GEC ALSTHOM

T&D

BALTEAU

CAPACITOR VOLTAGE TRANSFORMER

CCV 123 – 15 – B – 105

FERRO–RESONANCE TEST REPORT

N° : 22988

GEC ALSTHOM T&D Balteau
Siège social : 51, avenue Jean-Jaurès / BP 380 / 92541 Montrouge Cedex / France

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S.A. au capital de 14 000 000 F / R.C.S. Nanterre B 343 074 092 / TVA CEE FR 05343074092

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PROTOCOLO DE PRUEBAS No:

CAPACITOR VOLTAGE TRANSFORMER

Type:	CCV 123
Model:	15–B–105
Serial numero:	97–XD 6027–01–106
Voltage:	123 / 230 / 550 kV
Rated frequency:	50 Hz
Ratio, burden and accuracy:	
115000 /√3 //115 /√3	200 VA cl 0.5
115000 /√3 //115	200 VA cl 0.5
115000 /√3 //115 /√3	200 VA 3P
115000 /√3 //115	200 VA 3P
Standard:	IEC 186–358
Voltage factor:	1.5 Un – 30 s
Thermal burden:	700 VA
Rated capacitance:	12 000 pF(–5 %, +10%)
General drawing n°:	8 162 832

Références References	Liste des essais Table of contents	Page
CEI–IEC 186/358	Essai de ferro–résonance. Ferro–resonance test.	2 to 8

Montrouge on 15th of january 1998

Test responsible

R.Torres

Quality manager

V. Denizeaux

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FERRO–RESONANCE TEST

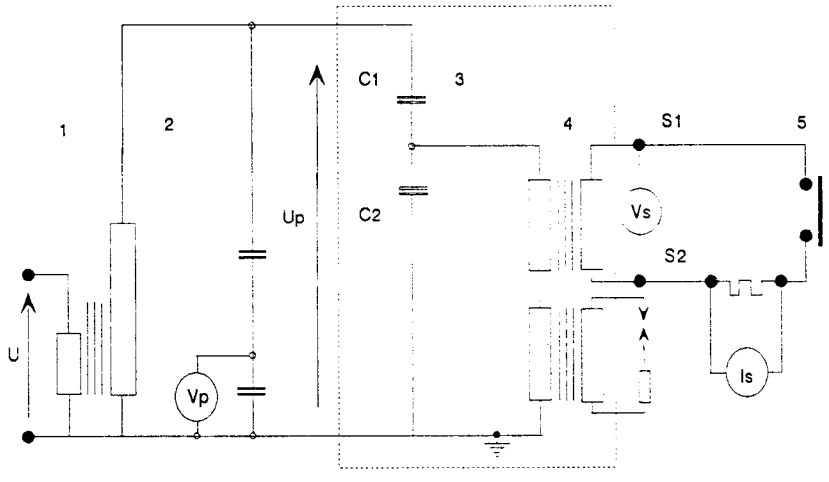
Ferro–resonance tests are to be performed on a complete capacitive voltage transformer.
The secondary terminals are short–circuited at least during 100 ms. A contactor ensures the short–circuiting of the secondary terminal. A shunt in serie with the secondary terminal is located to permit recording of secondary current.
The total impedance of the shunt and the short– circuit system is such the short–circuit voltage is lower than 10 % of the peak value before short–cicuit.
The recording device of the secondary voltage is a very high impedance and the burden is lower than 5 VA.
Applied voltage is recorded through a high voltage capacitive dividor.
During short–circuit the applied voltage does not differ by more than 10 % of the peak value before short–circuit and remains substantely sinusoidal.
This test has been made thirty times at 120 % of rated primary voltage.

1.2 Un = 15000V

CONCLUSION

Tests are satisfactory.

DIAGRAM:



1–Elévateur de tension	Step–up transformer	Elevador de tension
2–Diviseur capacitif	Capacitor dividor	Divisor capacitivo
3–Transformateur en essai	CCV under test	Transformador en pruebas
4–Transformateur	Transformer	Transformador
5–Court–circuiteur synchrone	Synchronus closer	Corto–circuitor sincrono
Vp–Tension appliquèe	Applied voltage	Tension aplicada
Vs–Tension secondaire	Secondary voltage	Tension secundaria
Is–Courant secondaire	Secondary current	Intensidad secundaria

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FERRO-RESONANCE TEST

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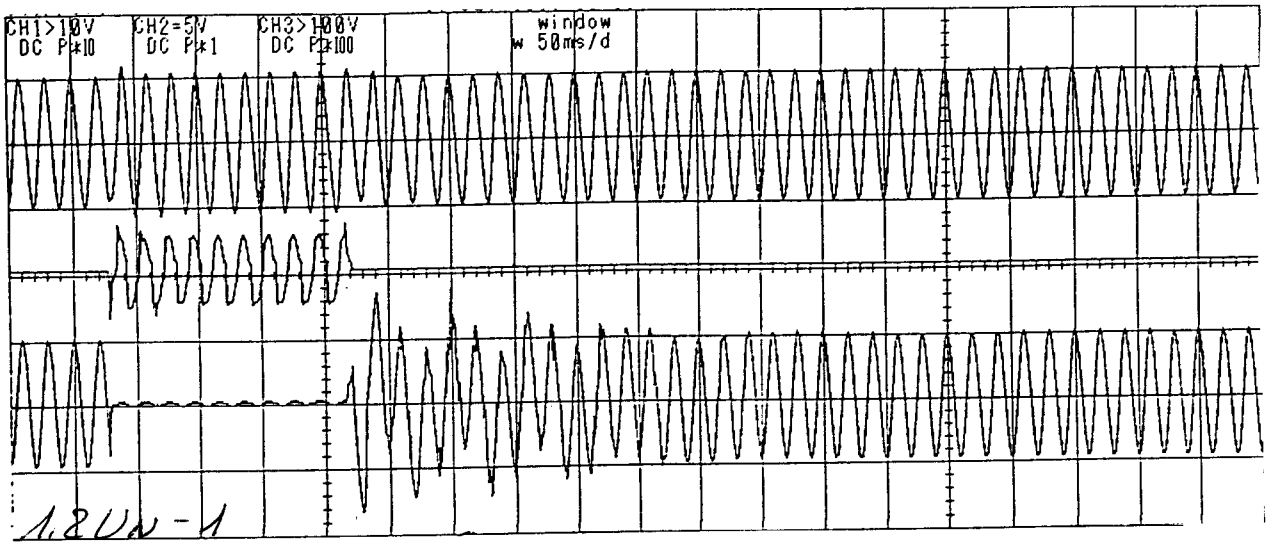

