

ANPEC Always Around



ANPEC Fan 5V Driver IC Line up

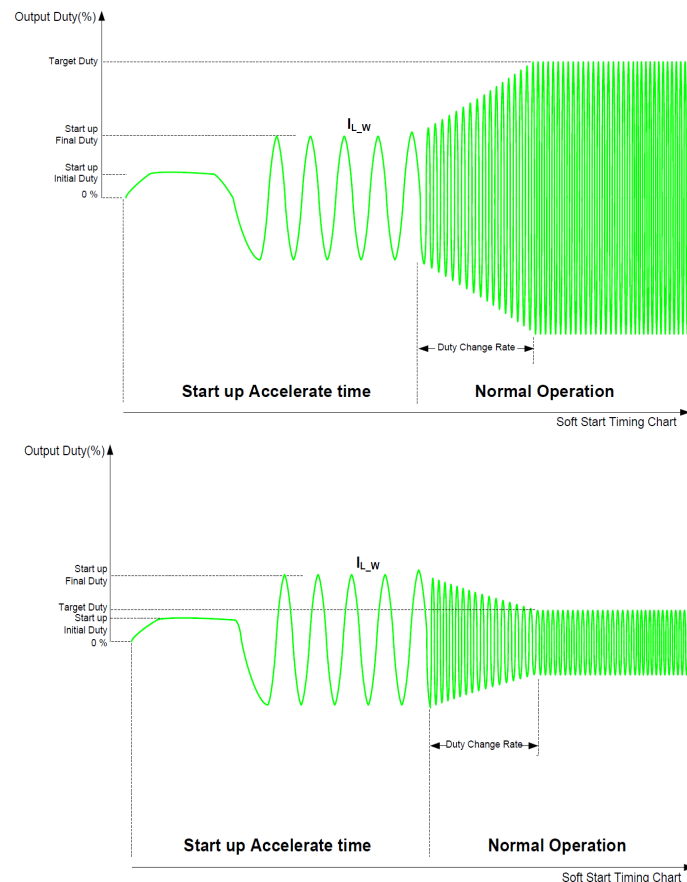
2024/10/14

APX9351 - 5V 0.8A(continued @70°C), 3-phase sensor-less driver

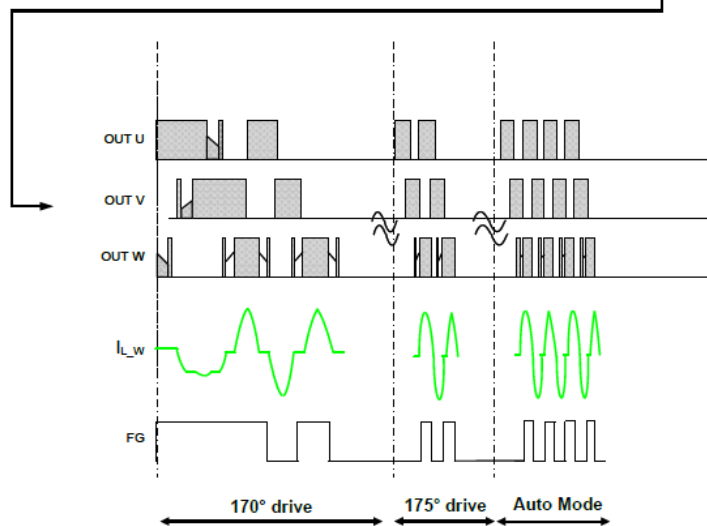
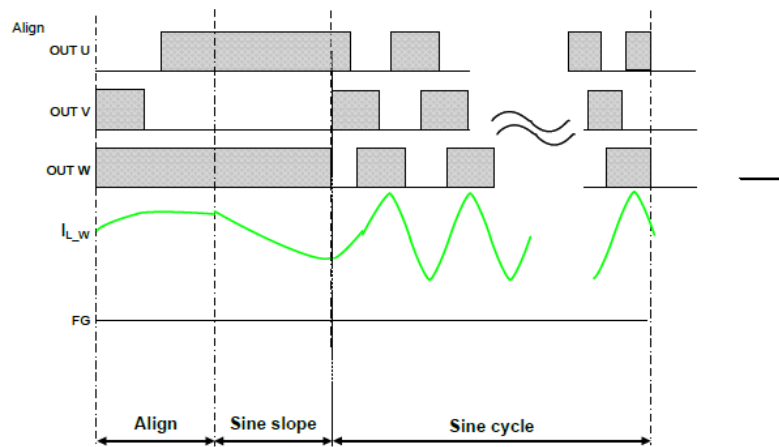
Feature

