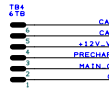
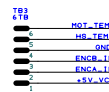
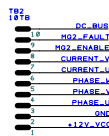


The diagram shows a 5V voltage regulator circuit. It starts with a +12VIN input that passes through a diode D1. The output of D1 is connected to the +VIN pin of the IC7805. The GND pin of the IC7805 is connected to a common ground. The +VOUT pin of the IC7805 is connected to a +5V_VCC output. Two capacitors, C1 and C2, both labeled 1uF, are connected in parallel with the input and output pins of the IC7805, respectively, to ground.

MCU BOARD				
IC1 BLU6_PILL				
M02_PDN_INHIBIT_P32.P1	PB12	ONDI	PA21	OND
M02_PDN_P13.P18	PB13	OND	PA22	OND
M02_PMD2_P.15	PA3	3_V3	PA23	YCC_3V3_M02
M02_PMD3_P.16	PB14	RESET	PA24	
M02_PMD4_P.17	PA5	PB11	PA25	M02_USART_PX.29
M02_PMD5_P.12	PA6	PB10	PA26	M02_USART_PX.30
M02_PMD6_P.13	PA7	PB1	PA27	M02_VAUX
M02_CAN_RX.14	PA8	PB0	PA28	M02_IL2_26
M02_CAN_TX.45	PA9	PA7	PA29	M02_ENC_E.23
M02_PMC10_P10_P18	PA10	PA6	PA30	M02_ENC_E.22
M02_PMC8_P10_P21	PA11	PA5	PA31	M02_IL1_21
M02_PMC4_P10_P18	PA12	PA4	PA32	M02_THPM4_24
M02_PMC15_P10_P18	PA15	PA3	PA33	M02_THPM_18
M02_PMC16_P10_P18	PB4	PA2	PA34	M02_USC_13
M02_PMC17_P10_P18	PB5	PA1	PA35	M02_REGEN_8
M02_PMC18_P10_P18	PB6	PA0	PA36	M02_THERM1_E.9
M02_PMC19_P10_P18	PB7	PC15	PA37	M02_BRKBRK_VN.14
M02_PMC20_P10_P18	PB8	PC14	PA38	M02_EXEC_OUT
M02_PMC21_P10_P18	PB9	PC13	PA39	
M02_PMC22_P10_P18	SV	PC12	PA40	
YCC_5V	PA18	ONDI		
OND	PA19	3_V3V1	VBAT	
M02_3V3V1_M02	PA20			

Pin	Signal
10	REV_IN
9	FOR_IN
8	START_IN
7	BRAKE_IN
6	QND
5	REGEN_IN
4	THROTTLE_IN
3	+5V_VCC
2	QND
1	+12VIN



CURRENT SENSORS

The diagram illustrates two identical current sensor modules. Each module consists of a current input (CURRENT_U and CURRENT_Y), a 1k resistor (R4 and R7), a 0.01uF capacitor (C3 and C4), and a 1k resistor (R5 and R6) connected to ground. The outputs are labeled M02_1L1_21 and M02_1L2_26.

OUTPUTS

MO2_PRECHARGE_OUT_27

PRECHARGE_A

74VHC17BKS01

GND

MO2_RESET_OUT_2

RESET_A

74VHC17BKS01

GND

WiFi MODULE

VCC_3V3_M02

C15
1uF

GND

MOSI_UART_TX_29

MISO_UART_RX_38

23 75867-101LF

1 4

2 7

3 8

4 9

5 10

The schematic diagram illustrates the motor control system, featuring two relays, RN1 and RN2, and their associated wiring and components.

Relay RN1 (112R-1-120LF): This relay is connected to the motor control system. Its terminals are labeled as follows:

