

3547860 FERRANTI ELECTRIC INC

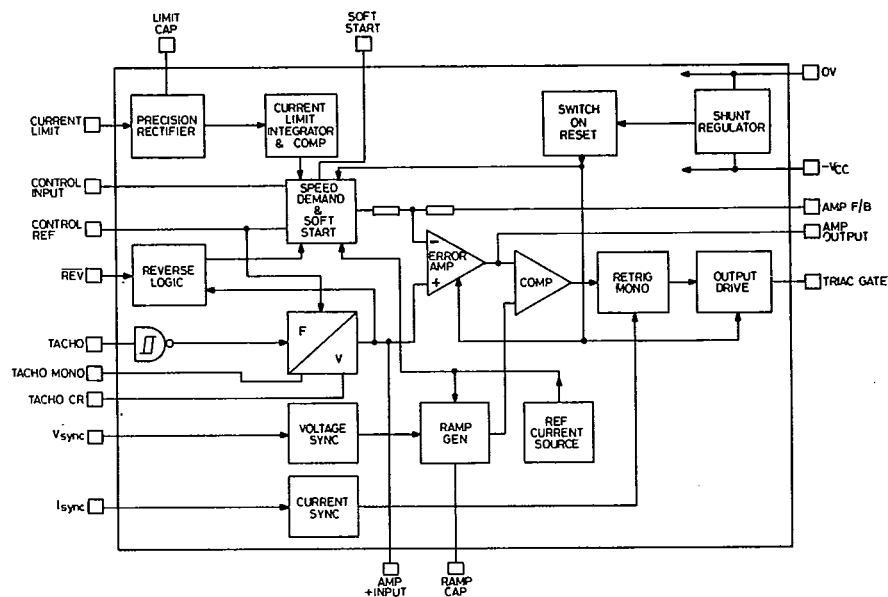
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CONTROL CIRCUITS**UNIVERSAL MOTOR SPEED CONTROLLER****ZN411****DESCRIPTION****T-52-13-25**

The ZN411 is a monolithic silicon integrated circuit designed for the purpose of closed loop speed control of Universal Motors for use in power tools, food mixers, vacuum cleaners etc. The I.C. will also function in open loop and with both resistive or inductive loads in a multiplicity of phase control applications, e.g. heating and lighting controllers. The device is available as the ZN411E in an 18-pin plastic package (E18).

FEATURES

- Direct supply from a.c. mains or d.c. power source
- On-chip shunt regulator
- Low external component count
- Soft start ramp circuit
- Circuit reset on power down
- Negative triac firing pulses
- Triac retrigger facility
- Current limit
- Guaranteed full cycle conduction with inductive load
- Tacho input compatible with hall effect switch devices
- Open or closed loop operation



System Diagram

IC55