Up:

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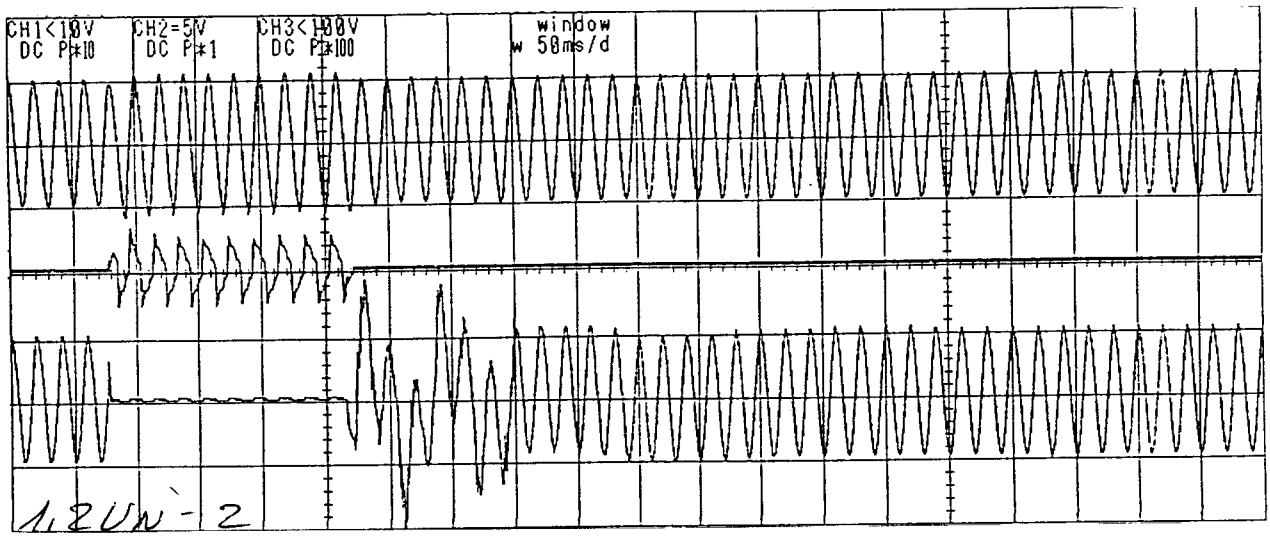
Us:



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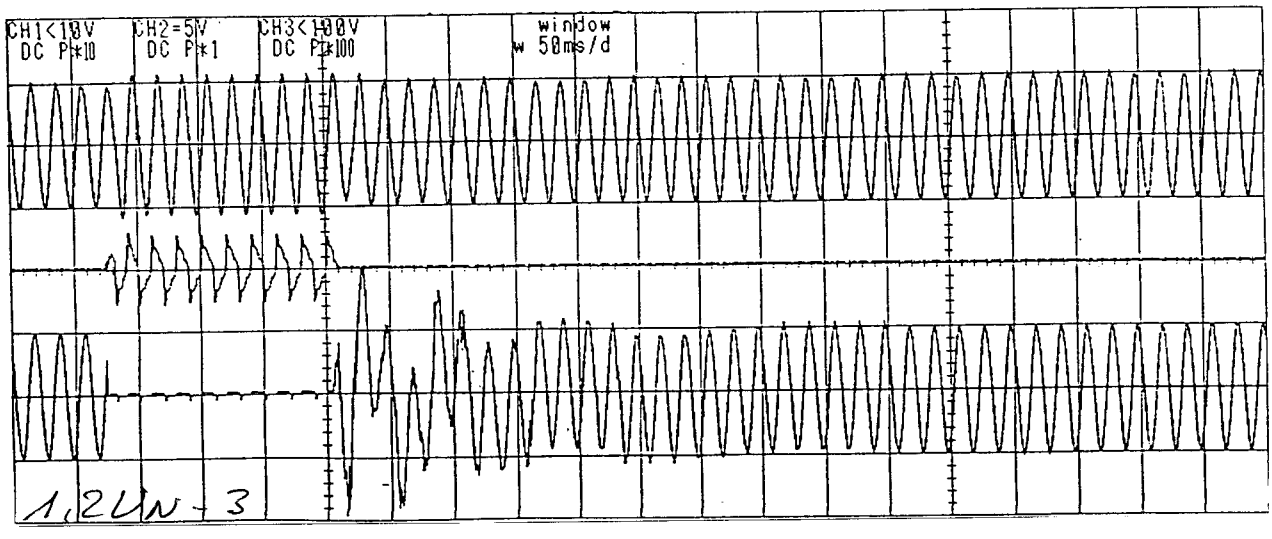

