

## Analysis of the Result for the Accelerated Life Cycle Test of the Motor for Washing Machine by Using Acceleration Factor

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**Abstract :** Accelerated life cycle test is applied to various products or components in order to reduce the time of life cycle test in industry. It must be considered for many test conditions according to the product characteristics for the test and the selection of acceleration parameter is especially very important. We have carried out the general life cycle test and the accelerated life cycle test by applying the acceleration factor (AF) considering the characteristics of brushless DC (BLDC) motor for washing machine. The final purpose of this study is to verify the validity by analyzing the results of the general life cycle test and the accelerated life cycle test. It will make it possible to reduce the life test time through the reasonable accelerated life cycle test.

**Keywords :** accelerated life cycle test, reliability test, motor for washing machine, brushless dc motor test

**Conference Title :** ICME 2017 : International Conference on Mechanical Engineering

**Conference Location :** Montreal, Canada

**Conference Dates :** May 11-12, 2017