

Power Supply

The diagram illustrates a power supply circuit. It begins with a transformer T1 (120-385V) connected to a 1729128 power source. The secondary windings are W2 (12V, 0.35A) and W3 (12V, 0.35A). The primary is connected to a 7491182012 source. The secondary is connected to a bridge rectifier BR1 (DB107). The output of the rectifier is filtered by three capacitors C1, C2, and C3. The output is then connected to an LM7805CT voltage regulator IC1. The regulator's input is connected to the filtered output, its ground is connected to GND, and its output is connected to VCC.

Relay Outputs

The diagram illustrates two identical relay output channels. Each channel consists of a transistor (Q1 and Q2, both BD139) connected to a relay (K1 and K2). The base of the transistor is connected to a resistor (R2 and R3) and the output signal (Out1 and Out2). The emitter of the transistor is connected to ground (GND). The collector of the transistor is connected to the relay coil and a diode (D1 and D2). The other end of the diode is connected to VCC. The relay contacts are connected to a 3-pin connector (J2 and J3).

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