TESTING OF A TWO-SPEED SYNCHRONOUS MOTOR

This work shows the results of the tests on a 600/1050kW two-speed synchronous motor with the nominal speeds of 500 and 600 rpm. Motors of this type with powers ranging from 600 to 3150kW are modified single-speed motors. They have been working for several years in coal and copper mines. The use of two-speed drive motors makes it possible to regulate the speed in steps and, thus, regulate the output of the fan and the power drawn by the motor. The possibility of reactive power compensation is intact and mitigation of the motor starting processes is achieved.