

REFLEX[®] MODEL 245 REGENERATIVE FIRING CIRCUIT
PART NUMBER 12M03-00135-01
APPLICATION NOTES

1. The circuit can be used to fire at least two thyristor configurations, the dual eight-thyristor full wave bridge or a four-thyristor bridge supplied from a center-tapped transformer.

The REFLEX Model 253 eight-thyristor bridge is recommended, and includes isolated pulse amplifiers. This is shown in simplified schematic diagram AN-0142.

The REFLEX Model 254 four-thyristor bridge with isolated pulse amplifiers provides a cost-effective alternate for three horsepower and below, but requires a center-tapped transformer having 240V AC each side of center. This is shown in simplified schematic diagram AN-0147.

2. The AC supply to this assembly must be connected to the same AC phase as the power being supplied to the thyristor bridge, and relative polarities between the two inputs must be observed.
3. If other functions such as Tachometer Feedback or Dancer Position Control, as shown in schematic diagram AN-0145, are required, the full output of the appropriate REFLEX module should be connected to terminal 10. In this case the jumper from terminals 9 to 10 is not used.