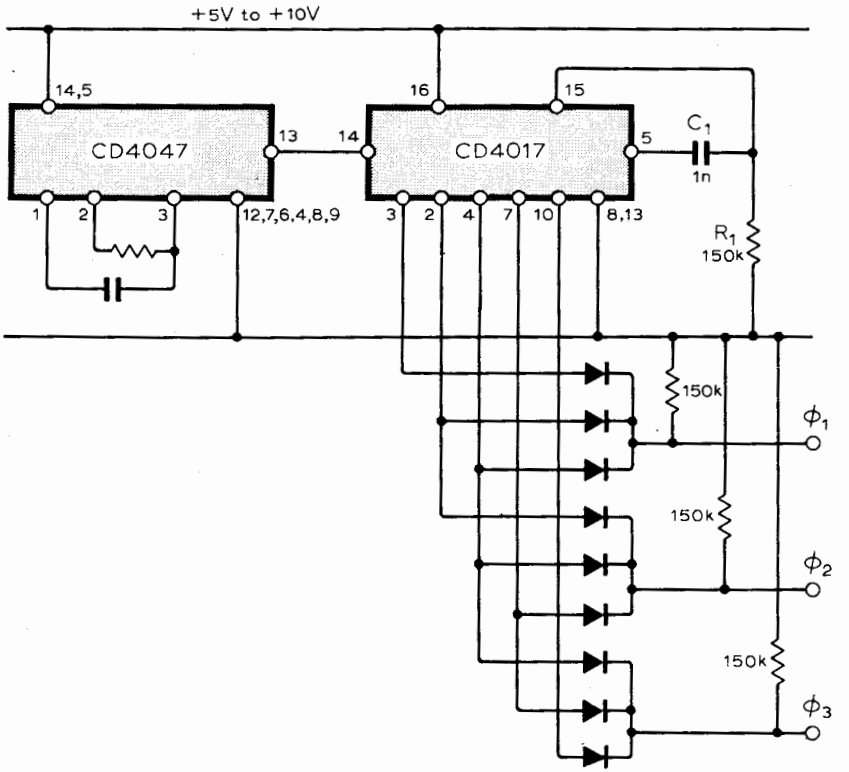

Three phase generator

This circuit was designed to provide three outputs, phase shifted by 120°, to drive a low voltage three-phase supply for a linear motor. The CD4047 is used as a clock at six times the required frequency. This drives a one-of-ten decoded counter which is reset after a count of 6 by R_1 and C_1. The appropriate outputs of the CD4017 are combined via diodes to produce three phase-shifted square waves. The circuit can easily be adapted to give a wide range of phase related outputs by altering the diode network and reset pulse.

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