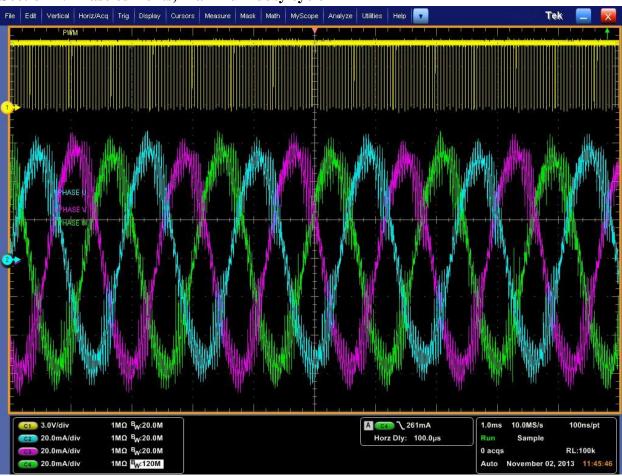# 5V, 3-Phase, Sensorless, Sinusoidal Motor System With Variable Speed Control

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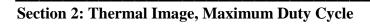Motor Waveform Data (Tests performed with common 5V motor, no load)
1. Phase currents, Maximum duty cycle
2. Thermal image, maximum duty cycle
3. Phase currents, 75% duty cycle
4. Thermal image, 75% duty cycle
5. Phase currents, 50% duty cycle
6. Thermal image, 50% duty cycle
7. Phase currents, 25% duty cycle
8. Thermal image, 25% duty cycle
9. Phase currents, 5% duty cycle
10. Thermal image, 5% duty cycle

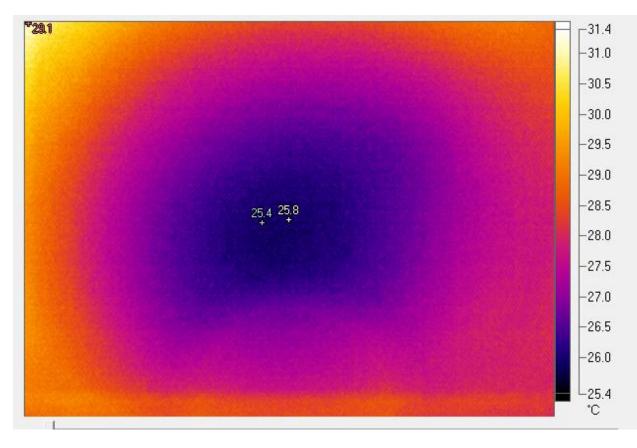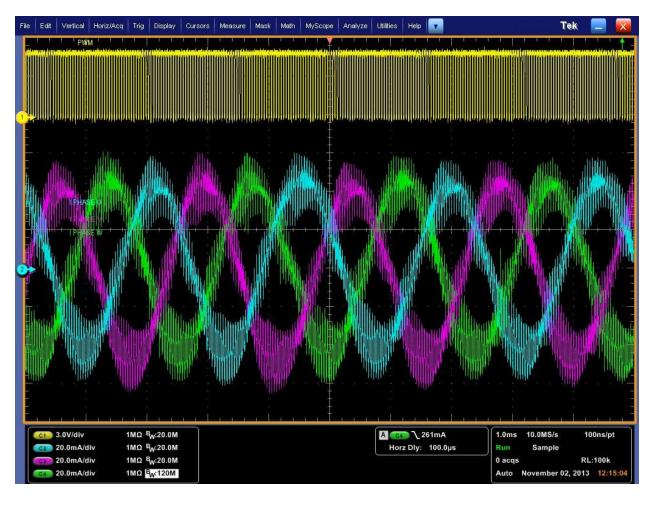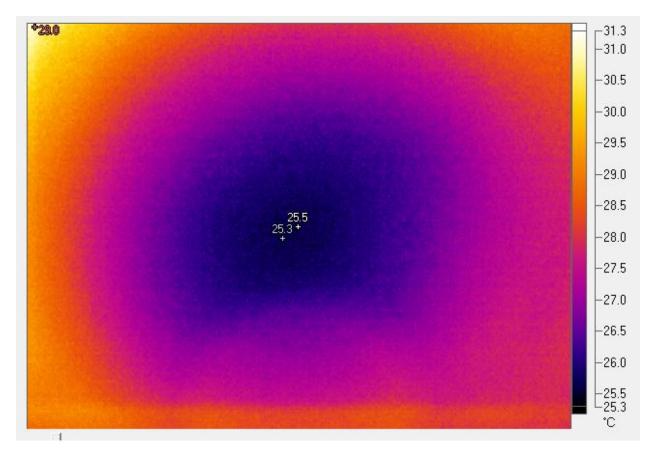## Section 1: Phase currents, Maximum duty cycle

