

ASPECTS REGARDING THE DYNAMIC BEHAVIOUR OF THE PHASE SHIFT ANGLE IN A SYNCHRONOUS ELECTRICAL DRIVE

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Abstract: *The paper presents a study regarding the influence of different phase shift angle concepts in a synchronous electrical drive. The block diagram is based on the phase shift angle control using a control loop which is external to the current and speed control loops respectively. The phase shift angle is obtained by comparing the incremental pulses through frequency signals. A qualitative evaluation of the phase shift angle dynamic behaviour for different control concepts is obtained by simulation while response speed and steady-state error parameters are monitored.*

Key words: *synchronous electrical drive, phase shift angle control, incremental phase shift angle control.*