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ORIGINAL  
DOCUMENT

Ø0.18  
(Ø4.5)

ER EQUIP. ELÉT. DE ALTA TENSÃO LTDA  
SUCESSOR OF HAEFELY-ER  
AV. LARANJEIRAS, 175  
BETIM - MG  
IND. BRAS. CEC 1923957/0001 - 25

## REACTOR

Type	SHC-69330/464	Cooling	A.N.
Serial No.	*	Instr. book no.	13701
Year	1999	Rat. power (kVA) Per phase	3450
$I_N$ (A)	398	Nº of phases	1
$L_N$ (mH)	69.33	BIL (kV)	95
$Z$ (Ω)	21.78	$I_{KN}$ -- kA -- s	
$f_N$ (Hz)	50	Voltage drop	8668 v
$U_N$ (kV)	15	Weight (kg)	2437
W.O.	2/203/3	Therm. class of insulation	B

4.72 (120)

4.33 (110)

10 MVAR  
50 Hz

1.57 (40)

3.14 (80)

Material: Stainless steel (Material: Acero inoxidable)

Thickness: 0.02 (Espesura: 0.5 mm)

Rectangular fields and letters with polished surface (Campos rectangulares y letras con superficie pulida)

Background etched and blackened (Fondo en color negro)

Numbers engraved in fields (Numeros grabados en los campos en bajo relieve)

Dimensions are in inches (Millimeters) (Dimensiones en pulgadas (Milímetros))

