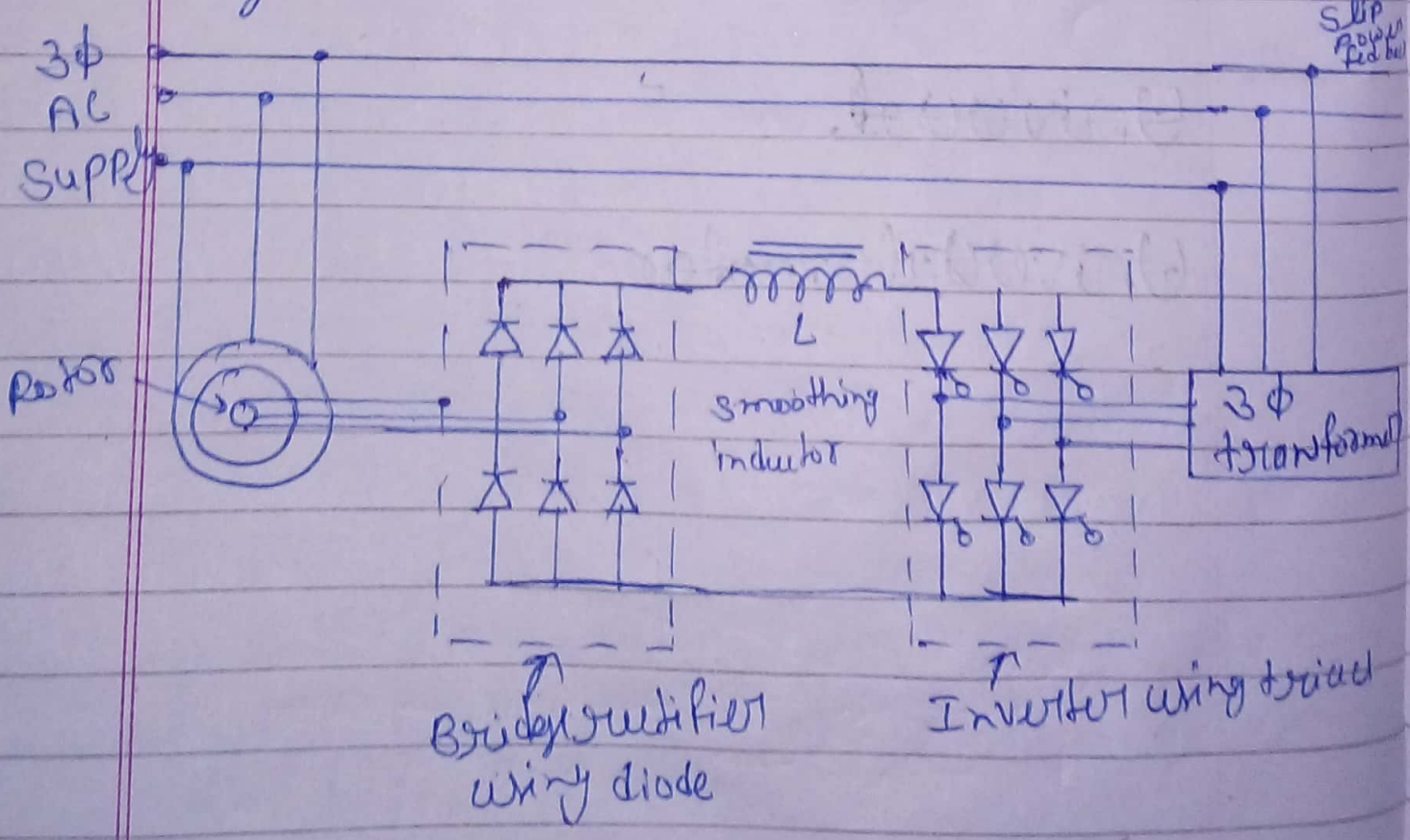
③ The slip power SP_g for an induction motor is positive for sub-synchronous speed, because slip s is positive; but it is negative for super-synchronous speed. Various schemes have been invented for recovering the slip-freq^n power.

It is posible to recover the slip power from the the rotor & fed back to the supply using static devices.

Such a method is called slip power recovery scheme of controlling the speed of the I.M. It is also called static scherbius system.



This DC o/p of rectifier is given as the i/p to a line commutated inverter using triacs. The inverter converts DC power to the AC power.

As the slip power flow only in one direction, this method offers speed control below Sync speed only. This method provides a constt torque control.

This drive is more popular for adjustable speed drive because it provides a constt torque control.

Application- It is used in large power fan & pump drives which require speed control in narrow range.