 15.-15s
Essai d'échauffement sur

$\Delta T(^{\circ}C)$

Time in Hours
Durée en Heures

BALTEAU		CURRENT TRANSFORMER				CTH550					
BELGIUM		550/680-3/1550/1175 kV				1994/56488					
STAND. IEC 185 - 1987		TERMIN.		RATIOS		VA		CLASS		Fs <	
SCHEMAT. DIAGRAMS		1S1-1S2		800/1		30		5P20			
+0 0 0 0 0		1S2-1S4		1200/1		30		5P20			
1S1-1S2-1S3-1S4-1S5		1S1-1S3		1500/1		30		5P20			
		1S1-1S4		2000/1		30		5P20			
		1S1-1S5		3000/1		30		5P20			
2S1-2S2-2S3-2S4-2S5		2S1-2S5		3000/1		SAME		AS CORE Nr 1			
+0 0 0 0 0		3S1-3S2		800/1		30		0.5		5	
3S1-3S2-3S3-3S4-3S5		3S2-3S4		1200/1		30		0.5		5	
		3S1-3S3		1500/1		30		0.5		10	
		3S1-3S4		2000/1		30		0.5		10	
		3S1-3S5		3000/1		30		0.5		15	
+0 0 0 0 0		4S1-4S5		3000/1		VKP ≥ 2000 V		- Rct75 ≤ 6Ω			
4S1-4S2-4S3-4S4-4S5		5S1-5S5		3000/1		VKP ≥ 2000 V		- Rct75 ≤ 6Ω			
5S1-5S2-5S3-5S4-5S5		UNUSED SECONDARIES MUST BE SHORT-CIRCUITED AND GROUNDED									
F = 50 Hz		OIL TYPE A = 520 Kg				TOTAL WEIGHT = 1930 Kg					
(56488:BB)		SERIAL Nr =				POSITION 1					
HERMETICALLY SEALED - OPENING FORBIDDEN -											

RATING PLATE MADE IN ANODISED ALUMINIUM - ALPHOT PROCESS
FASTENED WITH 4 HOLES AT 8 mm FROM EACH SIDE
DIMENSIONS = 148 mm X 74 mm X 0.8 mm
SCALE = 1/1
LIGHT BACKGROUND - BLACK WRITING

RATING PLATE					
DATE	REV	ORDER	QTY	TYPE	DRAWING
21-03-94 (Dec. '93)	1	56488	11	CTH550	7 - 56488:BB

B A L T E A U		CURRENT TRANSFORMER		CTH550	
B E L G I U M		550/680-3/1550/1175 kV		1994/56488	
STAND. IEC 185 - 1987					
+0	0	PRIM.	I.th = 70 kA-1 s.	I.dyn = 175 kA	
P1	P2	P1- P2	I.n = 3000 A	EXT = 105 %	
POSITION OF CORES					
UNUSED SECONDARIES MUST BE SHORT-CIRCUITED AND GROUNDED					
F = 50 Hz		OIL TYPE A = 520 Kg			
(56488:AA)		SERIAL Nr =		TOTAL WEIGHT= 1930 Kg	
HERMETICALLY SEALED		- OPENING FORBIDDEN		- POSITION 1	

