

12V Bat E Brake Motor

Brake-By-Cable  
v2.0.1

+12VBat BatGND

Ebrake BatGND

MotorA MotorB

K1

K2

Motor Controller  
VIN  
OUTA  
OUTB  
GND  
C = 100uF  
Pololu #2991  
R = 15kOhm

VM  
3V3  
CS  
nFLT  
nSLP  
PWM  
DIR  
GND

+17V Brown  
PresSens White

Pres Filt  
R7 R6 R10 R11

R12 U2 R8

D2 C5 R13 R14

C MinLimSw GND NC

C MaxLimSw GND NC

Pres  
Sens

Min  
LimSw

Max  
LimSw

Boost  
Circuit

R3

L2

D1

L1

C2

C1

R4

R5

R2

U1

C3

R1

U3

R15

R16

R17

C6

D3

CS\_FILT

MinLimSw

MaxLimSw

VDD

VDD

VDD

GND

IO14

IO15

IO16

IO17

IO18

IO19

IO20

IO21

IO22

IO23

IO24

IO25

IO26

IO27

IO28

IO29

IO30

IO31

IO32

IO33

CS\_FILT

MinLimSw

MaxLimSw