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Abstract
In order to increase three-phase induction motor drives stability, the traditional methods use R,RL or motor loads for the burn-in test about 24-48 hours, but test process to be bound to consumption energy, and use hot form loose, not only production costs increase,but also occupy equipment space. In order to save energy and reduce test costs, In this paper bring up use circulate electric current mode self-load bank burn-in test system employ inverter parallel connection technology. In this method, voltage-controlled regulator use parallel connect with system, Regulator controll that three-phase induction motor drives output power, change load characteristic . And power flow guide to the input terminal of tested unit, that's what main power energy circulate tested unit, main test electric current circuit without connect to utility grid directly, tested unit have more stability and safe. The operation frequency of tested united and unility can be different. Paper use capacity 1500W/220V three-phase induction motor drive as tested unit. According to experiment result , the saved energy in the burn-in test is approximately 80% of that lost by the conventional method,using a direct load.
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