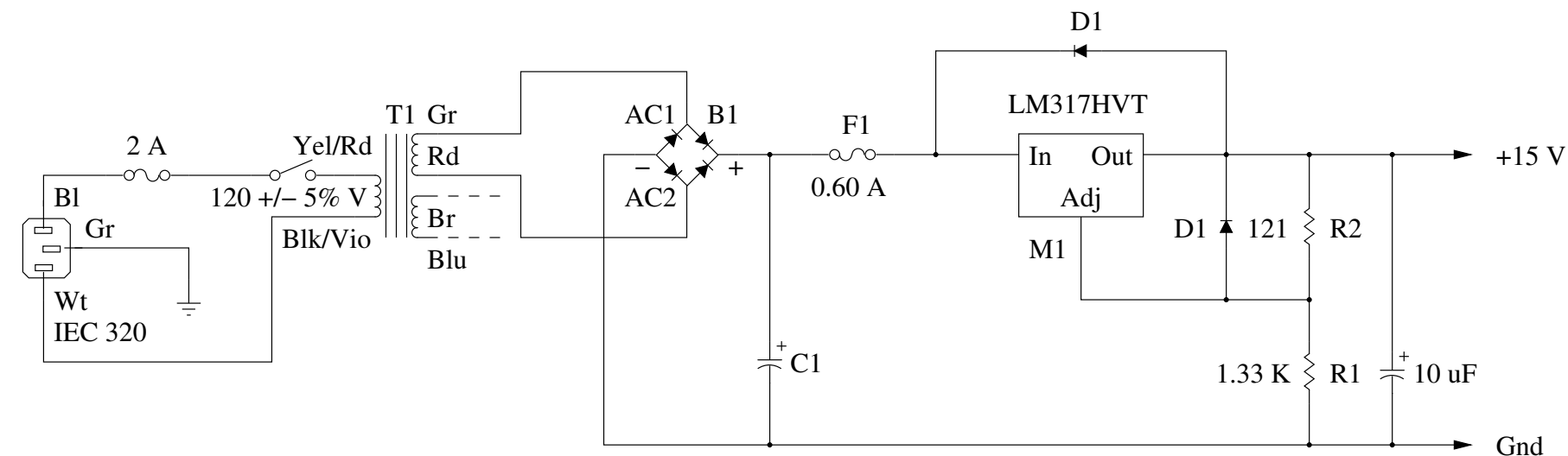


B1: $((1.05 * 20.7 * \sqrt{2}) - (1.1 * 2)) / ((20.7 - 18) / 1.338) = 14.14$ A short circuit current

M1: 5 C / W, Tab is Out, 2.5 V drop out, $1.2 \text{ V} \leq V_{\text{Adj}} \leq 1.3 \text{ V}$

T1: $(1.05 * 20.7 * \sqrt{2}) = 30.74$ V maximum voltage

B1: $V_f = 1.1 \text{ V}$ @ 35 A, per leg



Total: \$52.31

M1: National LM317HVT, 60 V, 1.5 A, (Allied 288-1247,) \$1.82

D1: 1 A, 100 V, Vishay/General 1N4002, (Allied 568-0432,) \$0.10

Fuse Holder, Dual 3AG, Keystone Electronics 3524, (Allied 839-3552,) \$2.59

F1: 0.6 A, 250 V, Fast Acting, Littelfuse 312.600P, (Newark 26K8442,) \$0.19

Kit mounting hardware TO-220, Keystone 4724, (Digi-Key 5724K-ND,) \$0.93

10 uf, Tantalum, 35 V, +/- 10%, AVX TAP106K035SCS, (Newark 19C6247,) \$1.24

Switch, Rocker, SPST, Cherry Electrical SRB22A2DBBNN, (Allied 908-0103,) \$0.58

IEC 320 Power Input Socket, Aualtek Electronics 703W-00/06, (Allied 689-3506,) \$0.62

T1: 18 V @ 1.388 A per secondary, 20.7 V @ 0 A, Amveco 62084, (Digi-Key TE62084-ND,) \$18.83

B1: Rectifier bridge, 35 A, 100 V, $V_f = 1.1 \text{ V}$, International Rectifier GBPC3502A, (Newark 18C4369,) \$3.34

C1: 4700 uF Electrolytic, +/- 20%, 63 V, 3.0 A ripple, 0.063 ESR, Panasonic ECO-S1JA472, (Digi-Key P7485-ND,) \$5.84

-----> -15 V