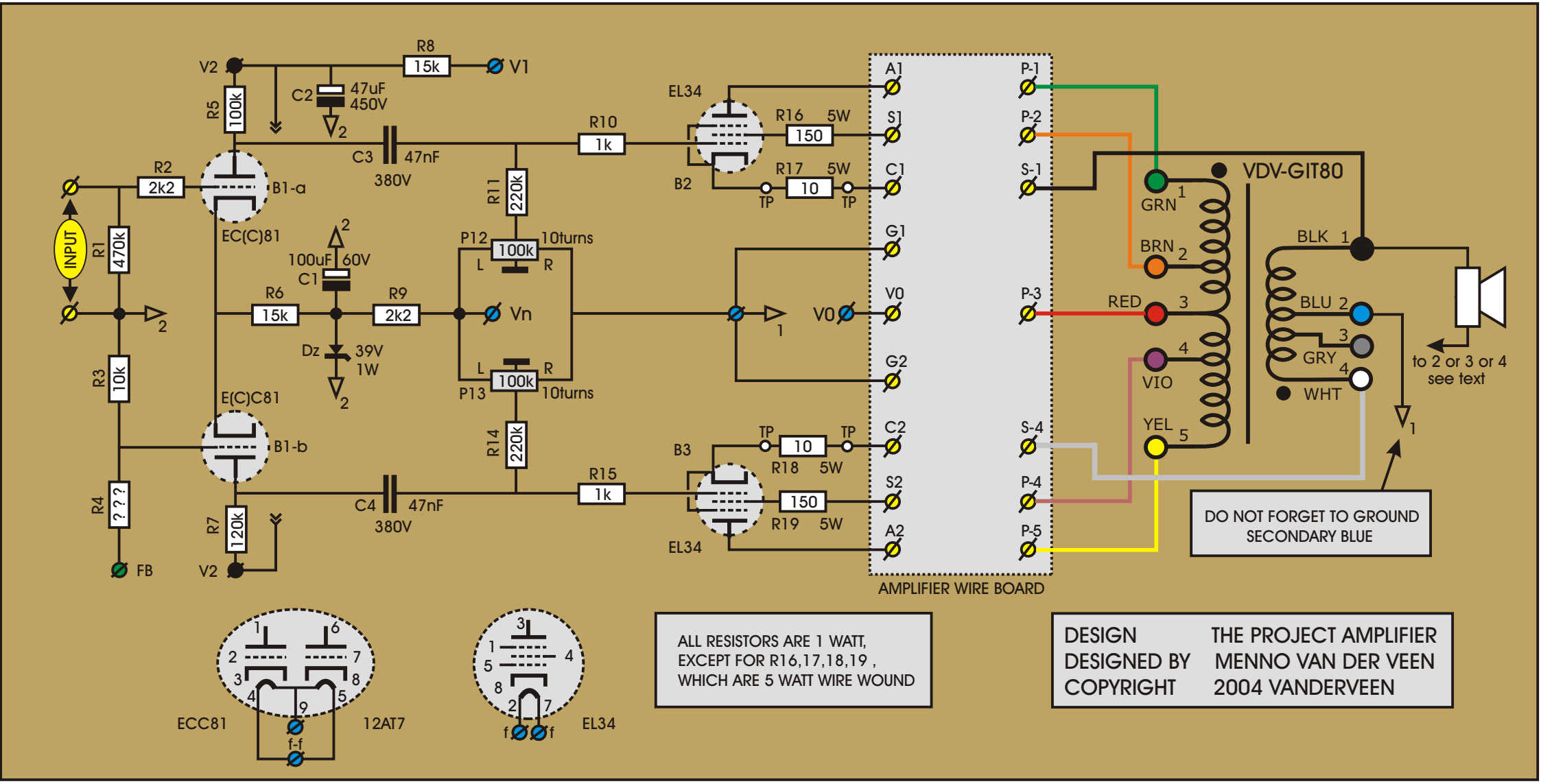
INPUT
R1 470k
R2 2k2
R3 10k
R4 ? ? ?
R5 100k
R6 15k
R7 120k
R8 15k
R9 2k2
R10 1k
R11 220k
R14 220k
R15 1k
R16 5W 150
R17 5W 10
R18 5W 10
R19 5W 150
C1 100uF 60V
C2 47uF 450V
C3 47nF 380V
C4 47nF 380V
Dz 39V 1W
P12 100k 10turns
P13 100k 10turns
V1
V2
Vn
V0
FB
EC(C)81
B1-a
E(C)C81
B1-b
EL34
B2
B3
TP
A1
S1
C1
G1
V0
G2
C2
S2
A2
P-1
P-2
S-1
P-3
S-4
P-4
P-5
