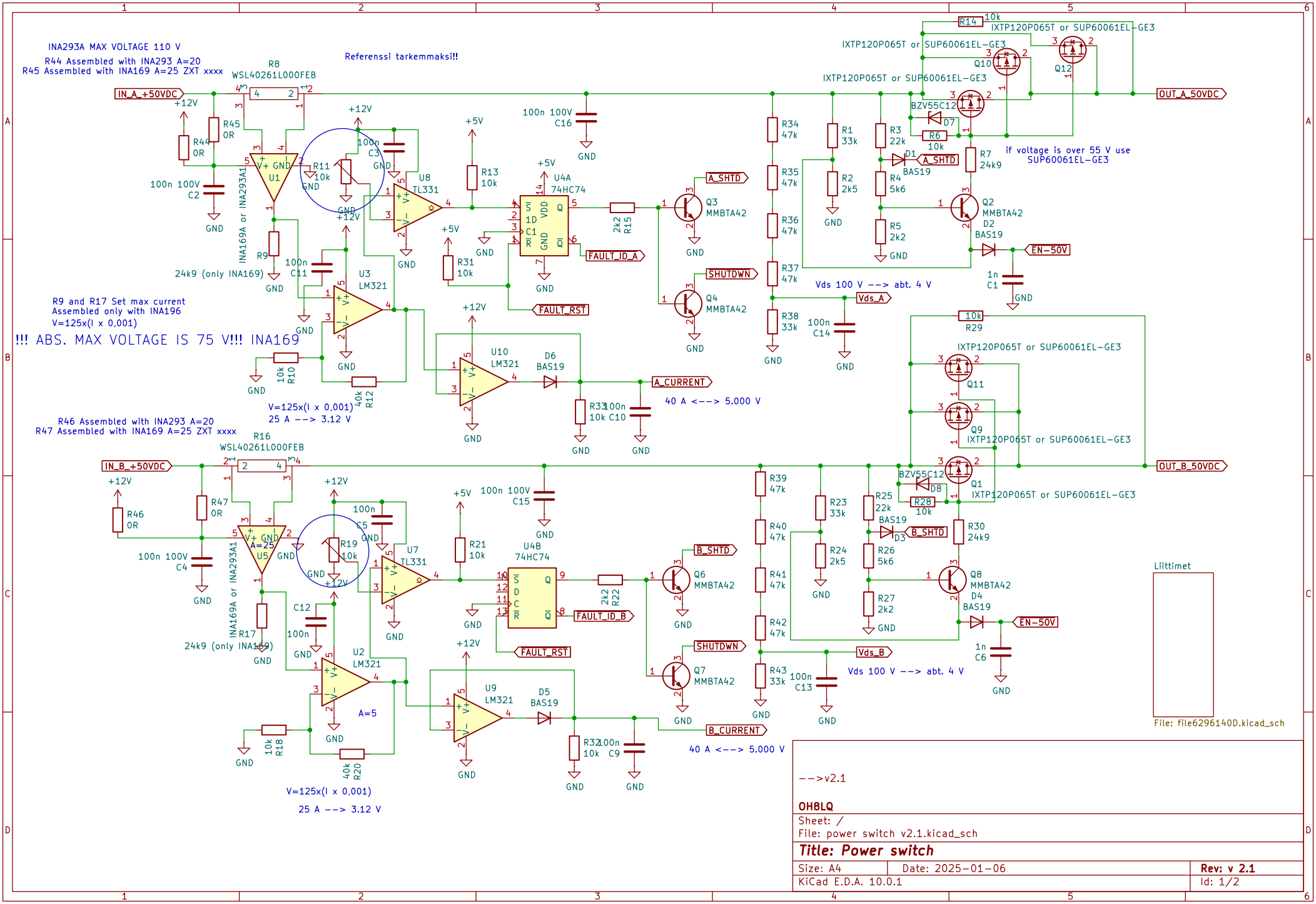
INA293A MAX VOLTAGE 110 V
R44 Assembled with INA293 A=20
R45 Assembled with INA169 A=25 ZXT xxxx
Referenssi tarkemmaksi!!
