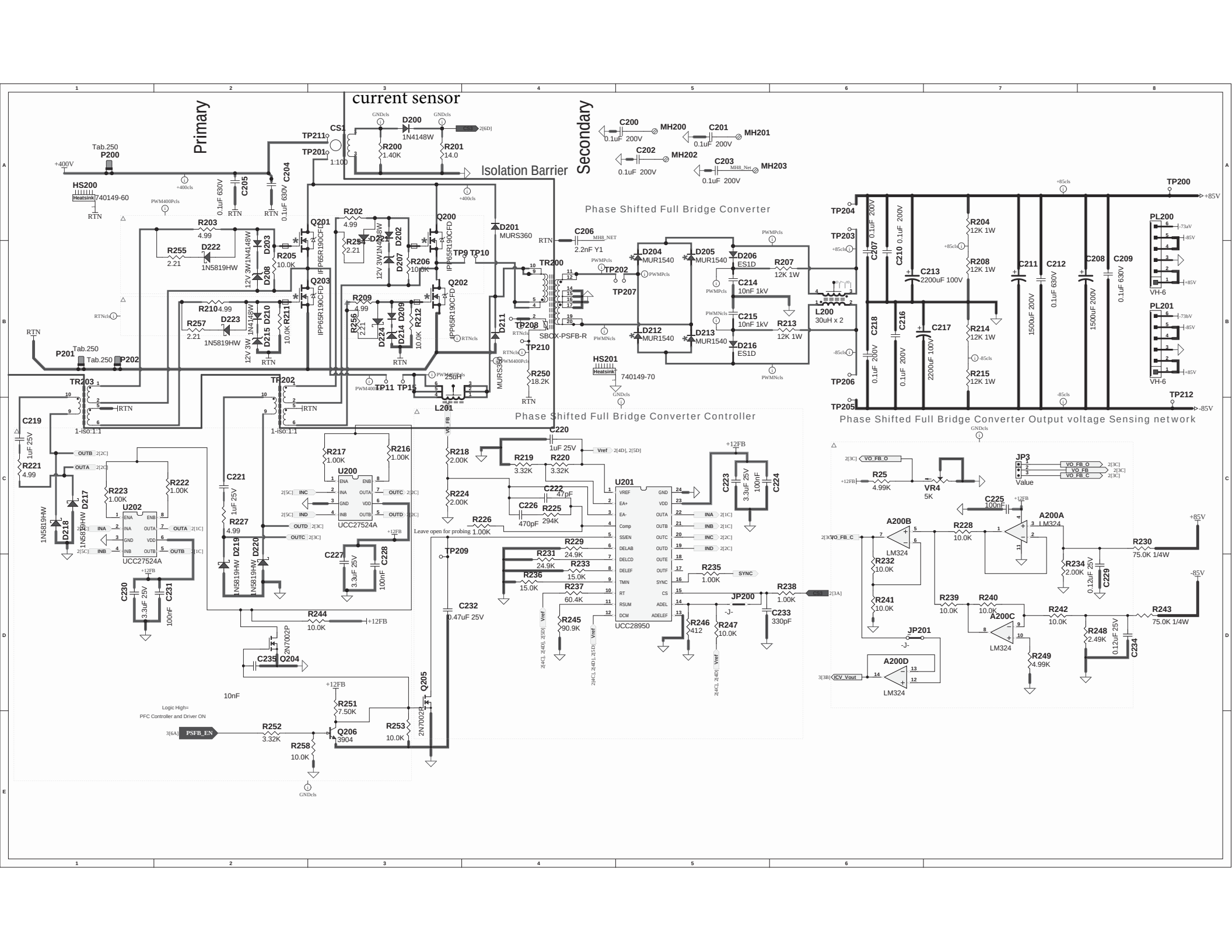
Primary
current sensor
Secondary
Isolation Barrier
Phase Shifted Full Bridge Converter
Phase Shifted Full Bridge Converter Controller
Phase Shifted Full Bridge Converter Output voltage Sensing network
Tab.250
P200
+400V
HS200
Heatsink
740149-60
RTN
TP211
TP201
CS1
1:100
D200
1N4148W
R200
1.40K
R201
14.0
C205
C204
0.1uF 630V
Q201
Q203
Q200
Q202
IPP65R190CFD
R202
R203
R254
R255
R256
R257
R210
R211
R209
R212
D202
D203
D207
D208
D209
D210
D214
D215
D220
D221
D222
D223
D224
1N5819HW
1N4148W
12V 3W
2.21
4.99
10.0K
TP9
TP10
D201
MURS360
C206
2.2nF Y1
TR200
SBOX-PSFB-R
TP202
TP207
TP208
TP210
R250
18.2K
D211
MURS360
L201
250uH
TP11
TP15
TR203
TR202
1-ISO:1:1
C219
1uF 25V
R221
4.99
D217
D218
U202
UCC27524A
R223
1.00K
R222
1.00K
C221
1uF 25V
R227
4.99
R217
1.00K
R216
1.00K
U200
UCC27524A
C227
3.3uF 25V
C228
100nF
C230
3.3uF 25V
C231
100nF
R244
10.0K
+12FB
C235
Q204
2N7002P
10nF
Q205
2N7002P
R251
7.50K
R252
3.32K
R253
10.0K
R258
10.0K
Q206
3904
PSFB_EN
Logic High=
PFC Controller and Driver ON
GNDcls
C200
0.1uF 200V
MH200
C201
MH201
C202
MH202
C203
MH203
MH8_Net
C206
MH8_NET
2.2nF Y1
D204
MUR1540
D205
D206
ES1D
D212
D213
D216
R207
12K 1W
C214
10nF 1kV
C215
R213
L200
30uH x 2
HS201
740149-70
TP204
TP203
TP206
TP205
C207
C210
C213
2200uF 100V
C218
C216
C217
2200uF 100V
R204
12K 1W
R208
R214
R215
C211
C212
1500uF 200V
0.1uF 630V
C208
C209
PL200
PL201
VH-6
TP200
TP212
+85V
-85V
C220
1uF 25V
R218
2.00K
R219
3.32K
R220
3.32K
C222
47pF
C226
470pF
R225
294K
R224
2.00K
R226
1.00K
Leave open for probing
U201
UCC28950
R229
24.9K
R231
24.9K
R233
15.0K
R236
15.0K
R237
60.4K
R235
1.00K
SYNC
R238
1.00K
JP200
-J-
C233
330pF
R245
90.9K
R246
412
R247
10.0K
C223
3.3uF 25V
C224
100nF
TP209
C232
0.47uF 25V
JP3
Value
VO_FB_O
VO_FB
VO_FB_C
R25
4.99K
VR4
5K
C225
100nF
A200B
A200A
A200C
A200D
LM324
R228
10.0K
R230
75.0K 1/4W
R232
10.0K
R234
2.00K
C229
0.12uF 25V
R241
10.0K
R239
10.0K
R240
10.0K
R242
10.0K
R243
75.0K 1/4W
R248
2.49K
C234
0.12uF 25V
R249
4.99K
JP201
-J-
ICV_Vout