AMPLIFIER WIRE BOARD
VDV-GIT80
GRN 1
BRN 2
RED 3
VIO 4
YEL 5
BLK 1
BLU 2
GRY 3
WHT 4
to 2 or 3 or 4 see text
DO NOT FORGET TO GROUND SECONDARY BLUE
ECC81
12AT7
f-f
EL34
ALL RESISTORS ARE 1 WATT, EXCEPT FOR R16,17,18,19 , WHICH ARE 5 WATT WIRE WOUND
DESIGN THE PROJECT AMPLIFIER
DESIGNED BY MENNO VAN DER VEEN
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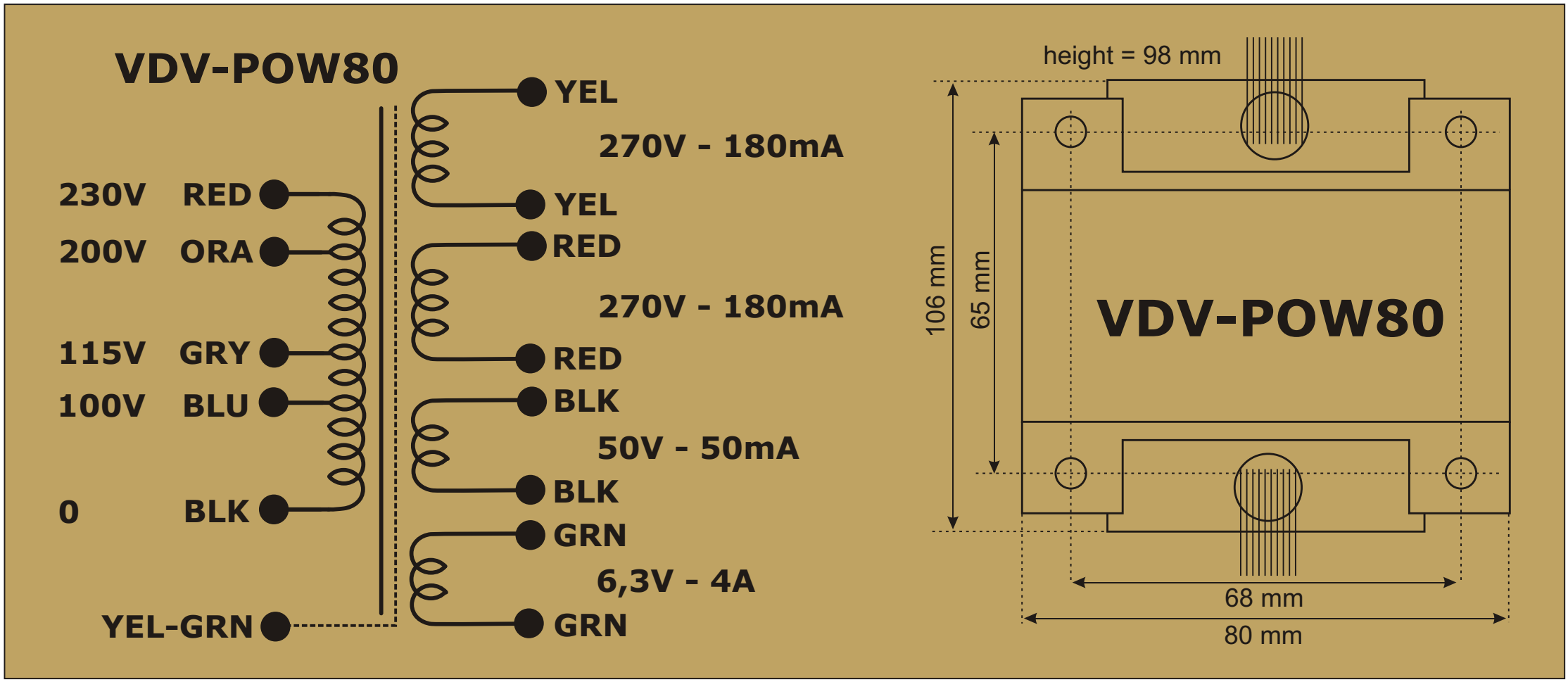

