



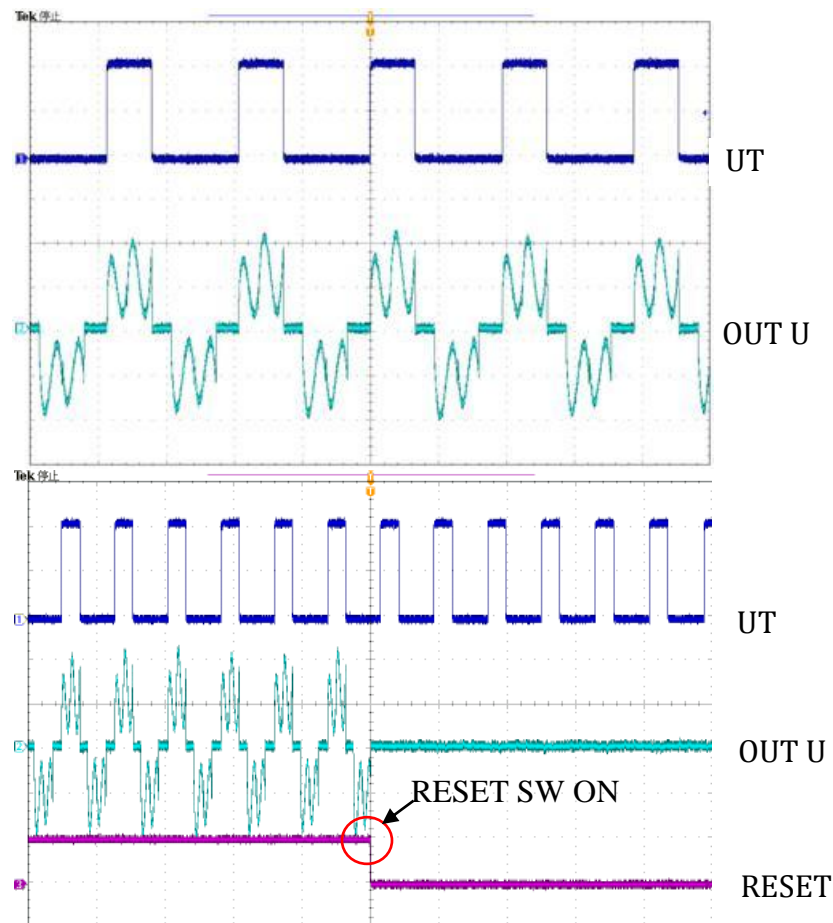
Test Procedure for the STK984-091AGEVB Evaluation Board

[Supply Voltage] VB1 (8 to 18V): Power Supply for 3-phase motor & Driver IC
 Vcc (5V): Pull up Power Supply for DIAG1, DIAG2

[Operation Guide]

1. Motor Connection:
 Connect the motor to OUT U and OUT V and OUT W.
2. Power Supply:
 At first, supply DC voltage to VB.
 Next, supply DC voltage to Vcc.
3. Motor Operation

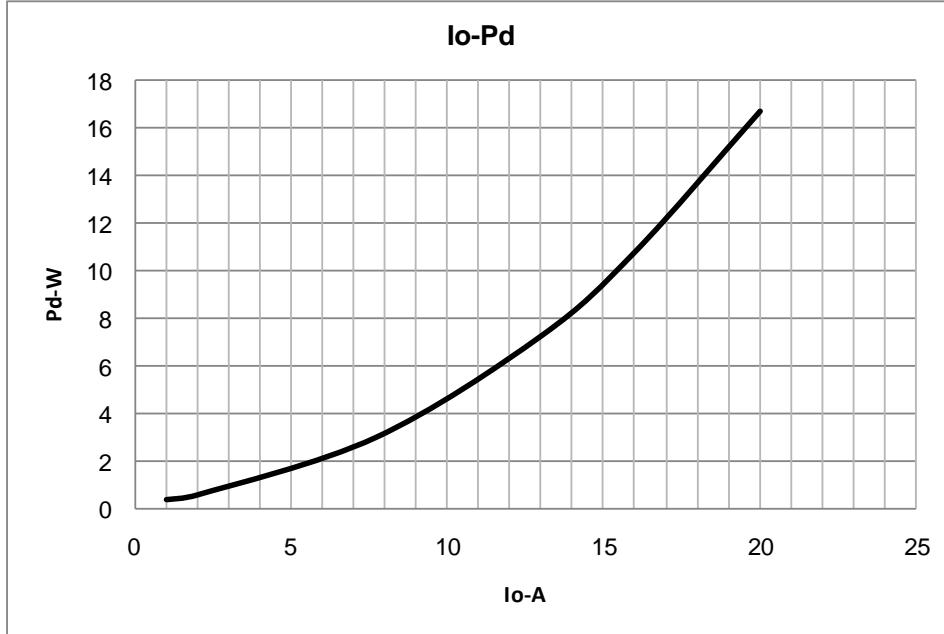
Waveform example





Heat radiation fin design

- 120-degree energization
- PWM frequency:20kHz
- Phase change frequency:400Hz
- ON Duty:90%



Thermal resistance calculation formula for Heat sink is as follows:

$$R_{th} = (T_c - T_a) / P_d$$