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MATHEMATICAL MODEL FOR DIMENSIONING OF ROTOR WINDINGS OF INDUCTION MOTOR WITH WOUND ROTOR CONSISTING OF MULTISECTIONAL WINDINGS

ABSTRACT

The stator as well as the rotor windings is very important in attaining of superior working characteristics of designed electrical machine. In contrast to the stator, the rotor winding is rotating and it is under serious mechanical strains. Therefore, determination of rotor winding from electromagnetic point of view should be related to mechanical aspects.

Because of the reasons, the designer of windings prefers constructive solutions, which enable mechanical hardening of its active part (rotor channels) and its frontal parts.

This exposition concerns a practical example using developed mathematics model of determination of rotor winding composed of sections with profile conductor for slipping motor produced in 1978 by RADE KONCAR.

Keywords: