

HIGHT VOLTAGE LABORATORY

REPORT N° IS-1476

Mr E. Perissinotto

TEST REPORT

Test verified by:

Client:	ALSTOM T&D		
Equipment under test:	S2DAT-252/2500		
Test performed:	IMPULSE VOLTAGE TEST		
Normative documents:	IEC 62271-102 IEC 694		
Test date:	30/ 04 / 2002		
Test performed at:	ALSTOM T&D S.p.A. NOVENTA DI PIAVE ITALY		
Ambient air temperature:	15°C		
Issue date:	09 / 05 / 2002		
Test performed by:	Mr M. da Villa		

F/ICOLLAUDO/PROVE DI TIPO/IS/1476 Pag: 1/3



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Equipment and rated characteristics: Disconnector type: S2DAT

Serial number: if any -

Rated Current 2500A
Rated Voltage 252kV
Rated Frequency 50Hz

Short circuit rated current 50kA

Short-circuit duration 3s

Lightning impulse kV

Assembly drawing number DIN - 12430

TEST PROCEDURE:

Disconnector closed, energized live part, earth on frame

n°15 positive and 15 negative impulses at 1050 kV as indicated in test condition n° 1

Disconnector open, energized male arm, female arm and frame earthed

n°15 positive and 15 negative impulses at 1050 kV as indicated in test condition n° 2

Disconnector open, energized female arm, male arm and frame earthed

n°15 positive and 15 negative impulses at 1050 kV as indicated in test condition n° 3

Disconnector open, energized male arm, female arm earthed, frame insulated

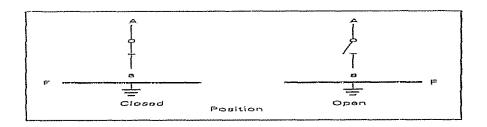
n°15 positive and 15 negative impulses at 1200 kV as indicated in test condition n° 4

Disconnector open, energized female arm, male arm earthed, frame insulated

n°15 positive and 15 negative impulses at 1200 kV as indicated in test condition n° 5

TEST DISPOSITION

Test Condition	Disconnector	Voltage applied to	Earth connected to
1	Closed	Aa	F
2	Open	A	aF
3	Open	а	AF
4	Open	a	Α
5	Open	A	а





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TEST CIRCUIT:

G) impulse generator ALSTOM

C tot) 10,4 nFRfi) 370Ω Rfe) 300Ω Rc) 8400Ω

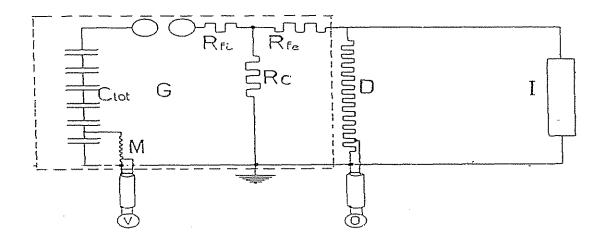
M) ohmic voltage divider 200 M Ω

V) Voltmeter

D) ohmic – capacitive voltage divider 24 k Ω - 0,75 nF

O) oscilloscope Tektronix type TDS 520 C, serial number: 5.1.707/A

I) subject under test



Scope of test:

withstand voltage test with fifteen positive and negative impulses of 950/1050 kV peak value

Ambient conditions:

temperature 15 °C
 atmospheric pressure 756 mHg
 absolute humidity 11,5 g/m³
 adjustment factor K 1,011

Characteristics of the test wave:

- duration of wave front : 1,5 $\,\mu s$ - duration of wave tail: 51 $\,\mu s$

TEST RESULTS

During the tests neither discharge nor other appreciable phenomena occurred

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