

2.05. SWITCHED RELUCTANCE MOTOR

(UA patent № 107247)

Switched reluctance motors (SRM) are intended for the use in municipal sector, household appliances, etc.



An existing SRM prototype of 6/4 configuration based on asynchronous motor using a converter with C-dump and oscillation energy return revealed the following advantages over asynchronous motors:

- depending on the power, the efficiency ratio is 1 ... 7% higher than in asynchronous motor;
- adjustable speed range of the motor– 1:5;
- smooth start;

growth of electromagnetic moment of the SRM with a speed-down.