ASEA

ELECTRIC SOUTH AFRICA LTD.

3 PHASE POWER TRANSFORMER 50 Hz 58 MVA 22/11,5 kV

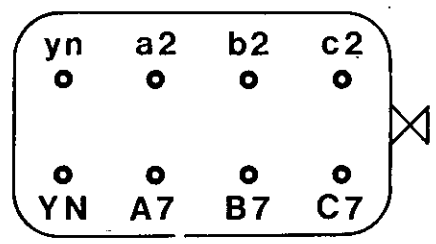
Serial no.		Core & Windings	kg 40 000
Type	TBA 41	Oil	kg 18 500 litres 21 000
Year of manufacture		Total mass	kg 75 500
Standard	BS 171 : 1970	Max. transport mass	
Type of cooling	ONAN / ONAF	inc. / exc. oil	kg 67 400 / 51 700

Suitable for use at 1 800 metres above sea level and for filling under full vacuum.

Terminals	Insulation level	Tapping switch connects	pos	kV	Max. Rated A
A7		3 – 4	1	21,0	1590
		4 – 2	2	20,5	1630
B7	150	2 – 5	3	20,0	1670
		5 – 1	4	19,5	1720
C7		1 – 6	5	19,0	1760
YN	150				
a2 b2 c2	95			11,5	2910
yn	95				

Winding	HV	LV
Terminals	A7 B7 C7	a2 b2 c2
Nominal Rating MVA		
ONAN	35	35
ONAF	58	58

Impedance%	Tap position 1	3	5	Base MVA
HV-LV				58



Relative position of terminals and main drain valve.

Current transformers to BS 3938:1973

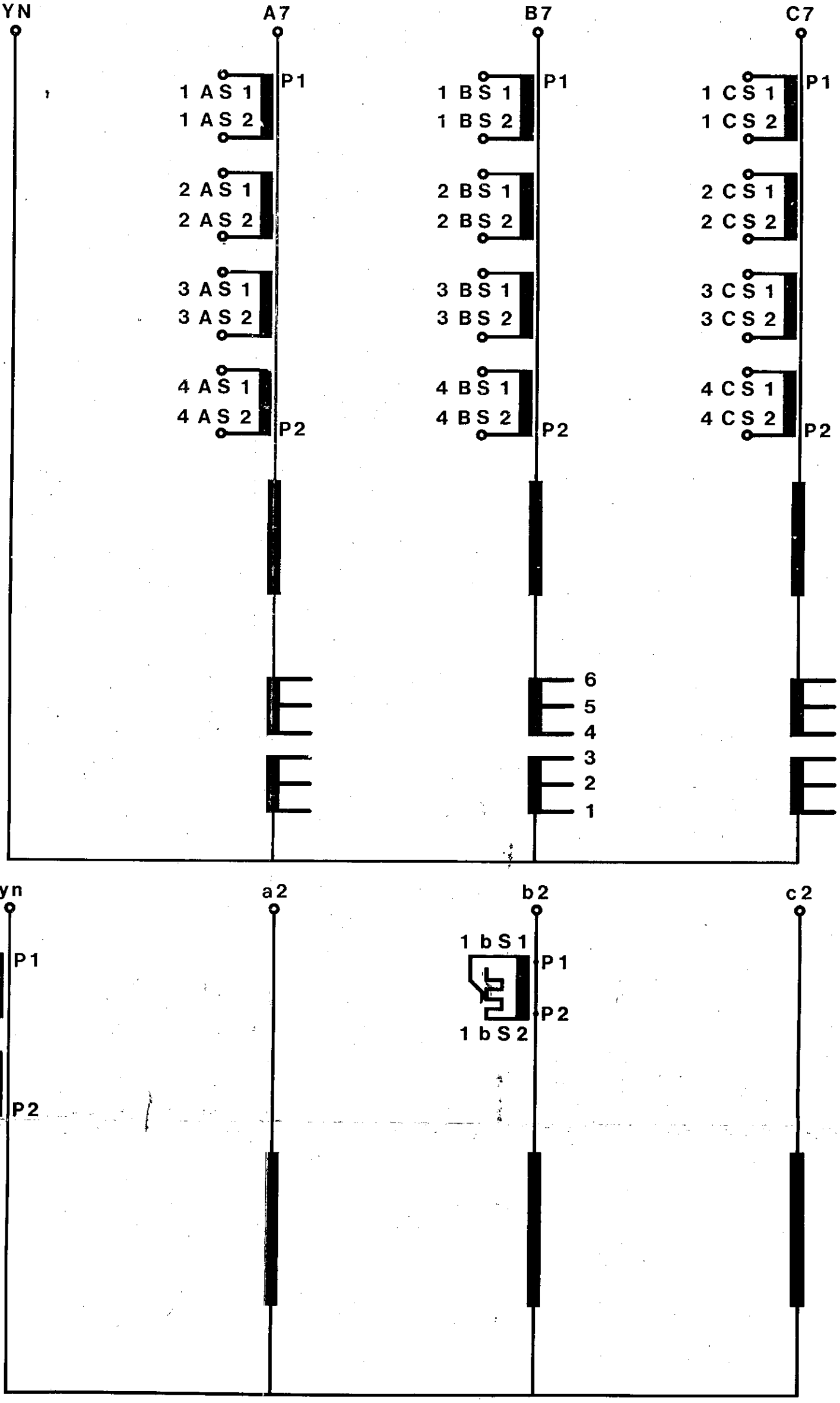
CT	Terminals	Application	Output VA	Output Vk-Im	Class	ALF	Ip or Ratio A	Turns Ratio N - NT	Rs	kA/sec
1A 1B 1C	1AS1 1AS2 / 1BS1 1BS2 / 1CS1 1CS2	Transformer Diff. Protection		500/0,1	X		1600 A	1/3466		Bar
2A 2B 2C	2AS1 2AS2 / 2BS1 2BS2 / 2CS1 2CS2	Metering	15		0,2		2000/1			Bar
3A 3B 3C	3AS1 3AS2 / 3BS1 3BS2 / 3CS1 3CS2	Over current Protection	15		10P	15	2000/1			Bar
4A 4B 4C	4AS1 4AS2 / 4BS1 4BS2 / 4CS1 4CS2	Gen. Trfr. Diff. Protection		55/0,05	X		1600 A	1/365		Bar
1yn	1ynS1 1ynS2	R.E.F.		750/0,1	X		2910 A	1/4000		Bar
2yn	2ynS1 2ynS2	E.F.	15		10P	15	2000/1			Bar
1b	1bS1 1bS2	W.T.I.	10		10P	1,5	3300/2			Bar

ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED

DATUM 78/1/9

PR2942 3165

Vector Symbol YNyn0



Contract Order no.

ASEA	Diagram plate	PR 29423165
PRETORIA	Ch.	Std Ch. / Appr. / Date 83-47
Scale 2:1	Des. Kotzé	

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CT. Information PR 4764 1289

Mat. to BS 1449 part 2:1975
No. 316 S12 or 304 S12
t=1,5;380x526

Cutting line

4 Holes ϕ 3.2

No.	Alteration	Des.	Ch.	Date
1	1A,B,C ; 2A,B,C & 3A,B,C Ratio Changes	RTC	RTC	86-04