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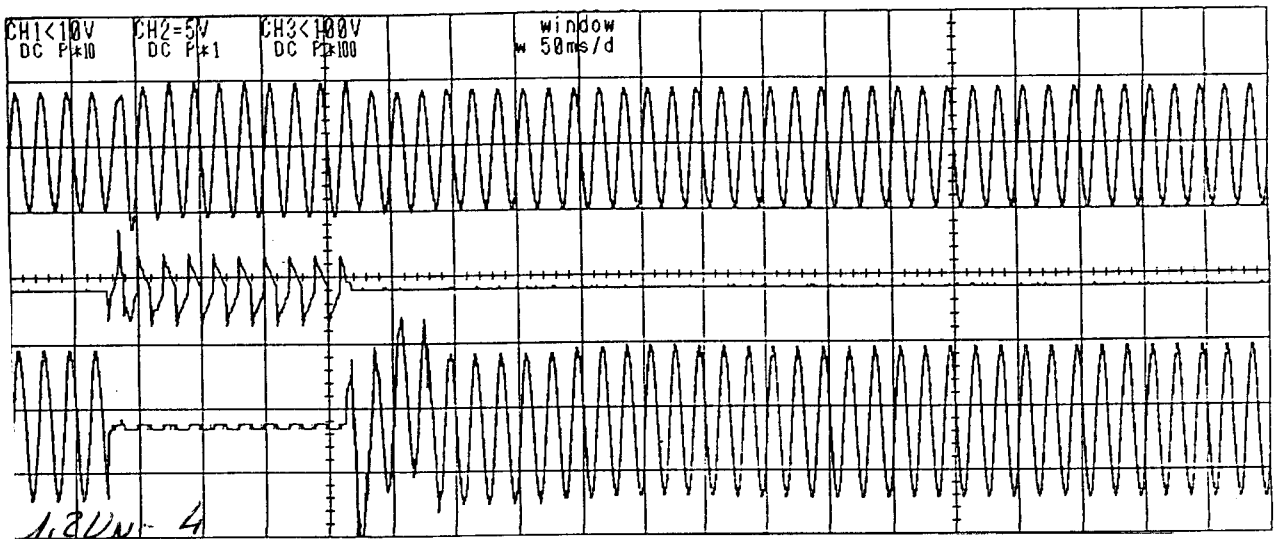

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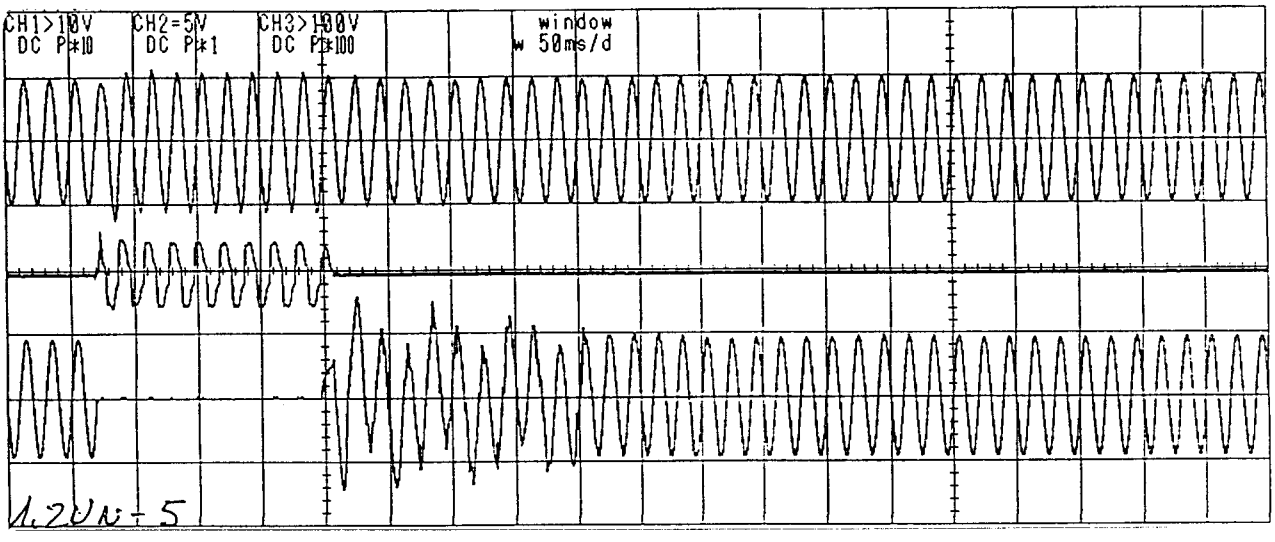

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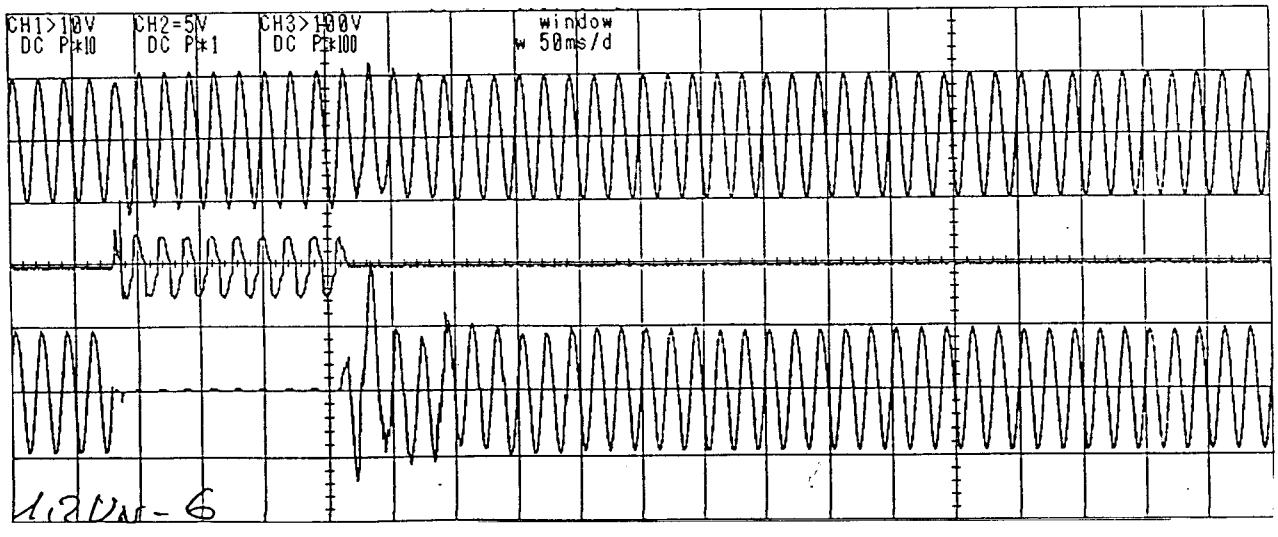

