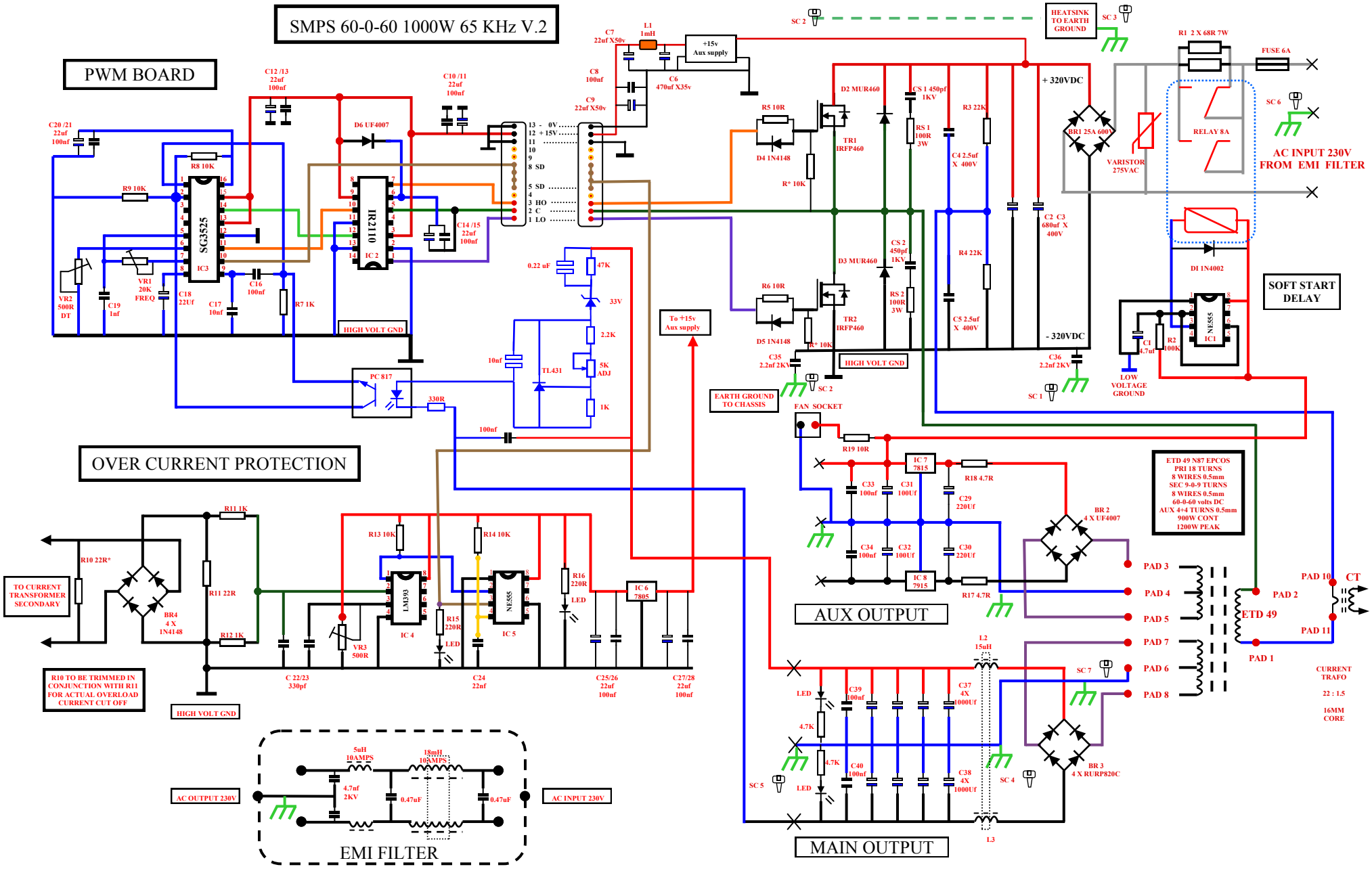
SMPS 60-0-60 1000W 65 KHz V.2
PWM BOARD
SG3525
IR2110
IC 2
IC3
VR2 500E DT
VR1 20K FREQ
R8 10K
R9 10K
R7 1K
C18 22UF
C19 1nf
C16 100nf
C17 10nf
C20 /21 22uf 100nf
C12 /13 22uf 100nf
C10 /11 22uf 100nf
C14 /15 22uf 100nf
D6 UF4007
HIGH VOLT GND
13 - 0V
12 + 15V
11
10
9
8 SD
5 SD
4
3 HO
2 C
1 LO
C7 22uf X50v
L1 1mH
C8 100nf
C9 22uf X50v
C6 470uf X35v
+15v Aux supply
To +15v Aux supply
0.22 uF
47K
33V
2.2K
5K ADJ
1K
10nf
TL431
PC 817
330R
100nf
OVER CURRENT PROTECTION
R11 1K
R10 22R*
R11 22R
R12 1K
BR4 4 X 1N4148
TO CURRENT TRANSFORMER SECONDARY
R10 TO BE TRIMMED IN CONJUNCTION WITH R11 FOR ACTUAL OVERLOAD CURRENT CUT OFF
HIGH VOLT GND
R13 10K
R14 10K
LM393
IC 4
NE555
IC 5
VR3 500R
R15 220R
LED
R16 220R
LED
IC 6 7805
C 22/23 330pf
C24 22nf
C25/26 22nf 100nf
C27/28 22nf 100nf
AC OUTPUT 230V
5uH 10AMPS
18mH 10AMPS
4.7nf 2KV
0.47uF
0.47uF
AC INPUT 230V
EMI FILTER
SC 2
HEATSINK TO EARTH GROUND
SC 3
R1 2 X 68R 7W
