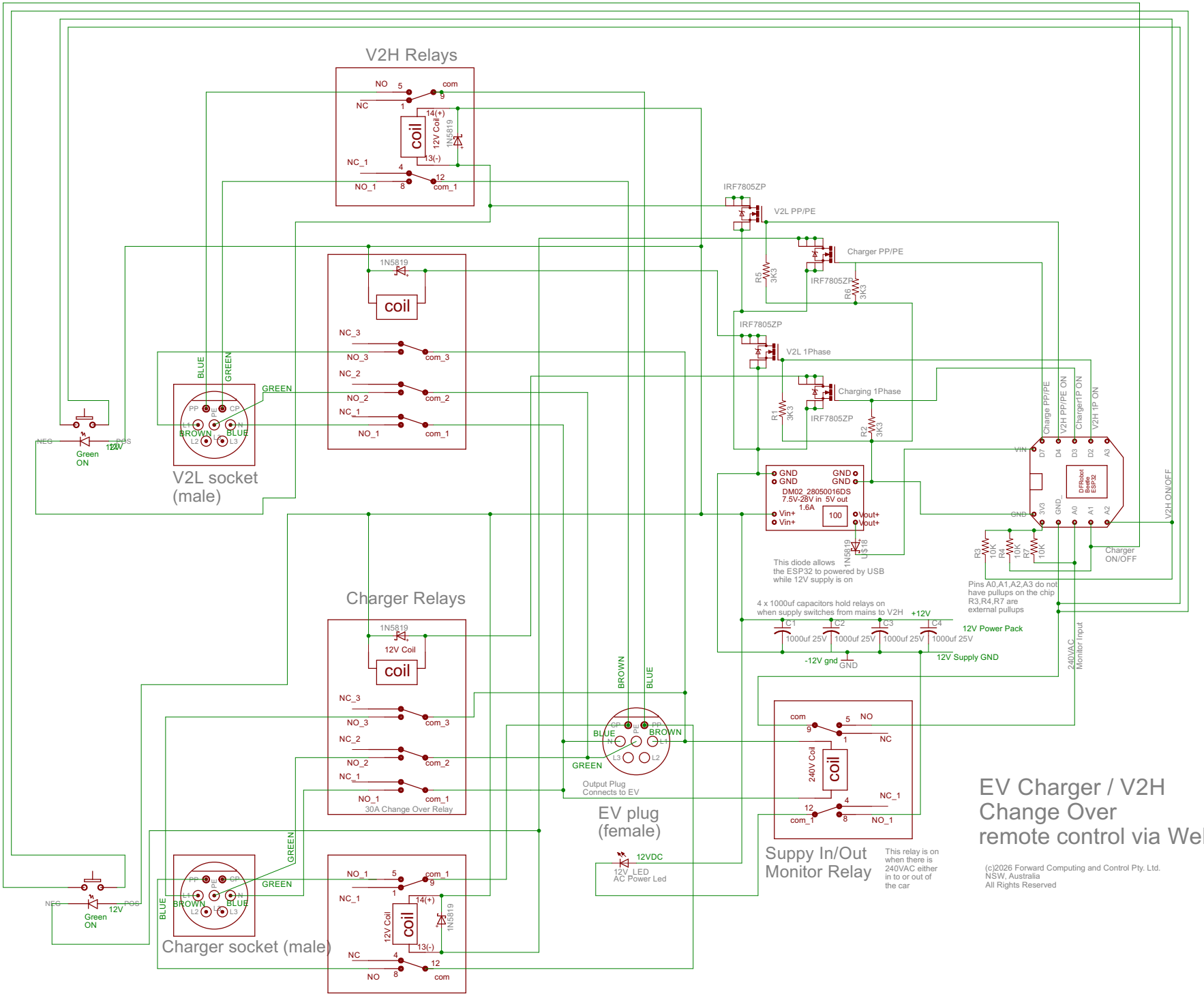
V2H Relays
NO
NC
com
coil
12V Coil
1N5819
NC_1
NO_1
com_1
IRF7805ZP
V2L PP/PE
Charger PP/PE
R5 3K3
R6 3K3
V2L 1Phase
Charging 1Phase
R1 3K3
R2 3K3
NC_3
NO_3
com_3
NC_2
NO_2
com_2
BLUE
GREEN
BROWN
PP
CP
L1
L2
L3
N
NEG
POS
12V
Green ON
V2L socket (male)
GND
DM02_280500016DS
7.5V-28V in 5V out
1.6A
100
Vin+
Vout+
U18
This diode allows the ESP32 to powered by USB while 12V supply is on
Charge PP/PE
V2H PP/PE ON
Charger1P ON
V2H 1P ON
VIN
D7
D4
D3
D2
A3
3V3
GND_
A0
A1
A2
D1Robot BlueDot ESP32
V2H ON/OFF
R3 10K
R4 10K
R7 10K
Charger ON/OFF
Pins A0,A1,A2,A3 do not have pullups on the chip R3,R4,R7 are external pullups
4 x 1000uf capacitors hold relays on when supply switches from mains to V2H
+12V
C1
C2
C3
C4
1000uf 25V
12V Power Pack
-12V gnd
12V Supply GND
240VAC Monitor Input
Charger Relays
30A Change Over Relay
Output Plug Connects to EV
EV plug (female)
12VDC
12V LED AC Power Led
240V Coil
Suppy In/Out Monitor Relay
This relay is on when there is 240VAC either in to or out of the car
Charger socket (male)
EV Charger / V2H Change Over remote control via Web
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