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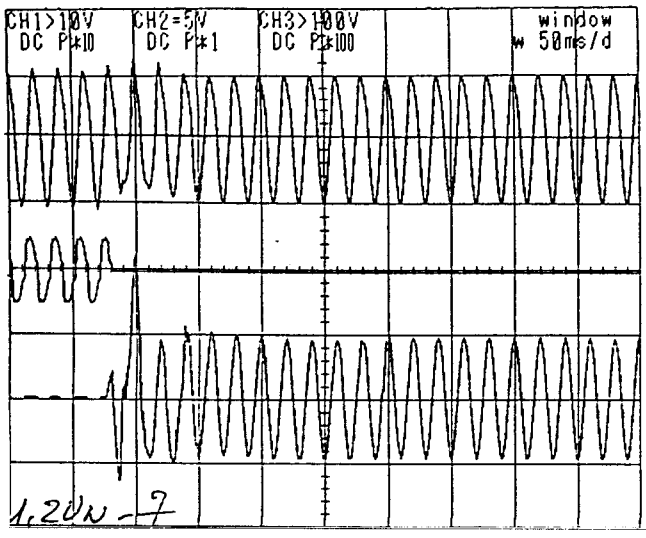

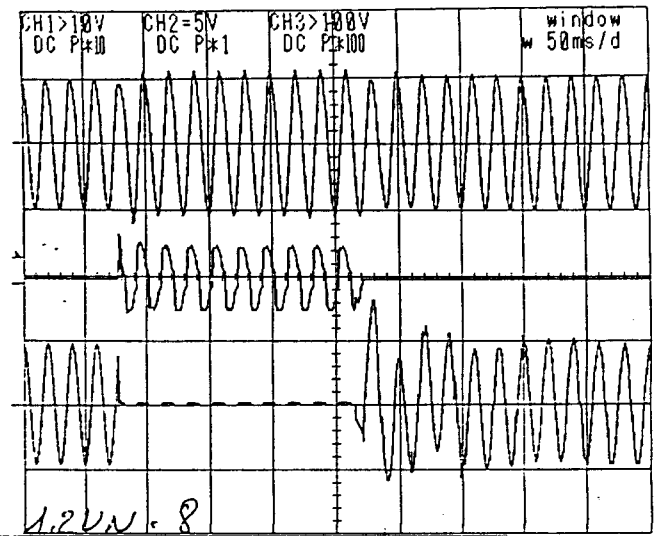

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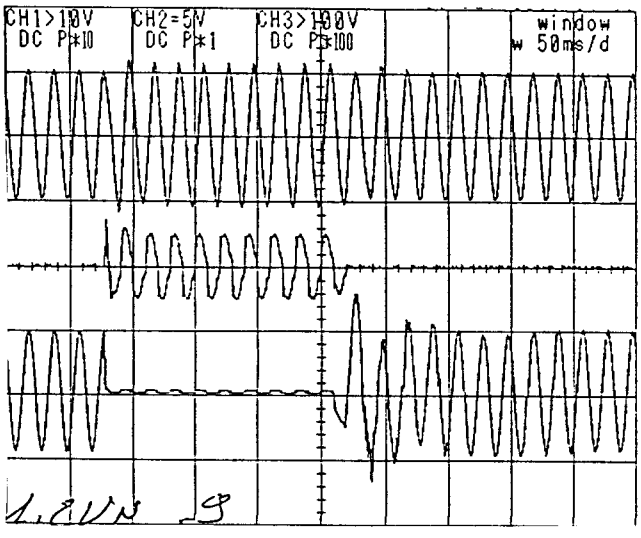

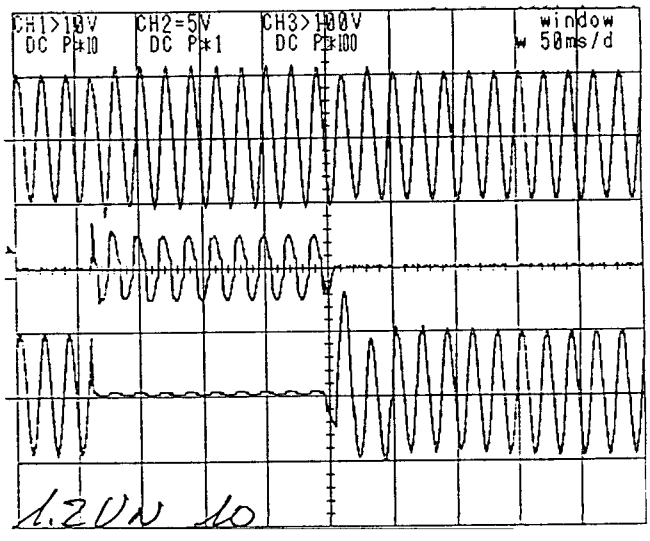

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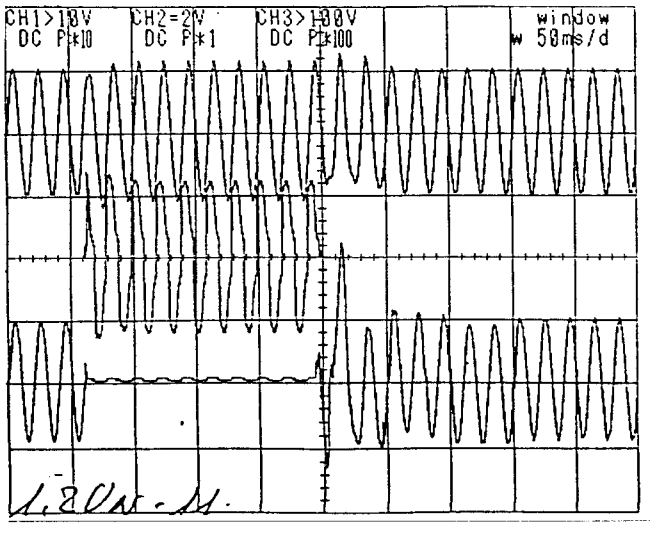