VDV-POW80
230V
RED
200V
ORA
115V
GRY
100V
BLU
0
BLK
YEL-GRN
YEL
270V - 180mA
YEL
RED
270V - 180mA
RED
BLK
50V - 50mA
BLK
GRN
6,3V - 4A
GRN
height = 98 mm
106 mm
65 mm
VDV-POW80
68 mm
80 mm

Za 1->3	Zs 1->2	Zs 1->3	Zs 1->4
1000	2	4	8
1500	3	6	12
2000	4	8	16
2500	5	10	20
3000	6	12	24
3500	7	14	28
4000	8	16	32
[Ohm]	[Ohm]	[Ohm]	[Ohm]

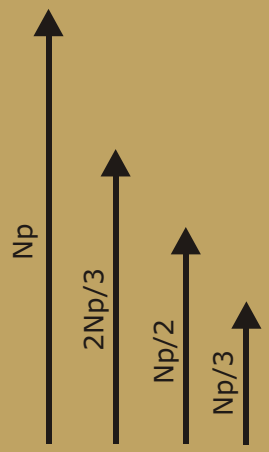
single ended

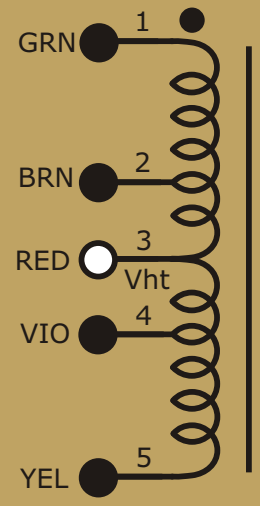
Zaa 1->5	Zs 1->2	Zs 1->3	Zs 1->4
2000	1	2	4
3000	1.5	3	6
4000	2	4	8
5000	2.5	5	10
6000	3	6	12
7000	3.5	7	14
8000	4	8	16
[Ohm]	[Ohm]	[Ohm]	[Ohm]

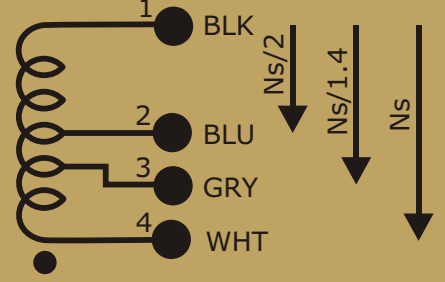
push pull

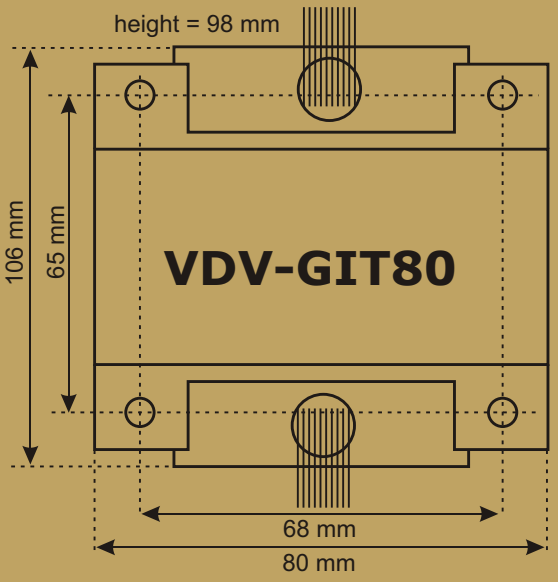
Zcc 2->4	Zs 1->2	Zs 1->3	Zs 1->4
500	2.3	4.5	9
600	2.7	5.4	10.8
700	3.2	6.3	12.6
800	3.6	7.2	14.4
900	4.1	8.1	16.2
1000	4.5	9	18
1100	5	10	20
[Ohm]	[Ohm]	[Ohm]	[Ohm]

