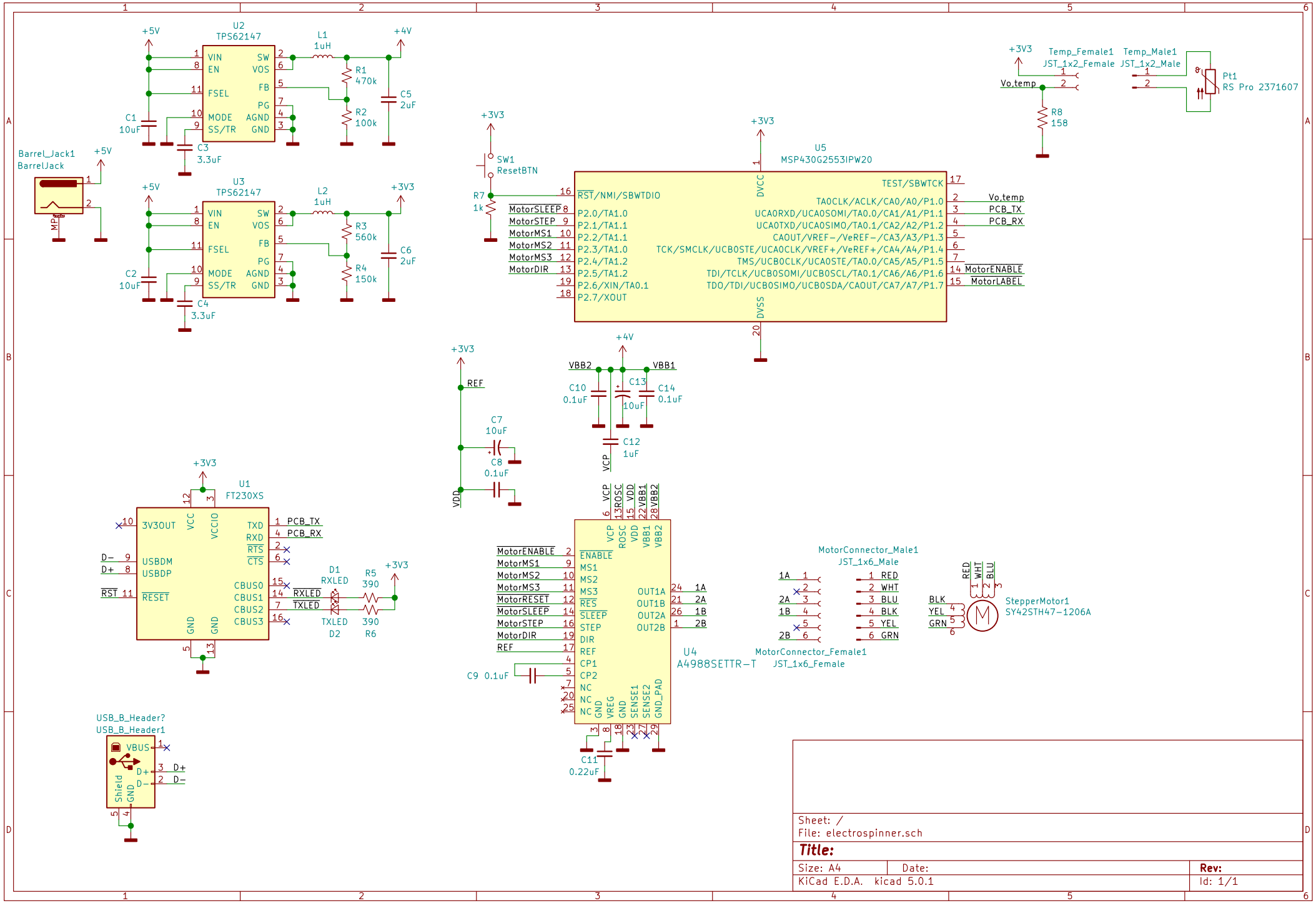
U2
TPS62147
VIN
EN
FSEL
MODE
SS/TR
SW
VOS
FB
PG
AGND
GND
L1
1uH
+4V
R1
470k
R2
100k
C5
2uF
C1
10uF
C3
3.3uF
+5V
Barrel_Jack1
BarrelJack
U3
TPS62147
L2
1uH
+3V3
R3
560k
R4
150k
C6
2uF
C2
10uF
C4
3.3uF
U5
MSP430G2553IPW20
SW1
ResetBTN
R7
1k
MotorSLEEP
MotorSTEP
MotorMS1
MotorMS2
MotorMS3
MotorDIR
RST/NMI/SBWTDIO
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
DVCC
DVSS
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
Pt1
RS Pro 2371607
R8
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
GND
D-
D+
RST
PCB_TX
PCB_RX
RXLED
TXLED
D1
RXLED
D2
TXLED
R5
390
R6
390
U4
A4988SETTR-T
ENABLE
MS1
MS2
MS3
RES
SLEEP
STEP
DIR
REF
CP1
CP2
NC
ROSC
OUT1A
OUT1B
OUT2A
OUT2B
SENSE1
SENSE2
GND_PAD
C9 0.1uF
C11
0.22uF
MotorConnector_Male1
JST_1x6_Male
MotorConnector_Female1
JST_1x6_Female
1A
2A
1B
2B
RED
WHT
BLU
BLK
YEL
GRN
StepperMotor1
SY42STH47-1206A
USB_B_Header?
USB_B_Header1
VBUS
Shield
Sheet: /
File: electrospinner.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 5.0.1
Id: 1/1