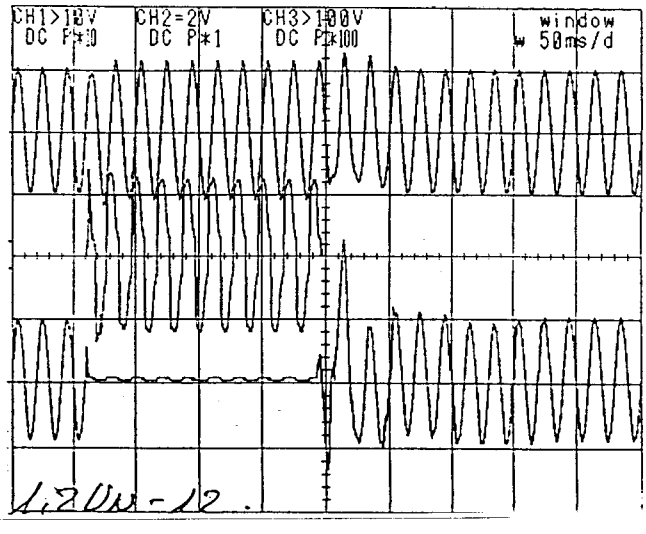

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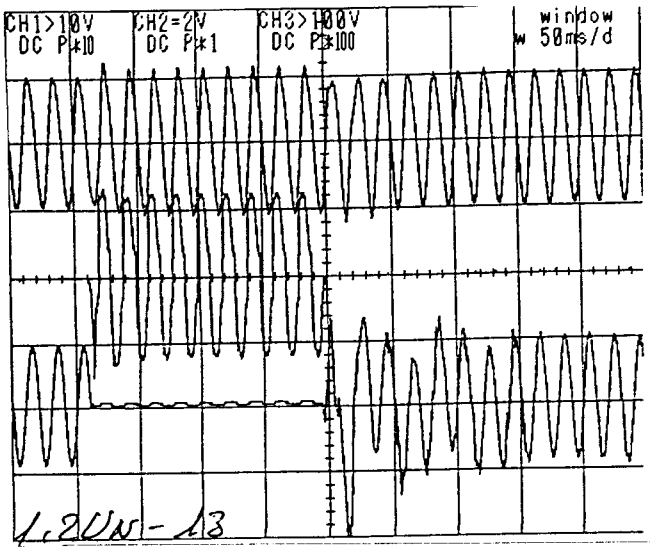

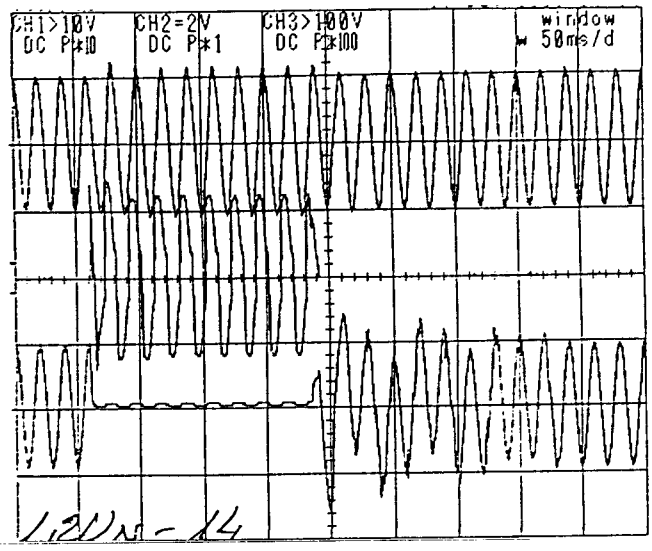

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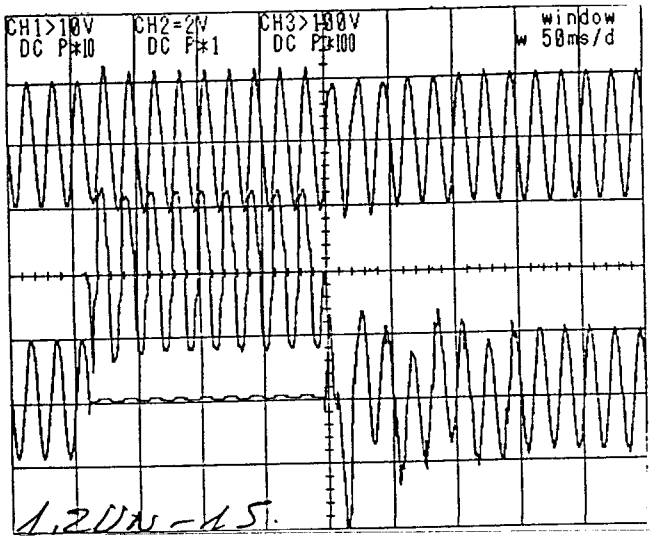