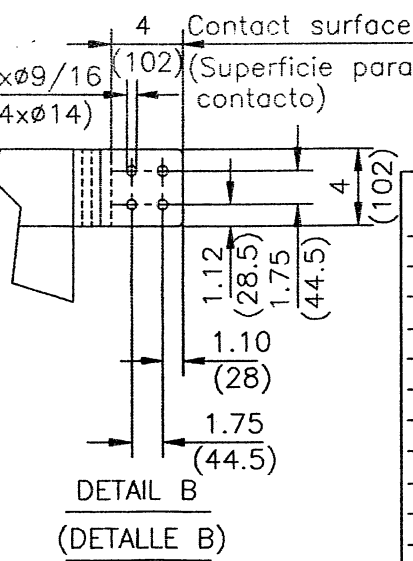
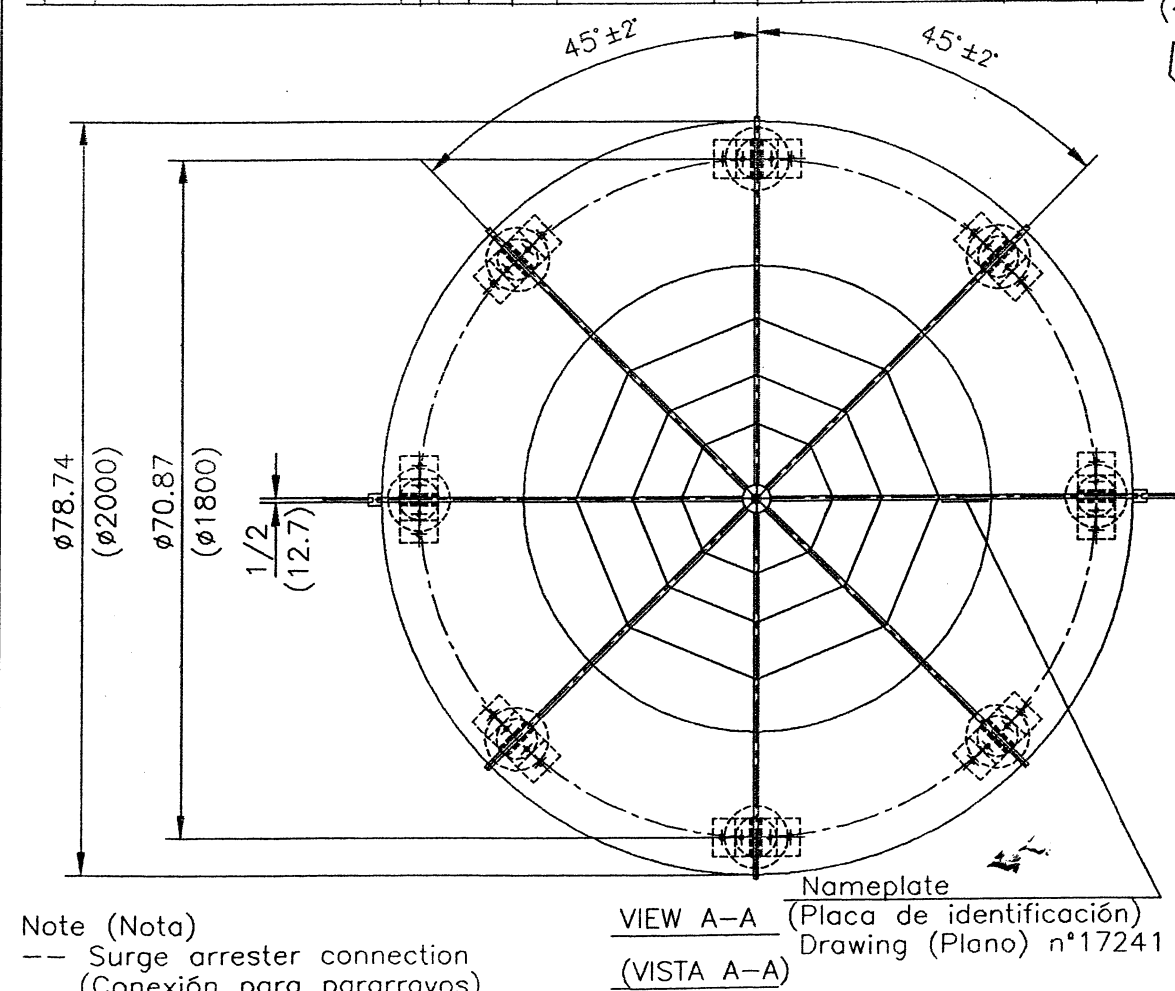
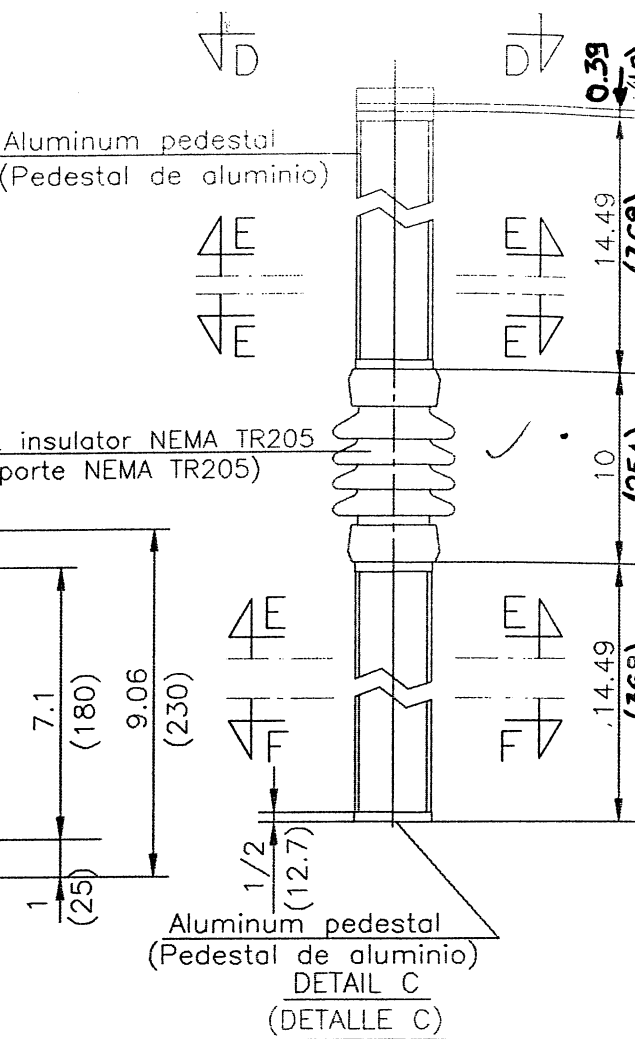
