Abstract

Slip ring induction motor is used as a variable speed drive in SERIM scheme. The speed of SRIM can be easily controlled by simple & primitive method, mechanically variation of rotor circuit resistance. This method of speed control has is very inefficient because the slip energy is wasted in rotor circuit resistance. However, several advantages of this method are as absence of in-rush starting current, availability of full rated torque at starting, high line power factor, absence of line current harmonics, and smooth & wide range of speed control. This wasted
power can be utilising by so many techniques are available like chopper control, Static Kramer Drive and static Scherbius drive. This paper deals with the slip energy recovery scheme using power electronic based converter technique of power recovery and energy saving with thyristor control is achieved, the simulation is made in MATLAB environment.

References

Index Terms

Computer Science  Applied Sciences

Keywords

Slip Ring Induction Motor  slip Power Recovery.