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Forum: [16-bit PIC24/dsPIC](#)

Topic: [MCHV-2 Development Board 與 an1160 code 驅動三項 motor 的反電動勢量測](#)

Subject: [Re: MCHV-2 Development Board 與 an1160 code 驅動三項 motor 的反電動勢量測](#)

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For AN1160, the #define BLANKING\_COUNT can avoid the wrong zero-crossing detection. Please increase the value and to see if it works.

附加檔案:

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```
50 //motor startup defines
51 #define STARTUP_DUTY 4800 //forced duty at startup, FOC and FVWM dependent
52 #define ROTOR_ALIGN_T 1000 //in ms, time to allow the rotor to sync, do not set too high
53 #define STARTUP_RPM 600 //Final RPM after startup, this becomes the minimum RPM
54 #define STARTUP_START_T 200 //in ms - from where to start, never start from zero
55 #define STARTUP_T_RAMP 15000 //in ms - ramp total time
56 #define STARTUP_T_SUST 200 //in ms - after ramp, sustain time
57 #define STARTUP_MAX_C 200000 //take it from edge
58
59 //motor definitions
60 #define MAX_RPM 3500 //motor RPM without any phase advance
61 #define POLE_PAIRS 6 //Number of pole pairs of the motor
62
63 #define BLANKING_COUNT 50 //Blanking count expressed in PWM periods used to avoid false zero-crossing detection after commutating motor
64 #define RPM_STALL_LIMIT 14000 // If no ZEMF signal is detected for (RPM_STALL_LIMIT * BLANKING_COUNT) * 50 us then it is assumed the rotor is stalled
65
```