

CONSTANT SPEED (CS) OVER WIDE VOLTAGE RANGE

What Is CS?

It is the feature by which the fan motor can be programmed to run at a pre-selected speed over a voltage range, while its speed remains constant and independent of that supply voltage range.

Why (CS)?

1. For energy conservation and minimum disturbance in a variable power supply environment such as a battery operated system which may change in voltage from minimum (depleted) to fully charged battery voltage conditions (typically 40~56V for a 48V Lead Acid battery system).
2. To program the fan motor so that maximum static pressure can be obtained. Alternately to program the fan motor to yield optimum results for a given system impedance. (See EFFICACY)

Easy To Program The CS Mode Against Power Supply Variations Externally

- 1 Increase the power supply to maximum operating voltage.
- 2 By external resistor reduce the RPM to the desired speed level. (See Fig. 1)

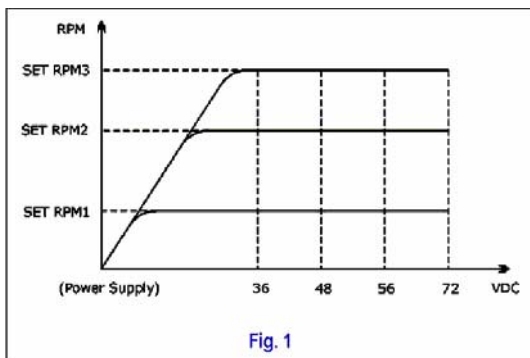
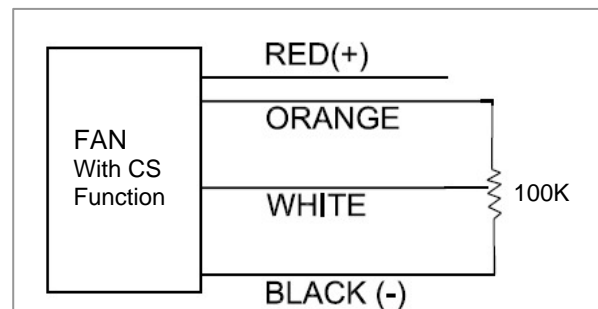


Fig. 1



EASY TO PROGRAM THE CS MODE TO OBTAIN HIGHER STATIC PRESSURE

At the rated voltage applied reduce the RPM to the desired level. By reducing your fan motor free air speed by about 10%, the maximum static pressure after the reduction of speed will be the same as the fan motor had prior to its speed reduction. The fan motor with its speed reduced in free air will maintain the same speed in its effort to counteract any increases in the system's impedance. (See Fig. 2)

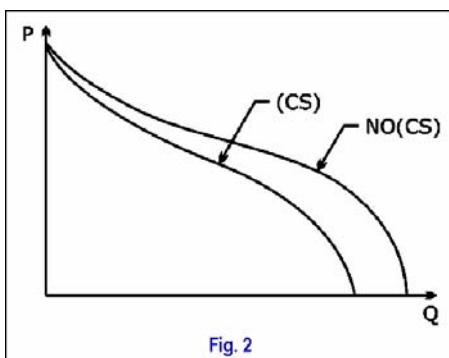


Fig. 2