FUSE 6A
SC 6
AC INPUT 230V FROM EMI FILTER
RELAY 8A
VARISTOR 275VAC
BR1 25A 600V
+ 320VDC
- 320VDC
D2 MUR460
D3 MUR460
TR1 IRFP460
TR2 IRFP460
D4 1N4148
D5 1N4148
R5 10R
R6 10R
R* 10K
R* 10K
CS 1 450pf 1KV
CS 2 450pf 1KV
RS 1 100R 3W
RS 2 100R 3W
R3 22K
R4 22K
C4 2.5uf X 400V
C5 2.5uf X 400V
C2 C3 680uf X 400V
C35 2.2nf 2KV
C36 2.2nf 2KV
SC 2
SC 1
EARTH GROUND TO CHASSIS
LOW VOLTAGE GROUND
HIGH VOLT GND
FAN SOCKET
DI 1N4002
SOFT START DELAY
NE555
IC1
C1 4.7uf
R2 100K
R19 10R
IC 7 7815
IC 8 7915
R18 4.7R
R17 4.7R
C33 100nf
C31 100Uf
C29 220Uf
C34 100nf
C32 100Uf
C30 220Uf
BR 2 4 X UF4007
AUX OUTPUT
ETD 49 N87 EPCOS
PRI 18 TURNS
8 WIRES 0.5mm
SEC 9-0-9 TURNS
8 WIRES 0.5mm
60-0-60 volts DC
AUX 4+4 TURNS 0.5mm
900W CONT
1200W PEAK
PAD 3
PAD 4
PAD 5
PAD 7
PAD 6
PAD 8
PAD 10
CT
PAD 2
PAD 11
PAD 1
ETD 49
CURRENT TRAFO
22 : 1.5
16MM CORE
L2 15uH
L3
LED
4.7K
LED
4.7K
LED
C39 100nf
C40 100nf
C37 4X 1000Uf
C38 4X 1000Uf
SC 5
SC 4
SC 7
BR 3 4 X RURP820C
MAIN OUTPUT