

The invention relates to electrical engineering in particular may be used for start of asynchronous motors of technological mechanisms, when heavy condition of motion. Procedure for start consists in connection of the asynchronous motor to a three-phase main through an AC voltage thyristor controller. At heavy start, procedure for start is realized by means of transition into a mode of quasi-frequency control and rising in starting moment of a motor. It is calculated sliding and angle of shaft rotation in quasi-frequency mode, the thyristor controller closes. It is prescribed time for repeated start procedure with enhanced value of starting moment, repeat of test runs with step-by-step enhancing value of starting moment before starting and getting the prescribed angle of rotor rotation. Duration of the mode of quasi-frequency control is determined by time that depends on load of working mechanism motion. A device, which realizes mode procedure, includes AC voltage three-phase thyristor controller having pulse-phase control, current and voltage sensor unit and a timing unit. The invention provides improved condition for start and motion of asynchronous motors of technological mechanisms.