



## **Motor Starting Comparison Case # 2**

### **Comparison of ETAP Motor Starting Results Against Transient Stability**

#### **Excerpts from Validation Cases and Comparison Results (TCS-MS-083)**

##### **Highlights:**

Comparison of ETAP Motor acceleration (MS) results against Transient Stability (TS) results that have been validated against field measured data and hand calculations.

Motor is rated at 200 HP at 0.46 kV, RPM = 1800, %PF = 91.71, and %Eff = 92.75.

Motor CKT model is a Single (Single-cage with deep bars)

The mechanical load model (Torque) is represented by the following polynomial equation  $T = 100 * (0.012 + 0.0001MS)$  (constant torque ramping lom



