

Schematix RCD Tester

Component List:

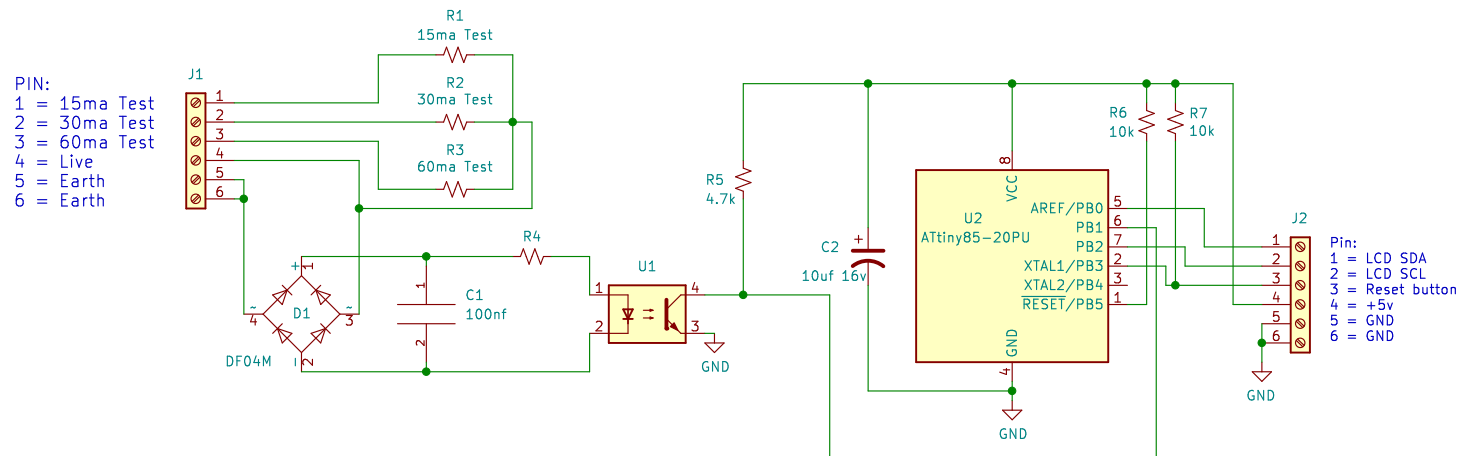
C1: 100nF 630VDC Polyester Capacitor, Pitch: 14mm
C2: 10uF 16vdc Electrolytic Capacitor, Pitch: 2mm
D1: FULL BRIDGE RECTIFIER! Package: DF04M
J1: 3x 2way Screw Terminals, Pitch 5.08mm
J2: 3x 2way Screw Terminals, Pitch 5.08mm
R1: 2W Carbon Film Resistor
R2: 2W Carbon Film Resistor
R3: 2W Carbon Film Resistor
R4: 1/2W Metal Film Resistor
R5: 1/2W Metal Film Resistor 4.7k ohm
R6: 1/2W Metal Film Resistor 10k ohm
R7: 1/2W Metal Film Resistor 10k ohm
U1: PC817 OptoCoupler, Package: DIP-4
U2: ATtiny85-20PU, Package: DIP-8
DIP-8 Socket for ATtiny

220 – 240VAC Resistor Values:

R1 = 15K ohm 2W Resistor (15ma test)
R2 = 6.8K ohm 2W Resistor (30ma test)
R3 = 3.9K ohm 2W Resistor (60ma test)
R4 = 220k ohm 1/2W Resistor

100 – 120VAC Resistor Values:

R1 = 7.5K ohm 2W Resistor (15ma test)
R2 = 3.3K ohm 2W Resistor (30ma test)
R3 = 2.2K ohm 2W Resistor (60ma test)
R4 = 100k ohm 1/2W Resistor



youtube.com/c/schematix

Safety Warning:

Please be aware this circuit uses high voltage AC & DC power.
Please exercise caution when the circuit is powered & take appropriate safety precautions.
Don't be reckless with High voltage! It can lead to damage to property, injury or even a fatal shock.
If you choose to build or replicate what you see in the video you are doing so at your own risk/responsibility!

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