Sensorless Brushless DC Motor Drive

Objective:

To development a low-cost sensorless brushless DC motor drive for HVAC systems

System configuration:

![System Configuration Diagram]

Feature:

- Low cost with minimum device count;
- The inverter is realized with one DIP IPM;
- Control power is derived from dc bus;
- One control chip is used to realize sensorless control.

Prototype:

![Prototype Image]

Experimental result:

![Experimental Result Image]