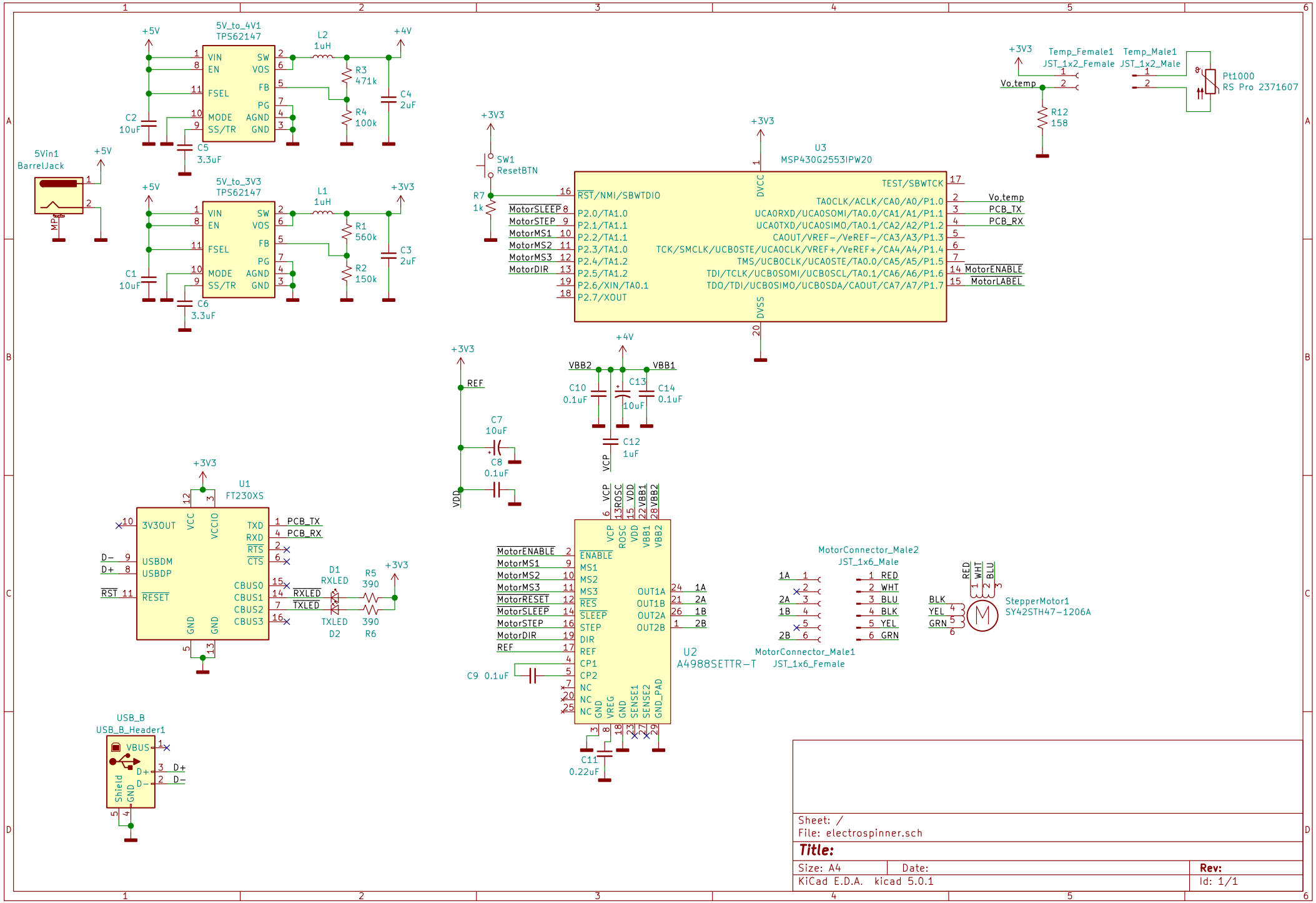
5V_to_4V1
TPS62147
VIN
EN
FSEL
MODE
SS/TR
SW
VOS
FB
PG
AGND
GND
+5V
+4V
L2
1uH
R3
471k
R4
100k
C4
2uF
C2
10uF
C5
3.3uF
5Vin1
BarrelJack
MP
5V_to_3V3
TPS62147
+3V3
L1
1uH
R1
560k
R2
150k
C3
2uF
C1
10uF
C6
3.3uF
SW1
ResetBTN
R7
1k
U3
MSP430G2553IPW20
DVCC
DVSS
RST/NMI/SBWTDIO
P2.0/TA1.0
P2.1/TA1.1
P2.2/TA1.1
P2.3/TA1.0
P2.4/TA1.2
P2.5/TA1.2
P2.6/XIN/TA0.1
P2.7/XOUT
MotorSLEEP
MotorSTEP
MotorMS1
MotorMS2
MotorMS3
MotorDIR
TEST/SBWTCK
TA0CLK/ACLK/CA0/A0/P1.0
UCA0RXD/UCA0SOMI/TA0.0/CA1/A1/P1.1
UCA0TXD/UCA0SIMO/TA0.1/CA2/A2/P1.2
CAOUT/VREF-/VeREF-/CA3/A3/P1.3
TCK/SMCLK/UCB0STE/UCA0CLK/VREF+/VeREF+/CA4/A4/P1.4
TMS/UCB0CLK/UCA0STE/TA0.0/CA5/A5/P1.5
TDI/TCLK/UCB0SOMI/UCB0SCL/TA0.1/CA6/A6/P1.6
TDO/TDI/UCB0SIMO/UCB0SDA/CAOUT/CA7/A7/P1.7
Vo,temp
PCB_TX
PCB_RX
MotorENABLE
MotorLABEL
Temp_Female1
JST_1x2_Female
Temp_Male1
JST_1x2_Male
Pt1000
RS Pro 2371607
R12
158
REF
C7
10uF
C8
0.1uF
VDD
VBB2
VBB1
C10
0.1uF
C13
10uF
C14
0.1uF
C12
1uF
VCP
U1
FT230XS
3V3OUT
VCC
VCCIO
USBDM
USBDP
RESET
TXD
RXD
RTS
CTS
CBUS0
CBUS1
CBUS2
CBUS3
D-
D+
RST
PCB_TX
PCB_RX
RXLED
TXLED
D1
RXLED
D2
TXLED
R5
390
R6
390
ROSC
MS1
MS2
MS3
RES
SLEEP
STEP
DIR
CP1
CP2
NC
OUT1A
OUT1B
OUT2A
OUT2B
VREG
SENSE1
SENSE2
GND_PAD
U2
A4988SETTR-T
C9 0.1uF
C11
0.22uF
MotorConnector_Male2
JST_1x6_Male
MotorConnector_Male1
JST_1x6_Female
1A
2A
1B
2B
RED
WHT
BLU
BLK
YEL
GRN
StepperMotor1
SY42STH47-1206A
USB_B
USB_B_Header1
VBUS
Shield
D+
D-
Sheet: /
File: electrospinner.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 5.0.1
Id: 1/1