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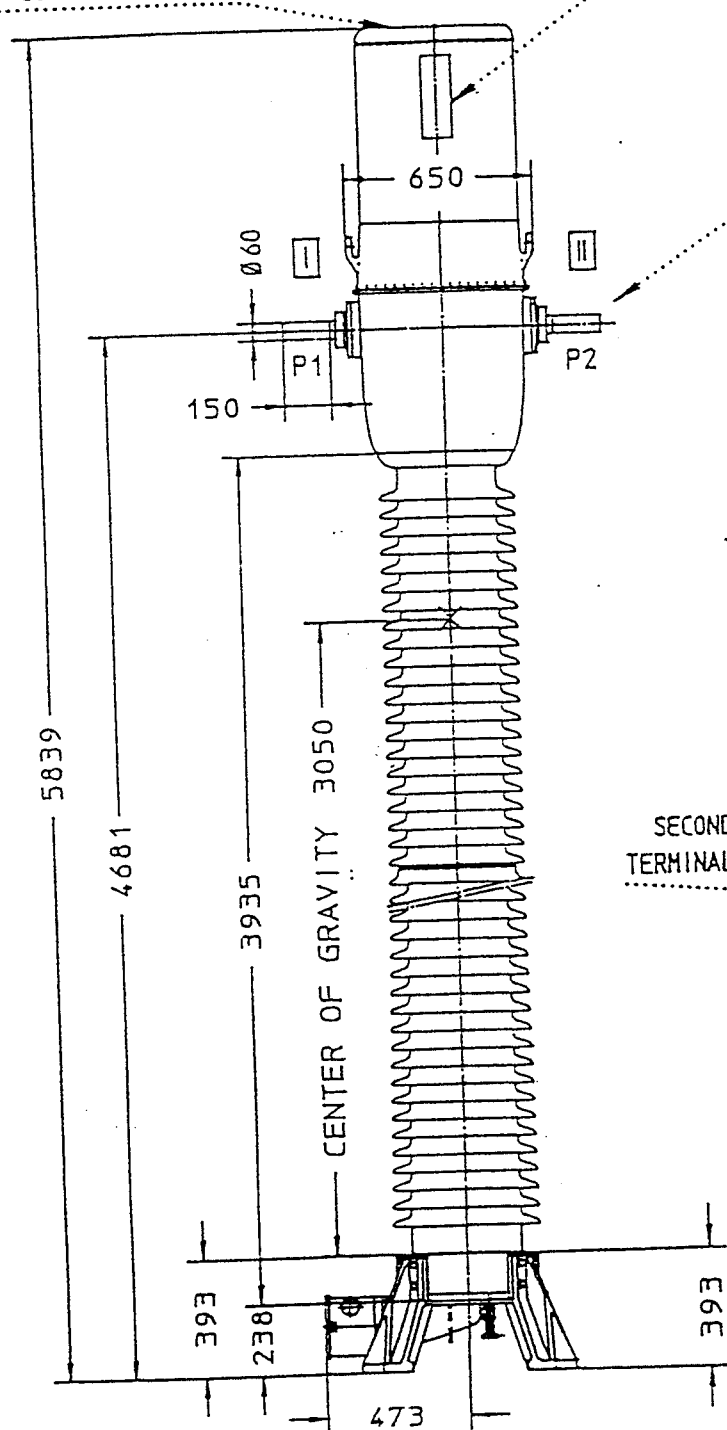
RATING PLATE					
DATE	REV	ORDER	QTY	TYPE	DRAWING
21-03-94 (Dec. '93)	1	56488	11	CTH550	7 - 56488:AA

I	P1	H1	K	
II	P2	H2	L	

STRIKE DISTANCE : > 3728 MM ±1%
 CREEPAGE DISTANCE : > 15574 MM ±4%
 TOTAL WEIGHT : 1930 Kg
 OIL : 520 KG.

TOP COVER ALUMINIUM

LEVEL INDICATOR

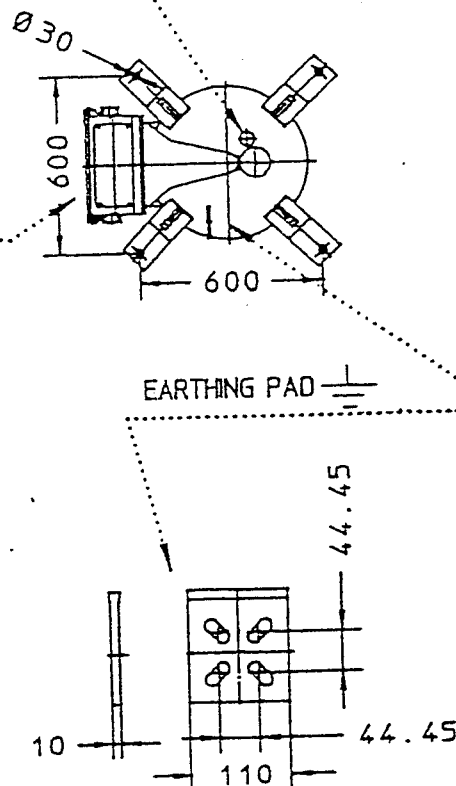


VIEW BELOW BASE

OIL SAMPLING VALVE

SECONDARY
TERMINAL BOX

EARTHING PAD



TU 393 470 GS

CURRENT TRANSFORMER CTH 550/2
GENERAL DIMENSIONS

GEC ALSTHOM

TD

Beyne-Heusay
BELGIQUE

ECHELLE
1/25

DESSINE
CP

VU

REPLACE PAR

DATE H5166C
25.1.94

PLAN
N°

5351264

REP.CTH/ENCOMB.
NOM.