- PWM Sine-Wave Driver(175°)
- **Sine wave to start-up**
- **Auto LA Function**
- Adjustable Forced Commutation Frequency (for Start-up)
- Built-In External PWM Speed control
- **FG(4P, 6P, 8P, 12P)**
- **Power Saving Function (standby current < 20uA)**
- Built-In Lock Protection and Auto Restart Function
- Built-in Thermal Protection Circuit
- Lead Free and Green Device Available (RoHS Compliant)
- **MAX RPM 40000(9S12P 7000RPM)**
- **NB Fan application**
- Package XTDFN 3X3-10

Soft Start (sine wave)



APX9351

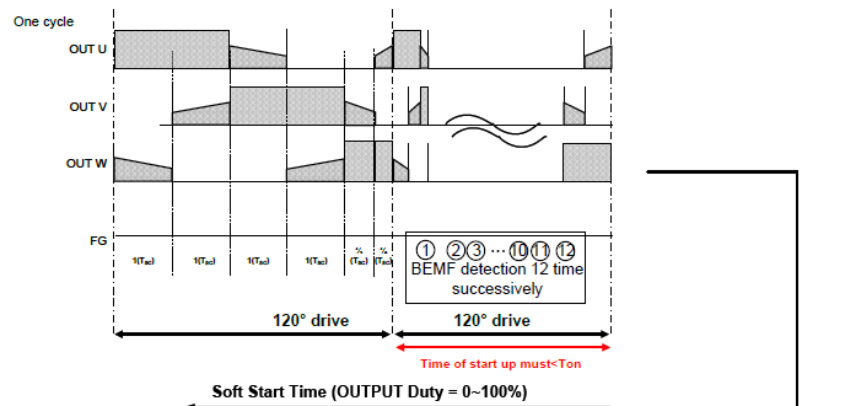


*The picture is for reference only, please refer to the motor.

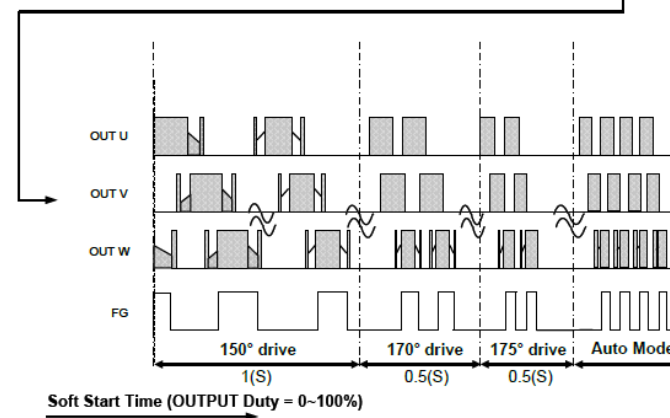
APX9331B

Function Descriptions (Cont.)

Start-Up (Cont.)



Soft Start Time (OUTPUT Duty = 0~100%)



Soft Start Time (OUTPUT Duty = 0~100%)

*The picture is for reference only, please refer to the motor.

