

The invention relates to electric engineering and may be used for speed control and equalization of two or more asynchronous electric motors, phase rotors of which are not mechanically linked one with another. The asynchronous electric motor with synchronous rotation of rotors comprises electric motors, a parametric current source, bridge rectifiers and a switching element in the form of resistor or inverter driven with a power system. In controlled asynchronous electric motor with synchronous rotation of rotors, phase windings are connected one with another phase-parallel and then, with AC input of a bridge rectifier, DC output of which is connected correspondingly in series with a bridge rectifier of parametric current source and the switching element driven with a power system. Input of the parametric current source is connected to power circuit and via AC thyristor controller is connected to stator windings being phase-parallel connected one with another. Besides, the electric motor includes a tachometer generator connected with a shaft of one of electric motors, a selsyn bracket and an adder having two poles of different polarity connected with the tachometer generator and the selsyn bracket, output – with control system of AC thyristor controller.