REGULATED POWER SUPPLY

Type LS 14 B

INPUT: 110, 115, 220, 225 V 50 - 60 c/s

OUTPUTS:

a. Positive 0 - 500 V DC 200 mA
Continuously variable

Line stabilisation: 10 mV - 25 mV change in output for a 10 % change in line voltage (depending on output voltage setting). (0,005 %)

Load stabilisation: 0,1 - 0,2 V change in output for no load - full load change (depending on output voltage setting).

Ripple: 0,3 mV r.m.s. at 200 mA.

b. Negative 150 V DC 30 mA

Line stabilisation: 10 mV

Load stabilisation: 0,15 V

Ripple: 0,3 mV r.m.s.

c. Negative 0 - 150 V DC high impedance
Derived from b
Continuously variable
The potentiometer is logarithmic

d. 0 - 150 V DC 30 mA
Continuously variable

Line stabilisation: 0,1 - 0,3 V change in output for a 10 % change in line voltage (depending on output voltage setting).

Load stabilisation: 0,2 - 0,6 V change in output for no load - full load change (depending on output voltage setting).

Ripple: 1 mV r.m.s. at 30 mA

Note: d is completely insulated from a, b and c.

e. 6,3 V AC 4,5 A

f. 6,3 V AC 1,5 A

a, b and c have a common zero and are completely insulated from d.

a, b and c can be disconnected from the terminals by a switch on the panel. The same applies to d.

The meter measures current and voltage in a and d.

The fuse in a is 200 mA, in b 150 mA and in d 50 mA.

The LS 14 is equipped with a thermo relay which delays the starting about 90 seconds.

At a nominal input voltage of 220 V the LS 14 will regulate from 200 V to 240 V. Below 220 V a reduction in maximum output current or voltage is to be expected. The components are designed to permit an overload of a up to 250 mA for 5 minutes with the same resting period.

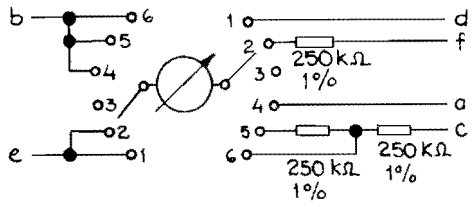
If the LS 14 has not been in use for about half a year it is advisable to increase the load gradually for the first 15 minutes.

PLEASE:

Do not hinder the ventilation.

Do not use an input voltage that continually deviates from the nominal or that even occasionally exceeds this +10 %.

