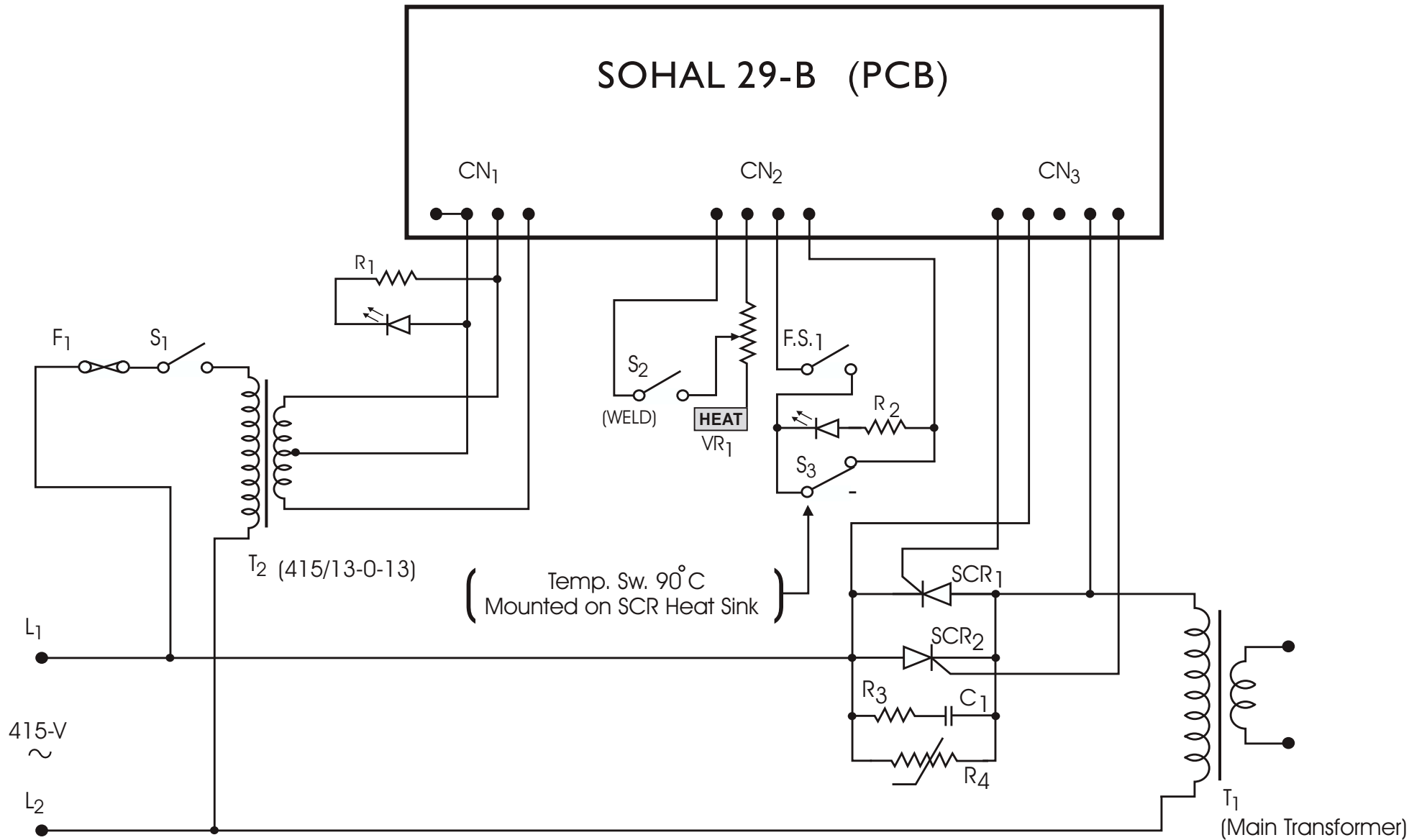
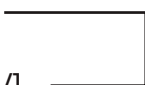


CIRCUIT DIAGRAM OF RESISTANCE HEATING MACHINE



Componet	Part No. [Value]	Purpose
T ₁	[415-V , ___KVA]	Main Transformer to supply current for heating the iron rod.
T ₂	[Pr. 415 Volts Sec. 13-0-13 Volts]	Supply power to PCB control card.
SCR ₁ & SCR ₂	USHA make T370SF14DU [370 AMP. 1400 Volts]	Control's the voltage supply to Main Transformer.
S ₁ & S ₂	[SPST 10AMP. 230-V]	Toggle Switches.
S ₃	Thermostat [90° C (Normally Closed)]	Mounted on SCR Cooling Fills to provide protection against over heating.
F.S ₁	B.C. H. make (FSG x 1)	Foot Switch for operation.
F ₁	[2.5 AMP.]	For protection against overload.
R ₁	[1K, 0.5 W]	
R ₂	[4K7, 0.5 W]	
R ₃	[47R, 2 W]	
R ₄	[VDR 510/20] 	Proction of SCR's from voltage spikes
C ₁	[0.1μF , 2000-V]	
VR ₁	[100K Lin , 23 mm]	