

Digital Signage For Fast Food Drive-through Menus

Description

Digital signage leverages technologies such as LCD, LED, and projection to display digital images and video.

Fast food drive-through signage is gaining popularity as a tool for increasing sales by introducing promotions in addition to displaying the restaurant's menu. The major difference between this technology and existing menu display boards is that display contents can easily be changed in a timely manner to meet regional needs.

In recent years, installation has become widespread, and there is strong demand for decreasing energy consumption and noise. As a result, fans with low power consumption and low noise are required.



SANYO DENKI



Low Power
Consumption

San Ace 80

9GA type

SANYO DENKI Proposal

■ 9GA0812P1S61 / Low Power Consumption Fan / 80 × 80 × 38 mm / 12 V / PWM control function / 40,000 h @ 60°C / 16 units

Purpose: Cooling the back side of displays installed indoors

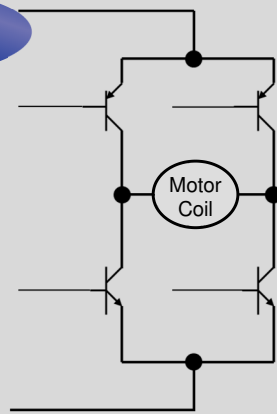
Features

■ Lower power consumption

Bipolar windings reduce loss and improve efficiency within the driving circuits.

Low Power Consumption Fan

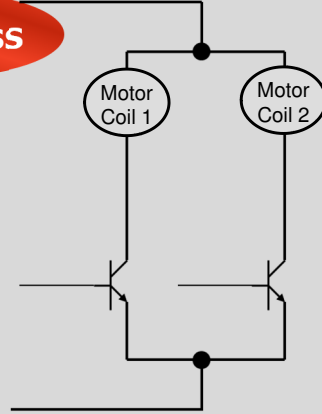
Low loss



Bipolar driving method

Conventional fan

High loss



Unipolar driving method

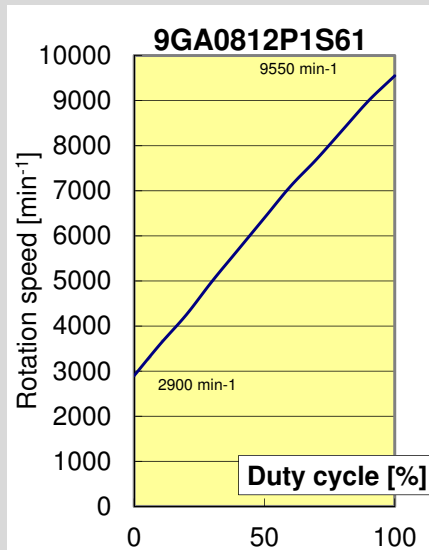
■ PWM control function

PWM control function controls the rotational speed of the fan by changing the duty cycle.

↓
Sets an optimal rotational speed in accordance with the temperature.

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Reduces power consumption by setting a low rotational speed.

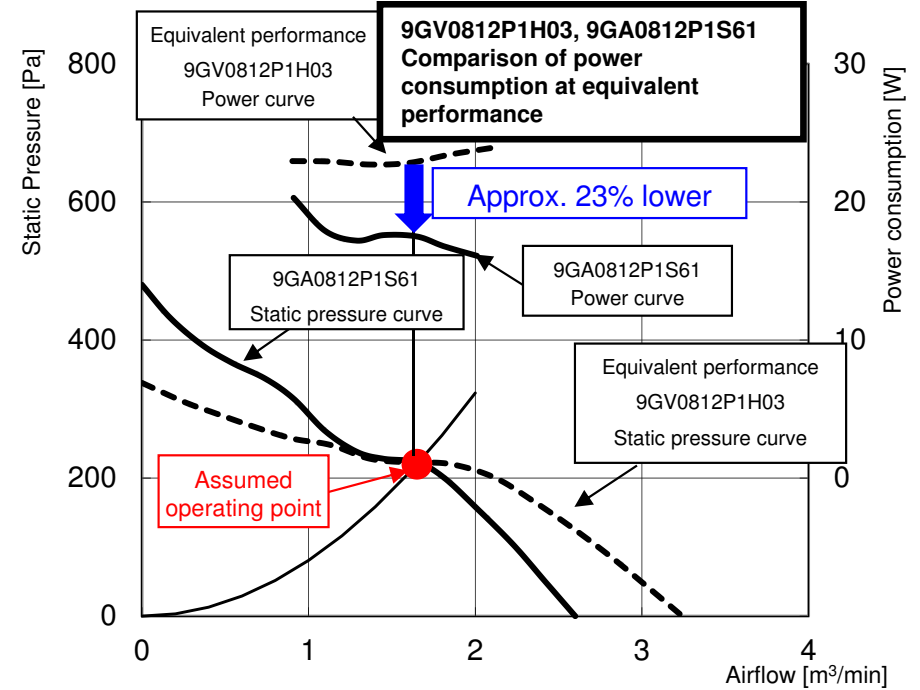
PWM Duty - Speed Characteristics



Merits

■ Reduces device power consumption

With the 9GA type at its optimal cooling performance near the operating point, power consumption can be reduced.



■ Lowers device noise

By using the optimum speed to suit conditions, low noise can be attained.

9GA0812P1S61 Sound pressure level comparison

■ 0% duty cycle ■ 100% duty cycle

