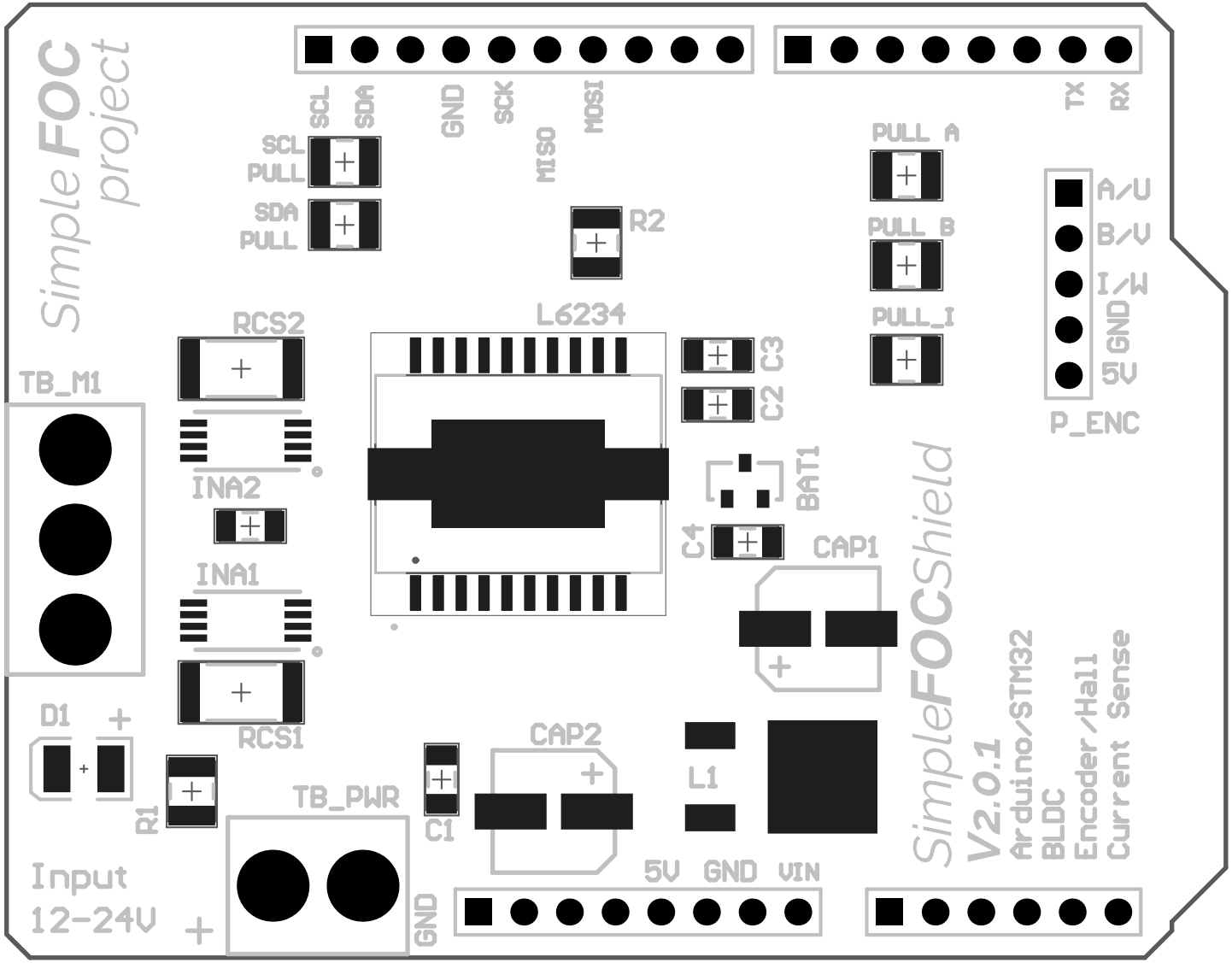
Simple FOC project
SCL
SDA
GND
SCK
MISO
MOSI
TX
RX
SCL PULL
SDA PULL
R2
PULL A
PULL B
PULL_I
A/U
B/V
I/W
GND
5V
P_ENC
L6234
C3
C2
BAT1
C4
CAP1
RCS2
TB_M1
INA2
INA1
RCS1
D1
R1
TB_PWR
C1
CAP2
L1
5V
GND
VIN
GND
Input
12-24V
SimpleFOCShield
V2.0.1
Arduino/STM32
BLDC
Encoder/Hall
Current Sense

M\I
B\D
A\C
13
11
12
4
N
3
A4
A5
pinout config
Encoder\Hall
phase B
A3
A2
phase A
A1
A0
5V
range
3.3V
pinout config
Current sense & ADC
Enable
regulator
5V
L6234 pinout config
PWM & enable
encoder pullups
enable
to
Pull
A
B
I
5
pwm B
7
3
8
enable
10
pwm A
9
6
pwm C
11
13
Pull
SCL
Pull
SDA
Solder to enable
I2C pullups
I2C\10
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