



T and F controllers

T and F have several digital controlled functions:

The controller senses the voltage symmetry. It engages a start capacitor bank when the manufactured phase voltage is below a threshold and disengages again when it is above another threshold. Starting load motors are supported with high start-up currents, motors in machines start fast. A time-out protects the controller's SCR in case of a locked motor.

Two (T) or three (F) additional SCRs engages a group of binary weighted run capacitors when the manufactured phase voltage is below a threshold and turns off again when above another threshold.

Supply and output voltages can be 230V, 240V, 400V, 415V.
Thresholds are relative to the supply voltage, not absolute.
Switching is performed at zero crossing moments in sine waves.

Throughputs:

4kW
8kW
16kW
24kW
32kW
48kW
64kW
100kW
150kW

Voltage precision and symmetry:

T controllers: $\pm 5\%$
F controllers: $\pm 2\%$

Large controllers have trimpots for thresholds

Converter schematic and capacitor specifications are supplied with controllers