- Terminal 1: REV-IN
- Terminal 2: FWD-IN
- Terminal 3: BRAKE-IN
- Terminal 4: START-IN
- Terminal 5: GND
- Terminal 6: M2_REV-IN 37
- Terminal 7: M2_FWD-IN 28
- Terminal 8: M2_BRAKE-IN 16
- Terminal 9: M2_START
- Terminal 10: GND
- Terminal 11: GND
- Terminal 12: GND
- Terminal 13: GND
- Terminal 14: GND
- Terminal 15: GND
- Terminal 16: GND
- Terminal 17: GND
- Terminal 18: GND
- Terminal 19: GND
- Terminal 20: GND
- Terminal 21: GND
- Terminal 22: GND
- Terminal 23: GND
- Terminal 24: GND
- Terminal 25: GND
- Terminal 26: GND
- Terminal 27: GND
- Terminal 28: GND
- Terminal 29: GND
- Terminal 30: GND
- Terminal 31: GND
- Terminal 32: GND
- Terminal 33: GND
- Terminal 34: GND
- Terminal 35: GND
- Terminal 36: GND
- Terminal 37: GND
- Terminal 38: GND
- Terminal 39: GND
- Terminal 40: GND
- Terminal 41: GND
- Terminal 42: GND
- Terminal 43: GND
- Terminal 44: GND
- Terminal 45: GND
- Terminal 46: GND
- Terminal 47: GND
- Terminal 48: GND
- Terminal 49: GND
- Terminal 50: GND
- Terminal 51: GND
- Terminal 52: GND
- Terminal 53: GND
- Terminal 54: GND
- Terminal 55: GND
- Terminal 56: GND
- Terminal 57: GND
- Terminal 58: GND
- Terminal 59: GND
- Terminal 60: GND
- Terminal 61: GND
- Terminal 62: GND
- Terminal 63: GND
- Terminal 64: GND
- Terminal 65: GND
- Terminal 66: GND
- Terminal 67: GND
- Terminal 68: GND
- Terminal 69: GND
- Terminal 70: GND
- Terminal 71: GND
- Terminal 72: GND
- Terminal 73: GND
- Terminal 74: GND
- Terminal 75: GND
- Terminal 76: GND
- Terminal 77: GND
- Terminal 78: GND
- Terminal 79: GND
- Terminal 80: GND
- Terminal 81: GND
- Terminal 82: GND
- Terminal 83: GND
- Terminal 84: GND
- Terminal 85: GND
- Terminal 86: GND
- Terminal 87: GND
- Terminal 88: GND
- Terminal 89: GND
- Terminal 90: GND
- Terminal 91: GND
- Terminal 92: GND
- Terminal 93: GND
- Terminal 94: GND
- Terminal 95: GND
- Terminal 96: GND
- Terminal 97: GND
- Terminal 98: GND
- Terminal 99: GND
- Terminal 100: GND

Relay RN2 (112R-1-183LF): This relay is connected to the motor control system. Its terminals are labeled as follows:

- Terminal 1: FWD-IN
- Terminal 2: REV-IN
- Terminal 3: BRAKE-IN
- Terminal 4: START-IN
- Terminal 5: GND
- Terminal 6: M2_THROTTLE 9
- Terminal 7: M2_REGEN 8
- Terminal 8: M2_FWH INHIBIT 33
- Terminal 9: M2_UDP 13
- Terminal 10: GND
- Terminal 11: GND
- Terminal 12: GND
- Terminal 13: GND
- Terminal 14: GND
- Terminal 15: GND
- Terminal 16: GND
- Terminal 17: GND
- Terminal 18: GND
- Terminal 19: GND
- Terminal 20: GND
- Terminal 21: GND
- Terminal 22: GND
- Terminal 23: GND
- Terminal 24: GND
- Terminal 25: GND
- Terminal 26: GND
- Terminal 27: GND
- Terminal 28: GND
- Terminal 29: GND
- Terminal 30: GND
- Terminal 31: GND
- Terminal 32: GND
- Terminal 33: GND
- Terminal 34: GND
- Terminal 35: GND
- Terminal 36: GND
- Terminal 37: GND
- Terminal 38: GND
- Terminal 39: GND
- Terminal 40: GND
- Terminal 41: GND
- Terminal 42: GND
- Terminal 43: GND
- Terminal 44: GND
- Terminal 45: GND
- Terminal 46: GND
- Terminal 47: GND
- Terminal 48: GND
- Terminal 49: GND
- Terminal 50: GND
- Terminal 51: GND
- Terminal 52: GND
- Terminal 53: GND
- Terminal 54: GND
- Terminal 55: GND
- Terminal 56: GND
- Terminal 57: GND
- Terminal 58: GND
- Terminal 59: GND
- Terminal 60: GND
- Terminal 61: GND
- Terminal 62: GND
- Terminal 63: GND
- Terminal 64: GND
- Terminal 65: GND
- Terminal 66: GND
- Terminal 67: GND
- Terminal 68: GND
- Terminal 69: GND
- Terminal 70: GND
- Terminal 71: GND
- Terminal 72: GND
- Terminal 73: GND
- Terminal 74: GND
- Terminal 75: GND
- Terminal 76: GND
- Terminal 77: GND
- Terminal 78: GND
- Terminal 79: GND
- Terminal 80: GND
- Terminal 81: GND
- Terminal 82: GND
- Terminal 83: GND
- Terminal 84: GND
- Terminal 85: GND
- Terminal 86: GND
- Terminal 87: GND
- Terminal 88: GND
- Terminal 89: GND
- Terminal 90: GND
- Terminal 91: GND
- Terminal 92: GND
- Terminal 93: GND
- Terminal 94: GND
- Terminal 95: GND
- Terminal 96: GND
- Terminal 97: GND
- Terminal 98: GND
- Terminal 99: GND
- Terminal 100: GND

Components:

- Capacitors:** C7, C8, C9, C10, C11, C12, C13, C14. C7, C8, C9, and C10 are 1uF capacitors. C11, C12, C13, and C14 are 0.1uF capacitors.
- Grounds:** GND

The diagram illustrates the CAN BUS interfacing circuit. The ICS MCP2552-E_P chip is connected to the CAN BUS. The TXD pin is connected to MO2_CAN_TX_65, and the RXD pin is connected to MO2_CAN_RX_64. The VDD pin is connected to VCC_5V, and the VSS pin is connected to GND. The CANH and CANL pins are connected to the CAN BUS. A 1uF capacitor is connected between VCC_5V and GND.

