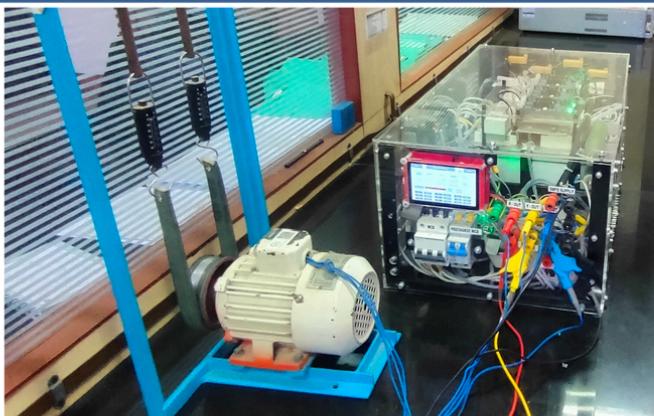


3 Phase Induction Motor drive for E Vehicles

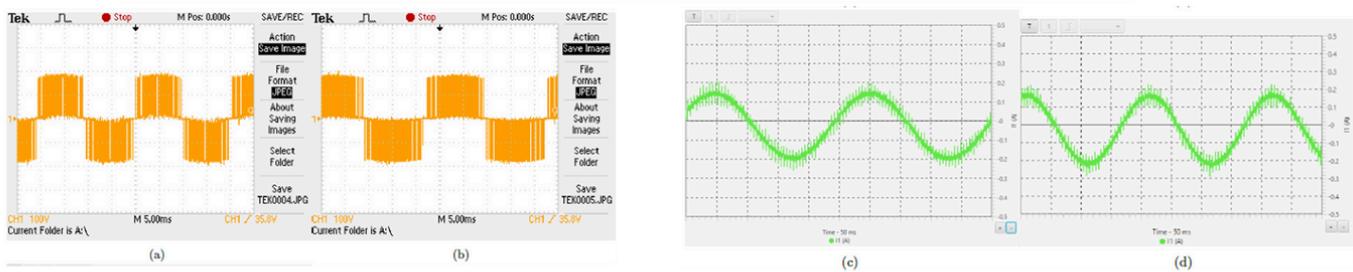
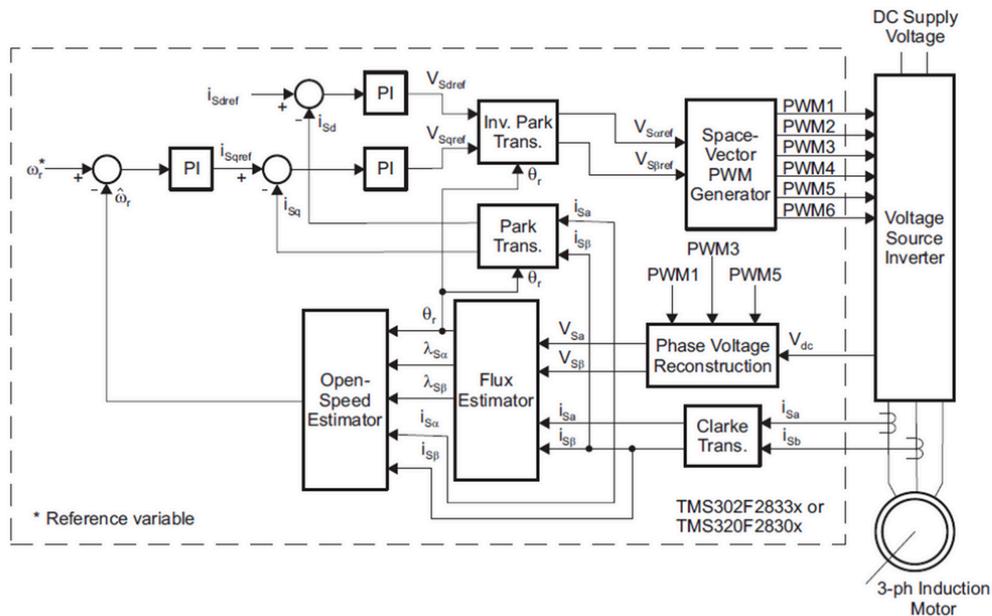


Induction Motor Drive

Objective:

- To design and develop indigenous AC motor controller for IM
 - Controller capable of supplying 80 A current continuously and 180 A for 2 minutes
 - FOC based control software for delivering this current with high torque and low slip.

Field Oriented Controlling Scheme



Output Signal obtained from VSC system to maintain constant V/f ratio

(a) voltage at 50 Hz (b) voltage at 40 Hz

(c) current at 50 Hz (d) current at 40 Hz

Application: 2 / 3 Wheeler EV drive

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

Toll Free No.:1800 233 2668 | Email: bd@erda.org | Web: www.erda.org