Abstract

This paper presents the three phase AC/DC converter drive effects on the linearity of the Torque-speed characteristics. A MATLAB/Simulink realization of the three phase AC/DC converter drive is described. The DC motor speed control is achieved by controlling the voltage applied to the armature circuit using three phase AC/DC converter drive. A comparison between the application of three phase semi converter and three phase full converter is presented. At different values of firing angle, the Torque-speed characteristics are obtained to demonstrate three phase AC/DC converter drive effects on the linearity of the characteristic.

**Index Terms**

Computer Science  
Power Electronics

**Keywords**

MATLAB/Simulink   DC motor drive   and Three phase AC/DC converter drive