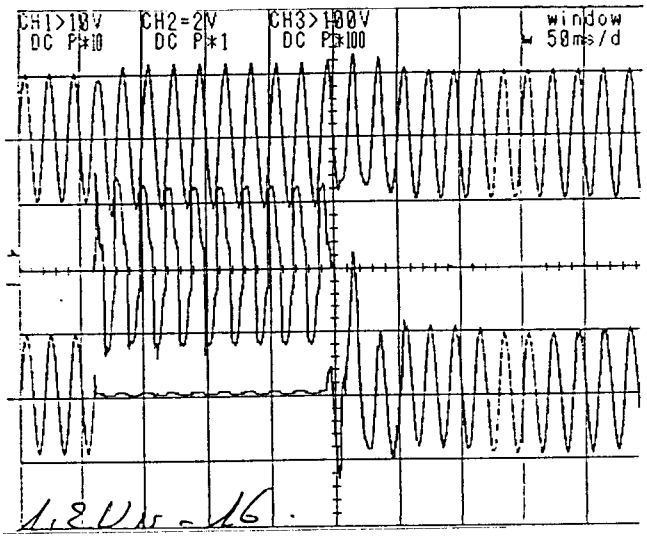

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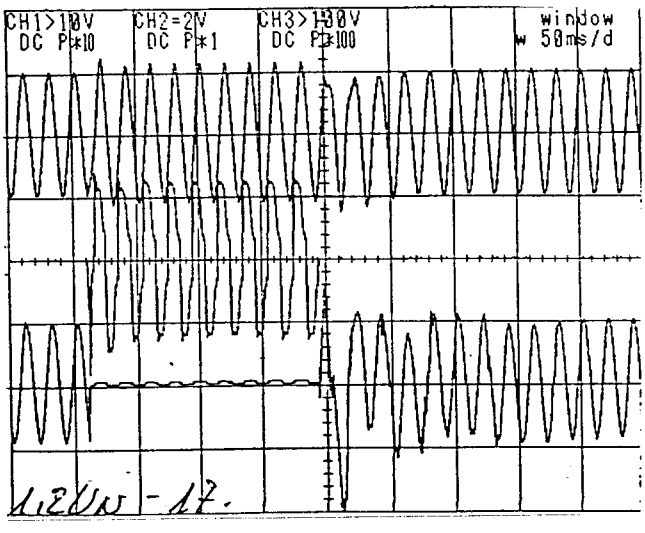

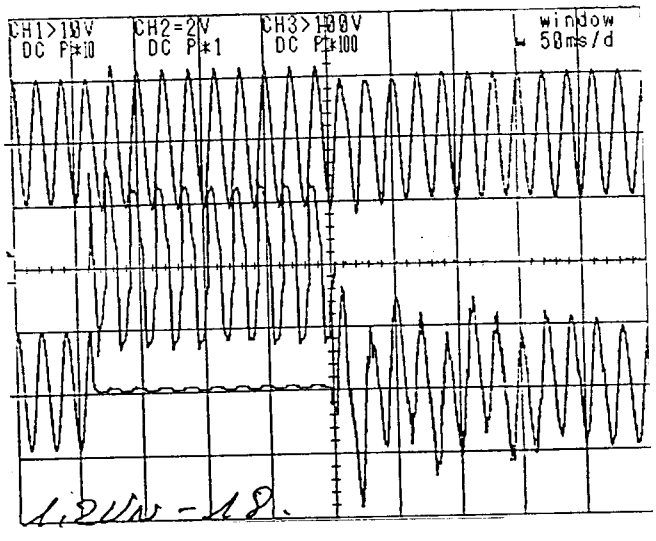

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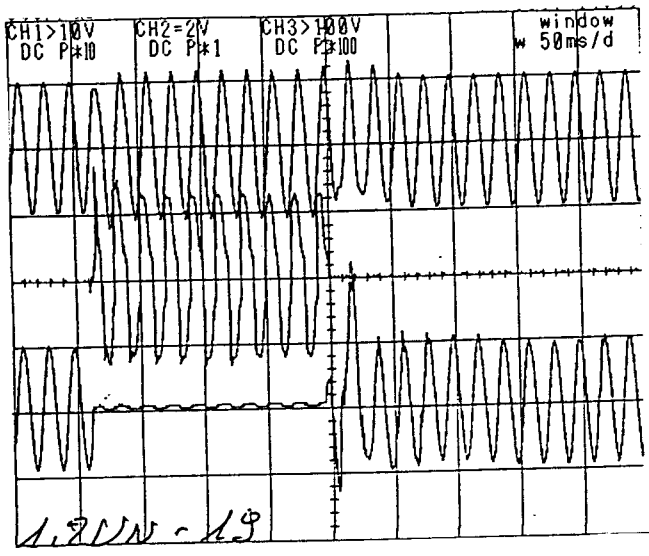

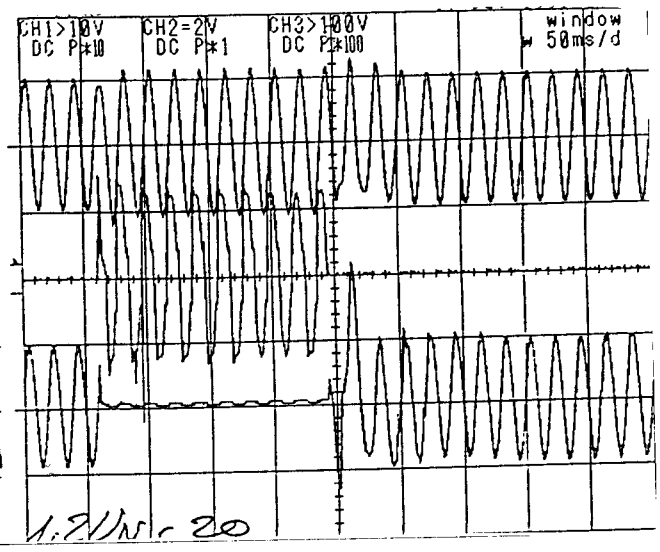

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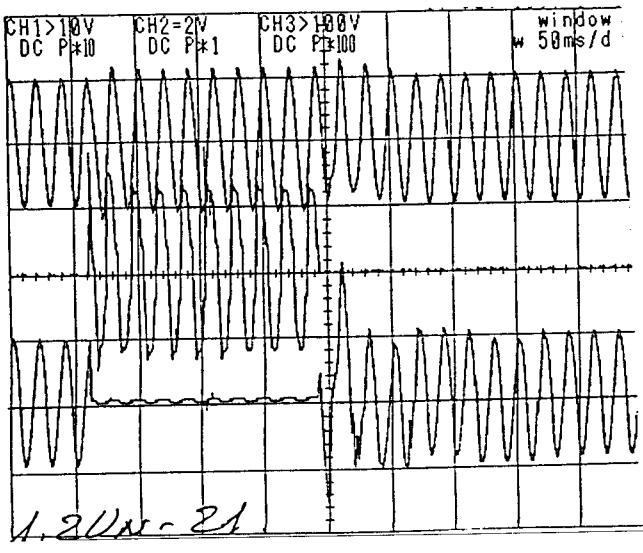