Section 2: Thermal Image, Maximum Duty Cycle

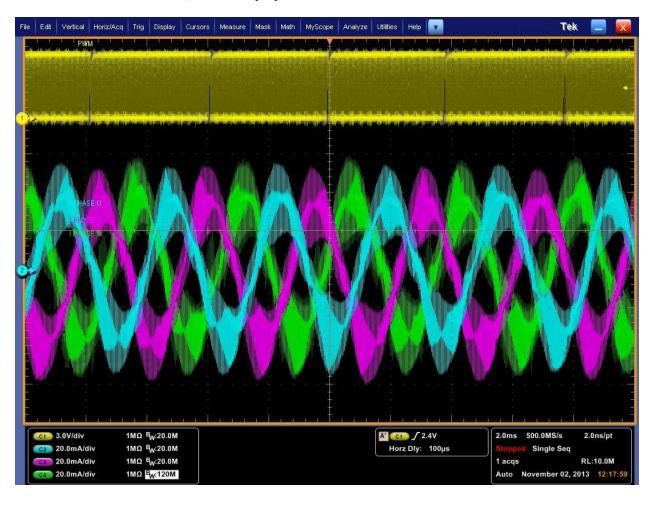## Section 3: Phase currents, 75% duty cycle

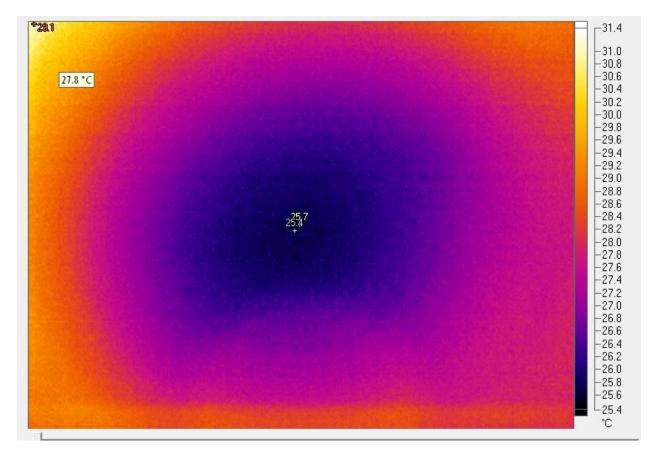**Section 4: Thermal Image, 75% Duty Cycle**

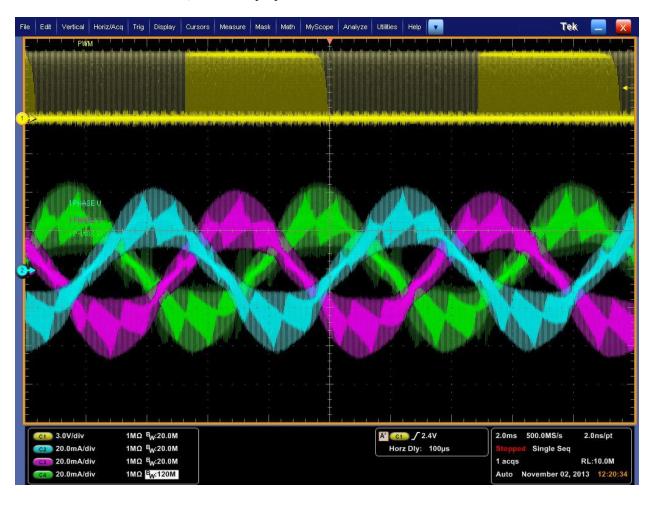## Section 5: Phase currents, 50% duty cycle
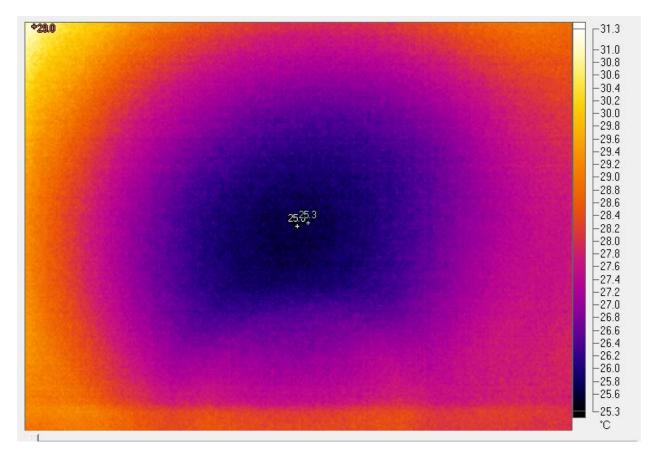
Section 6: Thermal Image, 50% Duty Cycle

Section 7: Phase currents, 25% duty cycle
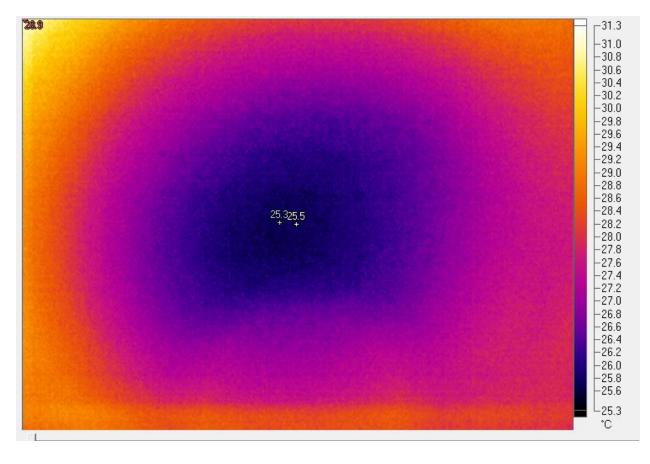
Section 8: Thermal Image, 25% Duty Cycle

Section 9: Phase currents, 5% duty cycle

Section 10: Thermal Image, 5% Duty Cycle

IMPORTANT NOTICE AND DISCLAIMER