

## Article Abstract

Title:	Multi-phase alternative current machine winding design
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Abstract:	In this paper, a generalized formula is proposed for the selection of number of slots required for n-phase alternative current (AC) machine design and the criterion for selecting the starting points of each phases. The analytical model is verified using a four-pole machine with a 36-slot stator. Each coil of the stator winding of this machine is brought out to a patch board that enables the stator to be configured for single-phase to 18-phase excitation. Experimental results of a five-phase induction machine supplied from a static five-phase supply are provided to support the proposed design.
Keywords:	AC machine, Multi-phase machine, Stator winding, Five-phase