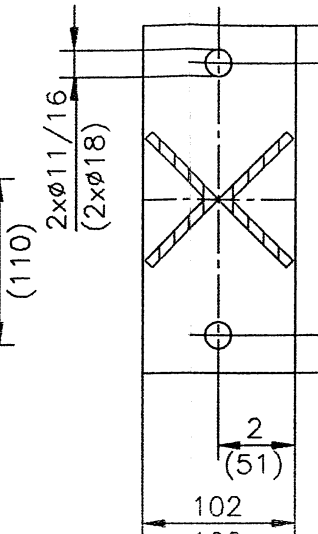
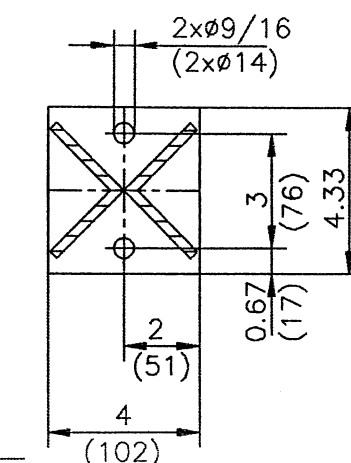
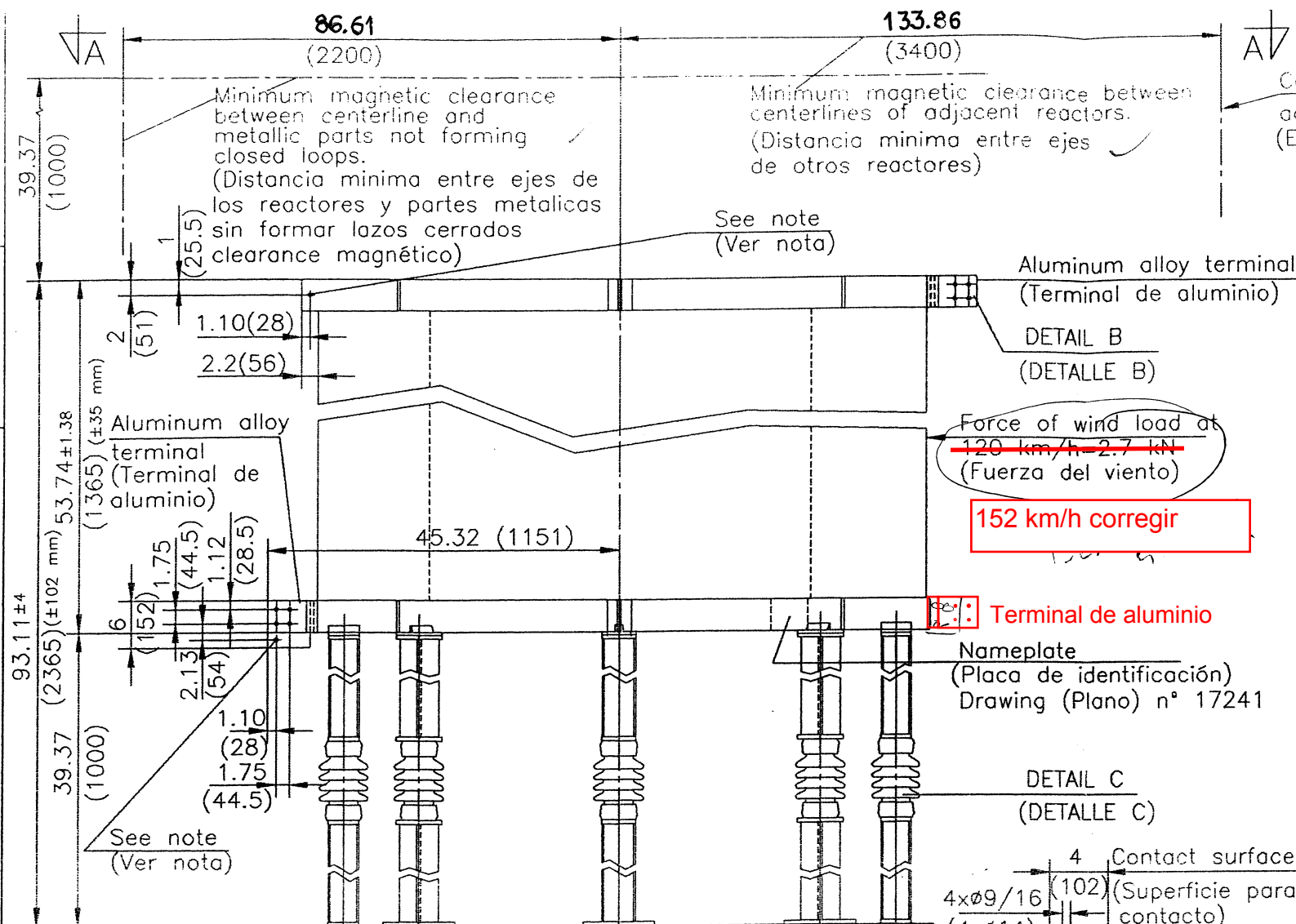
\* 992435-992441