R8
WSL40261L000FEB
IN_A_+50VDC
OUT_A_50VDC
IXTP120P065T or SUP60061EL-GE3
R14 10k
Q10
Q12
BZV55C12
D7
R6 10k
D1 BAS19
A_SHTD
R7 24k9
if voltage is over 55 V use SUP60061EL-GE3
R1 33k
R2 2k5
R3 22k
R4 5k6
R5 2k2
Q2 MMBTA42
D2 BAS19
EN-50V
1n C1
R34 47k
R35 47k
R36 47k
R37 47k
R38 33k
Vds 100 V --> abt. 4 V
Vds_A
100n C14
R44 0R
R45 0R
100n 100V C2
INA169A or INA293A1
U1
R11 10k
100n C3
U8 TL331
R13 10k
U4A 74HC74
2k2 R15
Q3 MMBTA42
Q4 MMBTA42
SHUTDWN
FAULT_ID_A
FAULT_RST
R31 10k
100n 100V C16
R9
24k9 (only INA169)
100n C11
U3 LM321
R9 and R17 Set max current
Assembled only with INA196
V=125x(I x 0,001)
!!! ABS. MAX VOLTAGE IS 75 V!!! INA169
10k R10
40k R12
V=125x(I x 0,001)
25 A --> 3.12 V
U10 LM321
D6 BAS19
A_CURRENT
40 A <--> 5.000 V
R32 10k
100n C10
R29 10k
Q11
Q9
IXTP120P065T or SUP60061EL-GE3
R46 Assembled with INA293 A=20
R47 Assembled with INA169 A=25 ZXT xxxx
R16
WSL40261L000FEB
IN_B_+50VDC
OUT_B_50VDC
R46 0R
R47 0R
100n 100V C4
INA169A or INA293A1
A=25
U5
R19 10k
100n C5
U7 TL331
R21 10k
U4B 74HC74
2k2 R22
Q6 MMBTA42
Q7 MMBTA42
B_SHTD
SHUTDWN
FAULT_ID_B
FAULT_RST
100n 100V C15
R17
24k9 (only INA169)
C12 100n
U2 LM321
A=5
10k R18
40k R20
V=125x(I x 0,001)
25 A --> 3.12 V
U9 LM321
D5 BAS19
B_CURRENT
40 A <--> 5.000 V
R32 10k
100n C9
R39 47k
R40 47k
R41 47k
R42 47k
R43 33k
R23 33k
R24 2k5
R25 22k
R26 5k6
R27 2k2
R28 10k
R30 24k9
Q1
Q8 MMBTA42
D4 BAS19
Vds_B
Vds 100 V --> abt. 4 V
100n C13
1n C6
Liittimet
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OH8LQ
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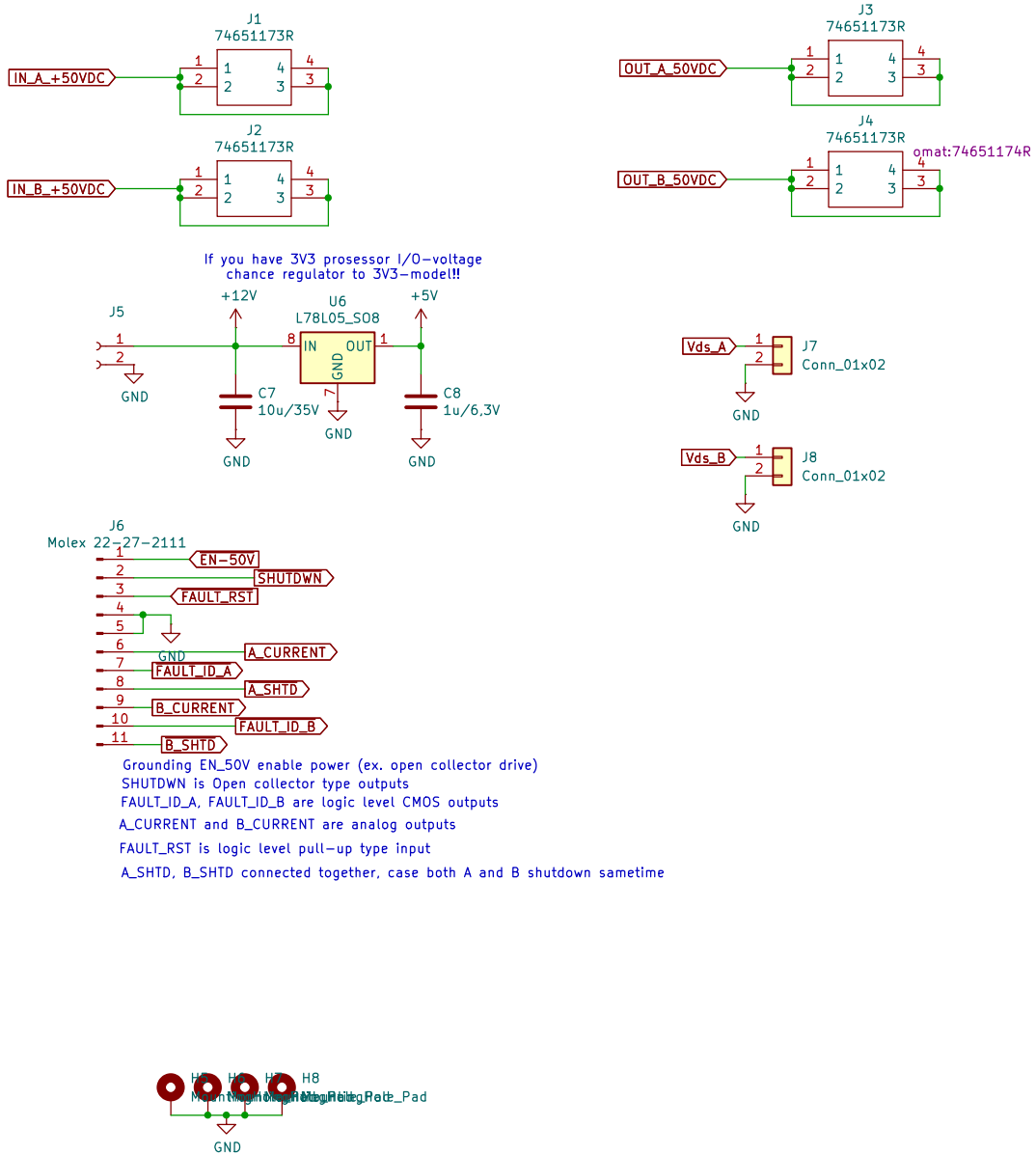
Size: A4
Date: 2025-01-06
Rev: v 2.1
KiCad E.D.A. 10.0.1
Id: 1/2



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KiCad E.D.A. 10.0.1		Id: 2/2