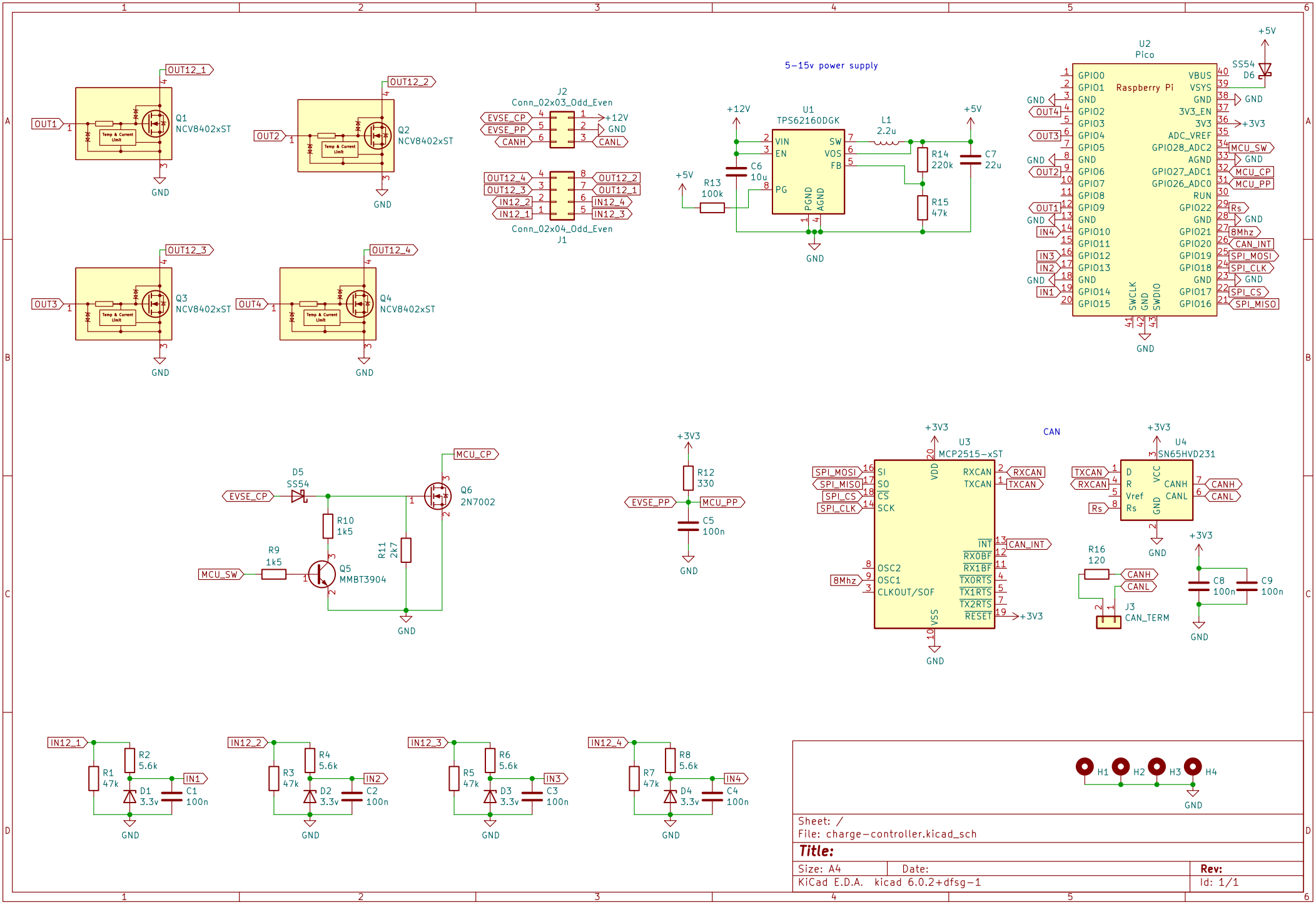
Q1
NCV8402xST
Q2
NCV8402xST
Q3
NCV8402xST
Q4
NCV8402xST
OUT1
OUT2
OUT3
OUT4
OUT12_1
OUT12_2
OUT12_3
OUT12_4
GND
J2
Conn_02x03_Odd_Even
EVSE_CP
EVSE_PP
CANH
CANL
+12V
J1
Conn_02x04_Odd_Even
IN12_1
IN12_2
IN12_3
IN12_4
5-15v power supply
U1
TPS62160DGK
VIN
EN
SW
VOS
FB
PG
PGND
AGND
L1
2.2u
R13
100k
C6
10u
R14
220k
R15
47k
C7
22u
+5V
U2
Pico
Raspberry Pi
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
VBUS
VSYS
3V3_EN
3V3
ADC_VREF
GPIO28_ADC2
AGND
GPIO27_ADC1
GPIO26_ADC0
RUN
GPIO22
GPIO21
GPIO20
GPIO19
GPIO18
GPIO17
GPIO16
SWCLK
SWDIO
+3V3
SS54
D6
MCU_SW
MCU_CP
MCU_PP
Rs
8Mhz
CAN_INT
SPI_MOSI
SPI_CLK
SPI_CS
SPI_MISO
D5
SS54
Q6
2N7002
R10
1k5
R9
1k5
R11
2k7
Q5
MMBT3904
R12
330
C5
100n
U3
MCP2515-xST
CAN
SI
SO
CS
SCK
VDD
RXCAN
TXCAN
INT
RX0BF
RX1BF
TX0RTS
TX1RTS
TX2RTS
RESET
OSC2
OSC1
CLKOUT/SOF
VSS
U4
SN65HVD231
D
R
Vref
Rs
VCC
CANH
CANL
R16
120
J3
CAN_TERM
C8
100n
C9
100n
IN12_1
IN12_2
IN12_3
IN12_4
IN1
IN2
IN3
IN4
R1
47k
R2
5.6k
D1
3.3v
C1
100n
R3
47k
R4
5.6k
D2
3.3v
C2
100n
R5
47k
R6
5.6k
D3
3.3v
C3
100n
R7
47k
R8
5.6k
D4
3.3v
C4
100n
H1
H2
H3
H4
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Date:
Rev:
KiCad E.D.A. kicad 6.0.2+dfsg-1
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