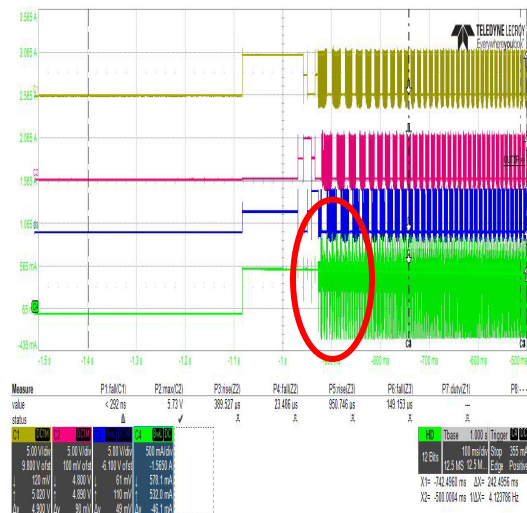
Acoustic noise & Vibration performance

Start Up

Normal

Best

Square full duty start



Full Duty起動

APX9365A
APX9360A
APX9331

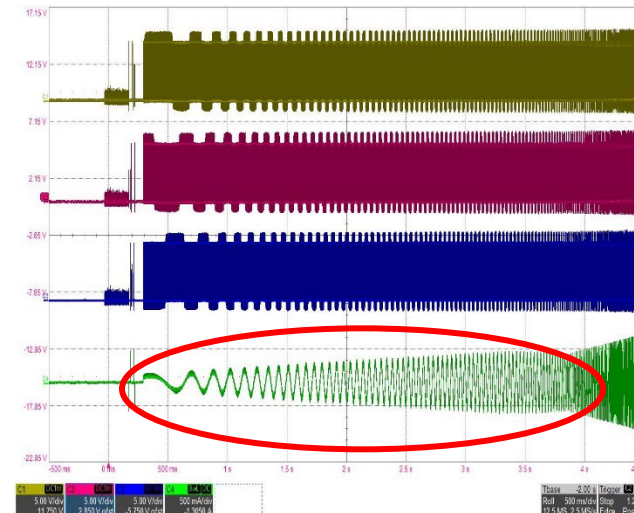
Square Soft Start



Soft Start起動

APX9331B
APX9332

Sinewave & Soft start



Soft Start起動 (弦波駆動)

APX9357
APX9351

5V 3Phase Product Pool

Item	APX9358E	APX9361	BD67173	APX9351
Operating Voltage Range (V)	1.8V~6V	1.8V~6V	2.2V~5.5V	1.8V~6V
Iout Current	400mA	400mA	?	820mA
FG	FG	FG	FG	FG/ 1/2FG / 2/3FG 1/3FG
driving angle	175°	175°	150°	175°
Rdson	1.2ohm	0.8ohm	1ohm	0.65ohm
MAX RPM	15000RPM	20000RPM	?	40000RPM

PIN Configuration

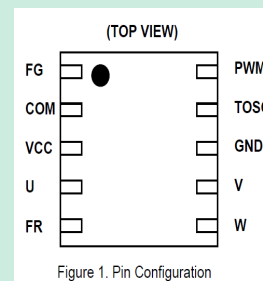
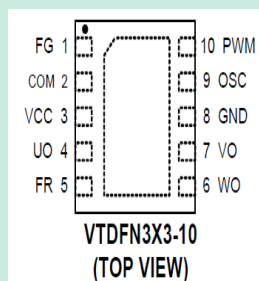
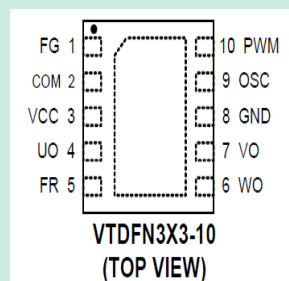
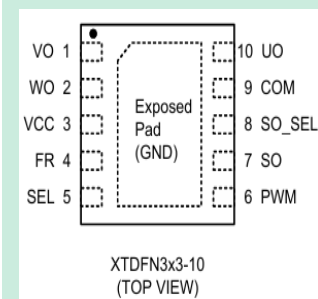
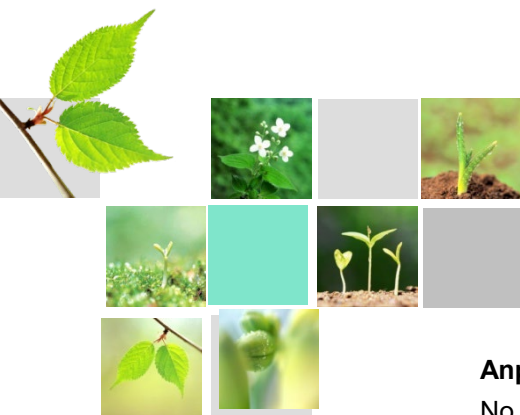


Figure 1. Pin Configuration



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