

## **Motor Acceleration Analysis**



Now you can add an unlimited number of events to simulate switching actions in a single Motor Starting simulation. You can start or switch off individual loads or categorized motor groups with the Action by Load and Action by Starting Category features, respectively. You can also change the operating load by clicking the Load Transitioning option to change from one loading category to another.

You can add an event by selecting the Event page and clicking on the Add button under the Events heading. Actions occurring at each event time can be added, modified, or deleted by selecting the event and modifying the respective Action heading (by Element, by Starting Category, by Load Transitioning). Click OK the save the changes you made in the study case editor.

Open Syn1's editor by double-clicking on the element graphic in the OLV, and go to the Load Model page. In the Acceleration Time (Static Starting) fields, enter 1 second as the no load acceleration time, and 3 seconds as the full load acceleration time. Click OK to save and exit.



The data you have just seen and changed is the minimum necessary to run a simple Static Motor Starting study. Run the study by clicking on the Run Static Motor Starting button on the Motor Starting toolbar.

Note: Once the calculation has completed, plots and output reports are accessible.







Also, go to the Inertia page and enter 0.2 into the motor inertia (H) field, and click OK. The motor  $WR^2$  will automatically be updated. Exit the Syn1 Synchronous Motor editor by clicking OK.



Now you can run a Dynamic Motor Starting study. Click the Run Dynamic Motor