cathode follower



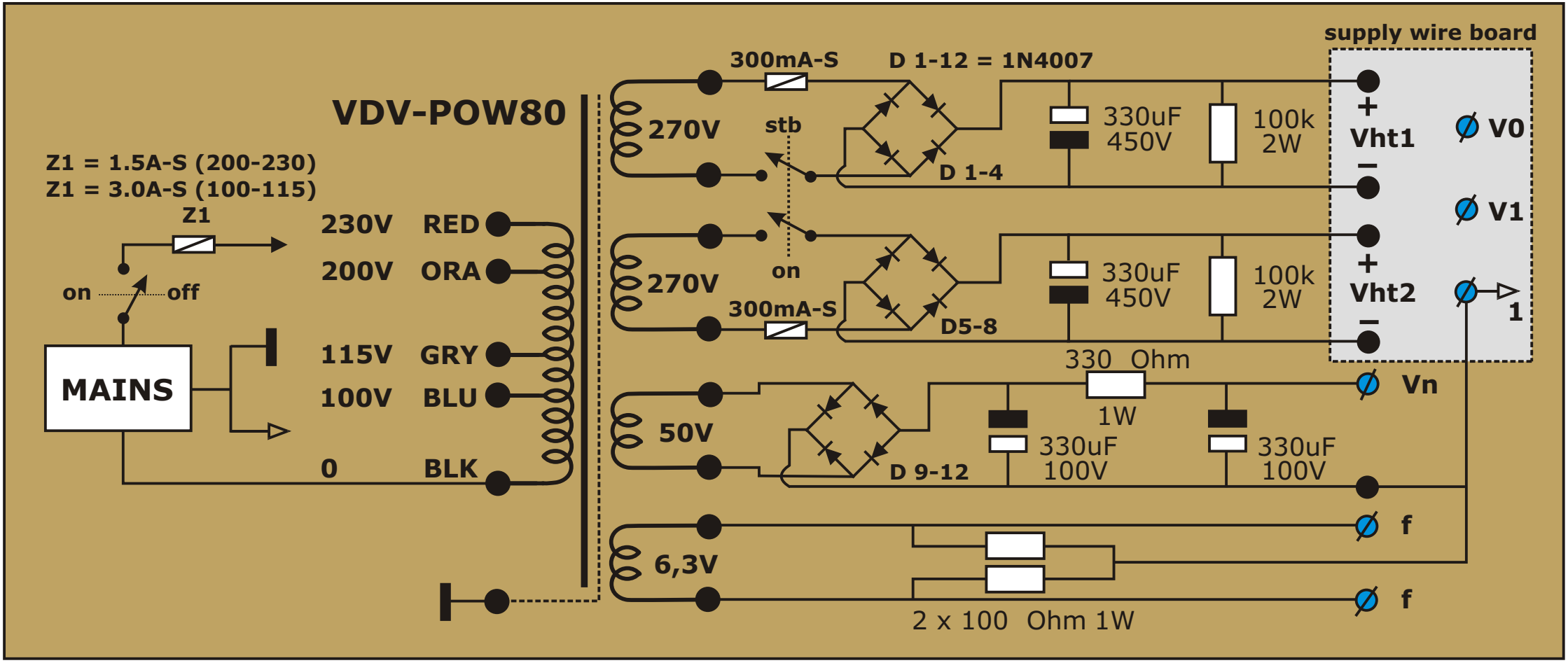






N_P / N_S	= 22,4
$L_{P,max}$	= 900 H
P_{max} @ 40 Hz	= 80 W
R_{ip} 1-5	= 180
R_{is} 1-2	= 0,12
R_{is} 1-3	= 0,23
R_{is} 1-4	= 0,54
L_{sp}	= 26 mH
C_{ip}	= 600 pF

Specs are subject to improvement


VDV-POW80
supply wire board
300mA-S
D 1-12 = 1N4007
270V
stb
D 1-4
330uF
450V
100k
2W
Vht1
V0
V1
Vht2
1
Z1 = 1.5A-S (200-230)
Z1 = 3.0A-S (100-115)
Z1
230V
RED
200V
ORA
on
off
MAINS
115V
GRY
100V
BLU
0
BLK
270V
on
300mA-S
D5-8
330uF
450V
100k
2W
330 Ohm
1W
Vn
50V
D 9-12
330uF
100V
330uF
100V
6,3V
f
f
2 x 100 Ohm 1W