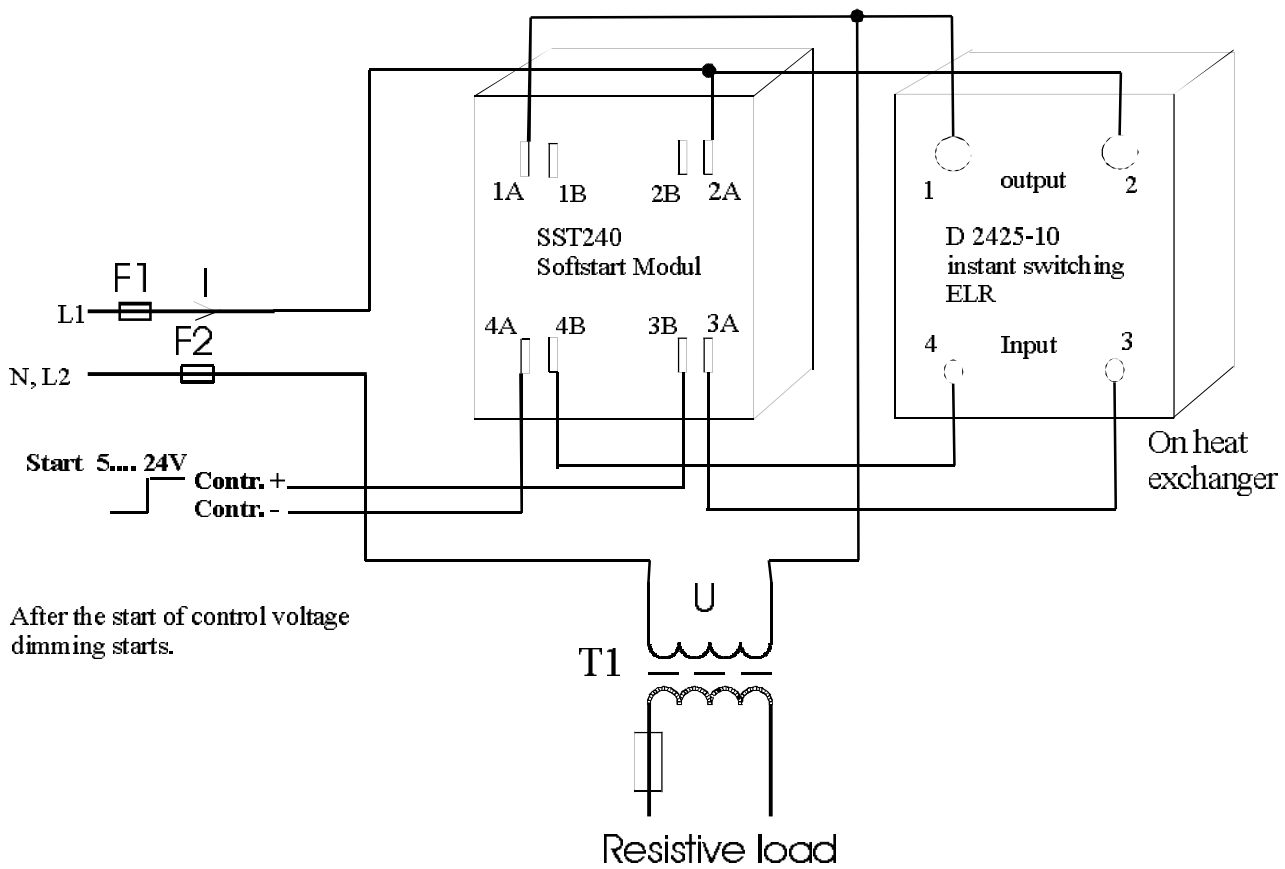
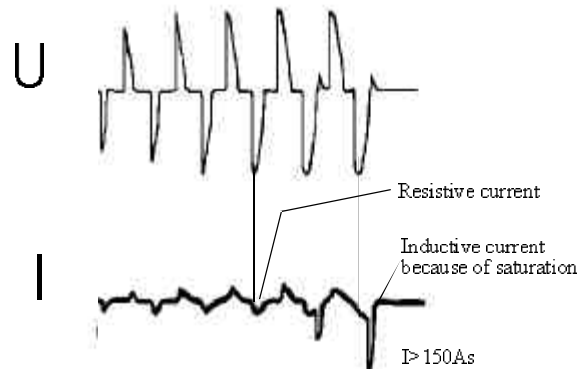
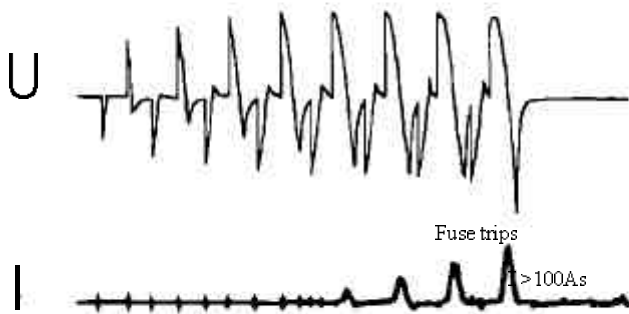


# Transformer softstart with a dimmer



1kVA EI Transfo, 1,3 tesla Ind. with progressive sym. Dimming switch on  
Current peaks when Transfo is not full loaded

1kVA Toroid softstarted with progressive sym. dimming  
Loaded with nominal load.  
Transformer is going into saturation.



All measurings are made on primary coil at 230V

Disadvantages of Softstart by a dimmer:

need a cooling element

depending of Remanence position in the core while start an inrush occurs.

When start in no load state big inrushes are produced

Toroid transformers cannot be softstart with a dimmer, dont care of loaded or no loaded.

A rest of phase angle cut stays after full on and give noise.

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EMEKO Ing.Büro Freiburg, 28.03.00