

The invention relates to electric machine industry, in particular to asynchronous electric motors with short-circuited rotor. An asynchronous electric motor comprises toothed stator and rotor composed of sheets of electrotechnical steel having half-closed grooves. There are slots of b_s , width in grooves, axis of each being shifted relatively groove axis. Width of each groove shift does not exceed $1/8$ width a toothed rotor step. Slots made in adjacent grooves are arranged symmetrically as to rotor teeth. Rods of rotor short-circuited winding are made of aluminum alloy having enhanced strength characteristics and specific electric resistance. In one embodiment, an addition in the form of ferromagnetic powder or/and magnetic conductive copper is added to the alloy that provides enhancement of heat and overloading ability of the electric motor. In the other embodiment, teeth are made with a ramp to generating lines of corresponding cylindrical surfaces; teeth are ramped in the direction that is opposite to rotor teeth ramp. Totally, teeth ramp of stator and rotor does not exceed toothed stator step. In individual embodiment of electrical motor realization, rods of short –circuited winding are made of aluminum alloy AK-10 or an addition in the form of ferromagnetic powder or/and magnetic conductive copper is added to the aluminum alloy.