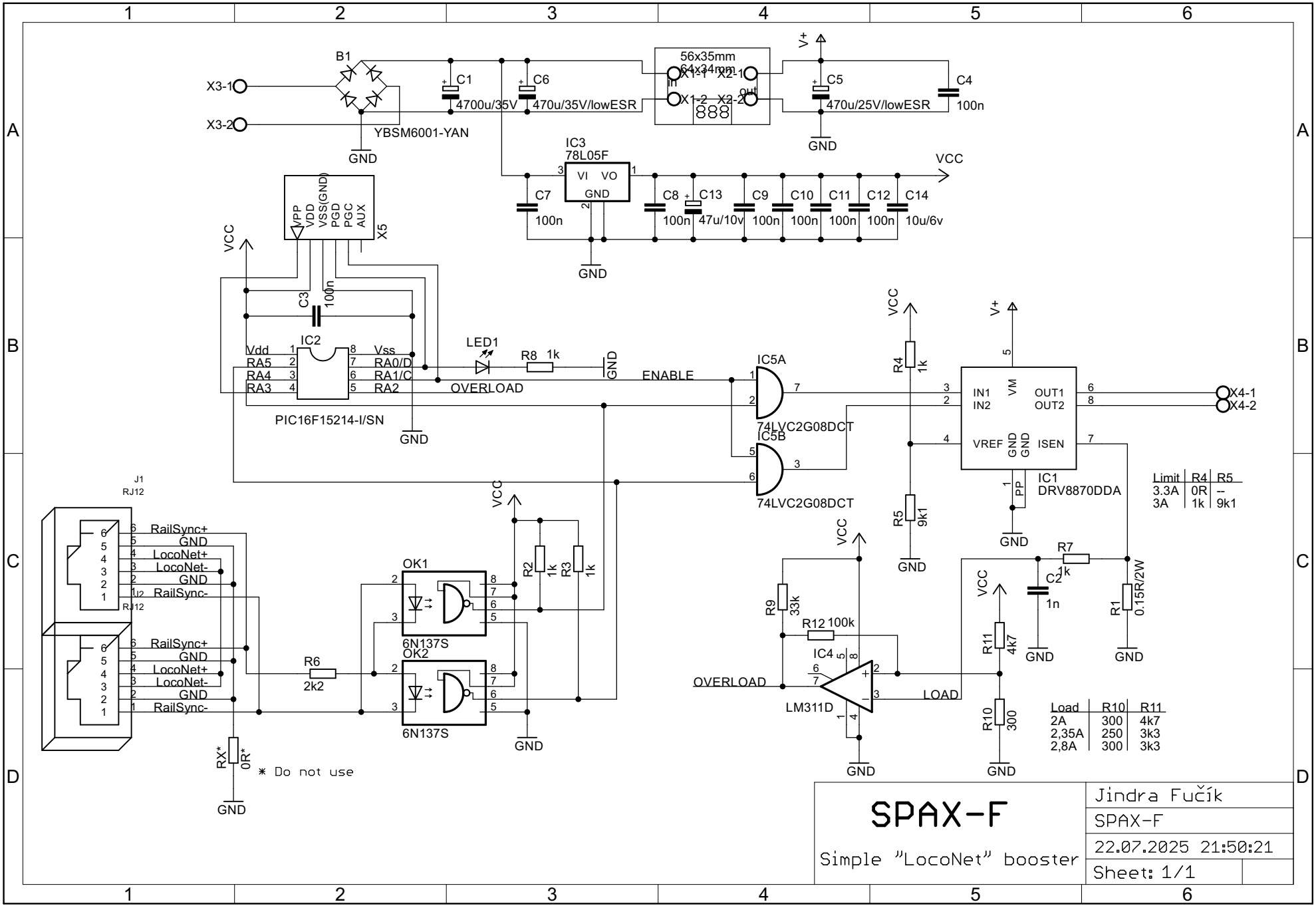
B1
YBSM6001-YAN
X3-1
X3-2
C1
4700u/35V
C6
470u/35V/lowESR
56x35mm
64x34mm
X1-1 X2-1
X1-2 X2-2
in
out
C5
470u/25V/lowESR
C4
100n
V+
GND
IC3
78L05F
VI VO
GND
VCC
C7
100n
C8
100n
C13
47u/10v
C9
100n
C10
100n
C11
100n
C12
100n
C14
10u/6v
X5
VPP
VDD
VSS(GND)
PGD
PGC
AUX
C3
100n
IC2
Vdd
RA5
RA4
RA3
Vss
RA0/D
RA1/C
RA2
PIC16F15214-I/SN
LED1
R8 1k
OVERLOAD
ENABLE
IC5A
IC5B
74LVC2G08DCT
74LVC2G08DCT
R4
1k
R5
9k1
IC1
DRV8870DDA
IN1
IN2
VM
OUT1
OUT2
VREF
GND
GND
ISEN
PP
X4-1
X4-2
Limit | R4 | R5
3.3A | 0R | –
3A | 1k | 9k1
J1
RJ12
RailSync+
GND
LocoNet+
LocoNet-
GND
RailSync-
OK1
OK2
6N137S
6N137S
R2
1k
R3
1k
R6
2k2
RX*
0R*
* Do not use
R9
33k
R12 100k
IC4
LM311D
OVERLOAD
LOAD
R7
1k
C2
1n
R11
4k7
R10
300
R1
0.15R/2W
Load | R10 | R11
2A | 300 | 4k7
2,35A | 250 | 3k3
2,8A | 300 | 3k3
SPAX-F
Simple "LocoNet" booster
Jindra Fučík
SPAX-F
22.07.2025 21:50:21
Sheet: 1/1