



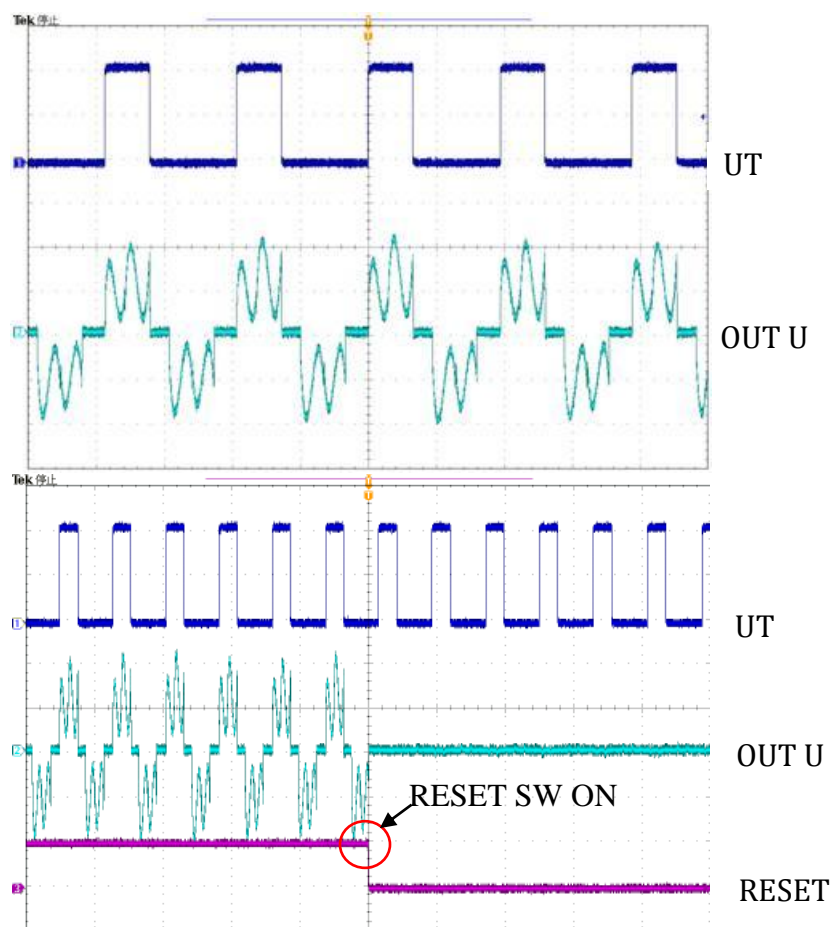
## Test Procedure for the STK984-091AGEVB Evaluation Board

[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

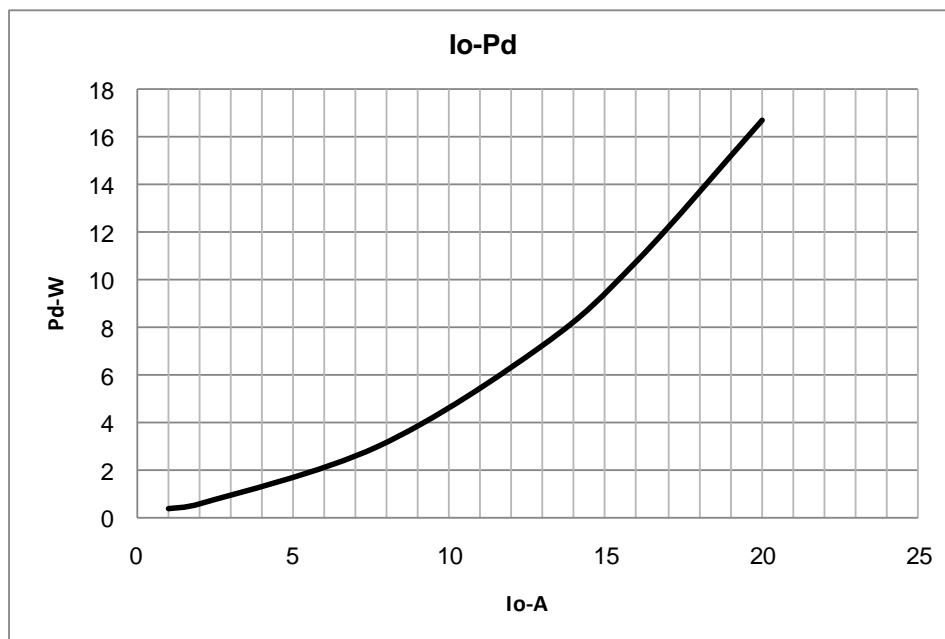
### Waveform example





## 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:

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