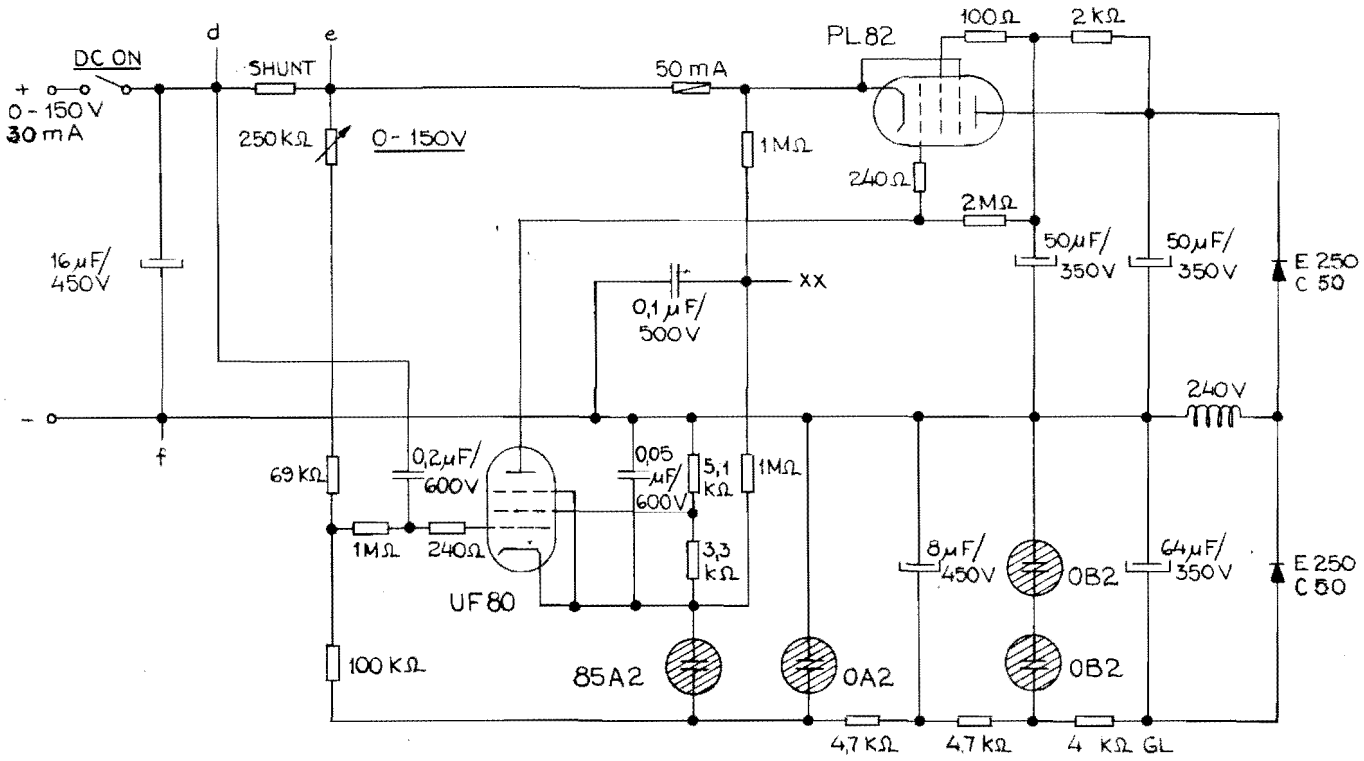
INSTRUMENT CONNECTION

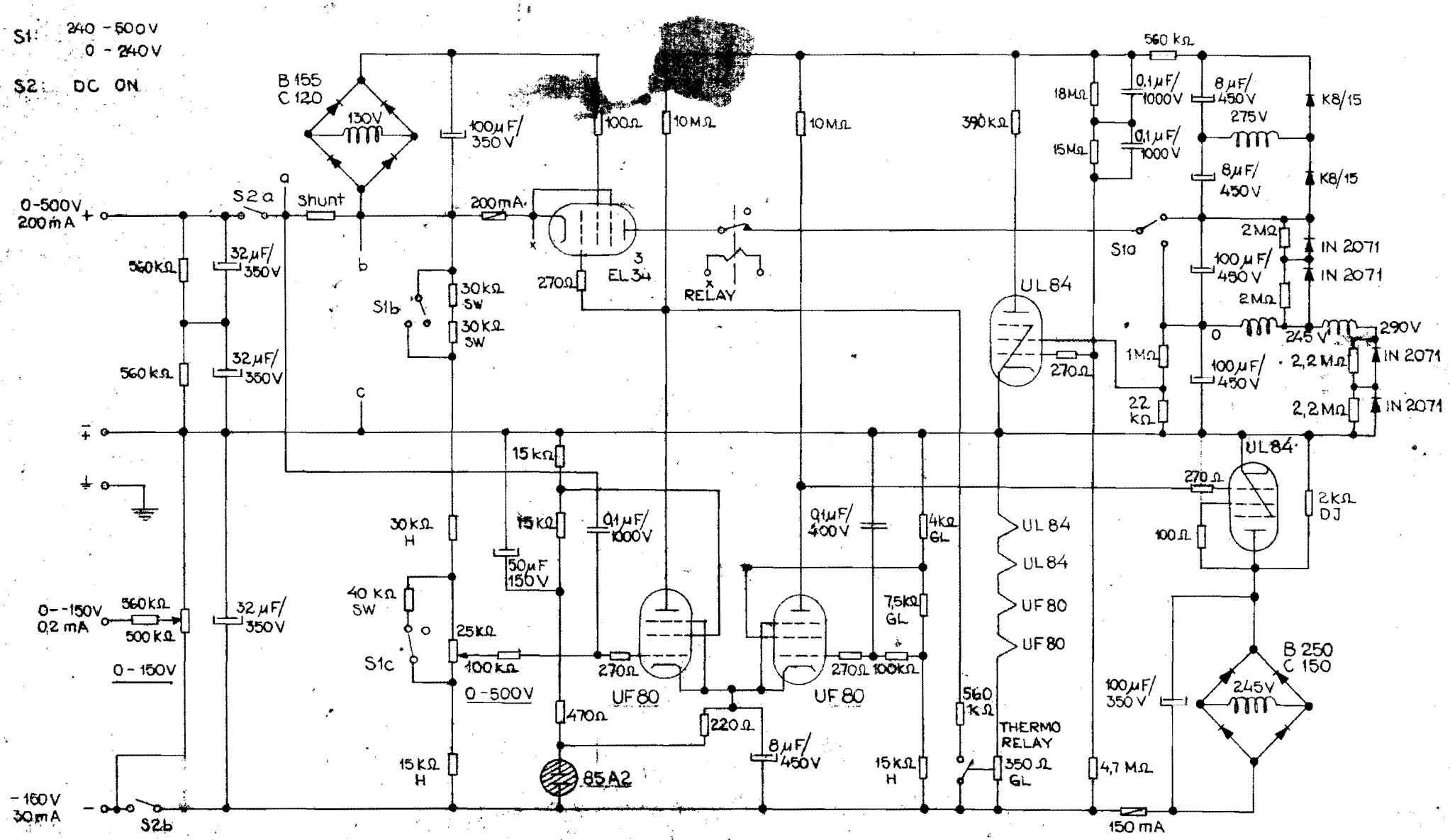


INSTR SWITCH

1	50 mA
2	250 V
3	
4	250 mA
5	500 V
6	250 V

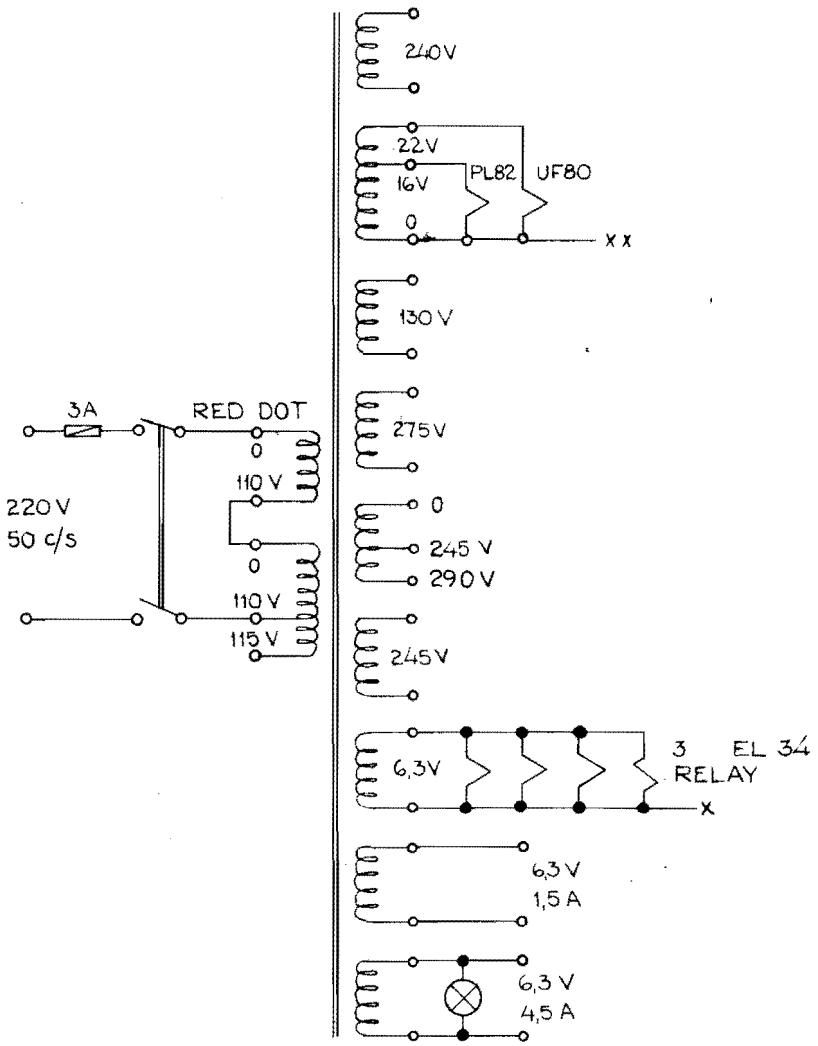
0 - 150 V 30 mA




0 - 500 V 200 mA
-150V 30 mA
0 - -150V 0,2 mA
S1: 240 - 500 V
0 - 240 V
S2: DC ON
B 155
C 120
130V
100µF/ 350 V
100Ω
10 MΩ
10 MΩ
390 kΩ
560 kΩ
18 MΩ
15 MΩ
0,1µF/ 1000V
0,1µF/ 1000V
8µF/ 450V
275V
8µF/ 450V
K8/15
K8/15
0-500V 200mA +
S2a
a
Shunt
b
200mA
x
270Ω
3
EL 34
RELAY
S1a
S1b
30kΩ SW
30kΩ SW
560kΩ
32µF/ 350V
560 kΩ
32µF/ 350V
c
UL 84
270Ω
2 MΩ
100µF/ 450V
2 MΩ
IN 2071
IN 2071
290V
245V
0
1 MΩ
22 kΩ
100µF/ 450V
2,2 MΩ
2,2 MΩ
IN 2071
IN 2071
UL 84
270Ω
2kΩ DJ
100Ω
15 kΩ
30 kΩ H
15 kΩ
50µF 150V
0,1µF/ 1000V
0,1µF/ 400V
4kΩ GL
7,5kΩ GL
UL 84
UL 84
UF 80
UF 80
0 - -150V 0,2 mA
560kΩ
500 kΩ
32µF/ 350V
0 - 150V
40 kΩ SW
S1c
25kΩ
100 kΩ
0 - 500V
270Ω
UF 80
270Ω
100kΩ
UF 80
470Ω
220Ω
8µF/ 450V
85A2
15 kΩ H
15 kΩ H
560 1kΩ
THERMO RELAY
350Ω GL
4,7 MΩ
150 mA
B 250
C 150
245V
100µF/ 350V
-150V 30mA
S2b

27.6.61

TRANSFORMER CONNECTION



Elab 11935