Experimental of localized flux distribution at three phase induction motor stator core with different stator slot size

Shariffuddin, N.S., Yanawati, Y., Hamidon, F.Z., Abdul Aziz, P.D., Saleh, N.

Abstract

A three phase induction motor differences of stator slot size is investigated in terms of its localized flux distribution. The search coil induced voltage method is used to analyze the flux distribution in the stator core. For both stator models, the maximum flux density is found near the tooth and minimum towards the outer region of the stator core. By saying so, this investigation shows that if there are differences in the stator slot size, the values of flux density differs as well. The increasing size of stator slot size will give the lower flux density value. © 2006-2016 Asian Research Publishing Network (ARPN).

Author keywords

Flux density; Stator core; Three phase induction motor