

Dear Professor,

The MATLAB_code folder contains all the files that run in MATLAB. EROA.m is the innovative algorithm file, fun_info.m is the algorithm test function file, and main.m is the main function file. It is recommended to run the above code in MATLAB 2018b or above in order to observe the effectiveness of the algorithm solution.

The CCS_control_code folder contains all the files that run in CCS. The EROA algorithm code is in the HVPM_Sensorless.c file. The Sensorless FOC of PMSM_F2833x.pdf in the ~Docs folder is the official operating manual provided by TI. The above code runs with the official CCS12.3.0 and controlSUITE provided by TI.

The raw data file.xls file contains the raw data collected from the permanent magnet synchronous motor.

Yours sincerely,

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