REV.	DATE	DESCRIPTION			DRAWN	VER	APPR.
(REV.)	(FECHA)	(DESCRIPCIÓN)			(DIB.)	(VER)	(APR.)
TITLE: (TÍTULO)		DATE (FECHA)	28-05-99	ER EQUIP. ELÉT. DE ALTA TENSÃO LTDA			
NAMEPLATE (PLACA DE IDENTIFICACIÓN)		DRAFTSMAN (DIBUJO)	Francisco				
		VERIF. (VERIF)	Rodrigo	ALSTOM			
		APPR. (APROB.)	R. Botinha	N°			
CLIENT (CLIENTE)		SCALE (ESCALA)		DRAWING (PLANO)		REVISION	
ALSTOM PES/UTE		1:1		N° 17241		0	
P.O. (O.C.)		REC 09356					

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REACTOR	TYPE (TIPO)	SHC	69330/464
-- Rated inductance	(Inductancia nominal)	69.33	mH (±2%)
-- Rated current	(Corriente nominal)	398	A
-- Maximum continuous current	(Corriente máxima continua)	464	A
-- Rated frequency	(Frecuencia nominal)	50	Hz
-- Quality factor at 75°C/frequency	(Factor de calidad a 75°C/frecuencia)	>=122/50	Hz
-- Total losses at 75°C with 398 A	(Pérdidas a 75°C por fase con 398 A)	24.0	kW
-- Rated voltage	(Tensión nominal)	15	kV
-- Maximum continuous voltage	(Tensión máxima continua)	17.5	kV
-- BIL	(NBI)	95	kV peak (cresta)
-- Weight without insulators	(Masa sin aislador)	2437	kg ±20%
-- Weight with insulators	(Masa con aislador)	2517	kg ±20%
-- W.O.	(O.F.)	2/203/3	
-- Standard	(Norma)	IEC-289/88	

TOLERANCIA DONDE NO INDICADO
>0 - 51 ±0.5
>51 - 152 ±1.5
>152 - 305 ±3
>305 - 915 ±6
>915 - 2032 ±13
>2032 ±19
TOLERANCES UNLESS OTHERWISE SPECIFIED
>0"-2" ±1/32"
>2"-6" ±1/16"
>6"-12" ±1/8"
>12"-36" ±1/4"
>36"-80" ±1/2"
>80" ±3/4"

REV.	DATE (FECHA)	DESCRIPTION (DESCRIPCIÓN)	DRAWN (DIB.)	VER (VER)	APPR (APR.)
REV.	DATE (FECHA)	DESCRIPTION (DESCRIPCIÓN)	DRAWN (DIB.)	VER (VER)	APPR (APR.)
TITLE: (TÍTULO)					
DIMENSIONS OF RECTOR (DIMENSIONES DEL RECTOR)					
CLIENT (CLIENTE) ALSTOM PES/UTE					
P.O. (O.C.) REC 09356					
DATE (FECHA) 28-05-99					
DRAFTSMAN (DIBUJO) Francisco					
VERIF. (VERIF) Rodrigo					
APPR. (APROB.) R. Botinha					
SCALE (ESCALA) 1:5-1:10					
DRAWING (PLANO) N° 17240					
REVISION (REVISIÓN)					
0					