

### DESCRIPTION

The AGV8009 is a full featured single phase brushless DC fan/motor pre-driver. Closed loop feedback allows for precise control of the motor's RPM under varying supply and load conditions.

Maximum RPM is programmable via an RC time constant. Precise variable speed is adjusted by varying the duty cycle to the PWM control input pin. This allows the AGV8009 to interface with industry standard digital temperature sensors. Minimum RPM is programmable via a resistor divider to Vref. The analog control pin can be used to interface with a thermistor when the PWM input control is not needed.

Soft start reduces inrush current at power on. Soft switching reduces audible noise. Current limit, locked rotor and thermal protections are also provided. The 40V MOS output predrivers can source or sink 100mA.



### FEATURES

- Precise variable speed control for 4-wire fans
- Closed loop RPM control
- Programmable max and min RPM
- Soft start to reduce inrush current
- Soft switching to reduce audible noise
- Current limit protection
- Locked rotor detect and auto-retry
- Integrated Hall amplifier
- Interfaces with standard digital temp sensors
- Available in 16 lead SOIC and QSOP  
RoHS=compliant packages

### APPLICATIONS

- PCs, workstations, servers
- Industrial fans and blowers

