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Energy saving is an important factor of economic growth and effectiveness growth of national economy. Solving the problem of energy saving is possible when improving a variable speed electric drive based on induction motors which should be designed and manufactured for special energy saving technologies. New approach to induction motor design taken into account service condition is required. Energetic characteristic increase is a determining factor. In this factor energy saving effectiveness evaluation mathematical model has been presented.

The possibility of improvement of the induction motor without cross section geometry changing has been considered on the proposed model basis.



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