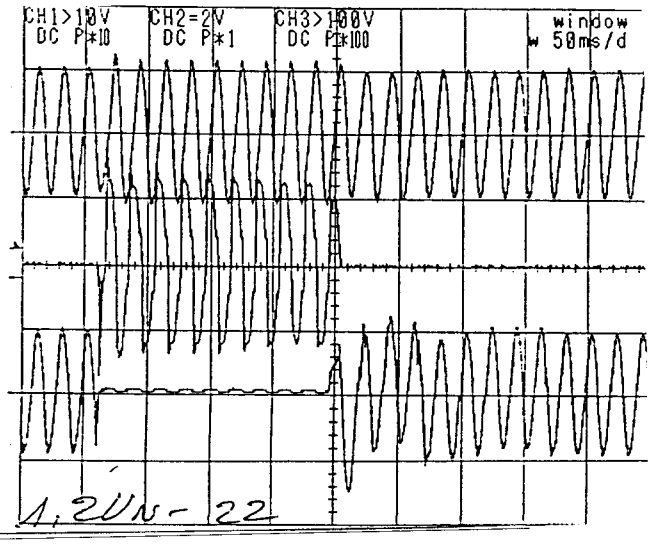

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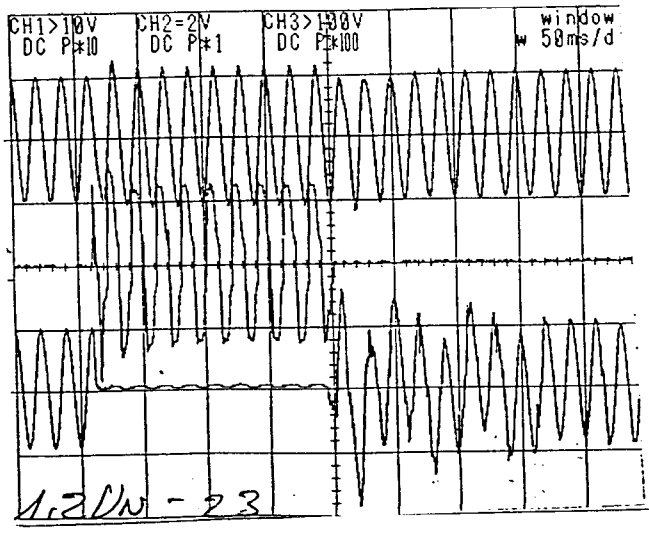

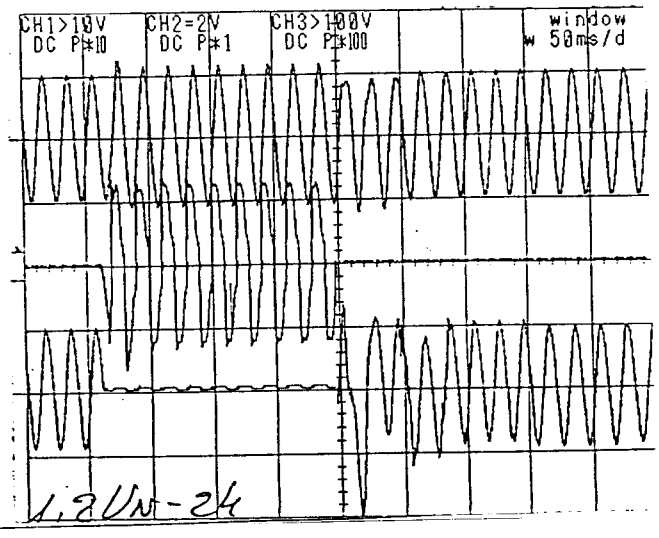

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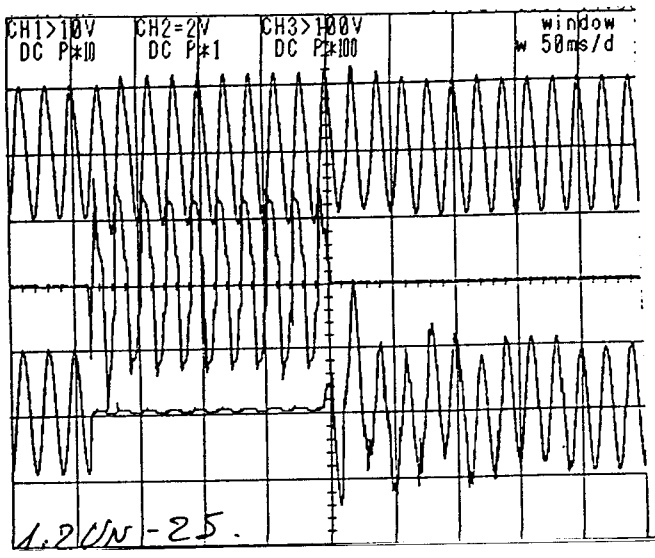

