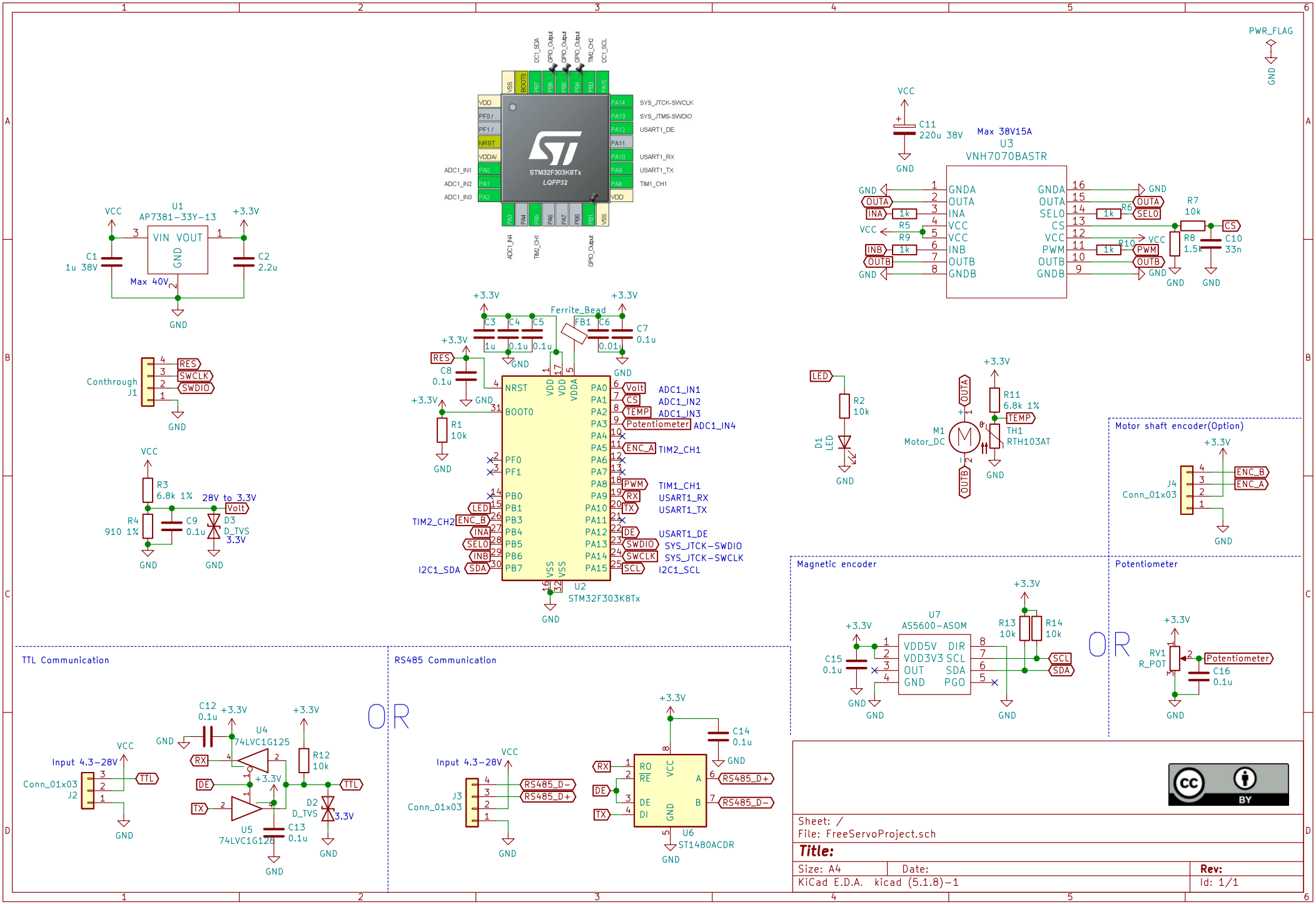
U1
AP7381-33Y-13
VIN VOUT
GND
VCC
+3.3V
C1
1u 38V
C2
2.2u
Max 40V
Conthrough
J1
RES
SWCLK
SWDIO
R3
6.8k 1%
R4
910 1%
C9
0.1u
28V to 3.3V
Volt
D3
D_TVS
3.3V
STM32F303K8Tx
LQFP32
SYS_JTCK-SWCLK
SYS_JTMS-SWDIO
USART1_DE
USART1_RX
USART1_TX
TIM1_CH1
ADC1_IN1
ADC1_IN2
ADC1_IN3
ADC1_IN4
TIM2_CH1
TIM2_CH2
I2C1_SDA
I2C1_SCL
C3
C4
C5
C6
C7
C8
R1
10k
Ferrite_Bead
FB1
NRST
BOOT0
PF0
PF1
PB0
PB1
PB3
PB4
PB5
PB6
PB7
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
VDD
VDDA
VSS
U2
STM32F303K8Tx
Max 38V15A
U3
VNH7070BASTR
GNDA
OUTA
INA
VCC
INB
OUTB
GNDB
SELO
CS
PWM
C11
220u 38V
R5
R9
R6
R10
R7
10k
R8
1.5k
C10
33n
PWR_FLAG
LED
R2
10k
D1
LED
M1
Motor_DC
R11
6.8k 1%
TH1
RTH103AT
Motor shaft encoder(Option)
J4
Conn_01x03
ENC_A
ENC_B
Magnetic encoder
U7
AS5600-ASOM
VDD5V
VDD3V3
OUT
GND
DIR
SCL
SDA
PGO
C15
0.1u
R13
10k
R14
10k
OR
Potentiometer
RV1
R_POT
C16
0.1u
TTL Communication
Input 4.3-28V
J2
TTL
C12
0.1u
U4
74LVC1G125
RX
DE
TX
R12
10k
D2
D_TVS
U5
74LVC1G126
C13
0.1u
RS485 Communication
J3
RS485_D-
RS485_D+
C14
0.1u
RO
RE
DE
DI
A
B
U6
ST1480ACDR
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Size: A4
Date:
Rev:
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