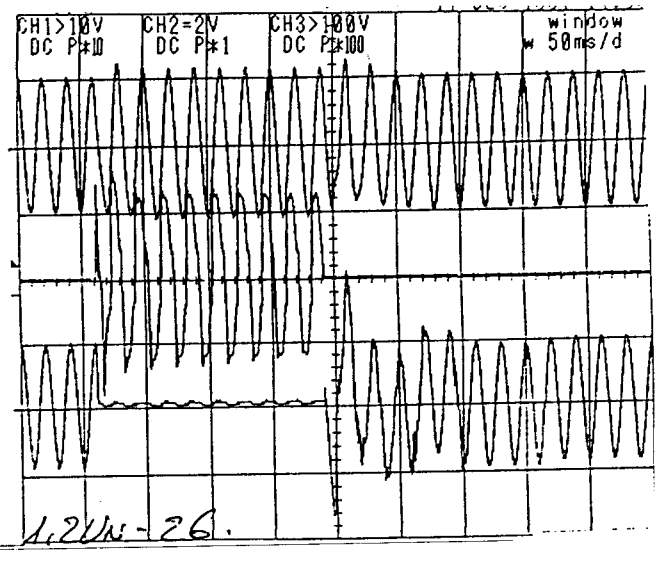

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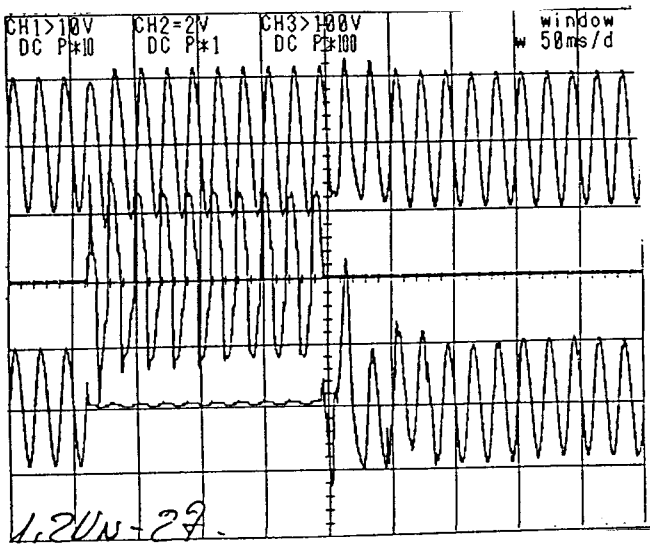

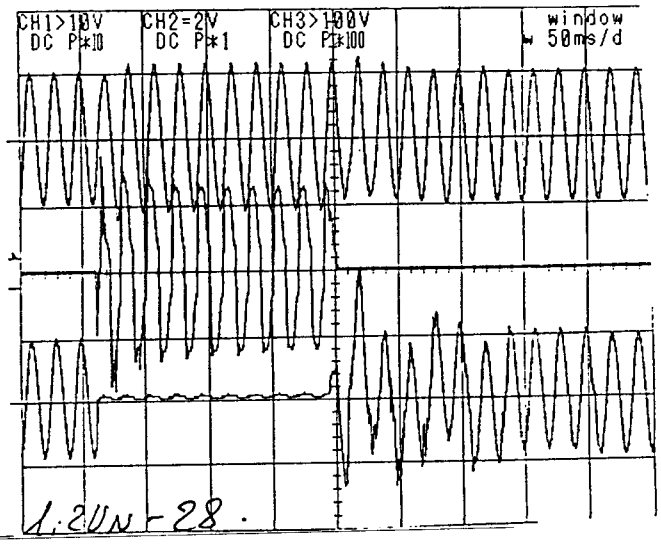

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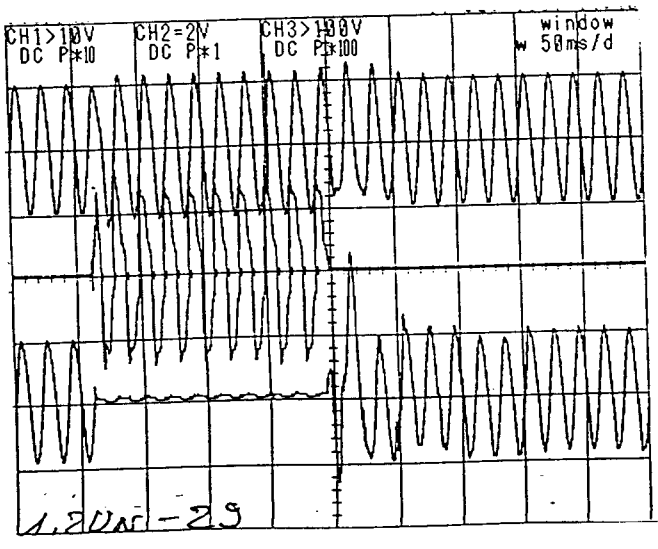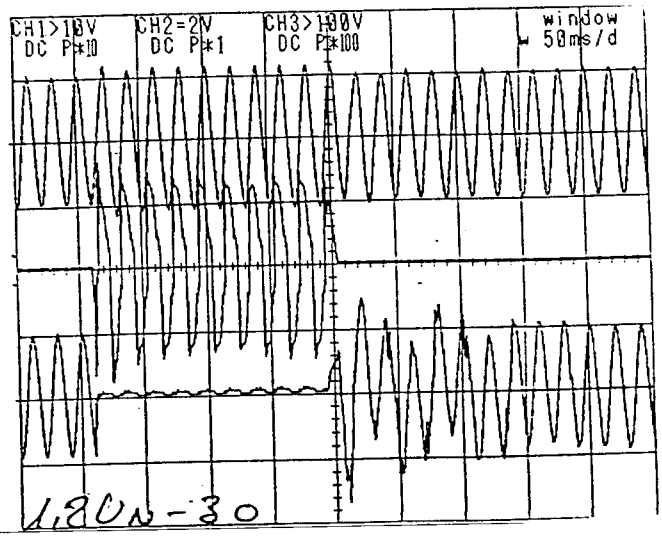
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